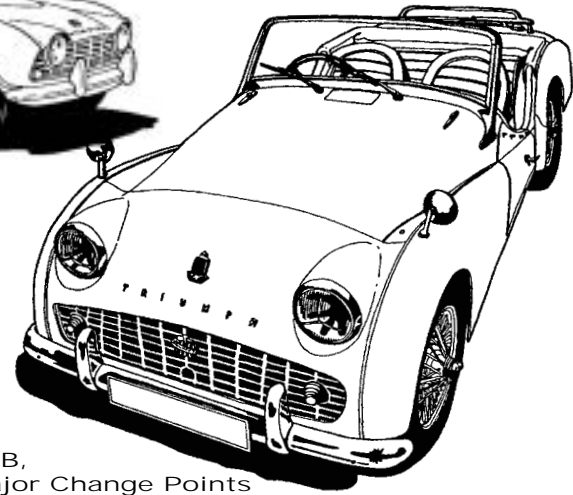


Production Dates & Commission Numbers

When ordering parts, it is essential that you identify your car exactly, by model year and serial number. Since many part changes were made during model years, the commission number, engine number and body number provide the only positive identification. Quite often a car's title will not show the correct model year. Before ordering parts, please record the applicable numbers from your car. Using these numbers is the best way to ensure that you order and receive the correct parts. Wherever possible, we have listed part applications by commission number (e), body number (b) or gearbox (g). For more information on these numbers and years, see the production data below.



Year	Model	Commission Number; From	To
1953	TR2	TS1 (Aug)	TS302
1954		TS303	TS5192
1955		TS5193	TS8636 (Sept)
1955	TR3	TS8637 (Sept)	TS9665
1956		TS9666	TS14998
1957		TS14999	TS22013 (Sept)
1957	TR3A	TS22014 (Sept)	TS25632
1958		TS25633	TS41629
1959		TS41630	TS65123
1960		TS65124	TS82029
1961		TS82030	TS82346 (Oct)
1961		TR4	CT1 (Aug)
1962	TR3B*		TSF1 (Mar)
1962	TR4	TCF1	TCF2804 (Oct)
1962		CT2471 (approx.)	CT18403 (approx.)
1963		CT18404 (approx.)	CT28485 (approx.)
1964		CT28486 (approx.)	CT40000 (approx.)
1965		CT40001 (approx.)	CT40304 (approx.)
1965	TR4A	CTC50001	CTC63736 (approx.)
1966		CTC63737 (approx.)	CTC75000 (approx.)
1967		CTC75001 (approx.)	CTC78684 (approx.)

***A Note on TR3B's**

The TR3B was a very interesting and rare car. Declining sales in the late 50's and early 60's of the TR3 series had led Triumph to carry out a major re-design of the car, which became known as the TR4. It was based on the TR3 running gear but had a Michelotti designed body with wind-up windows and other features designed to improve comfort.

The reaction to the TR4 in America was, initially, less than favourable and there was a minor panic back in Coventry where the feeling existed that a mistake had been made in introducing the TR4, and, it was felt essential that the TR3 was 're-introduced'.

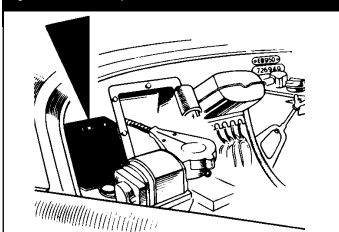
The car that was re-introduced was the TR3B and in its most basic form the same as the TR3A. There were two series of commission numbers (TSF and TCF), we believe the TSF series was for the 1991cc (83mm) engine and the TCF series for the 2138cc (86mm) engine. Both vehicles were fitted with the later TR4 all-synchromesh gearbox. These are the only distinguishing features that all experts appear to agree on. Unless otherwise specified in the text, all details of the TR3B can be considered to be the same as the post T60001 TR3A. If you have any useful information, which contradicts this statement, please drop us a line and we will be pleased to include it in future editions of this catalogue.

Supersession of Parts

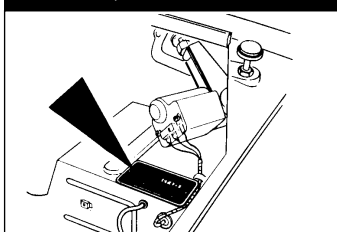
For those of you in possession of original Triumph parts books you may have information which conflicts with that given in the original book. This is usually because the part has been 'superseded' because of some change in specification. For example XKC510 is the left hand A-post. It used to be 813100 (and the right hand is still 813101), but when the TR6 USA spec cars had an audible buzzer fitted to advise owners that they had opened their door and left the keys in the ignition, it required an extra hole in the A-post to sense the door being opened. Hence 813100 with one hole for a courtesy light becomes XKC510 with two holes. There are many other examples where our Research & Development Department staff find old Austin/Morris saloon car parts that 'will do' to replace 'no longer available' TR parts. These often utilise different part numbers to those shown in the original Triumph parts book.

Location of Serial Numbers...

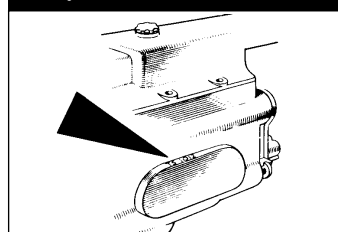
TR2/3/3A/3B Commission Number
This number is stamped on a plate which is riveted to the right hand bulkhead panel.



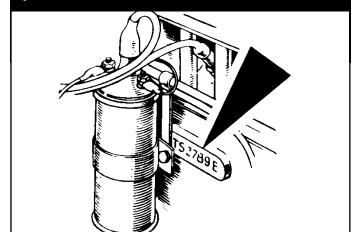
TR4/4A Commission Number
This number is stamped on a plate which is riveted to the left hand bulkhead panel.



TR2/3/3A/3B, TR4/4A Gearbox Number
This number is stamped on the left hand side of the gear-box casing.



TR2/3/3A/3B, TR4/4A Engine Number
The engine number is stamped on the left hand side of the cylinder block.



TR2/3/3A/3B, TR4/4A Major Change Points

Model	Commission No:	Changes
TR2	TS1	TR2 introduced.
	TS1307	MGA, Frogeye, London Taxi type stop/tail lamps introduced.
	TS4002	Outer sills and 'short door' fitted.
	TS4239	Dzus fasteners replace cables to open bonnet.
	TS6157	Vent lid introduced.
TR3	TS8637	TR3 introduced, 'egg-box' grille fitted.
	TS12568	Windscreen wiper motor moved from right hand to the left hand side of bulkhead.
	TS13046	Girling hydraulics introduced. TR3 becomes the first mass produced car with disc Brakes fitted a standard.
TR3A	TS22014	Window grille, exterior door handles, different front bumper & over-rider design.
	TS28826	Dzus fasteners used on sidescreens.
	TS41878	Colour scheme of front badge changes from red and black to blue and white.
	TS50001	Starter motor changed.
	TS60001	Major body redesign. 'Raised' hinge mounting points, squared rear floor. One piece boot floor fitted. Windscreen stanchions held on by screws in place of Dzus fasteners.
	TS83572	Last TR3A
TR3B	TSF1	TR3B introduced with 1991cc engine and 4 synchro' gearbox.
	TCF1	TR3B introduced with 2138cc engine and 4 synchro' gearbox.
	TCF2804	Last TR3B
TR4	CT1	First TR4 introduced.
	CT6636	Redesigned front suspension with 3* castor.
	CT16801	Stromberg carburettors introduced as mixed fitment.
	CT23383	Deep dish rear springs introduced.
	CT40304	Last TR4 produced.
TR4A	CTC50001	Introduction of the first IRS TR4A, (Solid axle TR4A's Were prefixed 'CT' beginning at CT50001).
	CTC61291	Stromberg carburettors replaced by HS6 SU's.
	CT70000 (approx.)	Cross box silencer introduced.
	CT787684	Last of the TR4A rolled of the production line (10th July 1967)

These pages list only the major items in each area, such as body work, electrical and brake components. In many cases minor fittings, clamps and linkages etc., are not shown.

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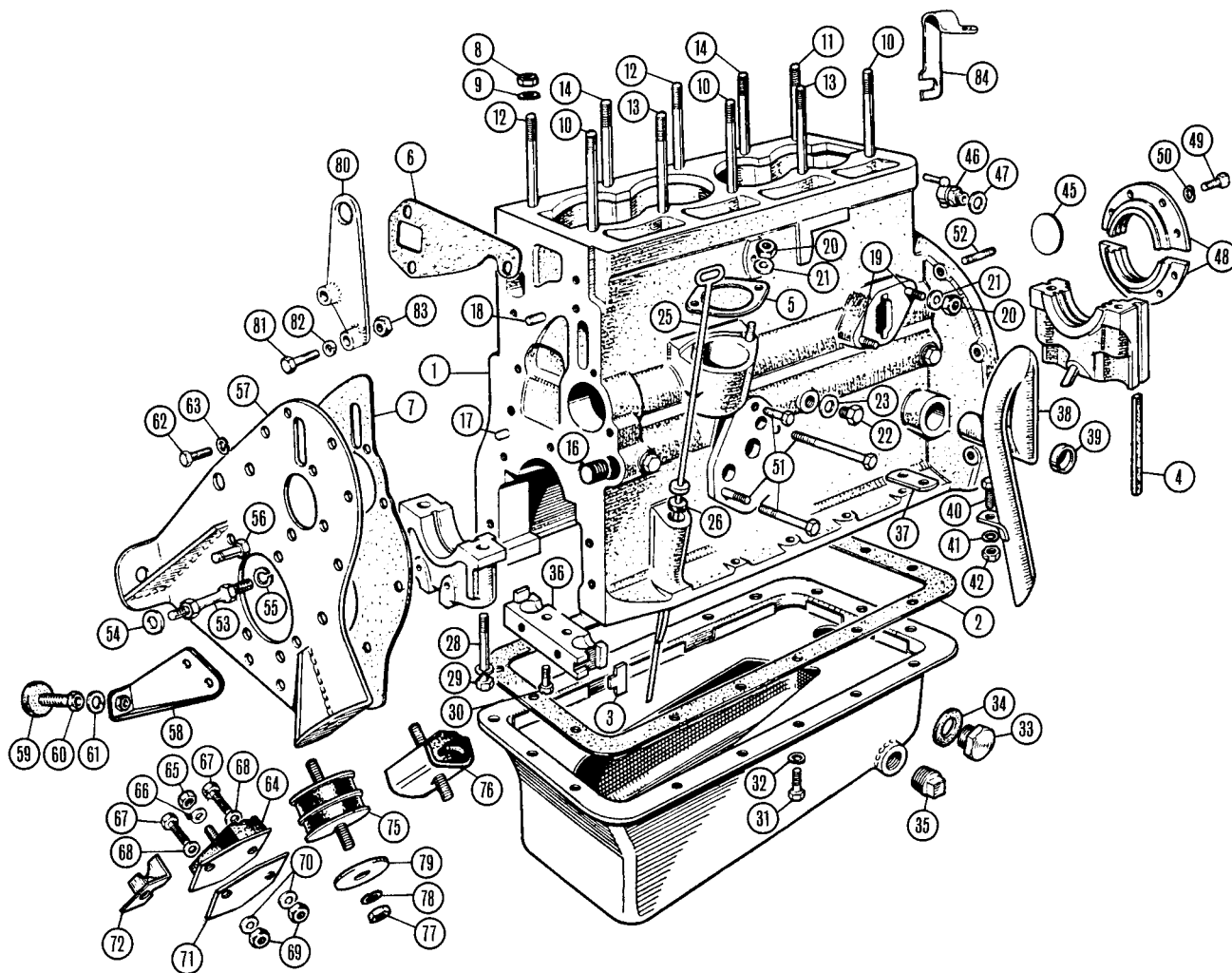
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III. Part Number No	Description	Qty. Req.	Details
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III. Part Number No	Description	Qty. Req.	Details
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A Brief History of the 4 Cylinder TR Engine

The 4 cylinder engine was developed from an old Massey Ferguson Tractor unit. It was built for Massey Ferguson in the Triumph Engine plant where it was 'stolen' to be modified for the Vanguard series. When Ken Richardson was looking for a power unit for the TR, the obvious candidate was the robust Vanguard engine. It needed dramatic work to the head to extract a reasonable power output but, apart from the cylinder head studs the basic 'lower end' was considered OK. The engine had 'wet liners' which means that the pistons move up and down in 'sleeves' fitted in the block. The sleeves, or liners, are designed to be removable from the block for repair or replacement.

The movement of liners is a real pain. Usually from both angles. By that I mean that when you want to get them out they seem like they aren't liners at all but simply 'welded' to the block, but, when you are doing a routine de-coke they seem to move at the slightest provocation. It's easy to see when they have moved, you end up with a mixture of oil and water in the sump and, you have the same mixture in the radiator. Solution: liners out ... new 'figure of eight' seals in (112789).

As a precaution it's best to clamp the liners when you have removed the head. Don't Worry about the fancy Churchill tool which has been unavailable for a long time. Just get a piece of '14 gauge' steel and lay it flat on the block over two liners, get an old gudgeon pin, slip the pin over a head stud and tighten a nut down over it with a plain washer under the nut and over the gudgeon pin.

The liners can be bored and fitted with oversize pistons to overhaul the engine but they MUST be removed from the block for this purpose.

When Ken Richardson was busy trying to win Le Mans he realised that the Vanguard pistons, giving 2088cc, were something of a liability because he was racing in the over 2000 (i.e. 2 Litre) class. He therefore decided to use bigger (or should it be smaller?) liners to bring the engine to 1991cc. Even though England was very much a 'yards, feet and inches' country in 1952/1953, these liners have always been known as '83mm liners'. TR3B's and TR4/4A's have an 86mm liner which gives a 2138cc engine.

As well as offering you an 87mm Piston & Liner (as did Hepworth & Grandage with their 'Power Max' range), we now supply (from stock) an 89mm Piston Set & Liners, so if you have always wanted show all these modern cars just what a circa 1950's classic really can do, then your prayers have just been answered apply for your pilots license!

All liners are interchangeable between all engines (in sets of course) and you can bore The 83mm standard units to 87mm without risk. We are offering a range of new liners with Matching pistons in different over-sizes. All pistons come with rings, gudgeon pins and circlips. Originally Triumph had two suppliers of pistons and in the early days they would come either in 3 or 4 ring varieties.

Short Engine (Standard);

(These reconditioned units are supplied on a strict exchange basis)

503707R	SHORT ENGINE (std bores)	1	TR3/3A
514659R	SHORT ENGINE (std bores)	1	TR4/4A

Short Engine (Performance);

These are fully balanced units complete with diaphragm clutch & flywheel.

Please contact your local Moss branch for details.

(See also 'Performance & Tuning' in Accessories)

ENG1150	SHORT ENGINE (87mm bores)	1	Customers own Unit
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Cylinder Blocks Explained

All 4 cylinder TR blocks are interchangeable, however those with non-replaceable cam bearings should be avoided, except where authenticity is paramount. Even the stamped engine number (see page 83) does not guarantee the internals are as per the engine number, therefore the parts book is not necessarily a guide for ordering. The TR2/3/3A front engine plate is narrower between the engine mounting point hole centres (13 3/8") than the TR4/4A equivalent (14 3/4"). With the correct engine plate, complete engines are interchangeable.

Cylinder Block

1	502363SR	CYLINDER BLOCK	1	bare block
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Ill. No	Part Number	Description	Qty. Req.	Details
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Gaskets & Gasket Sets

(Head Gasket Sets are sometimes called 'De-Coke Sets')

NI	501678	GASKET SET, cylinder head	1	TR2 (Low port)
NI	GEG178	GASKET SET, cylinder head	1	'High port' head models

For full details & Information of head gaskets/sets, please refer to Cylinder Heads & Fittings on page 91.

Gasket set GEG178 will replace head sets for most models. Owners of TR3's with 'low port' heads & H6 carburettors will have to buy 2 x 106937 in addition to the gasket set as the 'inlet/exhaust manifolds to head' gaskets provided will not fit.

NI	GEG248	GASKET SET, bottom end	1	
<i>(Bottom End Gasket Sets are also known as 'Sump Set' or 'Conversion Set')</i>				
<i>Gasket Set GEG248 includes all the following items.</i>				
2	211123	GASKET, sump	1	
3	059381	CORK 'T' PIECE, sealing	2	
4	058335	FELT ROPE, rear main bearing	2	
5	125251	GASKET/SHIM, distributor pedestal	1	
6	138586	GASKET, w/pump housing to block	1	
7	056389	GASKET, engine plate	1	
<i>The following gaskets/seal are also included in GEG248 but are not illustrated on this page.</i>				
NI	138587	GASKET, water pump to housing	1	
NI	112146	GASKET, oil filter housing	1	
NI	112789	SEAL, 'figure of 8'	2	
NI	139041	GASKET, fuel pump	1	
NI	211122	GASKET, timing cover	1	
NI	056282	GASKET, oil pump to block	1	

Cylinder Head Studs

There were essentially two sets of cylinder head studs. (I'll explain the third set in a minute). The main change occurred when the 'high port' head was introduced at engine no TS13052.

(An explanation of cylinder head differences is on page 90)

8	110962	NUT, cylinder head stud	10	
	CAM4545	NUT, cylinder head stud (improved)	10	use with New Moss Heads
9	WA112081	WASHER, plain	10	

On the 'low port head' (TR2, TR3 to TS13051), the head studs are as follows:

NI	106959	STUD, cylinder head, 5"	6	
NI	106960	*STUD, cylinder head, 9"	4	

*Note: These longer studs were fitted to reinforce and strengthen the block. The original Vanguard engine from which this engine was developed had a lower compression. When Ken Richardson decided to extract more power (by raising the compression ratio), improved cylinder head retention was required.

On the 'high port heads', which is TR3/3A from TS13052 and all TR4/4A's, the head stud pattern is as shown in the illustration opposite and listed here.

10	106959	STUD, cylinder head, 5"	3	
11	113570	STUD, cylinder head, 5 3/8"	1	without lifting bracket
	121734	STUD, cylinder head, 5 9/16"	1	with lifting bracket
12	113570	STUD, cylinder head, 5 3/8"	2	
13	106960	STUD, cylinder head, 9"	2	
14	113169	STUD, cylinder head, 9 1/2"	2	

The third set of studs exist when the stud 5 3/8" long (item 11) is replaced to accommodate the rear engine lifting bracket (part number 121752). This stud (part no. 121734) is 5 9/16" long.

Cylinder Block Fittings & Engine Mountings

16	PU1404	PLUG, oil gallery ends	2	
17	DP514	DOWEL, locating	2	
18	TE505111	STUD, engine plate	1	
19	TE505111	STUD, pedestal	4	fuel pump & distributor
20	GHF201	NUT	4	
21	GHF332	WASHER, locking	4	
22	102785	PLUG, screwed into oil gallery	3	
23	500463	WASHER, copper, oil gallery plug	3	
24	HU954	SCREW, oil gallery		
25	500464	WASHER, copper	1	
26	102139	DIPSTICK	1	
27	032307	SEAL, felt (on dipstick)	1	
28	057121	BOLT, main bearing caps	6	
29	GHF335	WASHER, locking	6	
30	056574	SCREW, sealing block	2	
31	SH505061	SCREW, oil sump	16	without closed circuit breather fitted
	BH505101	BOLT, breather pipe to sump	2	
	SH505051	SCREW, sump to front sealing block	1	
	SH505061	SCREW, oil sump	17	with closed circuit breather fitted
	BH505101	BOLT, breather pipe to sump & slave cylinder stay	1	
	SH505051	SCREW, sump to front sealing block	1	
32	GHF332	WASHER, locking	19	

Ill. No	Part Number	Description	Qty. Req.	Details
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33	ULC1999	PLUG, oil drain (shouldered type)	1	
34	AUC2141	WASHER, fibre	1	use with ULC1999
35	114774	PLUG, oil drain, tapered	1	square headed
	22G2115	PLUG, oil drain, tapered	1	
	155660	PLUG, oil drain, tapered	1	magnetic

The 4 cylinder TR's were fitted with two different types of sumps. As these have been interchanged over the years, you must ensure that the plug correctly fits the sump. If you are using a tapered plug and it only engages on 2 or 3 threads, then plug (item 33) and washer (item 34) will be required instead.

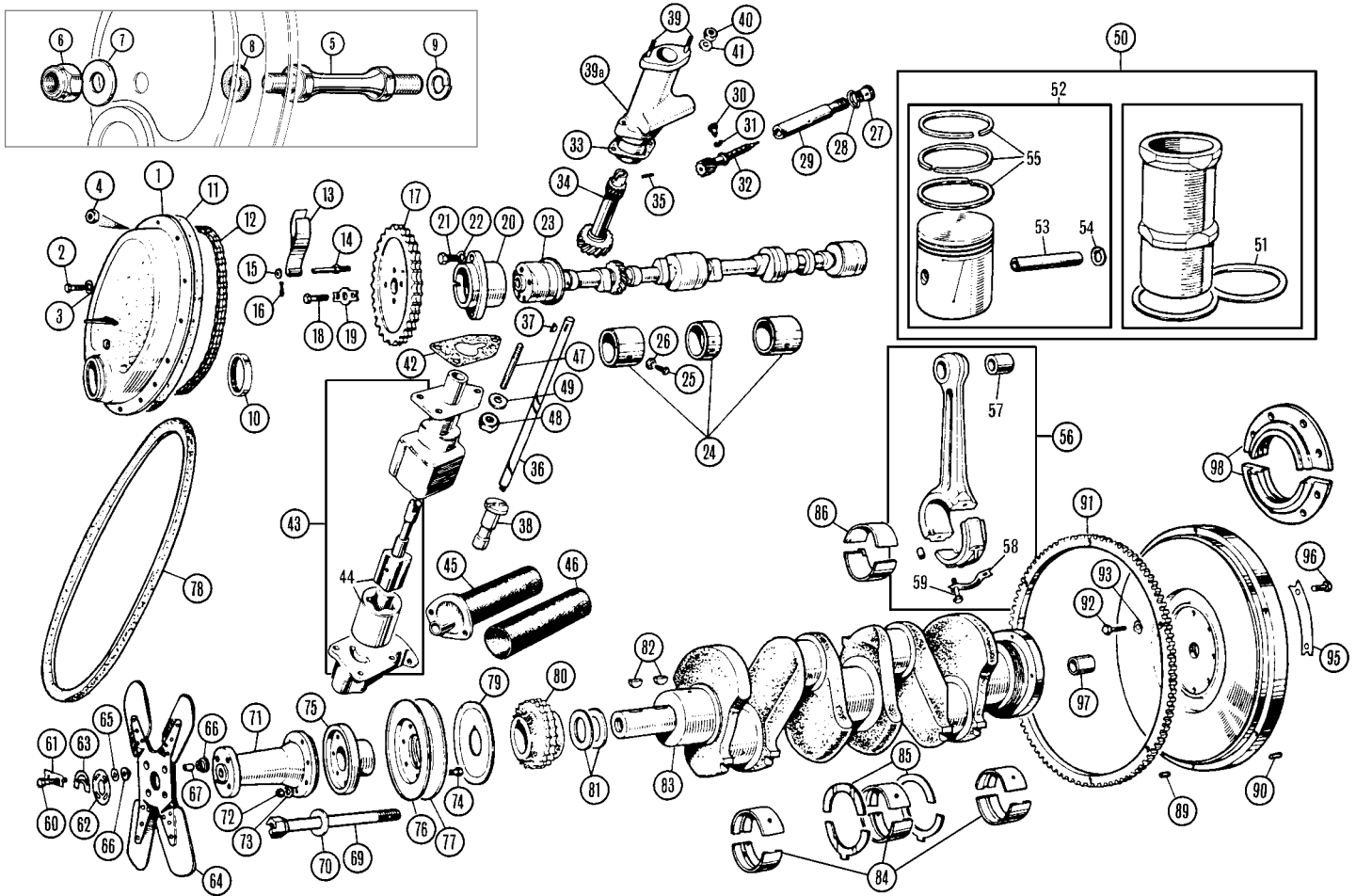
36	056638	SUMP, standard, shouldered type	1	
	115350	SUMP, standard, tapered type	1	
	301318	SUMP, Alloy, tapered type	1	Alloy
37	55810	BLOCK, front sealing	1	
38	120211	BRACKET, breather pipe	1	
39	205020	PIPE, breather	1	
40	132924	PLUG (in place of breather pipe)	1	closed circuit breathing
41	GHF120	SCREW, pipe to bracket	1	
42	GHF332	WASHER, locking	1	
43	GHF201	NUT, plain	1	
45	044473	CORE PLUG, camshaft rear	1	
46	061478	TAP, water drain	1	
47	GHF346	WASHER, fibre	1	
48	060862	OIL SEAL, crankshaft rear	1	Standard type oil seal
NI	TT1032	OIL SEAL CONVERSION	1	Lip type oil seal
	TT1032S	OIL SEAL, crankshaft rear	1	
49	SH504051	SCREW, oil seal	8	
50	GHF331	WASHER, locking	8	
51	<i>For oil filter housing hardware please refer to page 90</i>			
52	<i>For gearbox mounting hardware please refer to page 99</i>			
53	056763	PEDESTAL, timing cover support	1	
54	WF508	WASHER, fibre	1	
55	GHF332	WASHER, locking	1	
56	058701	PIN, timing chain tensioner pivot	1	
57	301251	ENGINE PLATE	1	TR2/3/3A
	304711	ENGINE PLATE	1	TR4/4A

The torque reaction arm (item 58) and the TR4 bonnet buffer (also used as the buffer for the torque arm) were sporadically fitted during the production of the TR4. However, over the years due to owners changing engine units, they may also appear on TR4/4A's even though they were never fitted during production.

58	133471	ARM, torque reaction	1	TR4
59	650325	BUFFER, torque reaction arm	1	
60	GHF201	NUT	1	
61	GHF332	WASHER, locking	1	
62	SH505061	SCREW, engine plate attaching	5	
63	GHF332	WASHER, locking	5	
64	059180	ENGINE MOUNTING	2	TR2/3/3A
65	GHF223	NUT, mounting to engine plate	2	
66	GHF302	WASHER, plain	2	
67	GHF103	SCREW, mounting to chassis	4	
68	GHF301	WASHER, plain	4	
69	GHF222	NUT, nyloc	2	
70	GHF332	WASHER, locking	2	
71	109582	SHIM, engine mounting	a/r	
72	106428	BRACKET, steady	4	
75	130985	ENGINE MOUNTING, round	2	
76	143057	ENGINE MOUNTING, rectangular	2	TR4A

These mountings (items 75 & 76) are interchangeable, and either type may be fitted in pairs. However the 143057 are preferred, as they are of a 'fail safe' design.

77	GHF202	NUT, engine mounting	4	TR4/4A
78	GHF332	WASHER, locking	4	
79	134234	WASHER, packing	a/r	
80	121231	FRONT LIFTING EYE	1	
81	GHF104	BOLT, front lifting eye	2	to engine plate
82	GHF332	WASHER, locking	2	
83	GHF201	NUT, plain	2	
84	121752	BRACKET, rear lifting	1	



Ill. No	Part Number	Description	Qty. Req.	Details
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Internal Engine Components

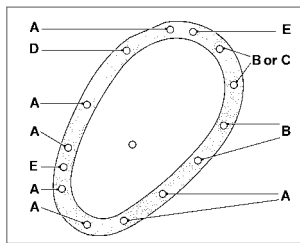
1 203681 COVER, timing chain

The timing cover has what looks like the leftovers of the last batch of 'polyfilla' type material stuck on the outside. Several owners of potential concourse winning cars have spent many happy hours removing this. **WRONG!** It's there as a sound deadening device. (This means that you won't be able to hear the broken tensioner flying around destroying the timing cover not only can you hear it better, but you also get your engine compartment rust proofed with engine oil.)

Timing Cover Fittings (Use listings with diagram)

Ill. No	Part Number	Description	Qty. Req.	Details
2	SH505071	(A) SET SCREW, 7/8" UNC	7	
	SH605051	(B) SET SCREW, 5/8" UNF	4	when lifting eye not fitted
	SH605051	(B) SET SCREW, 5/8" UNF	2	when lifting eye fitted
	GHF104	(C) SET SCREW, 1 1/2" UNF	2	when lifting eye fitted
	TE505111	(D) STUD	1	
	DP514	(E) DOWEL, (must be cut to fit)	2	
3	GHF332	WASHER, locking	12	use with A, B, C & D
4	GHF201	NUT, plain	5	use with B, C & D
5	056763	PEDESTAL, timing cover support	1	
6	GHF272	NUT, timing cover to pedestal	1	
7	GHF301	WASHER, plain	1	
8	WF508	WASHER, fibre (under cover)	1	
9	GHF332	WASHER, locking	1	
10	104662	OIL SEAL, timing chain cover	1	
11	211122	GASKET, timing chain cover	1	
12	057151	TIMING CHAIN	1	
13	043404	TENSIONER, timing chain	1	
14	058701	STUD, tensioner mounting	1	
15	WP18	WASHER	a/r	
16	GHF500	SPLIT PIN	1	
17	057113	CHAIN WHEEL, on camshaft	1	
18	056370	BOLT, sprocket retaining	2	
19	056293	TAB WASHER, cam sprocket	1	
20	060214	CAM BEARING, front	1	
21	056370	BOLT, shouldered	2	front bearing
22	GHF332	WASHER, locking	2	

1 TR2/3/3A, TR4 to CT21470



Ill. No	Part Number	Description	Qty. Req.	Details
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23	301466	CAMSHAFT (New)	1	TR2/3/3A, TR4
	301466R	CAMSHAFT (exchange)	1	
	307036	CAMSHAFT	1	TR4A
	307036R	CAMSHAFT (exchange)	1	
Camshafts with Special profiles are available, please enquire.				
24	AEC3027	BEARING SET, camshaft	1	TR3 from TS8997,
	113522	BEARING, camshaft, centre & rear	2	TR3A, TR4/4A
	113523	BEARING, camshaft, intermediate	1	

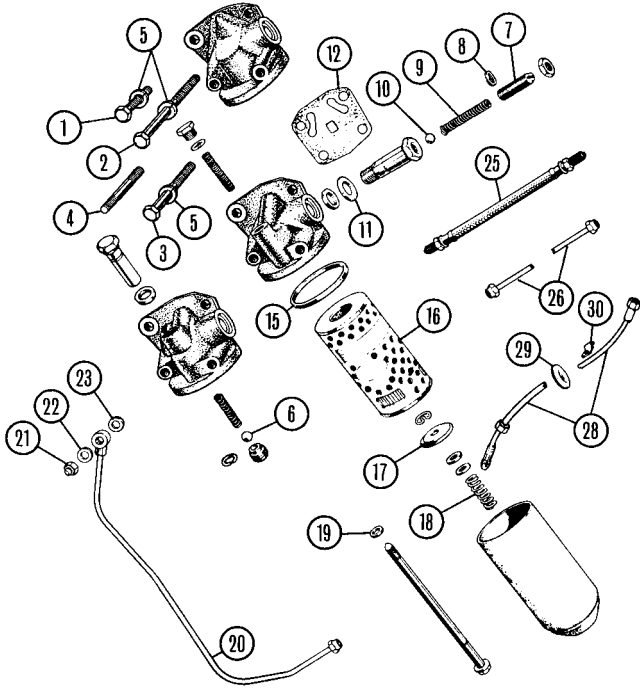
Note: Camshaft bearings were not fitted until engine no TS8997. Prior to this, the camshaft rotated directly in the cylinder block.

NI GAC5076 TOOL (Churchill) a/r
We have remanufactured the special Churchill Coil Spring Compressor tool (GAC5076), but, it can also be used for fitting new camshaft bearings.

25	110462	SET SCREW, bearing retaining	3	TR3 from TS8997
26	GHF301	WASHER, plain	3	TR3A, TR4/4A
27	060246	SCREWED END, tacho drive	1	
28	060247	OIL SEAL, tacho drive	1	
29	132472	BEARING, tacho drive	1	
30	056305	SCREW, locking	1	
31	GHF332	WASHER, locking	1	
32	106184	GEAR, tacho drive	1	
33	125251	GASKET/SHIM	a/r	distributor pedestal
Consult your workshop manual to determine how many shims are required.				
34	106981	GEAR, driving	1	
35	500975	PIN, (fitted in gear 106981)	1	
36	104966	SHAFT, oil pump drive	1	
37	WKN304	KEY, gear to shaft	1	
38	056405	BUSH, oil pump drive shaft	1	
39	105280	STUD, distributor to pedestal	2	
39A	201623ALI	PEDESTAL, distributor	1	Aluminium
40	GHF200	NUT, plain	2	
41	GHF331	WASHER, locking	2	
42	056282	GASKET, oil pump	1	
NI	200155X	OIL PUMP (Uprated)	1	See Accessories for details
43	200155	OIL PUMP (Standard)	1	
44	504862	SPINDLE & ROTOR, oil pump	1	
45	100682	FILTER	1	
46	100682G	STRAINER GAUZE	1	

Ill. No	Part Number	Description	Qty. Req.	Details	
47	TE505111	STUD, block to pump body	3		
48	GHF201	NUT, plain	3		
49	GHF332	WASHER, locking	3		
50	AESA512x4	PISTON & LINER SET, std	1	(83mm) engine set	
	AESA1096x4	PISTON & LINER SET, std	1	(86mm) engine set	
	AESA1096020x4	PISTON & LINER SET, +0.020"	1		
	AESA1096030x4	PISTON & LINER SET, +0.030"	1		
	AESA1096040x4	PISTON & LINER SET, +0.040"	1		
	AESA1710KR	PISTON & LINER, (87mm)	1	Forged	
	AE18510X	PISTON SET standard	1	(89mm) Mind blowing !	
	122166	LINER, cylinder, standard	4		
	122166/020	LINER, cylinder, +0.020"	4		
	122166/030	LINER, cylinder, +0.030"	4		
	122166/040	LINER, cylinder, +0.040"	4		
<i>We are always amused as to how we mix 'millimetre' piston sizes with 'inch' over-sizes !</i>					
51	112789	SEAL, 'figure of 8', liners to block	2		
52	AE12655STDx4	PISTON SET (83mm), standard	1	83mm TR2/3, TR4	
	AE12655020x4	PISTON SET (83mm), +0.020"	1	(option on TR4)	
	AE12655030x4	PISTON SET (83mm), +0.030"	1	engine set	
	AE15765STDx4	PISTON SET (86mm), standard	1	86mm	
	AE157650/20x4	PISTON SET (86mm), +0.020"	1	TR4/4A	
	AE157650/30x4	PISTON SET (86mm), +0.030"	1	engine set	
	AE157650/40x4	PISTON SET (86mm), +0.040"	1		
	AE18510KR	PISTON (87mm), standard	4	87mm option	
	AE18510X	PISTON SET, (89mm)	1	89mm option	
53	060254	GUDGEON PIN	4		
54	045985	CIRCLIP	8		
<i>Please note that even though we refer to pistons with an 'AE' prefix and then by their 'AE' piston number, we are forced by lack of availability to resource with other manufacturers. The 'AE' numbers are for reference only and usually do not imply that we they are manufactured by AE.</i>					
55	MM817-000	RING SET (83mm), standard	1	83mm 3 ring pistons engine set	
	MM817-020	RING SET (83mm), +0.020"	1		
	MM817-030	RING SET (83mm), +0.030"	1		
	MM817-040	RING SET (83mm), +0.040"	1		
	MM817-060	RING SET (83mm), +0.060"	1		
	MM817-100	RING SET (83mm), standard	1		83mm 4 ring pistons engine set
	MM817-120	RING SET (83mm), 0.020"	1		
	MM817-130	RING SET (83mm), 0.030"	1		
	MM817-140	RING SET (83mm), 0.040"	1		
	MM817-160	RING SET (83mm), 0.060"	1		86mm 3 ring pistons engine set
	MM817-300	RING SET (86mm), standard	1		
	MM817-320	RING SET (86mm), +0.020"	1		
	MM817-330	RING SET (86mm), +0.030"	1		
	MM817-340	RING SET (86mm), +0.040"	1		
	MM817-400	RING SET (86mm), standard	1	86mm 4 ring pistons engine set	
	MM817-420	RING SET (86mm), +0.020"	1		
	MM817-430	RING SET (86mm), +0.030"	1		
	MM817-440	RING SET (86mm), +0.040"	1		
	MM817-200	RING SET (87mm), standard	1	87mm option	
	MM817-230	RING SET (87mm), +0.030"	1	engine set	
56	211044	CON ROD	4		
57	C17164	BUSH, gudgeon pin	4		
<i>There were several different connecting rods fitted as original. The only one available is 211044 which should be matched to other 211044s. If you don't have this type you will need to replace the set. The easy way to tell is these have a casting no. of 211046 stamped on the side and 'stretch' type bolts without tab washers.</i>					
58	105313	TAB WASHER	4	TR2/3/3A	
59	105312	BOLT (used with tab washers)	8	TR4 to CT34071	
	138528	BOLT, self-locking (used without tab washers)	8	TR4 from CT34072 TR4A	
<i>The early connecting rod bolts (part no. 105312) must be used with tab washers (105313). Tab washers must NOT be used with the later bolts (part no. 1038528). These bolts retain their grip by being slightly stretched into tension and if tab washers are used, the continued expansion and contractions as the engine heats up/cool down, means the washers will allow the bolt to 'creep' and ultimately work loose. For this reason 'stretch' bolts (138528) must never re-used.</i>					
<i>As sets, 105312 plus 105313 can be used inter-changeably with 138528. Both bolt types should be torqued to 55-60 ft lbs.</i>					
60	BH605111	BOLT, fan attachment	4		
61	107857	TAB WASHER	2		
62	108497	LOCK PLATE, crank bolt	1		
63	107858	BALANCE PIECE	1		
64	202025	FAN, 4-bladed	1	TR2/3/3A	
	209792	FAN, 4-bladed	1	TR4/4A	
	211986	FAN, 6-bladed	1	some TR4	
<i>The 6-bladed fan (part no. 211986) for TR4As is no longer available, but can be replaced by the 4-blade type (part no. 209792) with no problems. All mounting bolts and hardware are the same. We have re-tooled both 209792 and 202025 and they really are identical to the originals.</i>					
65	GHF301	WASHER	4		
66	108496	BUSH, rubber, fan mounting	8		
67	108499	SLEEVE (steel)	4		

Ill. No	Part Number	Description	Qty. Req.	Details
69	108498	*BOLT	1	TR2/3B
	128319	*BOLT	1	TR4/4A
<i>*Fan extension & pulley hub to crankshaft.</i>				
<i>*Bolt (part no. 128319) has a starting handle slot in the head. It was not fitted to TR4As, but as the bolt that was fitted (part no. 142185) is no longer available, we recommend using 128319.</i>				
70	108494	SHIM	a/r	
71	108493	EXTENSION, fan hub	1	TR2/3B
	128318	EXTENSION, fan hub	1	TR4/4A
72	GHF271	NUT, nyloc, pulley to hub	6	
73	WP127	WASHER (fits under nut)	6	
74	HBZ411	BOLT, pulley to hub	6	
75	107250	HUB, pulley	1	
76	107252	PULLEY, front half, dished	1	
77	110023	PULLEY, rear half, flat	1	
78	GFB40975	FAN BELT	1	
79	057196	OIL DEFLECTOR	1	
80	055971	CHAIN WHEEL, on crankshaft	1	
81	056522	SHIM, sprocket, 0.004"	a/r	
	056523	SHIM, sprocket, 0.006"	a/r	
82	WKN606	KEY, crankshaft	2	
83	301815R	CRANKSHAFT* (reground/exchange)	1	Standard type oil seal
	301815X	CRANKSHAFT (New)	1	Lip type oil seal
	301815RX	CRANKSHAFT* (reground/exchange)	1	*Note: reground cranks are supplied less bearings, allowing you to choose Glacier or Replacement shells
84	AEM3196STD	BEARING SET, main, std	1	
	108810	BEARING SET, main, std	1	*Replacement bearings
<i>*Glacier Main bearings are currently only available up to +0.020" oversize.</i>				
<i>When ordering Glacier bearings please quote part number & size required (i.e. AEM3196010 for +0.010).</i>				
<i>*Replacement Main bearings are available in the following oversizes.</i>				
<i>+0.010", +0.020", +0.030", +0.040" & +0.050".</i>				
<i>When ordering Replacement bearings please quote part number/size req. (i.e. 108810/010 for +0.010 oversize).</i>				
85	AEW2004STD	THRUST WASHER SET, std (0.0925")	a/r	
	AEW2004005	THRUST WASHER SET, 0.005"	a/r	
	AEW2004008	THRUST WASHER SET, 0.008"	a/r	
<i>Adjust crankshaft end float with selective use of thrust washers. (Refer to workshop manual)</i>				
86	AEB4331STD	BEARING SET, con rod, std	1	*Glacier bearings
	117590	BEARING SET, con rod, std	1	*Replacement bearings
<i>*Glacier Con Rod bearings are currently only available up to +0.020" oversize.</i>				
<i>When ordering Glacier bearings please quote part number & size required (i.e. AEB4331010 for +0.010).</i>				
<i>*Replacement Con Rod bearings are available in the following oversizes.</i>				
<i>+0.010", +0.020", +0.030", +0.040", +0.050" & +0.060".</i>				
<i>When ordering Replacement bearings please quote part number/size req. (i.e. 117590/010 for +0.010 oversize).</i>				
89	DP619	DOWEL PIN, flywheel to c/shaft	1	
90	DP408	DOWEL PIN, flywheel to c/cover	2	spring clutch
	DP408	DOWEL PIN, flywheel to c/cover	3	diaphragm clutch
	201454	RING GEAR (shrink-on)	1	TR2/3, TR3A to TS50000
91	202834	RING GEAR (bolt-on)	1	TR3A from TS50001
92	112030	BOLT, ring gear retaining	6	TR4/4A
93	115776	TAB WASHER, ring gear bolts	6	
95	056524	TAB WASHER, flywheel bolts	2	TR2/3/TR3A
96	102065	BOLT, flywheel to crankshaft	4	TR4 to CT34071
	138527	BOLT, self-locking* (flywheel to crankshaft)	4	TR4 from CT34072 TR4A
<i>*Note: Do NOT use tab washers with these self-locking bolts, which are a 'stretch' type, similar to item 59 (138528). (See also note on item 59).</i>				
97	047246	BUSH, spigot	1	
98	060862	OIL SEAL, crankshaft rear	1	Standard type oil seal
NI	TT1032	OIL SEAL CONVERSION	1	Lip type oil seal
	TT1032S	OIL SEAL, crankshaft rear	1	
Lightweight Steel Flywheels (Less Ring Gear);				
<i>The 4 cylinder TR was fitted with 3 different types of flywheels throughout it's production. The 3 basic types are:</i>				
<i>(1) flywheel with shrink-on ring gear was fitted on TR2/3 and TR3A to TS50000, and goes with the early shrouded starter motor and spring type clutch cover.</i>				
<i>(2) Flywheel with bolt-on ring gear for later starter motor and spring type clutch cover was fitted on TR3A from TS50001 and all TR4.</i>				
<i>(3) Flywheel with bolt-on ring gear and 8 1/2" diaphragm clutch was fitted to all TR4As. None are available but due to the owners propensity to 'mix & match', you could have anything fitted in your car. You should always fit the correct starter motor for your ring gear.</i>				
Remember: Shrink-on ring gear takes shrouded starter: Bolt-on ring gear goes with open bendix starter. If you mismatch they will still work ... but not for long.				
<i>(For help with identification of the different starter motors see page 152).</i>				
<i>These Steel flywheels all weigh around 4kg (9lbs), which leaves a sensible amount of inertia to keep the TR driveable. The serious reduction in reciprocating mass being accelerated and decelerated is probably equivalent to 10 - 20 bhp (depending on the state of engine tune). They are primary intended for competition use.</i>				
<i>All these Flywheels are for use with Bolt-on Ring Gears, and must be used with the correct Starter Motors, preferably a High Torque Geared unit (see page 39). (See also page 51 for more Steel Flywheel text)</i>				
	143105X	FLYWHEEL, steel, Less ring gear (4 bolt fixing use with 8.5" diaphragm clutch)	1	TR2/4A models
	TT2230S	FLYWHEEL, steel, Less ring gear (8 bolt fixing for 7.25" Competition clutch only)	1	4 cyl TR models
	TT2231S	FLYWHEEL, steel, Less ring gear (12 bolt fixing for 7.25" Competition clutch only)	1	



Ill. No	Part Number	Description	Qty. Req.	Details
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Oil Filter & Mountings

1	GHF163	BOLT, filter head, upper front	1	Bypass type
	112233	BOLT, filter head, upper front	1	Full flow type
2	BH505321	BOLT, filter head, upper rear	1	Bypass type
	112231	BOLT, filter head, upper rear	1	Full flow type
3	BH505241	BOLT, filter head, lower rear	1	Bypass type
	112232	BOLT, filter head, lower rear	1	Full flow type
4	112170	STUD, oil filter and banjo fitting	1	
5	GHF332	WASHER, locking	3	
6	BL27	BALL (on balance valve)	1	Purolator
	BL28	BALL (on balance valve)	1	Tecalamit
7	060416	SCREW, adjusting	1	Purolator
8	030123	WASHER, lead linger/wire	1	
9	060414	SPRING, relief valve	1	Purolator
	059609	SPRING, relief valve	1	Tecalamit
10	BL27	BALL	1	Purolator
	BL28	BALL	1	Tecalamit
11	500329	WASHER	1	Purolator
12	112146	GASKET	1	all
15	13H998	O' RING, sealing, oil filter	1	
16	GFE104	OIL FILTER	1	all

This item comes complete with BOTH types of O' ring (item 15).
BE SURE TO PUT THE CORRECT O' RING IN YOUR FILTER HEAD.

See also Performance & Tuning in the Accessories section for Spin-on Oil Filter.

17	500439	GUIDE PLATE, oil filter	1	Purolator
	17H942	GUIDE PLATE, oil filter	1	Tecalamit
18	500319	SPRING, on main bolt	1	Purolator
19	500321	WASHER, rubber	1	Purolator
	37H1173	WASHER, rubber	1	Tecalamit

The following items are the same whichever filter head is fitted.

20	200646	OIL PIPE	1	filter head to bulkhead, inc. banjo
	200646B	BANJO (fits on end of 200646)	1	
21	14B2685	NUT, domed	1	
22	114034	WASHER, copper (outer)	1	
23	114033	WASHER, copper (inner)	1	

When you have two copper washers in your oil stained hand and you know that you have one 114034 & one 114033, but can't tell the one from the other, there is a simple rule to follow. The inner (114033) has the larger hole in the middle to allow the passage of oil into the banjo on the oil pipe (item 20).

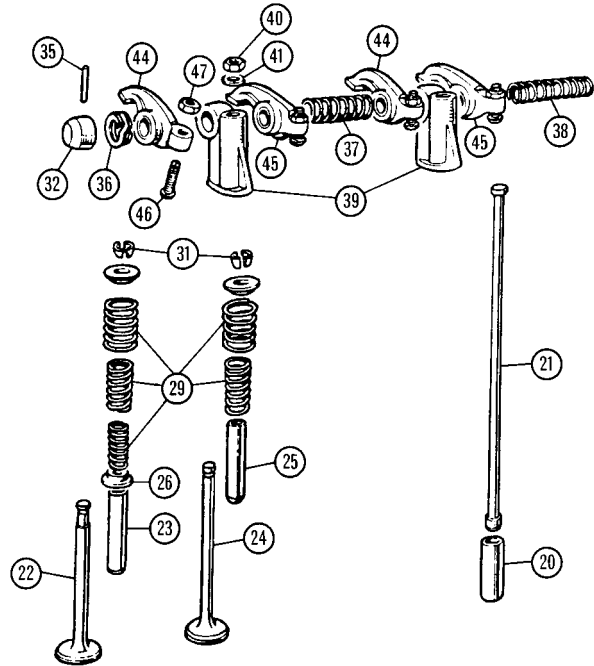
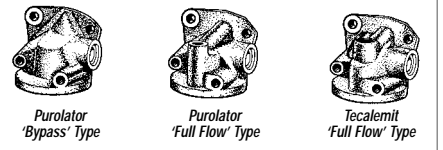
25	102238	HOSE, flexible, stainless steel	1	TR2/3/3A & early TR4
		This hose links oil pressure gauge pipe on engine to the pipe on the bulkhead.		
26	202973	PIPE (rigid) on bulkhead to gauge	1	TR2/3/3A & early TR4
28	138308	PIPE (nylon) replaces flexible pipe	1	TR4/4A

The nylon pipe replaces the flexible hose and rigid pipe in that it goes direct from the pipe (200646) to the oil pressure gauge. Listed as an 'alternative' to 202793 in the Triumph Parts Book, but standard on all TR4As.

Filter Heads

There are three different filter heads on the TR engine. As you may expect, most items are not available inside these assemblies, but some are, and many will only fit the type you have, that is to say,

for example the O' ring (item 15) for a Purolator filter head will not fit the one for a Tecalamit head. Getting them wrong is a messy and potentially expensive mistake. You can tell the three heads apart by these differences.

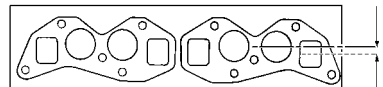


Cylinder Heads

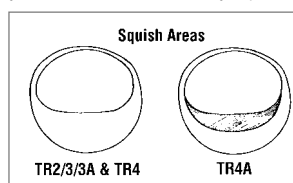
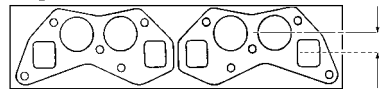
The TR2 cylinder head was developed from the Standard Vanguard head. The Vanguard head had circular inlet and exhaust ports and won't fit your TR. The 'low port' head was so called retrospectively to distinguish it from the later head introduced at TS13052, which was logically enough called the 'high port' head. The reference is to the distance between the centre lines of the exhaust and inlet ports. There are also two different types of 'low port' heads. Engine number TS9350 saw the introduction of the 'Le Mans' head. This was produced to match the increased size carburettors introduced at engine number TS8991.

The carburettor size was increased from 1 1/2" (H4) to 1 3/4" (H6) and the head was improved to give more power. To identify the type of cylinder head you have the illustrations here may help.

Low Port



High Port



The TR4 & TR4A heads had their part numbers stamped on the top next to the front inlet port.

The TR4 head is recognised by the part number 510084. The TR4A head was introduced at engine number CT21471. The TR4A head was generally acknowledged to be the best, and it has a part number of 511695 stamped on it, but an easier identification is the 'squish area' in the carburettor port. Both types of 'squish' areas are illustrated here.

Moss 'High Port' Cylinder Heads

See also Performance & Tuning in Accessories.

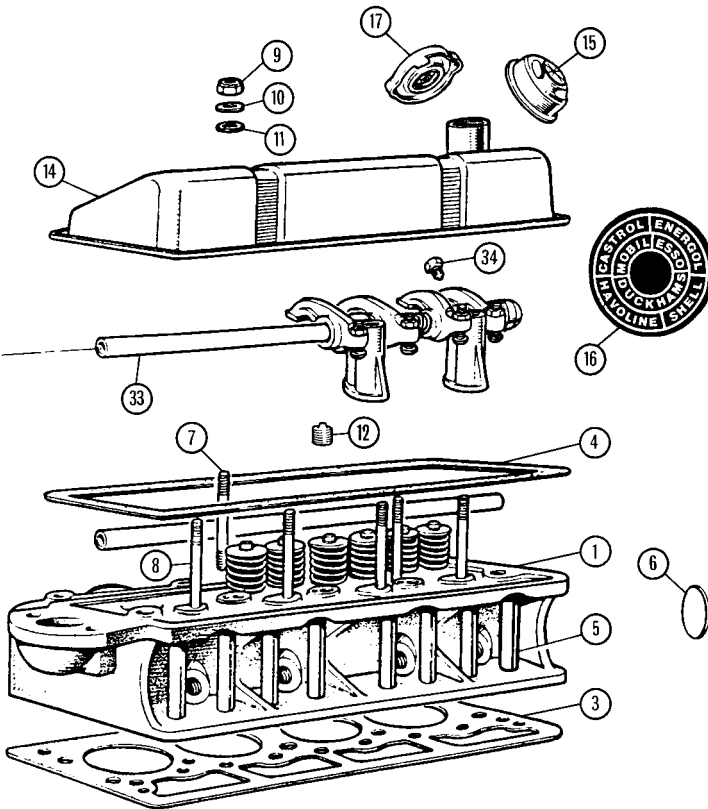
For detailed specifications please call your local Moss branch.

Working to original drawings, these Brand New cylinder heads are designed (as closely as possible) to resemble the original (late) TR4/4A units. We recommend that you use as much NEW hardware as possible during installation to ensure the heads are as a good fit as possible. If you are fitting a Cast head, ensure your cooling system has the correct anti-freeze mixture. If you are fitting a Alloy head, you MUST run with 100% Summer Coolant, which contains the correct inhibitors to prevent corrosion and electrolytic reaction.

TORQUE SETTINGS: Please call your local Moss branch for full specifications

All our heads are fully machined and, where valve seats are fitted they are Lead Free.

Alloy Heads have an 'A' in the part number suffix. (i.e. 511695AX)



Ill. No	Part Number	Description	Qty. Req.	Details
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Cylinder Heads (Standard/Performance)

The following heads do not have: valves, valve seats, springs or caps. Valve guide holes not drilled. Allows variation in valve size & position.

1	511695XX	CYLINDER HEAD, Cast iron	1	
	511695AXX	CYLINDER HEAD, Aluminium	1	

The following heads do not have: valves, valve seats, springs or caps. Valve guides supplied & fitted. Allows variation in valve size.

	511695X	CYLINDER HEAD, Cast iron	1	
	511695AX	CYLINDER HEAD, Aluminium	1	

The following heads do not have: valves, springs or caps.

Valve guides supplied & fitted, valve seats fitted for standard valves.

	511695	CYLINDER HEAD, Cast iron	1	
	511695A	CYLINDER HEAD, Aluminium	1	

The following heads are fully finished & assembled with standard valves.

	514748	CYLINDER HEAD, Cast iron	1	
	514748A	CYLINDER HEAD, Aluminium	1	

Performance (Stage Tuned) Cylinder Heads

Please refer to 'Performance & Tuning' in Accessories (pages 59 & 60) for full listings & details.

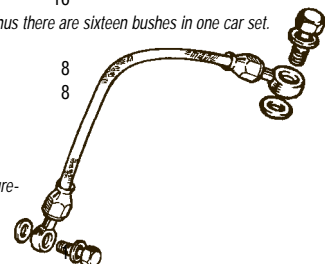
NI	CAM4545	NUT, cylinder head stud (improved)	10	use with New Moss Heads
NI	600569A	WELLSEAL, jointing compound	a/r	100gm
NI	501678	GASKET SET, cylinder head	1	TR2
NI	GEG178	GASKET SET, cylinder head	1	'High port' head models

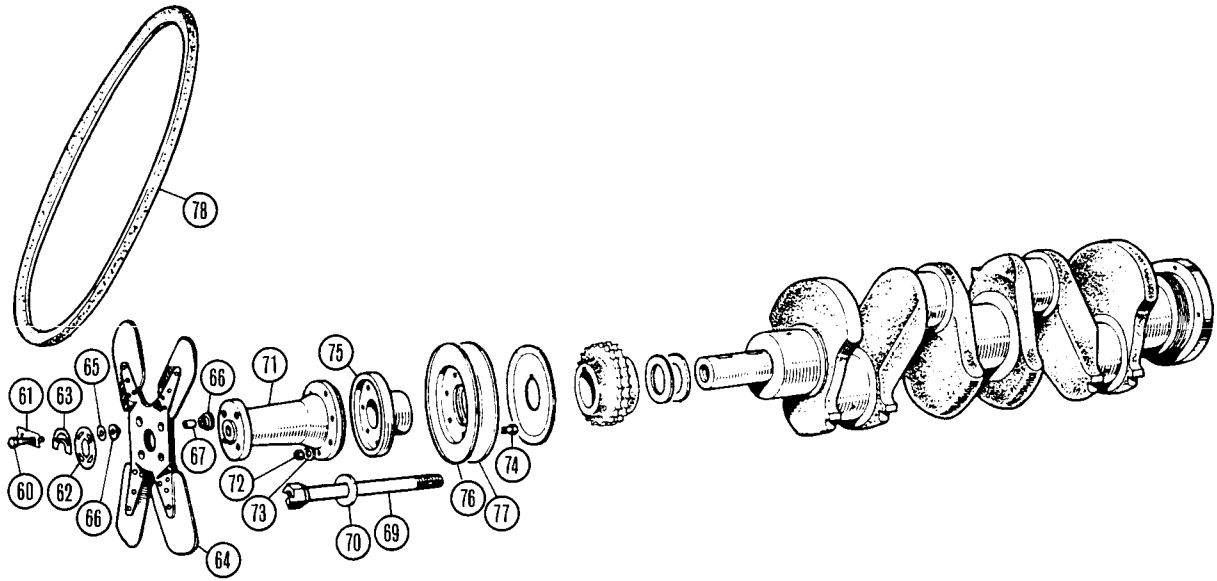
Gasket set GEG178 will replace head sets for most models. Owners of TR3's with 'low port' heads & H6 carburetors will have to buy 2 manifold gaskets (106937) in addition to the gasket set as the 'inlet/exhaust manifolds to head' gaskets provided in the set will not fit.

Contents of Gasket Set GEG178 are:-

3	205481	GASKET, cylinder head	1	
4	GEG437	GASKET, rocker cover	1	
NI	113122	GASKET, inlet/exhaust manifold	2	for high port heads
NI	GEG718	GASKET, Exhaust downpipe	1	TR2/3/3A, TR4
NI	GEG724	GASKET, Exhaust downpipe	1	TR4A
NI	115467	GASKET, thermostat	2	
NI	112867	GASKET, carburetors (1 3/4")	4	
NI	138586	GASKET, water pump to housing	1	
NI	125251	GASKET/SHIM, distributor pedestal	1	
5	100792	TUBE, push rod	8	
NI	DP512	DOWEL	1	manifold face of head
6	027378	CORE PLUG, dished	1	TR2/3/3A, TR4 to mid TR4A
	144648	CORE PLUG, cupped	1	mid TR4A onwards
NI	SH506041	SET SCREW	1	rear of head
NI	500464	WASHER, copper	1	
7	TE506241	STUD, rocker pedestal	4	
8	TE505341	STUD (original valve cover)	2	

Ill. No	Part Number	Description	Qty. Req.	Details
9	GHF222	NUT, nyloc, valve cover	2	
10	GHF301	WASHER (steel)	2	
11	WF508	WASHER (fibre)	2	
12	PS1603	CORE PLUG, top face of cylinder head	1	
NI	SH506041	SET SCREW	1	oil feed
NI	500464	WASHER, copper	1	
(14)	<i>Original Rocker Covers are not available. We have a selection of aluminium rocker covers available. See Accessories 'Performance & Tuning' (page 59) for details.</i>			
15	113569	CAP, oil filler (push-on)	1	TR2/3/3A, TR4
16	CRTR210	DECAL oil filler cap	1	open circuit breathing
	GZC1400	CAP, oil filler, chromed, (eared)	1	TR4A,
	138176	CAP, oil filler, zinc plated, (eared)	1	closed circuit breathing
	143393	CAP, oil filler	1	TR4A
<i>Oil filler caps GZC1400 & 138176 are alternatives.</i>				
20	057933	TAPPET	8	
21	106968	PUSHROD	8	
<i>Push rods supplied are the later 3/8" diameter type, which replace the early 5/16" ones that were rather weak and prone to bend, or even break, as one did on Pete Buckles while thumping up the M1 one Friday evening.</i>				
22	108806	VALVE, exhaust, 3/8" dia. stem	4	TR2/3/3A, TR4 to CT21470
	136567	VALVE, exhaust, 5/16" dia. stem	4	TR4 from CT21471, TR4A
23	108239	GUIDE, exhaust valve (for 108806)	4	TR2/3/3A, TR4 to CT21470
	058923	GUIDE, exhaust valve (for 136567)	4	TR4 from CT21471, TR4A
<i>Quite often the later valves (part no. 136567), which had 'tulip' shaped heads and were thus desirably superior, were fitted into the early heads. You can tell this when you order a 108239 valve guide and the valve you have 'waves' around in it. Don't panic. Also, don't order a 058923 valve guide, because it will wave around in the cylinder head. There is a 'conversion' guide to use in early heads to accommodate a 136567 valve - it's called 136575. Don't ask us how we are so familiar with this. Bitter experience.</i>				
<i>If your inlet & exhaust valves are the same stem diameter and you have an 'early' head you'll need 136575.</i>				
	136575	GUIDE 'CONVERSION', exh valve	4	17/32" O/D to 5/16" I/D
24	107626	VALVE, inlet	4	
25	058923	GUIDE, inlet valve	4	
26	108242	VALVE COLLAR	4	when triple exhaust valve springs fitted
28	105803	COLLAR, valve spring	8	triple exh & twin inlet spring type. TR2/3/3A, TR4
	142137	COLLAR, valve spring	8	twin exh & twin inlet spring type. TR4/4A
	TT1116	COLLAR, valve spring, alloy	8	twin exh & twin inlet spring type. TR4/4A
29	TT1007	VALVE SPRING SET (with triple exhaust & double inlet springs)	1	TR2/3/3A, TR4 to CT21470
	TT1107	VALVE SPRING SET (with double exhaust & double inlet springs)	1	TR4 from CT21471, TR4A
<i>Valve spring sets to standard specification are not available and, we consider they were a bit under-designed anyway, so we offer complete sets of uprated springs.</i>				
30	106663	COTTER, split, valve retaining	16	
31	060733	END CAP, rocker shaft	2	
	TT1017	SHAFT, rocker	1	
32	111064	SHAFT, rocker	1	
33	042880	SCREW, shaft retaining	1	
34	WK7607	WASHER, locking, cupped	1	TR2/3/3A, TR4 (if fitted)
35	500975	PIN, retainer	2	
36	044630	SPRING, end	2	
37	128075	SPRING, intermediate	2	
38	128074	SPRING, centre	1	
	TT1018	SPACER SET, rocker shaft		
39	112546	PEDESTAL, front & intermediate	3	cast iron
	112545	PEDESTAL, rear (drilled)	1	
NI	112545X	PEDESTAL SET (Aluminium)	1	Suitable for standard & performance engines
<i>Aluminium pedestals may be used in 'complete sets' as replacements for the very early cast iron pedestals.</i>				
NI	TT1910	SHIM, pedestal	6	
40	GHF202	NUT, pedestal	4	
41	WP9	WASHER, locking	4	
44	108012	ROCKER ARM, No.1, 3, 5, 7	4	
45	108014	ROCKER ARM, No.2, 4, 6, 8	4	
	044370	BUSH, rocker arm	16	
<i>There are two bushes (part no. 044370) in each rocker arm. Thus there are sixteen bushes in one car set. These bushes must be reamed to fit the rocker shaft.</i>				
46	109495	ADJUSTER, rocker arm	8	
47	51K1178	'JAM' NUT	8	
Rocker Feed Kit				
<i>This kit enables oil to be supplied direct to the rocker shaft, increasing lubrication and thus reliability of this otherwise failure-prone component. No modifications are required to the power unit in order to fit the kit.</i>				
TT1026	ROCKER OIL FEED KIT, external			





Ill. No	Part Number	Description	Qty. Req.	Details
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Radiator & Fittings

51	400311R	RADIATOR, (customers own unit) (with 'centred' inlet)	1	TR2 to TS1200 (Standard)
	400412	RADIATOR, New (exchange units also available) (offset inlet with crank hole)	1	
	400412WO	RADIATOR (offset inlet without crank hole)	1	TR2 from TS1201, TR3/3A (Standard)
	401869	RADIATOR (long neck, without crank hole)	1	TR4 (Standard)
	402001R	RADIATOR, exchange (no neck, without crank hole)	1	TR4 from CT9552 (option) (Standard)
	134456R	RADIATOR, exchange (long neck, with crank hole)	1	TR4 from CT9552 (option) (Standard)
52	GRH1005M	HOSE, overflow, (cut to 30")	1	TR2/3/3A. TR4
53	GRC103	CAP, radiator, (4lb, 1" depth)	1	TR2/3/3A. TR4
	GRC102	CAP, radiator, (7lb, 1" depth)	1	TR4 (with filler neck)
	GRC112	CAP, radiator, (7lb, 3/4" depth)	1	TR4 (without filler neck)
54	111164	ROD, radiator support	2	TR2/3/3A.
	131585	ROD, radiator support	2	TR4
55	WP17	WASHER, plain	4	TR4 from CT1016
56	GEX7329	GROMMET	2	
57	GEX7330	WASHER, rubber	2	
58	NT605041	NUT	4	
59	GHF201	NUT (plain), stay to radiator	2	
60	GHF332	WASHER, locking	2	
61	SH605061	SCREW, hexagon headed	2	
62	061864	TAP, radiator drain	1	
63	SH606101	BOLT, radiator mounting	2	
Radiator mounting screws on TR2/3/3A go from under the frame upwards to the radiator. The system illustrated is TR4.				
64	GHF333	WASHER, locking	2	
65	GHF316	WASHER, plain	2	
66	601994	PACKING, radiator mounting	a/r	(see note: item 84)
67	803440/8	DUCT SET, radiator	1	TR3A
68	GHF423	SET SCREW	4	
69	WP4	WASHER, plain	4	
70	307309R	RADIATOR, exchange	1	TR4A (Standard)
71	GRC112	CAP, radiator (7lb, 3/4" depth)	1	TR4A radiators without filler neck
72	137742	HOSE, overflow	1	
74	137743	CAP, overflow bottle	1	
75	12H1060	GROMMET	1	
76	137632	BOTTLE, overflow	1	
77	142804	BRACKET, overflow bottle, original	1	TR4A
	713544	BRACKET, overflow bottle, repro'	1	
78	PT507	SET SCREW, bottle bracket	1	
79	WL700101	WASHER, locking	1	
80	HN2005	NUT, plain	1	

Ill. No	Part Number	Description	Qty. Req.	Details
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81	132565	TAP, radiator drain	1	
82	SH606101	SCREW, radiator mounting	2	
83	GHF333	WASHER, locking	2	
84	601994	PACKING, radiator mounting	a/r	
These packing pieces are used to adjust the height of the radiator to line-up exactly the top outlet with the outlet on the thermostat housing.				
86	142665	BRACKET, radiator support	2	
87	2K9679	WASHER, rubber	2	
88	GEX7330	WASHER, rubber	2	
89	GEX7329	BUSH	2	
90	BH605101	BOLT, bracket to radiator	2	
91	GHF201	NUT, plain, bracket to radiator	4	
92	GHF332	WASHER, locking	4	
93	WP17	WASHER, plain	2	
96	850435	DUCT, radiator	1	
97	AB610043	SET SCREW, 1/2"	4	TR4/4A
98	AB610063	SET SCREW, 3/4"	3	
99	FU2549	NUT, fixing	7	
100	PWZ203	WASHER, plain	7	

Aluminium Radiators (TR2-TR4A)

(See also page 41 in 'Performance & Tuning'.
These well engineered aluminium radiators can give you a weight saving of approx 50%.
They have a high density core with polished end tanks and standard fixing brackets.

NI	400412AL	RADIATOR, Aluminium (with neck)	1	TR2, TR3, TR4
NI	402001AL	RADIATOR, Aluminium (without neck)	1	TR4
NI	307309AL	RADIATOR, Aluminium	1	TR4A

Preserve Your Cooling System

Here we have listed items that we all know about, but sometimes forget!

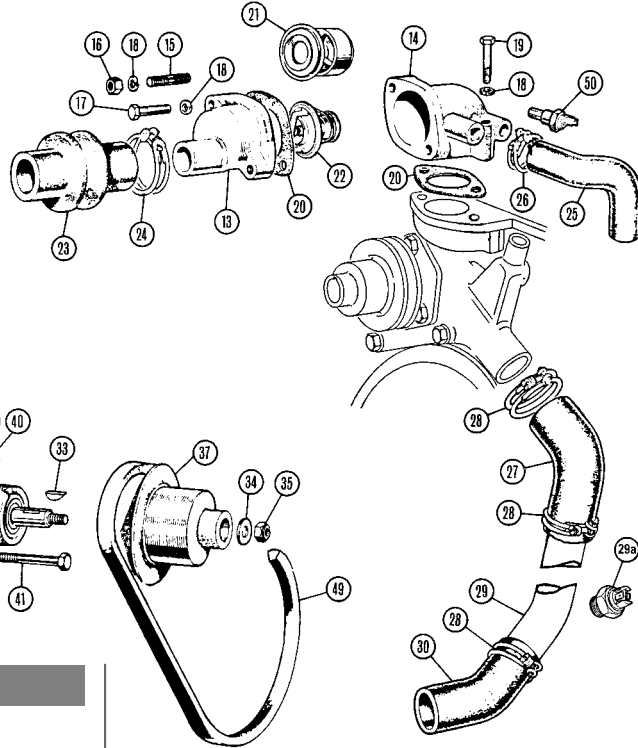
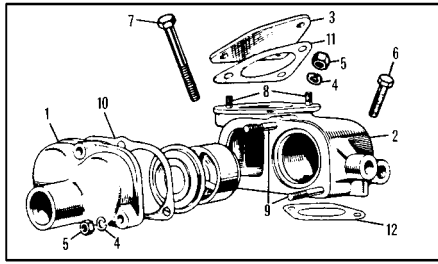
Today's anti freeze are of a high quality chemical mix and no longer deteriorate within 6 months and ruin the cooling system of the engine. However, anti freeze should always be used as recommended by the manufacturer and any instructions given should be adhered to.

The hidden benefit of using anti freeze throughout the year is that not only does it protect the cooling system from freezing in cold weather, as the name suggests, but it also increases the boiling point of the water; this is ideal for the hotter conditions of summer driving. Most high grade anti freeze solutions also contain an inhibitor that will reduce or eliminate cooling system corrosion.

That will stop, for example, thermostat housings and other alloy components from disintegrating.

NI	GEC2001	ANTI-FREEZE (1 Litre)	a/r	
NI	GEC1002	ANTI-FREEZE (2 Litre)	a/r	
NI	GEC2005	ANTI-FREEZE (5 Litre)	a/r	
NI	GGL9041X	CORROSION INHIBITOR (Penrite)	a/r	
NI	GAC6073	'BARS' SEAL (Pellet)	a/r	
NI	MRD1031	'BARS' LEAK (135ml)	a/r	
NI	MRD1032	'BARS' FLUSH (100gm)	a/r	
NI	MM220-115	WATER WETTER (Redline)	a/r	See page 72 for full details

See also page 94 for our Narrow Fan Belt Conversion & page 40 for our Alternator Conversion kit.



III. No	Part Number	Description	Qty. Req.	Details
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Thermostat & Fittings; TR2 to TS1200

Early TR2's to TS1200 have a unique (Double chamber) thermostat housing that is unique, it is shown above in the inset illustration (items 1 to 12).

1	105584	COVER, thermostat	1	
2	201522	HOUSING, thermostat	1	
3	108490	COVER PLATE, thermostat housing	1	
4	GHF332	WASHER, locking	a/r	
5	GHF201	NUT, plain	a/r	
6	BH505281	BOLT, housing & cover plate	1	
7	BH505161	BOLT, housing	1	
8	53K2171	STUD, cover plate	2	
9	106957	STUD, thermostat cover	2	
10	105593	GASKET, cover to housing	1	
11	105592	GASKET, top cover	1	
12	115467	GASKET, housing to cyl head	1	

Thermostat & Fittings; TR2 from TS1201, TR3/3A, TR4/4A

13	124744	COVER, thermostat	1	
14	203781	HOUSING, thermostat	1	
15	106957	STUD, thermostat cover	2	alternative to 17
16	GHF201	NUT, plain	2	
17	BH605111	BOLT, thermostat cover	2	alternative to 15 & 16
18	GHF332	WASHER, locking	a/r	
19	BH505161	BOLT (2") thermostat housing	1/2	
	BH505221	BOLT (2 3/4") thermostat housing	2	
20	115467	GASKET, thermostat housing	2	
21	107590WW	THERMOSTAT (bellows type)	1	winter
	107590SSS	THERMOSTAT (bellows type)	1	summer
22	GTS102	THERMOSTAT, wax type, (160°F, 74°C)	1	hot climate
	GTS104	THERMOSTAT, wax type, (180°F, 82°C)	1	standard
	GTS106	THERMOSTAT, wax type, (195°F, 88°C)	1	cold climate

All Models

23	GRH453	HOSE, radiator top (standard)	1	
	GRH453X	HOSE, radiator top (Silicone)	1	
24	CS4029	CLIP (top hose)	2	wire type
	GHC1217	CLIP (top hose)	2	jubilee type
25	105598	HOSE, bypass (standard)	1	
	105598X	HOSE, bypass (Silicone)	1	
26	CS4020	CLIP (bypass hose)	2	wire type
	GHC913	CLIP (bypass hose)	2	jubilee type
27	GRH389	HOSE, intermediate (standard)	1	
	GRH389X	HOSE, intermediate (Silicone)	1	
28	CS4029	CLIP, intermediate & bottom hoses	4	wire type
	GHC1217	CLIP, intermediate & bottom hoses	4	jubilee type
29	130039	PIPE, water return (mild steel)	1	
	130039SS	PIPE, water return (stainless steel)	1	
	130039SSST	PIPE, water return (stainless steel)	1	with adaptor for Kenlowe electric fan thermo' switch
29a	IM50250	*THERMO' SWITCH (86°C on - 76°C off)	1	
	IM50090	*THERMO' SWITCH (86°C on - 81°C off)	1	electric fan control

III. No	Part Number	Description	Qty. Req.	Details
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IM50100 *THERMO' SWITCH (82°C on - 68°C off) 1 electric fan control
 IM50120 *THERMO' SWITCH (88°C on - 79°C off) 1 (Continued)
 *Choice of Thermostatic switch should be matched to your thermostat. Do not be tempted to use one which cuts in at too late a temperature. Remember there is approx. 7°C temperature drop through the radiator.

30	GRH389	HOSE, bottom (standard)	1	TR2/3/3A
	GRH389X	HOSE, bottom (Silicone)	1	
	130038	HOSE, bottom (standard)	1	TR4/4A
	GRH389X	HOSE, bottom (Silicone)	1	
31	501488	WATER PUMP, Standard* (with pulley)	1	
	QHQP170	WATER PUMP, Standard* (Less pulley)	1	uses removable pulley (item 37)
	501488X	WATER PUMP, Up-rated** (with pulley)	1	
	QHQP170X	WATER PUMP, Up-rated** (Less pulley)	1	

*Note: Two types of water pump were supplied. The original with a removable pulley and a Unipart replacement item with a 'pressed-on NON-removable' pulley.

**Our Up-rated Water Pumps should appeal to owners of early TR's with an up-rated engine or cars where the cooling capacity seems marginal or inadequate. The up-rated pump is fitted with a six bladed curved impellor, which roughly doubles the coolant flow.

NI	060313	SEAL, gland, inner	1	
NI	100858	SEAL, gland, outer	1	
NI	100858X	*SEAL, gland, outer	1	

*This type of seal has been fitted to all Moss TR2-4 water pumps sold since the year 2000, and should only be used for these purposes as it will not fit the early type water pumps.

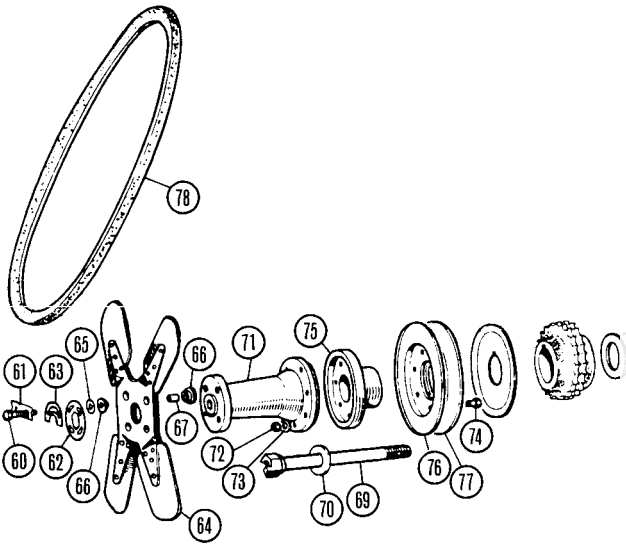
32	138587	GASKET, pump to housing	1	
33	WKN405	KEY, pulley to shaft	1	
34	WP181	WASHER	1	pumps with removable pulley
35	GHF242	NUT, self-locking (5/16")	1	
	GHF232	NUT, nyloc (M8 metric)	1	may be used by replacement pumps

36	125361	GREASE NIPPLE	1	
37	105537*	PULLEY, water pump (standard)	1	original type pumps/wide belt
	105537A	PULLEY, water pump (Lightweight Alloy)	1	for narrow belt GCB107950

*Note: Two types of water pump were supplied. The original with a removable pulley and a Unipart replacement item with a 'pressed-on NON-removable' pulley.

38	056243	STUD, water pump to housing	2	
39	GHF333	WASHER, locking	3	
40	GHF202	NUT	2/3	(replacement pumps use 3)
41	BH506241	BOLT, water pump to housing	1	removable pulley type
	TE506241	STUD, to replace bolt	1	pressed-on pulley type
44	057014	HOUSING, water pump (standard)	1	Cast
	057014A	HOUSING, water pump (Lightweight)	1	Aluminium
45	138586	GASKET, housing to block	1	
46	GHF333	WASHER, locking	2	
47	BH506181	BOLT, housing to block	2	
49	GFB40975	FAN BELT (original wide belt)	1	
	GCB10975	FAN BELT (narrow belt)	1	
50	GTR104	TEMPERATURE TRANSMITTER	1	TR4/4A

See also pages 40/41 for 'Narrow Belt' and 'Alternator' Conversion kits



iii. No	Part Number	Description	Qty. Req.	Details
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Fan Blades, Hub/Extension & Fittings

See also 'Performance & Tuning' in Accessories.

60	BH605111	BOLT, fan attachment	4	
61	107857	TAB WASHER	2	
62	108497	LOCK PLATE, crank bolt	1	
63	107858	BALANCE PIECE	1	
64	202025	FAN, 4-bladed	1	TR2/3/3A
	209792	FAN, 4-bladed	1	TR4/4A
	211986	FAN, 6-bladed	1	some TR4

The 6-bladed fan (part no. 211986) for TR4A's is no longer available, but can be replaced by the 4-blade type (part no. 209792) without any problems. All mounting bolts and hardware are the same. We have re-tooled both 209792 and 202025 and they are identical to the originals.

65	GHF301	WASHER	4	
66	108496	BUSH, rubber, fan mounting	8	
67	108499	SLEEVE (steel)	4	
69	108498*	BOLT	1	TR2/3B
	128319*	BOLT	1	TR4/4A

*Fan extension & pulley hub to crankshaft. Bolt (part no. 128319) has a starting handle slot in the head. It was not fitted to TR4A's, but as the bolt that was fitted (part no. 142185) is no longer available, we recommend using 128319.

70	108494	SHIM	a/r	
71	108493	EXTENSION, fan hub	1	TR2/3B
	128318	EXTENSION, fan hub	1	TR4/4A
72	GHF271	NUT, nyloc, pulley to hub	6	
73	WP127	WASHER (fits under nut)	6	
74	HBZ411	BOLT, pulley to hub	6	
75	107250	HUB, pulley (Standard)	1	for original wide fan belt
	107250A	HUB, pulley (Lightweight Alloy)	1	for narrow belt GCB107950
76	107252	PULLEY, front half, dished	1	
77	110023	PULLEY, rear half, flat	1	
78	GFB40975	FAN BELT (original wide belt)	1	
	GCB10975	FAN BELT (narrow belt)	1	

Narrow Fan Belt Conversion (Damped)

See also ELECTRICAL for 'Alternator Conversion' (on page 154) using this narrow belt conversion. There will be many who will wish to seize the opportunity to fit a 'narrow belt' conversion at this time, and ensure the life of that precious crankshaft, with the harmonic damper included in this kit. Every modern car is fitted with a damper, so this must be key to engine harmonic stress elimination within older engines. This kit includes Harmonic Damper (crank), Spacer, Bolt, washer, (alternator) Pulley (water pump) Pulley (Alloy) & Fan Belt.

NI	TT1132	NARROW BELT CONVERSION	1	Damped Alloy Pulley
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The damped pulley conversion (TT1132) requires the use of an electric fan and removal of the fan & fan hub extension - which is obviously the best way to go. For those who are determined to retain the original (rather agricultural) fan arrangement, we can supply the correct crankshaft pulley (107252A) which does allow this if used in conjunction with the water pump pulley (105537A) and the alternator pulley required for your application.

NI	107252A	CRANKSHAFT PULLEY (Alloy)	1	
NI	105537A	WATER PUMP PULLEY (Alloy)	1	

See also 'Narrow Fan Belt Kit (Un-Damped)'

iii. No	Part Number	Description	Qty. Req.	Details
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Narrow Fan Belt Conversion cont...

Lastly (unless you are retaining your old wide belt pulley), you now need to choose the pulley to enable a perfect match of alternator performance to your TR's use. Only one of the 4 listed is essential, though you might wish to select more, for instance if the car is used for occasional competition use. All these are for narrow belts. If you are retaining the wide belt, ignore this list. As the wide belt stretches, it may be necessary to re-install the 'old' adjustment link to obtain sufficient adjustment.

NI	AEU1238	PULLEY (2.5" diameter)		
		(For normal road work. Use with fan belt GCB10965)		
NI	12G1054	PULLEY (2.75" diameter)		
		(For fast road work. Use with fan belt GCB10975)		
NI	CAEA535	PULLEY (4.5" alloy)		
		(For competition use only. Use with fan belt GCB11000)		
NI	102266A	PULLEY (4.5" alloy)		
		(Reverse flow. Competition use only without fan. Use with fan belt GCB11000)		

Note: If TT1132 conversion is to be fitted, this kit includes the correct pulley & fan belt, and this arrangement works well for just about any type of use. Fitting instructions are included covering all vehicles currently fitted with an original starter motor and solenoid.

Pre-engaged & Geared starters may require a different arrangement as the solenoid may have been removed. All TR's fitted with an alternator Must be converted to negative earth. The coil leads will also need swapping over. This may affect some car radios.

Narrow Fan Belt Kit (Un-Damped) (TR2/4)

This Narrow Fan Belt kit allows the original fan & fan hub extension to be retained. This kit must not be used for competition purposes.

NI	TT1132A	NARROW BELT KIT (Un-damped)	1	with Un-damped alloy crankshaft pulley
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The following parts are available separately:

NI	107252A	PULLEY, Crankshaft (Alloy)	1	(Un-damped)
NI	105537A	PULLEY, Water Pump (Alloy)	1	
NI	GCB10975	FAN BELT	1	

Hose Clips (Original wire style)

These wire clamps were original equipment on Triumphs.

Cadmium plated for long-lasting beauty & durability, they're necessary for correct restoration.

Just measure the outside of your hoses to determine which ones you need.

CS4011	HOSE CLIP, (3/4" to 7/8")	a/r
CS4020	HOSE CLIP, (1 3/16" to 1 3/8")	a/r
CS4025	HOSE CLIP, (1 3/8" to 1 9/16")	a/r
CS4026	HOSE CLIP, (1 7/16" to 1 5/8")	a/r
CS4029	HOSE CLIP, (1 11/16" to 1 7/8")	a/r
CS4038	HOSE CLIP, (2 1/4" to 2 7/16")	a/r
CS4042	HOSE CLIP, (2 13/32" to 1 5/8")	a/r



Kenlowe Electric Fan

Electric cooling fans definitely improve engine efficiency when used in place of standard fixed fans, though the difference would have to be measured over a long period. Firstly the engine warm-up time is reduced and then engine temperature can be maintained at its optimum more accurately. Removal of the fixed fan produces the second advantage: a quieter running engine. The third reason for fitting an electric fan is a combination of the first two which will reduce fuel consumption and free off approx. 2 or 3 BHP.

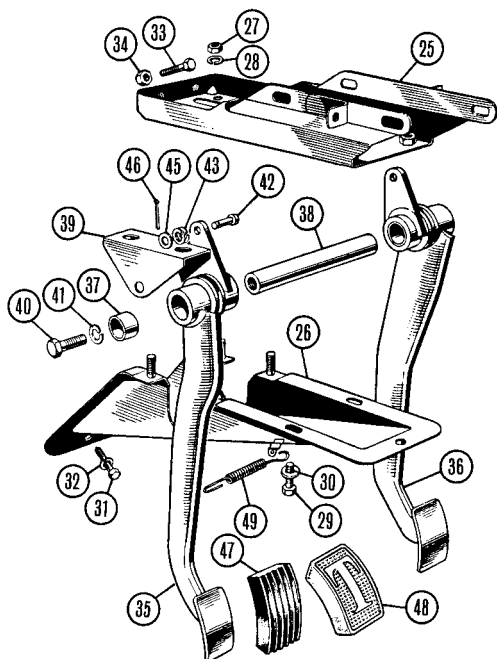
The Kenlowe is the best known of the electric fan kits.

NI	TT29402	COOLING FAN KIT, 'Kenlowe', 10"	1	TR2/TR3/3A
NI	TT29422	COOLING FAN KIT, 'Kenlowe', 12"	1	TR4/TR4A
NI	TT2952	*THERMO SWITCH KIT	1	included with kit
NI	TT2948	*MANUAL OVER-RIDE SWITCH KIT	1	
NI	TT2947	HOSE SEAL (for thermostatic switch)	a/r	(Seal tends to degrade if used more than twice)

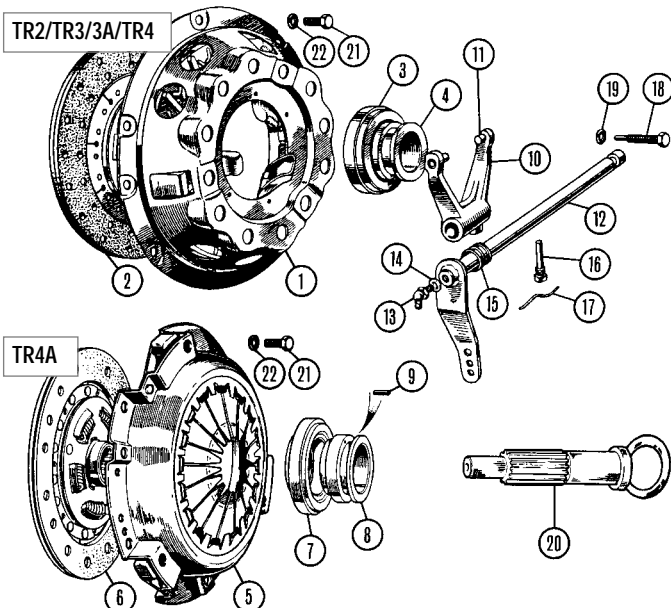
*See also page 93 for improved Thermostatic switches & Stainless Steel water return pipes (item no 29)

Consumables

NI	GEM317	GASKET REMOVER (400ml)	a/r	
		Gasket remover is a spray-on solvent foam which will soften most jointing compounds without the need to resort to scraping, simply wipe off the results. This removes the likelihood of scratching surfaces which really need to be as flat and scratch free as possible to ensure perfect sealing.		
		More than one application may be needed for heavy residue.		
NI	GAC110	WD-40 (200ml)	a/r	
	GAC111	WD-40 (400ml)	a/r	
NI	GT85	PENETRATING OIL (400ml)	a/r	
NI	600569A	'WELLSEAL' compound (100ml)	a/r	
NI	GAC100	'LOCTITE' (10ml)	a/r	
NI	GAC100/3	'LOCTITE' (3ml)	a/r	
NI	153317	GREASE, anti-seize (10fl oz)	a/r	
NI	LKLPK104	GREASE, anti-seize (25ml)	a/r	
NI	GGL9041X	CORROSION INHIBITOR, 'Penrite'	a/r	



Ill. No	Part Number	Description	Qty. Req.	Details
Clutch/Brake Pedals & Master Cylinder Mountings				
25	106668	BRACKET ASSEMBLY	1	TR2, TR3 to TS13045
	203239	BRACKET ASSEMBLY	1	TR3 from TS13046, TR3A
	138910	BRACKET ASSEMBLY	1	TR4/4A
26	106670	COVER ASSEMBLY, pedal shaft	1	
27	GHF201	NUT, bracket & cover to bulkhead	4	
28	GHF332	WASHER, locking	4	
29	SH605061	SCREW	2	cover & m/cyl to bulkhead
30	GHF332	WASHER, locking	2	
31	SH605051	SCREW, cover to bulkhead	2	
32	GHF332	WASHER, locking	2	
33	HU709	SCREW, pedal stop	2	
34	JN2107	NUT, jam	2	
35	106672	PEDAL, clutch, RHD	1	TR2, TR3 to TS13045
	113363	PEDAL, clutch, RHD	1	TR3 from TS13046, TR3A
	133810	PEDAL, clutch, RHD	1	TR4/4A
	106766	PEDAL, clutch, LHD	1	TR2, TR3 to TS13045
	113363	PEDAL, clutch, LHD	1	TR3 from TS13046, TR3A
	129275	PEDAL, clutch, LHD	1	TR4/4A
36	106673	PEDAL, brake, RHD	1	TR2, TR3 to TS13045
	113366	PEDAL, brake, RHD	1	TR3 from TS13046, TR3A
	133808	PEDAL, brake, RHD	1	TR4/4A
	106767	PEDAL, brake, LHD	1	TR2, TR3 to TS13045
	113364	PEDAL, brake, LHD	1	TR3 from TS13046, TR3A
	129277	PEDAL, brake, LHD	1	TR4/4A
37	100954	BUSH, pedal pivot	4	
38	110016	SHAFT, pedal	1	TR2, TR3 to TS13045
39	106678	BRACKET, pedal shaft	2	TR2, TR3 to TS13045
40	SH606051	SCREW, bracket to shaft	2	TR3 from TS13046, TR3A
41	GHF333	WASHER, locking	2	TR4/4A
42	PJ8812	CLEVIS PIN	2	TR2, TR3 to TS13045
	216421A	SCREWED PIN	2	TR3 from TS13046, TR3A
	PJ8812	CLEVIS PIN	2	TR4/4A
43	AJD7731	WASHER, double coil	2	TR2, TR3 to TS13045
	131787	SPRING, anti-rattle	2	TR4/4A
45	GHF301	WASHER, plain	2	TR2, TR3 to TS13045, TR4/4A
46	PS103121	SPLIT PIN	2	TR2, TR3 to TS13045
	GHF502	SPLIT PIN	2	TR3 from TS13046, TR3A
	GHF503	SPLIT PIN	2	TR4/4A
47	105159	PEDAL RUBBER, ribbed	2	TR2, TR3 to TS13045
48	122289	PEDAL RUBBER, Triumph logo	2	TR3 from TS13046, TR3A
				TR4/4A
49	057950	SPRING, pedal return	2	



Ill. No	Part Number	Description	Qty. Req.	Details
Clutch Drive Components				
<i>See also Accessories.</i>				
1	GCC127	COVER, clutch	1	TR2/3/3A, TR4
2	116638	PLATE, clutch	1	
3	501608	BEARING, clutch release	1	
4	100159	SLEEVE, release bearing carrier	1	
5	GCC228*	COVER (Borg & Beck), clutch	1	
6	GCC139*	COVER (Laycock), clutch	1	
7	GCP143*	PLATE, clutch	1	TR4A
8	GRB211	BEARING, clutch release	1	
	GCK6004X	CLUTCH KIT (B&B cover, plate & bearing) Save Money & buy the kit.	1	
8	147858	SLEEVE, release bearing carrier	1	
9	DS811	ROLL PIN, release fork to carrier	1	
*Note: TR4A's were originally fitted with either a Laycock or Borg & Beck clutch. Both types are interchangeable as sets. When replacing a Laycock with a Borg & Beck type it is essential to fit the clutch cover securing bolts SH505061 (item 21), as the bolts used on the Laycock type were shorter. All clutch items supplied are new and are not rebuilt.				
NI	MM387-220	TOOL, clutch alignment (standard gears)	1	10 x 1.25" splines
NI	GAC5064X	TOOL, clutch alignment (close ratio gears)	1	23 x 1" splines
10	106022	FORK, clutch	1	includes pins 100164
11	100164	PIN, clutch fork	2	
12	108887	SHAFT, clutch operating	1	grease-able bearings
	136354	SHAFT, clutch operating	1	non-grease-able bearings
13	LN30041	GREASE NIPPLE	2	grease-able clutch shaft
14	WF507	WASHER, fibre	2	
15	105752	SPRING, clutch shaft	1	
16	158777HD	PIN, fork to clutch shaft	1	
17	EAW4321	SOFT WIRE, for locking pin	1	
The release fork pin (item 16) often cracks or breaks. When doing any clutch work, this pin should be replaced. The high tensile replacement pin will help ensure against premature failure and loss of clutch operation. As a matter of course we will only supply the 158777HD type.				
18	BH505161	BOLT, shouldered, shaft to casing	a/r	cut to length after fitting
19	GHF332	WASHER, locking	a/r	
20	MM387-220	TOOL, clutch alignment	1	
21	SH505061	SCREW, pressure plate to flywheel	6	
22	GHF332	WASHER, locking	6	

Clutch Replacement

Insert your clutch alignment tool (part no MM387-220) through your new clutch plate, push the tool into the spigot bush into the crankshaft, then press the plate up flat against the flywheel. Locate the new clutch cover on the dowel pins and install the six bolts just a couple of turns each. Now, by exerting appropriate sideways pressure on the handle of the alignment tool, position the plate so that you can slip the tool in and out of the spigot bush with minimal drag on the splines. There is one spot, with the plate perfectly centred, where virtually no resistance will be felt. Once the plate is in that position, tighten the bolts one turn each at a time until they are all fully secure and correctly torqued to 20 foot lbs.

The tool should still slip in and out very easily. If it doesn't, repeat the procedure until it does. If the tool meets no resistance, the gearbox input shaft will go in equally easily.

Before installing the new clutch release bearing to its carrier, ensure that the surface of the front cover extension is clean and has been lightly polished with a fine abrasive.

The inside surface of the release bearing carrier must also be clean and smooth. Wire brush the splines on the gearbox input shaft, then give a light coat of special grease (part no. 153317) to the splines, the spigot, and the front cover extension. When re-assembling the gearbox to the engine, be sure to get the bell-housing parallel to the rear engine plate once the input shaft splines enter the clutch disc; it will then slide all the way home without the need for brute force.

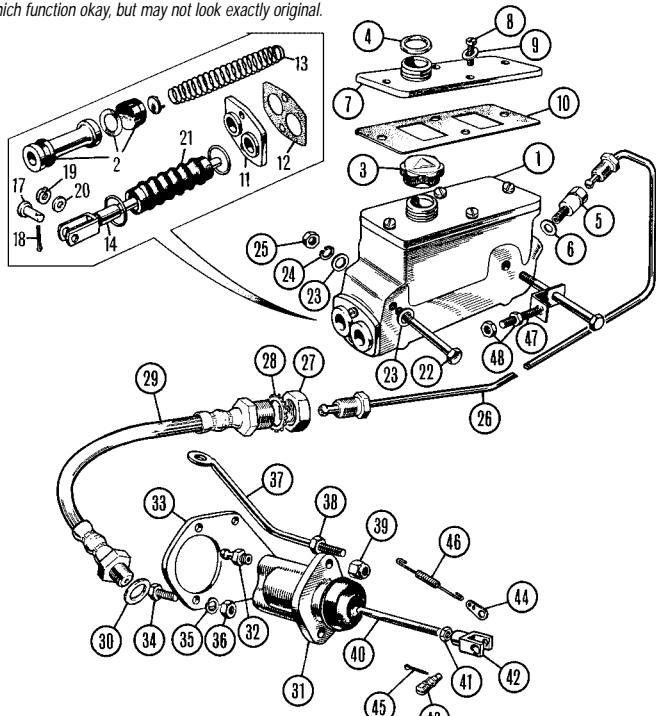
Ill. No	Part Number	Description	Qty. Req.	Details
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Clutch Hydraulics Explained

When Triumph introduced the Girling disc brake system in 1957 the TR3 became the first mass produced car in the world to be fitted with disc brakes as standard. At the same time they converted the entire hydraulic system to Girling including the clutch. All TR's from 1957 were equipped with Girling hydraulics up to the TR6 which had the complete Girling system, except for the utilisation of a Lockheed slave cylinder.

The early Lockheed hydraulics were fitted up to chassis number TS13045. Even the most basic components are quite difficult to get for this Lockheed system. We believe Lockheed could do a better job for us in servicing the system, but they are a large company and don't seem to care about owners of older cars.

Ever resourceful however, we have managed to 'cobble together' some items from the existing Lockheed range which function okay, but may not look exactly original.



Lockheed Clutch Hydraulics - TR2, TR3 to TS13045

1	LK36944	MASTER CYL, clutch & brake	1	
	LK36944X	MASTER CYL, replacement kit	1	
2	8G8224	REPAIR KIT, less bellows	1	services both types of cylinder

The original cylinder (part no. LK36944) is no longer available. The cylinder we supply (part no. LK36944X) is the closest to the real thing, including the fact that it is ungodly in price. The clutch pipe outlet has a different thread and requires an adaptor. Originality freaks will be pleased that you can't really see this when fitted.

Our replacement is called a kit because it comes complete with a brake pipe which has a UNF thread at one end (for attachment to the replacement master cylinder), and a BSF thread at the other end to mate with the four-way brake banjo adaptor. This kit also includes the clutch pipe adaptor.

3	513123A	FILLER CAP, plastic	1	(replaces metal cap)
4	501524	SEAL, filler cap	1	(for original metal cap)
5		ADAPTOR, original master cyl	1	
	21K8564	ADAPTOR, replacement master cyl	1	
6	233220A	WASHER	1	
Locates between master cylinder and adaptor				
7	501189	COVER (original cylinder)	1	
8	AAA4758	SCREW, cover to body	a/r	
9	GHF321	WASHER, star	a/r	
10	501190	GASKET, cover (original cylinder)	1	
11	501193	PLATE, front	1	
12	AAA4757	GASKET (for plate 501193)	1	
Must be replaced when rebuilding master cylinder				
13	AJH5083	SPRING	2	
14	501775	PUSH ROD	2	

The push rod assembly (part no. 501775) is no longer available. As an alternative use the recommended replacement for the Lockheed slave cylinder push rod (items 40 to 43).

17	PJ8812	PIN	2	
18	PS103121	SPLIT PIN	2	
19	AJD7731	WASHER, double coil spring	2	
20	GHF301	WASHER, plain	2	
21	501194	BELLOW, push rod	2	
22	BH605261	BOLT, master cylinder to support & adjustment bracket	2	
23	GHF302	WASHER, plain	4	
24	GHF333	WASHER, locking	2	
25	GHF202	NUT	2	

Ill. No	Part Number	Description	Qty. Req.	Details
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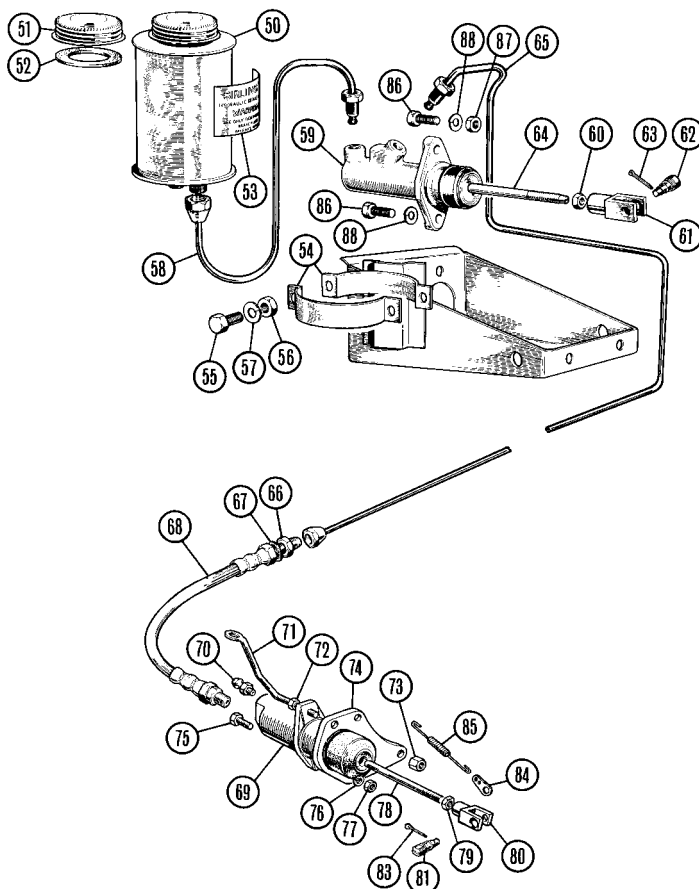
26	108217	PIPE, m/cyl to chassis bracket	1	RHD
	108218	PIPE, m/cyl to chassis bracket	1	LHD
27	2K8686	NUT, hose to chassis bracket	1	
28	WE600101	WASHER, 'star'	1	
29	GVP1001	HOSE, slave cylinder, flexible	1	
	TT3041	HOSE, slave cylinder, braided	1	stainless steel
30	GHF364	WASHER, copper	1	
31		SLAVE CYLINDER	1	
		REPAIR KIT, slave cylinder	1	

In the event of non availability of the slave cylinder or repair kit* for the Lockheed system, the solution preferred by most customers is to buy a TR6 (Lockheed) slave cylinder, no. UKC8677. This will need to be fitted to the other (or axle) side of the slave bracket. It will also mean lengthening the push rod. To join the flexible hose to the cylinders will also require adaptor, no. 109746ADP. The repair kit for the TR6 slave cylinder is, no. GRK4007. *We can offer cup seal only, no. 7H7053.

32	501207	BLEED NIPPLE, slave cylinder	1	
33	106701	BRACKET, slave cylinder	1	
34	SH605091	BOLT, slave cylinder to bracket	1	
35	GHF332	WASHER, locking	1	
36	GHF201	NUT	1	
37	128043	STAY	1	
38	GHF201	NUT, plain, stay	1	
39	GHF222	NUT, nyloc, stay	1	
40	504852	PUSH ROD*	1	

*We suggest that if you need to replace your push rod on the Lockheed clutch slave cylinder, that you purchase the Girling equivalent (part no. 504852) and cut down the length to the size of your Lockheed push rod.

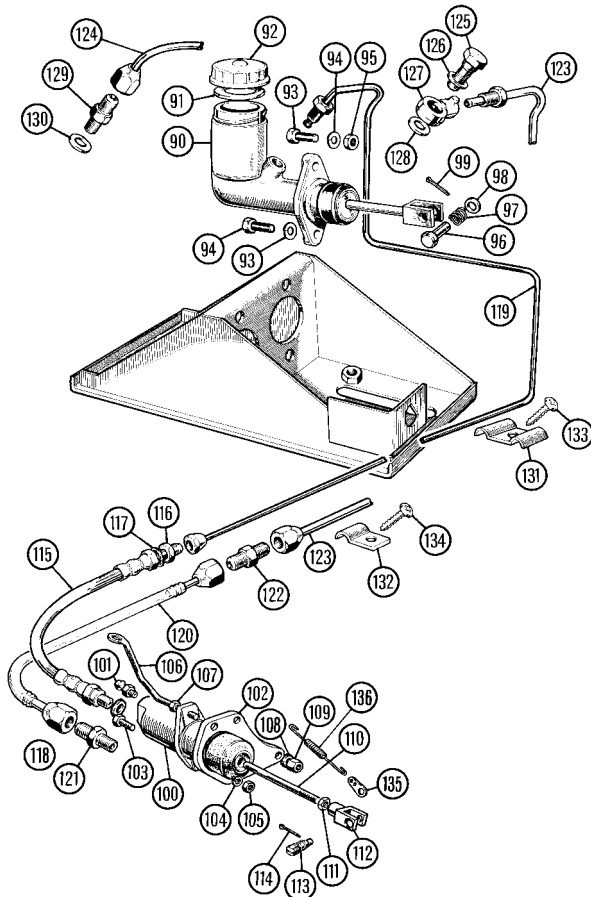
41	NT605041	NUT	1	
42	057194	FORK	1	
43	216421A	SCREW PIN, with spring	1	
44	106347	ANCHOR PLATE	1	
45	GHF502	SPLIT PIN	1	
46	027645	SPRING	1	
47	107691	BRACKET ASSEMBLY	2	cylinder adjustment
48	NT604041	JAM NUT	4	



Girling Clutch Hydraulics - TR3 from TS13046, TR3A

50	114530	SUPPLY TANK, twin m/cyl	1	
51	500201A	FILLER CAP	1	
52	106095	SEAL, filler cap	1	
53	CRST148	DECAL, 'GIRLING WARNING'	1	

Ill. No	Part Number	Description	Qty. Req.	Details
54	113368	CLIP, tank attachment	1	
55	GHF117	SCREW	2	
56	GHF200	NUT, plain	2	
57	GHF331	WASHER, spring	2	
58	505062	PIPE, tank to m/cyl	1	
59	GR64067854	CLUTCH MASTER CYL	1	
		(includes push rod but not fork)		
	GRK1027	REPAIR KIT, clutch m/cylinder	1	
60	NT605041	NUT, locking	1	
61	057194	FORK END	1	
62	216421A	SCREW PIN, with spring	1	
63	GHF502	SPLIT PIN	1	
64	507206	PUSHROD	1	
65	507200	PIPE, m/cyl to hose bracket	1	RHD
	507201	PIPE, m/cyl to hose bracket	1	LHD
66	NT606041	NUT, locking, hose to bracket	1	
67	GHF323	WASHER, shakeproof	1	
68	GBH415	HOSE, slave cylinder	1	
	TT3041A	HOSE, slave cylinder, braided	1	stainless steel
69	516788	SLAVE CYLINDER	1	includes bleed nipple
	505704	REPAIR KIT, slave cylinder	1	
70	556508A	BLEED NIPPLE	1	
71	128043	STAY, slave cylinder	1	
72	GHF201	NUT, plain	1	
73	GHF222	NUT, nyloc	1	
74	128042	BRACKET, slave cylinder	1	
75	SH605091	SCREW, slave cyl to bracket	1	
76	GHF332	WASHER, locking	1	
77	GHF201	NUT, plain	1	
78	504852	PUSHROD	1	
79	NT605041	NUT, locking on push rod	1	
80	057194	FORK END	1	
81	216421A	SCREW PIN	1	
83	GHF502	SPLIT PIN	1	
84	106347	ANCHOR PLATE	1	
85	027645	SPRING, return	1	
86	SH605071	SCREW, cylinder to bracket	2	
87	GHF201	NUT, plain	1	
88	GHF332	WASHER, locking	2	

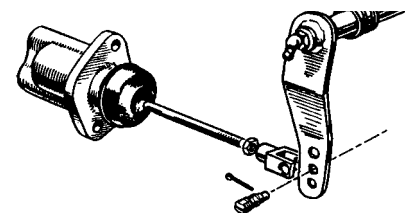


Ill. No	Part Number	Description	Qty. Req.	Details
Girling Clutch Hydraulics - TR4/4A				
90	GR64067758	CLUTCH MASTER CYLINDER	1	includes push rod
	GRK1027	REPAIR KIT (0.75" cylinder bore)	1	
	18G8986	REPAIR KIT (0.70" cylinder bore)	1	
<i>BEWARE! Some vehicles may have replacement cylinders fitted with a 0.70" bore size. This is CAST onto the outside of the cylinder.</i>				
91	106095	SEAL, filler cap	1	
92	500201A	FILLER CAP	1	
93	GHF103	SCREW, m/cylinder to bracket	2	
94	GHF332	WASHER, locking	2	
95	GHF202	NUT, plain	2	
96	PJ8812	CLEVIS PIN	1	
97	131787	SPRING, anti-rattle	1	
98	GHF301	WASHER, plain	1	
99	GHF503	SPLIT PIN	1	
100	516788	SLAVE CYLINDER	1	
	505704	REPAIR KIT, slave cylinder	1	
101	556508A	BLEED NIPPLE	1	
102	128042	BRACKET, slave cylinder mounting	1	
103	SH605091	SCREW, slave cyl to bracket	1	
104	GHF332	WASHER, locking	1	
105	GHF201	NUT, plain	1	
106	128043	STAY, slave cylinder	1	
107	GHF201	NUT, plain	1	
108	GHF302	WASHER, plain	1	
109	GHF272	NUT, nyloc	1	
110	504852	PUSH ROD	1	
111	NT605041	NUT, locking	1	
112	057194	FORK	1	
113	216421A	SCREW PIN, with spring	1	
114	GHF502	SPLIT PIN	1	
115	GBH415	HOSE, flexible rubber	1	
	TT3041A	HOSE, stainless steel braided	1	
116	NT606041	NUT, locking, hose to bracket	1	TR4
117	GHF323	WASHER, shakeproof	1	
118	233220A	WASHER, copper, hose to slave cyl.	1	
119	305385	PIPE, master cyl to bracket, RHD	1	TR4
	208531	PIPE, master cyl to bracket, LHD	1	
120	143354	HOSE, plastic tube	1	
	TT3141	HOSE, stainless steel braided	1	TR4A
121	143033	ADAPTOR, hose to slave cylinder	1	
122	598693	UNION, double ended, hose to pipe	1	
123	307321	PIPE, master cylinder to union	1	TR4 RHD
124	148816	PIPE, master cylinder to union	1	TR4 LHD
125	C5192A	BOLT, banjo, pipe to m/cylinder	1	
126	216914	WASHER, copper	1	TR4 RHD
127	BHA4310	BANJO UNION	1	
128	233220A	WASHER, copper	1	
129	143033	ADAPTOR, pipe to m/cylinder	1	
130	233220A	WASHER, copper	1	TR4 LHD
131	2H400	CLIP, pipe to bulkhead	1	
132	618303	CLIP, pipe to bulkhead	1	
133	GHF421	SCREW, clip	1	TR4A
134	YA583	SCREW, clip	1	
135	106347	PLATE, anchor	1	TR4 with spring
136	027645	SPRING, return	1	type clutch

Clutch Cross Shaft Lever End

There are three holes in the clutch cross shaft lever end.

All 4 cylinder TR's should be connected from the slave cylinder to the CENTRE hole, the other two are for use on different Triumph models.

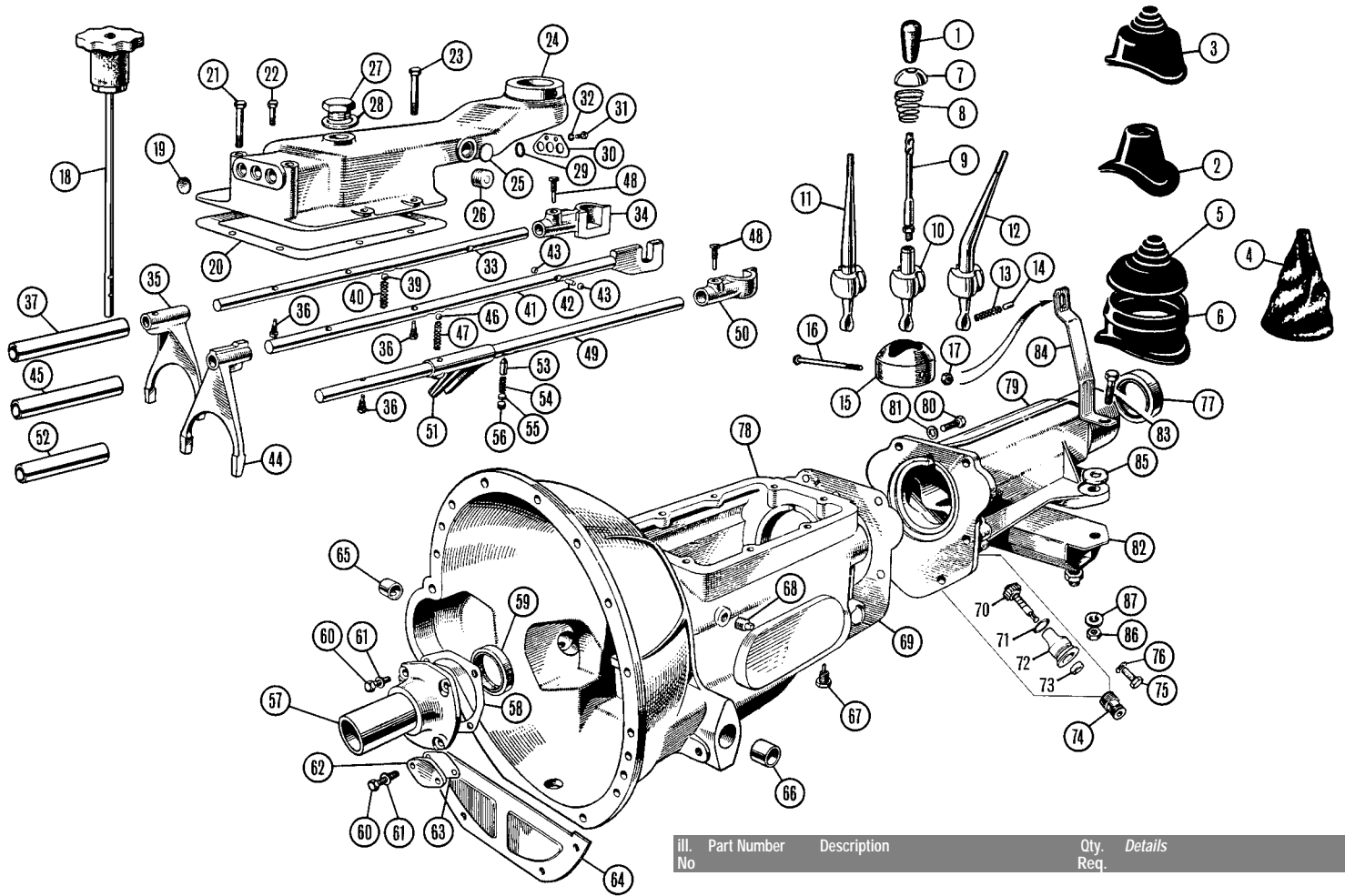


However, the top hole, if used, would increase clutch travel relative to clutch pedal movement, but with quite a pedal pressure penalty.

Don't forget to re-adjust the push rod after replacing the gearbox or working on the clutch itself, as per the workshop manual. (1/16" clearance).

Clutch/Brake Fluids & Hydraulic System Tools

Please refer to Page 72 for full details of our range of hydraulic fluids & hydraulic service tools.



iii. Part Number No	Description	Qty. Req.	Details
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5 Speed Gearbox Conversion

See also Accessories.

Our precision engineered 5 speed gearbox conversion kits include everything you need (including a gearbox unit) to convert your classic to 5 speed.

Designed to replace existing units without any body work modifications.

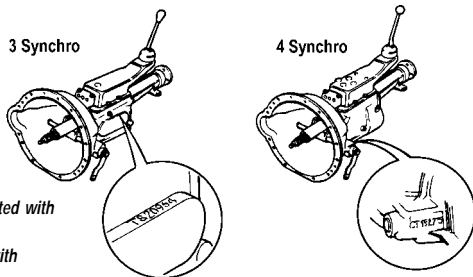
For full specifications please contact your local Moss branch.

NI	TGK120A	5 Speed Gearbox Conversion	1	'A' type chassis
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Gearbox Units

Authentic Triumph gearboxes were numbered with TS or CT prefixes which bear little relationship to other commission numbers on TR models using the gearbox. This number is stamped as shown here, it is a reliable way of differentiating 3 synchro' and 4 synchro' gearboxes. TS & UF are always 3 synchro' and, 4 synchro' are always CT, LE, MD, ME, MG, MK, VA and VF.

No sorry, you can't just add a synchro' to convert a 3 synchro' box to a 4 synchro', because of the internal dimensions of the gear case. Other gearbox cases may have been used for replacement during the life of the car, and our expert advice will be required to identify the model from which yours came.



TR2/3/3A's were originally fitted with 3 synchro gearboxes.

TR3B's onwards were fitted with 4 synchro gearboxes.

iii. Part Number No	Description	Qty. Req.	Details
Gearbox Units (3 Synchro) TR2/TR3/TR3A			
NI	303107R	GEARBOX (recon, exchange)	1 non-overdrive
NI	509364R	GEARBOX (recon, exchange)	1 for 'A' Type overdrive
Gearbox Units (4 Synchro) TR3B/TR4/TR4A			
NI	UKC5196R	GEARBOX (recon, exchange)	1 non-overdrive
NI	UKC816R	GEARBOX (recon, exchange)	1 for 'A' Type overdrive
NI	TGK110	GEARBOX & OVERDRIVE (reconditioned exchange)	1 with 'A' Type overdrive
External Gearbox Components			
1	107885	KNOB, gear lever (push-on)	1 TR2 to TS2876
	109045	KNOB, gear lever (screw-on)	1 TR2 from TS2877
			1 TR3 to TS50000
	123961	KNOB, gear lever	1 TR3A from TS50001, TR3B
	22B19	KNOB, gear lever (spherical)	1 TR4/4A
			See also Accessories for our range of alternative gear lever knobs
2	603065	GROMMET, gear lever	1 TR2/3/3A/3B
3	705913	GROMMET, gear lever	1 TR4/4A
4	631881	GAITER & GROMMET	1
5	709328	GROMMET, gear lever (upper)	1 TR4A
6	709329	GROMMET, gear lever (lower)	1
7	112442	RETAINER, spring	1
8	109531	SPRING, gear lever	1
9	107891	LEVER, gear, upper	1 TR2 to TS2876
10	107888	LEVER, gear, lower	1
			Early TR2's to TS2876 were originally fitted with a two piece gear lever, which is no longer available, it was superseded by Triumph to the late type (112447).
11	112447	LEVER, gear	1 TR2 from TS2876, TR3/3A/3B
	131507	LEVER, gear lever	1 TR4
12	143624	LEVER, gear lever	1 TR4A
			TR4/4A gear lever can be used on TR2/3/3A & 3B's. Watch your knuckles!
13	122075	SPRING, anti-rattle	1 TR2 from TS2876,
14	112424	PLUNGER, anti-rattle	1 TR3/3A/3B TR4/4A
			Failure to install the spring (item 13) & plunger (item 14) can result in TR gearbox 'death rattle'. Ensure that the plunger slides freely.
15	105787	CAP, gear lever	1

Ill. No	Part Number	Description	Qty. Req.	Details
16	BH604281	BOLT, cap retaining	1	
17	GHF271	NUT, nyloc	1	
18	108164	DIPSTICK, oil level	1	TR2/3/3A to TS50000
19	104449	CORE PLUG, selector shaft	3	
20	105758 †	GASKET, top cover	1	
21	BH505221	BOLT, top cover (front)	2	
22	056370	BOLT, top cover (side)	4	
23	HB873	BOLT, top cover (rear)	2	
24	TKC1000	TOP COVER CASTING, bare	1	
<i>TR top covers only permitted overdrive on 4th gear. Installation of part numbers: 127383 (Item 35) & 127387 (item 44), will add overdrive on 2nd and 3rd gears with a suitably drilled top cover, part no TKC1000.</i>				
25	054505	CORE PLUG, side, dished	2	as required
26	PS1004	CORE PLUG, side, screwed	2	
27	108114	SCREW PLUG	a/r	blanks extra switch holes
28	6K433	WASHER, sealing	a/r	
29	106050	O' RING, selector shaft	3	
30	106051	RETAINER, O' ring	1	
31	SH604041	SCREW, securing retainer	2	
32	GHF331	WASHER, locking	2	
33	122071	SHAFT, 1st/2nd selector	1	TR2/3/3A
	158464	SHAFT, 1st/2nd selector	1	TR3B, TR4/4A
34	127386	SELECTOR, 1st/2nd	1	
35	127383	FORK, 1st-2nd selector	1	TR2/3/3A
	128067	FORK, 1st-2nd selector	1	TR3B, TR4/4A
36	122653	SET SCREW, fork retaining	3	(replaces wire locked type)
37	122062	SLEEVE, 1st/2nd selector	1	TR3A from TS50001
	128063	SLEEVE, 1st/2nd selector	1	TR3B, TR4/4A
39	BLS112	BALL, 1st/2nd detent	1	
40	FRC7195A	SPRING, for ball	1	
41	156373	SHAFT, 3rd/4th selector	1	
42	105788	ROLLER, interlock	1	
43	BLS112	BALL, interlock	2	
44	127387	FORK, 3rd/4th selector	1	
45	117811	SLEEVE, 3rd/4th selector	1	TR3A from TS500011
46	BLS112	BALL, 3rd/4th detent	1	TR2/3/3A/3B, TR4 to CT9898
	106481	PLUNGER, 3rd/4th detent	1	TR4 from CT 9899, TR4A
47	FRC7195A	SPRING, for ball	1	TR2/3/3A/3B, TR4 to CT9898
	106489	SPRING, for plunger	1	TR4 from CT 9899, TR4A
	109401	DISTANCE PIECE	1	
48	122653	SET SCREW, selectors to shafts	2	
49	132389	SHAFT, reverse selector	1	
50	127385	SELECTOR, reverse	1	
51	127389	FORK, reverse selector	1	TR2/3/3A
	129780	FORK, reverse selector	1	TR3B, TR4/4A
52	122064	SLEEVE, reverse selector	1	TR3A from TS50001
	129799	SLEEVE, reverse selector	1	TR3B, TR4/4A
53	106481	PLUNGER, reverse detent	1	
54	106489	SPRING, for plunger	1	
55	109401	DISTANCE PIECE, reverse detent	1	
56	108166	PLUG, for detent springs	3	
57	100157	EXTENSION, front cover	1	(2" sleeve)
<i>TR2 to TR4 models were originally fitted with a 2 3/8" front cover extension. These must never be used on vehicles fitted with diaphragm clutches.</i>				
<i>Shorten accordingly, if the longer type is used with diaphragm clutch installations.</i>				
58	059537 †	GASKET, front cover	1	
59	141756	OIL SEAL, front	1	
60	155541	SCREW, wedge lock	6	
61	GHF362	WASHER, copper	6	
62	055773	COVER, countershaft	1	
63	055774 †	GASKET, for cover	1	
64	112445	COVER, clutch housing	1	
65	036997	BUSH, clutch shaft, RH	1	TR2/3/3A/3B, TR4A
66	036998	BUSH, clutch shaft, LH (7/8" long)	1	
	137651	BUSH, clutch shaft (3/8" long)	2	TR4
<i>(Use with non grease-able clutch shaft)</i>				
67	155660	PLUG, oil drain, magnetic	1	alternatives
	114774	PLUG, oil drain, original	1	
68	114774	PLUG, oil level/filler (on case side)	1	TR3A from TS50001
69	132465 †	GASKET, main case to tail housing	1	
70	147965	GEAR, speedometer drive	1	
71	147751	O' RING	1	
72	146542	BEARING, speedo drive gear	1	
73	NKC105A	OIL SEAL, speedo drive	1	
74	60246	END CAP, speedo drive	1	
75	107746	BOLT, bearing retaining	1	
76	GHF332	WASHER, locking	1	

Ill. No	Part Number	Description	Qty. Req.	Details
77	146129	OIL SEAL, rear	1	
78	301039	CASING, gearbox	1	TR2/3, TR3A to TS50000
	206286	CASING, gearbox	1	TR3 from TS50001
	304692	CASING, gearbox	1	TR3B, TR4, TR4A to CT50124
	210622	CASING, gearbox	1	TR4A from CT50125
<i>If replacing a 4 synchro' gearbox case with part no. 210622, it may be found that the longer attachment bolts for the bell housing are required as well as some 'adjustment' of the mounting to the chassis. This is caused by a thicker bell housing flange increasing the overall length of the gearbox.</i>				
79	305048	EXTENSION, gearbox casing	1	
<i>Check that the front face is slotted to clear the layshaft lock plate when fitting to 4 synchro' gearboxes, as all TR variations carry the same part number.</i>				
80	GHF163	SCREW, attaching extension	5	
	BH505161	BOLT, attaching extension	1	
81	GHF332	WASHER, locking	6	
82	104086	MOUNTING, gearbox	1	
83	GHF109	BOLT, gearbox to mounting	1	TR2/3/3A
	GHF109	BOLT, gearbox to mounting, RH	1	
	BH608161	BOLT, gearbox to mounting, LH	1	TR3B, TR4/4A
	GHF204	NUT, gearbox mounting	1/2	
	GHF335	WASHER, locking	2	
84	131711	STRAP, top cover to flange	1	TR3B, TR4/4A
85	131690	SPACER	1	
86	GHF203	NUT, gearbox to mounting	2	
87	WL600071	WASHER, locking	2	
	515121	GASKET SET, standard box	1	includes items 20, 63 & 69

Gearbox Mounting Hardware

Gearboxes with 11 mm mounting flange TR2/3/3A/3B, TR4 approximately

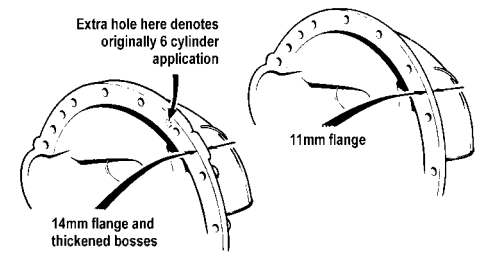
TE505111	STUD, gearbox attachment	3	
BH606161	BOLT, starter attachment	2	
GHF202	NUT, starter attachment bolt	2	
GHF333	WASHER, locking	2	
GHF163	SCREW (into cylinder block)	6	hexagon headed
GHF332	WASHER, locking	13	
GHF120	SCREW, attaching clutch shield	2	
GHF103	BOLT (clutch slave cylinder bracket)	2	

Gearboxes with 14 mm mounting flange TR4/4A approximately

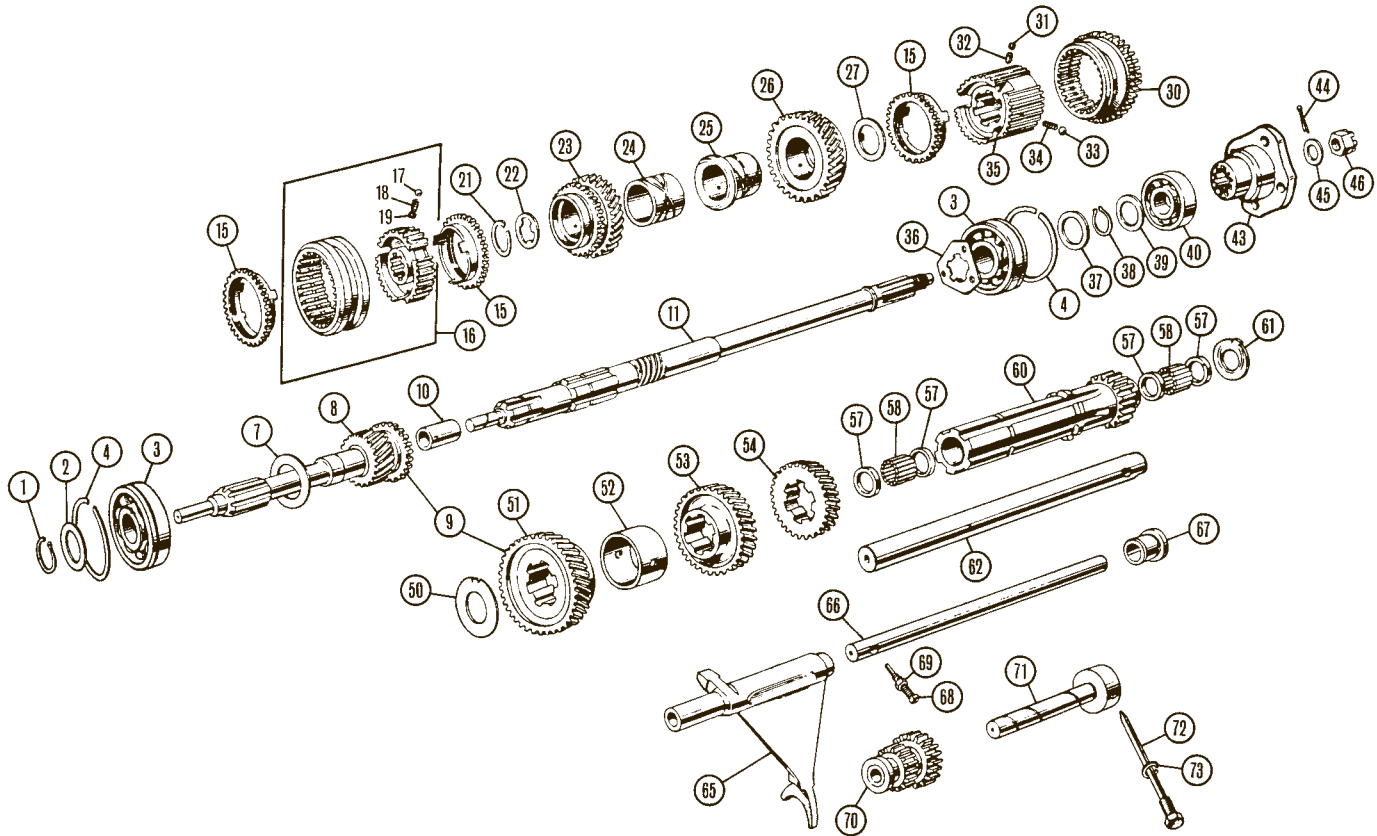
CHS2513	STUD, gearbox attachment	3	
BH606191	BOLT, starter attachment	2	
GHF202	NUT, starter attachment bolt	2	
GHF333	WASHER, locking	2	
SH505101	SCREW (into cylinder block)	6	hexagon headed
GHF332	WASHER, locking	13	
GHF103	SCREW, attaching clutch shield	2	
GHF104	BOLT (clutch slave cylinder bracket)	2	
GHF201	NUT, plain	7	

Gearbox Tech' Tips

- 1) Remove lid: if 2nd gear play exceeds 0.020", suspect its thrust washer is broken, which can destroy the gear and mainshaft. Exchange gearbox recommended.
 - 2) Drain oil into pan. If grey coloured lumps fall out, remove lid and look for obvious damage to gears. If oil has moderate brassy look this is normal. Pieces of brass denote broken synchro rings or bushes. Grey sludge means the layshaft and gear are destroyed. Exchange gearbox recommended.
 - 3) Test drive car before refitting tunnel or trim.
 - 4) Would you like a higher 1st gear (giving a closer ratio gearbox)? If the gearbox is the 4 synchro' type, UKC662 layshaft & 152803 1st gear may be substituted for the existing gear pair.
 - 5) We recommend Penrite 30 or 40 grade gearbox oil for TR gearboxes, 1 litre required for non overdrive boxes, 2 litres for boxes with overdrive. Precise recommendations have varied over the years, but what seems to actually work best is:
30 grade - All types in cold climates and Non overdrive boxes except in very warm climates.
40 grade - Non overdrive in very warm climates and all overdrive boxes in warm/moderate climates (UK & Europe).
 - 6) When filling from empty (via gearbox), allow plenty of time for oil to transfer with overdrive and check before driving.
- Recommended Penrite Gearbox Oils:**
Gearbox Oil 30: 1 litre, GGL9019X. 5 litres: GGL9018X.
Gearbox Oil 40: 1 litre, GGL9021X, 5 litres: GGL9020X.



100 | Gearbox Internals - 3-Synchro



Ill. No	Part Number	Description	Qty. Req.	Details
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Internal Gearbox (3 Synchro) TR2/TR3/TR3A

1	058956	CIRCLIP, bearing retaining	1	
2	060078	WASHER	1	
3	058391	BEARING	2	(front & centre)
4	058955	CIRCLIP, bearing locating	2	
7	060658	OIL THROWER	1	
8	201712	INPUT SHAFT	1	TR2/3, TR3A to TS26824
	204215	INPUT SHAFT	1	TR3A from TS26825
9	148949	GEAR SET, input shaft (item 7) and constant mesh gear (item 53)	1	TR3A from TS26825
10	055911	BUSH, input shaft	1	TR2/3, TR3A to TS26824
	145008	BEARING, input shaft	1	TR3A from TS26825
11	201590	MAINSHAFT (non-overdrive)	1	TR2/3, TR3A to TS26824
	204011	MAINSHAFT (non-overdrive)	1	TR3A from TS26825
	110736	MAINSHAFT (overdrive)	1	TR2/3, TR3A to TS26824
	204044	MAINSHAFT (overdrive)	1	TR3A from TS26825
15	113431	SYNCHRO' RING	3	
16	153844	SYNCHRO' HUB, 3rd/4th	1	
17	BLS108	BALL, detent	3	
18	122075	SPRING, for ball	3	
19	037948	SHIM, to adjust spring tension		
21	055707	CIRCLIP, 3rd gear to shaft	1	
22	157054	WASHER (between circlip & gear)	1	
23	105630	GEAR, 3rd	1	
24	101585	BUSH, 3rd gear	1	
25	105731	BUSH, 2nd gear	1	
26	105629	GEAR, 2nd	1	
27	105732	WASHER	1	
30	109137	GEAR 1st speed	1	
31	BLS108	BALL, interlock	1	
32	106106	PLUNGER, interlock	1	
33	BLS108	BALL, detent	3	
34	122075	SPRING, for ball	3	
	037948	SHIM (to adjust spring tension)	a/r	

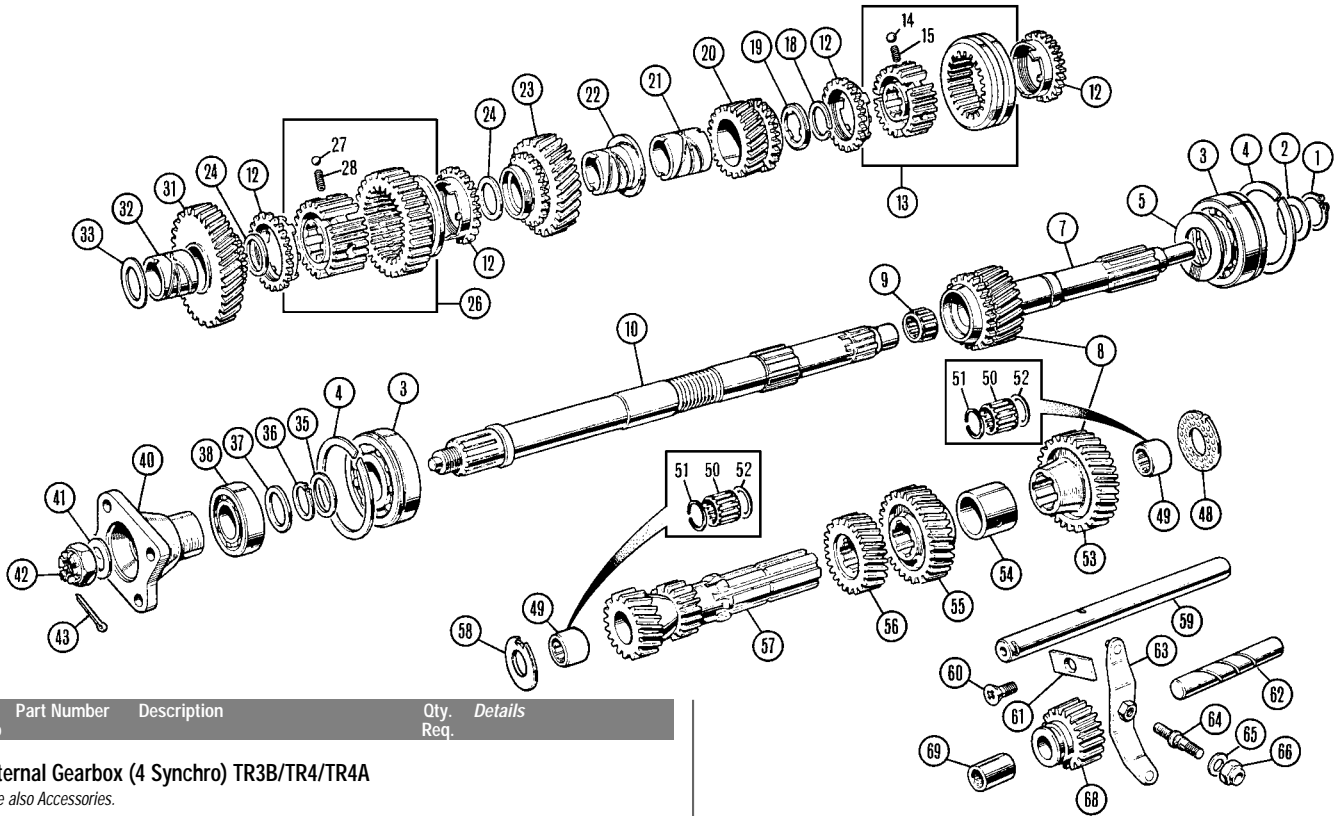
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35	105627	INNER HUB, 1st speed	1	
36	060569	WASHER	1	between 1st gear & bearing (Note: 060569 is to be used with mainshafts requiring 055911 brass bush)
	116496	WASHER	1	between 1st gear & bearing (Note: 116496 is to be used with mainshafts requiring 145008 needle roller bearing)
37	059443	WASHER	1	(between circlip & bearing)
38	058956	CIRCLIP	1	
39	058949	WASHER, rear mainshaft	1	
40	SP75G	BEARING, rear	1	
43	058948	FLANGE	1	
44	PC12	SPLIT PIN	1	
45	WP24	WASHER	1	
46	057868	NUT	1	
50	129955	THRUST WASHER, front	1	
51	105626	GEAR, constant mesh	1	
52	059465	DISTANCE PIECE	1	
53	140509	GEAR, 3rd countershaft	1	
54	105658	GEAR, 2nd countershaft	1	
57	055721	RETAINER, needle bearing	4	
58	058088	NEEDLE BEARING	48	
60	105625	GEAR, 1st countershaft	1	

Clicks in 1st gear? (particularly for gold card holders!).

That tooth flushed out with old oil used to be part of gear 105625. Catch it quickly and you may not need 111153 and 109137. Leave it 100 miles and be sure, you will need the golden trio!

61	129956	THRUST WASHER, rear	1	
62	108168	COUNTERSHAFT	1	
65	105727	FORK, reverse	1	
66	105782	ROD, reverse fork	1	
67	058951	BUSH, reverse rod	1	
68	055815	SCREW, rod retaining	1	
69	51K1178	NUT, screw locking	1	
70	111153	GEAR, reverse	1	
	NI 2A3282	BUSH	1	
71	105757	SPINDLE, reverse gear	1	
72	055715	SCREW, spindle retaining	1	
73	GHF332	WASHER, for screw	1	



Ill. No	Part Number	Description	Qty. Req.	Details
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Internal Gearbox (4 Synchro) TR3B/TR4/TR4A

See also Accessories.

- NI TGK112 GEARBOX REPAIR KIT 1 *Non Overdrive gearbox*
- NI TGK113 GEARBOX REPAIR KIT 1 *'A' type Overdrive gearbox*

These kits include: countershaft, bearings, seals, synchro cups, circlips & thrust washers.

Everything you will need to service your gearbox.

1	058956	CIRCLIP, bearing retaining	1	
2	060078	WASHER	1	
3	058391	BEARING, front & centre	2	
4	058955	CIRCLIP, bearing locating	2	
5	060658	OIL THROWER	1	
7	204215	INPUT SHAFT	1	
8	148949	GEAR SET	1	input shaft (item 7) and constant mesh gear (item 53)
9	145008	BEARING., mainshaft spigot	1	
10	208051	MAINSHAFT (non-overdrive)	1	
12	113431	SYNCHRO' RING	4	
13	153844	SYNCHRO' HUB, 3rd/4th	1	
	153841X	OUTER SLEEVE	1	
14	BLS108	BALL, detent	1	
15	122075	SPRING, for ball	3	
18	055707	CIRCLIP, 3rd gear to shaft	1	
19	157054	WASHER (between circlip & gear)	1	
20	105630	GEAR, 3rd	1	
21	129940	BUSH, (Brass), 3rd gear	1	
	153238	BUSH, (Steel), 3rd gear	1	
22	129939	BUSH, 2nd gear	1	
	129939X	BUSH, 2nd gear (uprated)	1	
23	105629	GEAR, 2nd	1	
	152771X	GEAR KIT, 2nd	1	
24	129941	WASHER, 0.118"	a/r	
	129942	WASHER, 0.121"	a/r	
	129943	WASHER, 0.124"	a/r	
	129944	WASHER, 0.127"	a/r	
	134670	WASHER, 0.132"	a/r	
26	153843	SYNCHRO' HUB, 1st/2nd	1	
27	BLS108	BALL, detent	3	
28	122075	SPRING, for ball	3	
31	128100	GEAR, 1st (33 teeth)	1	use with 128107
	152803	GEAR, 1st (32 teeth)	1	use with UKC662
32	129940	BUSH, (Brass), 1st gear	1	
	153238	BUSH, (Steel), 1st gear	1	
33	116496	WASHER	1	
35	059443	WASHER, bearing spacer	1	
36	058956	CIRCLIP, bearing retaining	1	
37	058949	WASHER, rear mainshaft	1	
38	SP75G	BEARING, rear mainshaft	1	
40	058948	FLANGE, mainshaft	1	

Ill. No	Part Number	Description	Qty. Req.	Details
41	WP24	WASHER	1	
42	057868	NUT, flange retaining	1	
43	PC12	SPLIT PIN	1	
48	129955	THRUST WASHER, front, large	1	
49	126862	BEARING, shell type	2	
50	150339	BEARING, open cage type	2	
51	147749	CIRCLIP	2	Alternative to 126862
52	154396	SPACER, supporting	2	
53	142434	GEAR, constant mesh	1	
54	059456	DISTANCE PIECE	1	
55	140509	GEAR, 3rd countershaft	1	
56	140508	GEAR, 2nd countershaft	1	

Standard Laygear

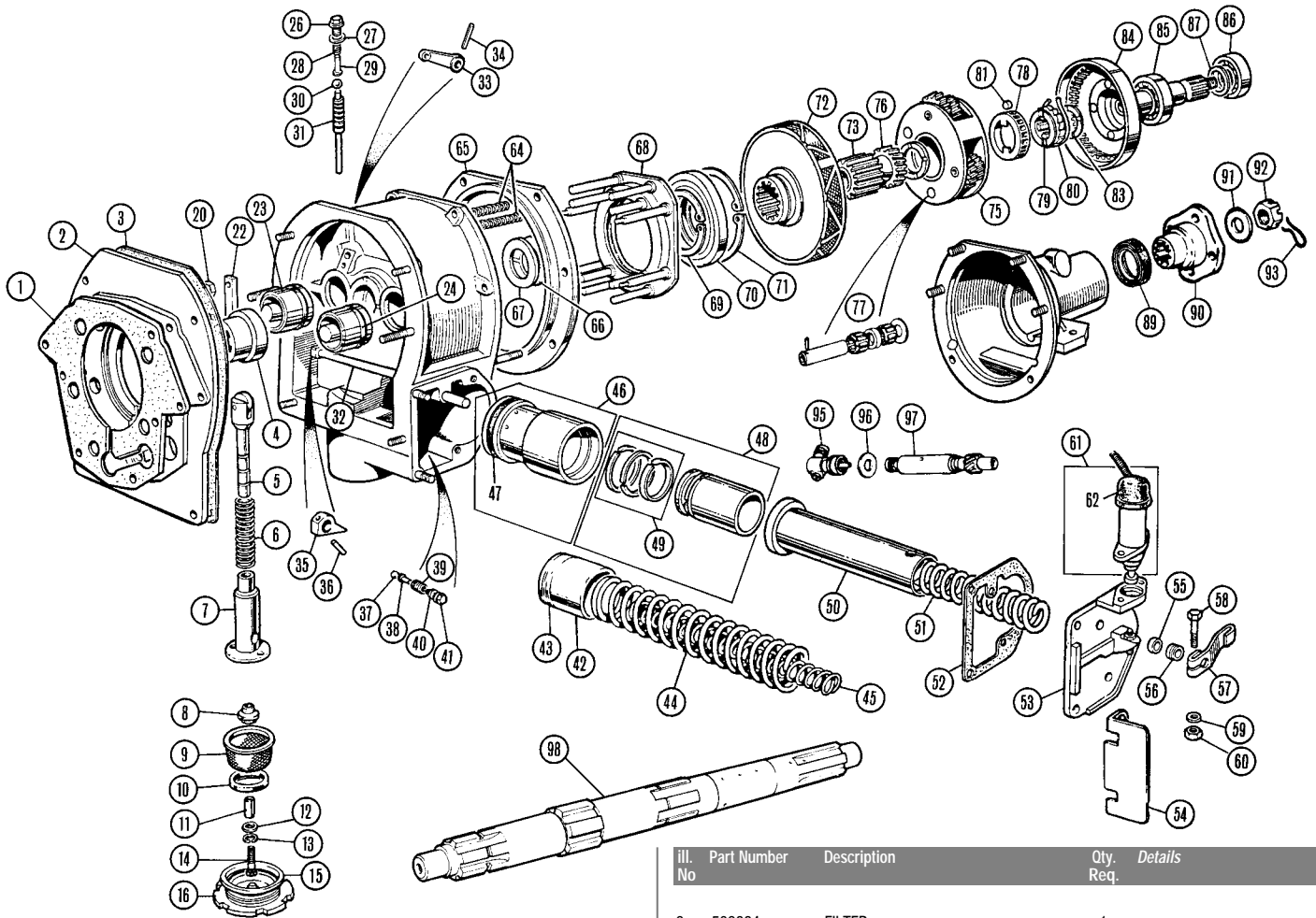
- 57 128107 LAYGEAR (16 tooth), 1st & reverse 1 *use with 128100*
- UKC662 LAYGEAR (17 tooth), 1st & reverse 1 *use with 152803*

Upated Laygear

Most TR owners know that the Stag, and Police spec saloon gearboxes, were uprated by the modifications to the weak zones of the laygear & shaft, and the replacement of the bimetal thrust washers with needle bearing thrusts. The rear end of the shaft and gearbox became 'metric', so this conversion would be quite difficult. Uprated laygears come complete with 3 bearings and fittings. The twin bearings fitted to the rear end each have twice the load capacity of the original (150339). They fit the standard gearbox and layshaft, so no modifications are required. If your gearbox has suffered such a failure, you will appreciate this is a 'fit and forget' solution.

- NI 128107UR LAYGEAR (16 tooth), 1st & reverse 1 *inc. bearings, circlips*
- NI UKC662UR LAYGEAR (17 tooth), 1st & reverse 1 *& thrust washers*

58	129956	THRUST WASHER, rear, small	1	
59	128105	COUNTERSHAFT, original fitment	1	
	128105B	COUNTERSHAFT, reproduction	1	
60	129954	SCREW, self-locking	1	
61	129938	PLATE, shaft retaining	1	
62	129937	SPINDLE, reverse gear	1	
63	129894	LEVER, reverse gear	1	
64	106448	PIN, lever fulcrum	1	
<i>If bent, replace the pin 106448 and be sure to check clearance with reverse gear bush (items 69)</i>				
65	WP20X	WASHER	1	
66	GHF223	NUT	1	
68	128110	GEAR, reverse	1	
69	129862	BUSH, reverse gear	1	



III. Part Number No	Description	Qty. Req.	Details
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A Type Overdrive

A Summary of the A Type Overdrive

OVERDRIVE UNIT (series 22/61275)	TR2 to TS5979	
OVERDRIVE UNIT (series 22/61374)		TR2 from TS5980, TR3/3A
		TR4 to October 1964
OVERDRIVE UNIT (series 22/61712)	TR4 from October 1964	
		through TR4A solid rear axle
OVERDRIVE UNIT (series 22/61753)	TR4 IRS	

Overdrives can be interchanged as complete units. It is not recommended that 22/61275 is used on later cars, as it is hydraulically incapable of handling any 'extra' torque, especially in 2nd and 3rd gears. It is, however better than nothing, and if used on later cars should be restricted to 4th gear use only. 22/61753 is the only safe unit to use on the TR4 IRS, as none of the earlier units feature the 'cushioned' engagement. This modification was introduced in 1965 to smooth out engagement, it also lessened the likelihood of the engagement to rip the differential mountings off the chassis.

Overdrive Units & Components

See also page 104/105 for 'Overdrive Conversion' and 'Overdrive Upgrading Kits'.

NI 305063	OVERDRIVE UNIT	1	TR2/3/4
305063R	OVERDRIVE UNIT, recon, exchange	1	
NI 312373	OVERDRIVE UNIT	1	TR4A
312373R	OVERDRIVE UNIT, recon, exchange	1	
NI TGK116	REPAIR KIT, overdrive	1	
Kit includes everything you will need to service your overdrive unit, For example: O' rings, gaskets, circlips, spring set, piston ring set, bearings etc.			
NI TGK117	SEAL & GASKET SET, overdrive	1	
Kit includes gaskets, seals, O' rings & washers.			
1 132465	GASKET, adaptor to gearbox	1	
2 208098	ADAPTOR, overdrive to gearbox	1	
3 502556	GASKET, adaptor to overdrive	1	
4 500627	CAM	1	
5 513891	PLUNGER ASSEMBLY, pump	1	
6 500633	SPRING	1	
7 505507	BODY, pump	1	
8 513902	PLUG, pump body	1	

III. Part Number No	Description	Qty. Req.	Details
9 509884	FILTER	1	
10 513205	MAGNET (set of 3)	1	
11 505551	DISTANCE TUBE	1	all except 22/61753
12 PWZ203	WASHER, plain	1	
13 WL700101	WASHER, locking	1	
14 103270	BOLT	1	
15 500641	WASHER	1	
16 500620	PLUG, oil drain	1	
521814	PLUG, oil drain (alternative)	1	
The original drain plug 500620 can be replaced by part no. 521814, IF items 12, 13 & 14 are omitted.			
20 JS616A	NUT, locking	4	
21 7H5863	LOCK TAB	4	
22 500587	BRIDGE-PIECE	2	
23 503161	OPERATING PISTON (1 1/8" Dia)	2	22/61275
24 503162	RING SET	2	
513890	OPERATING PISTON (1 3/8" Dia)	2	22/61374, 22/61712 & 22/61753
513912	O' RING	2	
The later pistons with O' rings (part no. 513890) may be used to replace worn metal ring type pistons if the bores are smooth.			
26 506117	PLUG, operating valve	1	
27 3H693	WASHER	1	
28 007972	SPRING, operating valve	1	
29 500591	PLUNGER, operating valve	1	
30 BLS110	BALL, operating valve	1	
31 500658	VALVE, operating	1	
32 513908	SHAFT, operating	1	
33 513909	LEVER, adjustment setting	1	
34 513888	MILLS PIN, adjustment lever	1	
35 513910	CAM, on shaft	1	
36 500593	PIN, cam to shaft	1	
37 BLS110	BALL, pump valve (0-3125")	1	all except 22/61753
BLS108	BALL, pump valve (0-250")	1	
38 500591	PLUNGER, pump valve	1	22/61753
39 007972	SPRING, pump valve	1	
40 3H693	WASHER, pump valve	1	
41 506117	PLUG, pump valve	1	
42 502565	ACCUMULATOR PISTON, w/rings	1	
43 500605	RING, accumulator piston	2	all except 22/61753
44 500634	SPRING, accumulator, outer	1	

Ill. No	Part Number	Description	Qty. Req.	Details
45	503167	SPRING, accumulator, inner	1	all except 22/61753
46	501908	HOUSING, accumulator	1	
47	501910	'O' RING	1	
48	501909	ACCUMULATOR PISTON, w/rings	1	22/61753
49	505555	RING SET	1	
50	502563	SPACING TUBE	1	
51	515131	SPRING, accumulator	1	
	513900	WASHER, packing, on spring	a/r	

The accumulator piston spring (item 51) loses tension over the years. Replacement often rejuvenates sluggish overdrive engagement by restoring the oil pressure within the overdrive.

52	500645	GASKET	1	
53	502566	BRACKET, solenoid	1	
54	502569	STONE SHIELD	1	
55	500594	O' RING, operating shaft	2	
56	502567	COLLAR, for shaft	1	
57	502568	LEVER, actuating	1	
58	503163	BOLT, lever to shaft	1	
59	GHF300	WASHER, plain	1	
60	GHF200	NUT	1	
61	508794	SOLENOID	1	
62	109521	COVER, solenoid	1	
64	502554	SPRING SET	1	
65	502555	BRAKE RING	1	
66	500610	THRUST WASHER	1	
67	500588A	WASHER, adjusting 0.113-0.114"	a/r	
	500588B	WASHER, adjusting 0.107-0.108"	a/r	
	500588C	WASHER, adjusting 0.101-0.102"	a/r	
	500588D	WASHER, adjusting 0.095-0.096"	a/r	
	500588E	WASHER, adjusting 0.089-0.090"	a/r	
	500588F	WASHER, adjusting 0.083-0.084"	a/r	
	500588G	WASHER, adjusting 0.077-0.078"	a/r	

Total destruction of the thrust washer and its adjusting washers is a common occurrence, and will require skilled rectification to the casing and bushes.

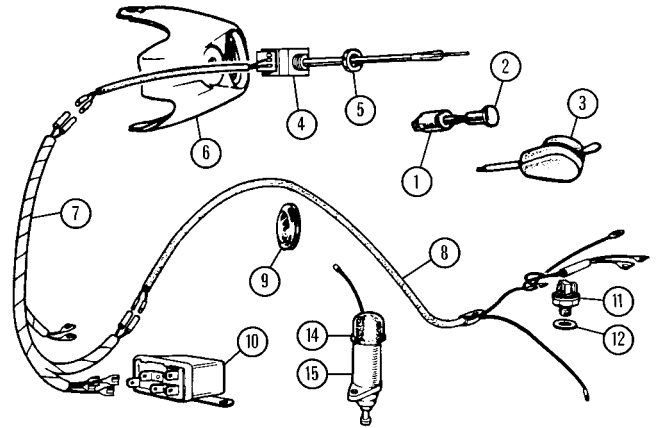
68 500660 THRUST RING 1
(Always inspect the thrust ring assembly for loose pins, & re-rivet if necessary)

69	500636	CIRCLIP	1	
70	500640	BEARING	1	
71	500637	CIRCLIP	1	
72	520975R	CLUTCH ASSEMBLY, exchange	1	
73	505549	SUN GEAR	1	
75	505545	PLANET GEAR & CARRIER	1	
76	505548	THRUST WASHER	1	
77	505546	BEARING KIT, planet gears	3	
78	012610	CAGE	1	
79	BAU2061A	CLUTCH INNER MEMBER	1	
80	513208	SPRING	1	
81	506063A	ROLLER SET	1	
83	500613A	THRUST WASHER	1	
84	500602	ANNULUS	1	
85	217325A	BEARING, annulus head	1	
86	SP75G	BEARING, annulus tail	1	
87	500623E	WASHER, adjusting 0.146"	a/r	
	500623F	WASHER, adjusting 0.151"	a/r	
	500623G	WASHER, adjusting 0.156"	a/r	
	500623H	WASHER, adjusting 0.161"	a/r	
	500623J	WASHER, adjusting 0.166"	a/r	
	500623K	WASHER, adjusting 0.171"	a/r	
	500623L	WASHER, adjusting 0.176"	a/r	
	500623M	WASHER, adjusting 0.181"	a/r	
89	146129	OIL SEAL	1	
90	058948	FLANGE	1	
91	WP24	WASHER	1	
92	057868	NUT	1	
93	PC12	SPLIT PIN	1	
95	120694	SPEEDOMETER ANGLE DRIVE	1	TR4A
96	3H550	WASHER, adaptor to speedo drive	1	
97	107749	PINION & BEARING, speedo drive	1	standard
	146542	PINION & BEARING, speedo drive	1	Alloy
	060247	OIL SEAL, speedo pinion shaft	1	

The pinion & bearing assembly may be replaced by 147965, 146542 and 147751.

(See pages 98/99, items 70, 71 & 72).

98	110736	MAINSHAFT, overdrive	1	TR2/3A to TS26824
	204044	MAINSHAFT, overdrive	1	TR3A from TS26825
	208052	MAINSHAFT, overdrive	1	TR3B, TR4/4A
99	500655	REAR CASING	1	
100	FHS579	STUD, rear casing, upper	4	
	500579	STUD, rear casing, lower	2	



Ill. No	Part Number	Description	Qty. Req.	Details
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Overdrive Electrics

1	BHA4280	SWITCH, overdrive push-pull	1	TR2
2	108437	KNOB	1	
<i>Can be used as an alternative to 112474 on TR3/3A.</i>				
3	112474	SWITCH, overdrive, egg-shaped	1	TR3/3A
	109122	SWITCH MECHANISM	1	
4	132424	SWITCH, overdrive, chrome stalk	1	TR4/4A
	147281	SWITCH, o/drive, black stalk	1	RHD
	147280	SWITCH, o/drive, black stalk	1	LHD
5	609795	BEZEL	1	
6	611974	ESCUTCHEON,	1	o/drive switch to column
7	131338	WIRING LOOM, switch to relay	1	
8	131339	WIRING LOOM, gearbox top cover	1	

The above looms will require modification to suit screw terminals or single isolator switch installations.

9 602037 GROMMET, gearbox cover 1
10 142169A RELAY, Lucar terminals 1
11 BAU1074A SWITCH, isolator, spade terminals 1
The overdrive relay & isolator switch are currently available with Lucar type connections only. For TR2/3, TR3A to TS60000, replace the ring connectors on the wires with Lucar connectors (part no. RTC220A), or by replacing the looms (items 7 & 8).

12 502146 WASHER, switch adjusting a/r
Refer to the workshop manual for adjustment instructions.

14 508794 SOLENOID 1
15 109521 COVER, rubber 1

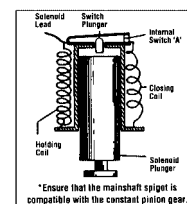
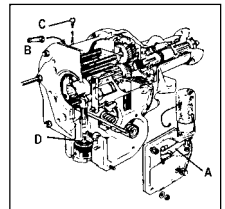
Overdrive Trouble Shooting (By Pete Cox)

Overdrive doesn't work! Where do you start looking for the fault?

Is the oil level and type correct? **NO**, change or top with CLST90.5L oil.

YES, remove the gearbox cover and loosen the actuating lever (A), start engine and drive away. At any speed over 20mph, irrespective of which forward gear is engaged, move adjustment setting lever (B) forwards. If the overdrive engages or merely 'jolts', the fault is either in the settings or electric's - go to your nearest Moss approved specialist.

If nothing happens then return to base, jack up the rear wheels, block the front wheels, use axle stands, then carefully loosen the operating valve plug (C) Start engine with fast tickover, engage 2nd gear and oil should bleed past the loosened operating valve plug. Any air should also bleed, after which the operating valve plug can be re-tightened. If no oil bleeds out, the pump is inoperative. Usually this is merely stuck and freeing can be achieved by removal of the oil drain plug (catch oil draining out). Inspect filter and clean if necessary. Remove pump body plug (D) and the base of the pump is revealed. Tap gently with a blunt instrument. Rotate wheels with the gearbox in neutral. Pump should move up & down freely. If the pump sticks 'down' again, and the result of the above produced a negative result, you guessed, - visit your nearest Moss approved specialist.



Overdrive Solenoid Operating Lever

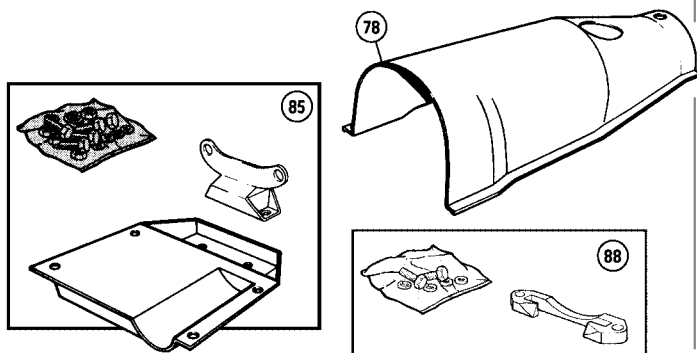
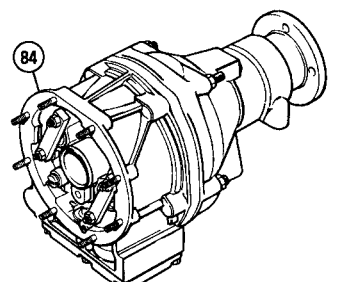
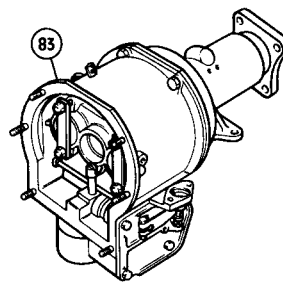
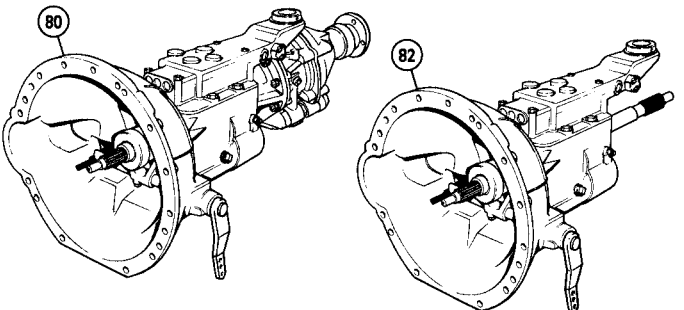
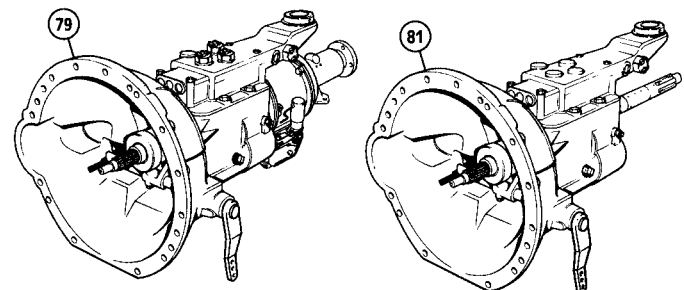
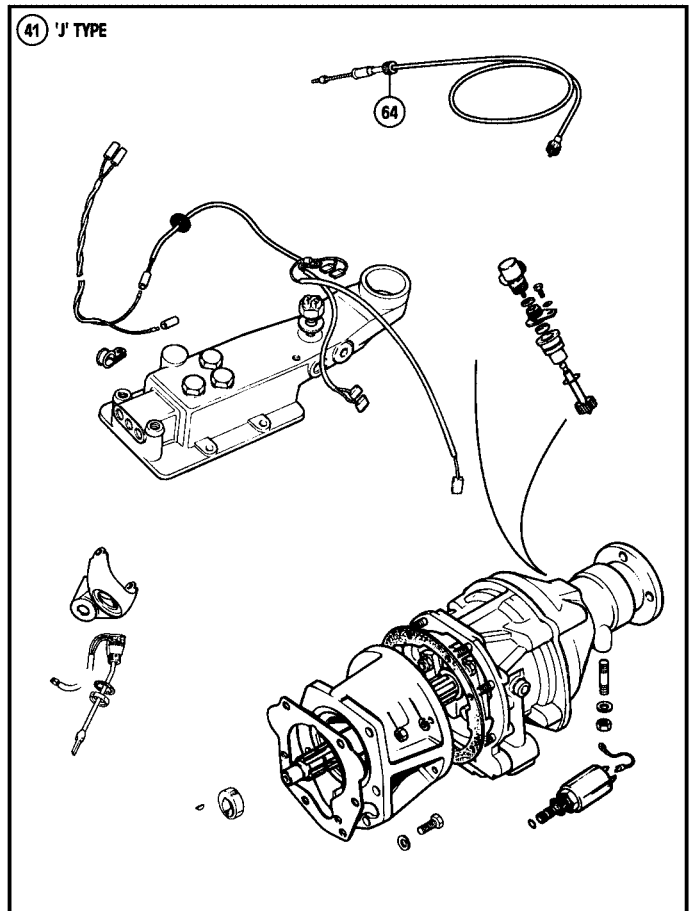
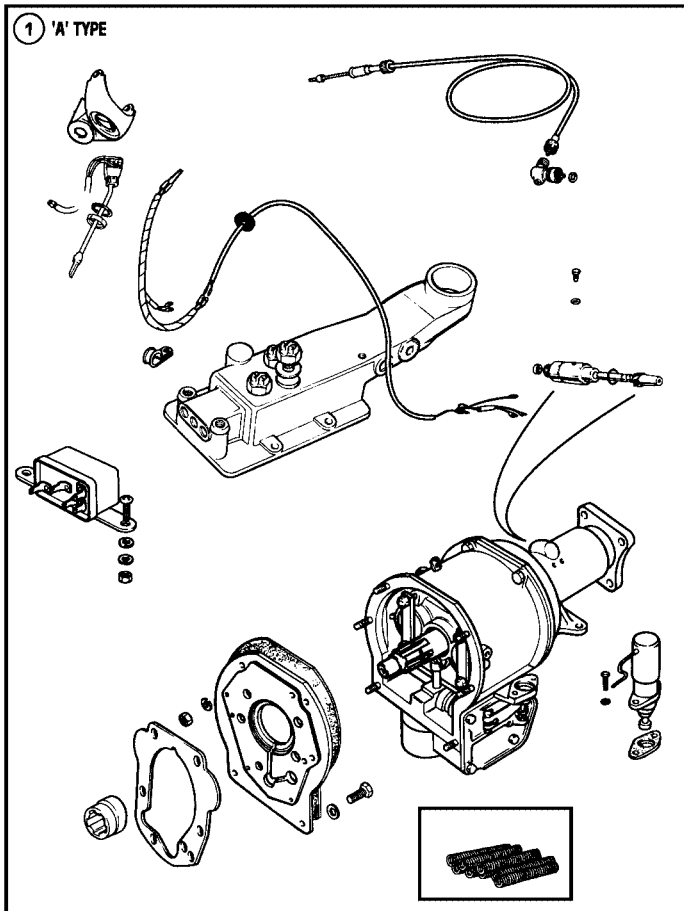
Overdrive solenoids will suffer 'melt-down' if the operating lever is not adjusted properly. Refer to your workshop manual for details of the correct procedure for adjustment.

When the overdrive switch is engaged, both solenoid cells are energised, causing the plunger to be pulled sharply into the solenoid. When it hits the top of the solenoid bore, the plunger opens switch 'A', disconnecting the closing coil, leaving the holding coil to keep the plunger in the upward position.

If the overdrive unit's operating lever is maladjusted so that the solenoid plunger cannot reach the switch plunger, both coils will remain energised as long as overdrive is selected. The closing coil will soon overheat to the point of failure, as it was designed only to be in operation for the fraction of a second it takes for the plunger to open the switch and disconnect the closing coil from the circuit.

Moss Europe cannot accept for return, refund, exchange, or credit, any overdrive solenoid which has been abused electrically or mechanically.

(Verbal abuse of the component is acceptable)



iii. No	Part Number	Description	Qty. Req.	Details
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Overdrive Conversions & Electrics

(All Synchronmesh Gearboxes)

Please call your local Moss branch if you require any help.

An overdrive conversion is among the most useful modifications that can be carried out on your TR. Overdrive provides useful additional gear ratios, for use under all driving conditions. Creeping about in town, the use of 2nd overdrive and 2nd gear, (on A type units only), saves on the continual 2nd to 3rd to 2nd gear changes. It nicely bridges that 2nd to 3rd speed ratio gap.

The 3rd gear gives that little extra help for high speed overtaking when an upward gear change could best be ignored. The 4th gear overdrive provides effortless high-speed cruising improving long distance touring fuel economy.

The A type overdrive unit was fitted as an option to the TR5, TR250 and TR6 (CC/CP series pre 1973) and operates in 2nd, 3rd, and 4th gears. It provides a 22% reduction to the engine speed for a given road speed when engaged. The J type overdrive unit was fitted to TR6 (CR/CF series from 1973), operating on 3rd, and 4th gears only. It provides a 25% reduction to the engine speed for a given road speed when engaged.

Overdrive can be fitted retrospectively and kits were listed accordingly by application: RHD & LHD drive, and early and late mainshaft. These kits were beautifully presented in wooden boxes of generous proportions because they contained a fibreboard replacement gearbox cover. The cover had removable aperture cover plates each side which the standard cover lacked. The right hand one allowed access to the speedometer right angle drive and the left hand one allowed the overdrive solenoid to be viewed. The fact that the right hand seal was in the way of the former and that the latter failed to actually permit adjustment or removal of the solenoid seems strange to current thinking, but that is the way it was. The wooden box would have contained an overdrive unit complete (with solenoid attached), to which was bolted the adaptor plate entrapping the eight disengagement

(Continued on next page)

Ill. No	Part Number	Description	Qty. Req.	Details
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springs, a replacement top cover drilled for two extra selector switches, the relevant mainshaft (pre or post CD20281), speedo cable, the column operating switch and its bezel. There was also a sealed cardboard box containing the small parts such as the right angle drive, two selector switches and adjustment washers, two looms, top cover welch plugs, adaptor plate bolts and washers, the relay, the rear gasket, speedometer drive gear plus screws and fittings. From the introduction of the CR/CF series TRs, J type overdrive became standard fitment on non-USA vehicles. The presentation was much the same for the J type kits with one less selector switch and no relay, of course.

Many years after the last of the TR's rolled off the production line we can still supply everything that you need to convert your TR to overdrive.

The kits and their contents are listed here, gearbox covers must be purchased separately.

'A' Type Overdrive Conversion

(All synchromesh gearboxes)

1	517198	OVERDRIVE CONVERSION KIT	1	RHD
	517197	OVERDRIVE CONVERSION KIT	1	LHD

'J' Type Overdrive Conversion

(All synchromesh gearboxes)

41	521158	OVERDRIVE CONVERSION KIT	1	RHD
	521159	OVERDRIVE CONVERSION KIT	1	LHD

Overdrive & Gearbox Cover

78	713569SAP	GEARBOX COVER, plastic	1	
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The table below details the donor units and combinations of components. The suitable donor units are:

Triumph 2000, 2500, 2.5 Pi, Dolomite Sprint or Stag.

Donor Unit	Input shaft	clutch plate	fork	nose	top cover	clutch cover, bearing & sleeve
TR2000 2500TC 2.5 Pi	retain	use saloon version	change pins for TR	use TR from your Old g/box	same, however if you want Overdrive to operate in	TR
Dolomite Sprint	swap for TR or saloon	use TR plate to suit shaft	same as TR	shorten to 2"	2nd, 3rd & 4th please call.	TR
Stag	swap for TR or saloon	use plate to suit shaft	same as TR	shorten to 2"		TR

Changes to overdrives

A type:

1) If non-TR donor unit is used the operating pressure is wrong and accumulator spring 515131 or 518601 will need to be fitted to correct this.

2) Wrong solenoid bracket, solenoid may foul or strike chassis, part no. 502566 should be fitted, see Overdrive Units & Components on page 103 item 53.

3) Rear flange won't fit TR propshaft, swap for existing TR one from old gearbox, purchase 058948 or 518109. Or weld up and re-drill donor's unit.

4) Speedo will read 'low'. Either recalibrate speedo (information sheet available), or change output shaft/annulus in overdrive. If the output shaft/annulus is changed use your original TR speedo drive pinion and right-angle drive to connect to cable.

5) Rear overdrive casing needs to be changed for a TR variety (part no. 500655). Alternatively use the conversion bracket 104086ADP which, with minor rear casing alterations allows the saloon casing to fit the TR mounting, 104086.

J type:

1) If non-TR donor unit is used fit relief valve NKC36.

2) Fit TR propshaft flange 160292. Or weld up and re-drill donor's unit.

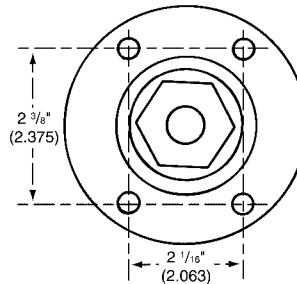
3) Swap speedo gear in overdrive for NKC99 and fit the following components:

120694	ANGLE DRIVE	1
500463	WASHER, sealing	1
NKC48	PINION & GEAR, speedo drive	1
NKC42	SPEEDO DRIVE HOUSING	1
NKC106	O' RING	1
NKC105	OIL SEAL	1
NKC43	RETAINER ASSEMBLY	1
NKC80	SCREW, attaching retainer	1
NKC70	WASHER, locking	1

Ill. No	Part Number	Description	Qty. Req.	Details
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Flange Dimensions

(Flanges 058948, 518109 and 160292)



If any dimensions don't match, it isn't 'TR'

Basics

Whatever you do, you must thoroughly clean the gearbox & overdrive unit, paraffin is best. Remove residue from the magnetic filler plug (if fitted). Clean out overdrive filter. Inspect residue from both and decide what rectification is needed, if any.

Watch those knuckles!

Either type of gearbox from any of the mentioned donors may include a gear lever.

All use longer gear levers that are less cranked than TR ones, so your knuckles may strike the dashboard.

Your choices: refit your TR gear lever, bend the donor's lever and use knob switch, or live with it as it is and use knob switch - and buy a bulk pack of first aid plasters.

Overdrive Conversions

79	TGK100	GEARBOX & OVERDRIVE, A-Type	1	} outright purchase
80	TGK101	GEARBOX & OVERDRIVE, J-Type	1	

Supply donor gearbox, probably ex-saloon (as both Stag and Dolomite Sprint gearboxes are now rarer than TR ones), as removed from vehicle, complete with its overdrive, i.e. complete gearbox, untouched and in 'as seen' condition. Release bearing not included.

81	TGK102	GEARBOX REBUILD & CONVERSION	1	A-Type
82	TGK103	GEARBOX REBUILD & CONVERSION	1	J-Type

Your donor gearbox, fully rebuilt to TR specification, less overdrive, in exchange for your non-TR donor unit wherever it was sourced, preferably untouched, i.e. not dismantled or otherwise tampered with, but clean, drained of oil, and complete with overdrive adaptor plate. Release bearing not included.

83	TGK104	OVERDRIVE, REBUILD & CONVERSION (A-TYPE, overdrive & springs)	1	
84	TGK105	OVERDRIVE, REBUILD & CONVERSION (J-TYPE, overdrive only)	1	

Overdrive: Your donor overdrive rebuilt or exchanged for fully rebuilt unit to TR specification. Adaptor plate not included.

TGK106	FITTING SERVICE, labour only	1	either type
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Fit gearbox to overdrive, either above rebuilt units, or from your own source (which must be clean & oil free). BY PRIOR ARRANGEMENT ONLY.

There are other possible combinations of requirements and additional small parts, such as gaskets and seals which may be necessary to complete your request, so you should discuss these at the time of placing your order. Where two sources of donor units are involved, this may incur special conditions to the warranty on your rebuild/conversion.

Upgraded Overdrives

A-Type Overdrive Upgrading

This is only supplied as a kit to YOUR donor overdrive unit, and built into it.

The unit must be or have been properly rebuilt, as necessary, at the same time, to remove the chance of worn internal components failing. These components might well have survived many more miles under normal use and standard pressure, but they certainly won't under upgraded conditions.

To permit the modifications the donor unit must be of the type which has a large welch plug visible in its base, adjacent to the drain plug. This provides a final pressure outlet for the accumulator which does not have the pressure bleed-off ports which are part of the standard two piece accumulator piston assembly, and which are there to provide the 'cushioned drive'. Cushioning of the drive is not a significant factor on a competition overdrive.

Due to the much more positive engagement this modification should not be considered for 'road' TR's. The kit includes: relined and upgraded cone clutch, a modified unidirectional clutch, a larger accumulator piston, upgraded operating valve, and replacement accumulator springs.

TGK107	OVERDRIVE UPGRADING KIT	1	A-Type
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J-Type Overdrive Upgrading

This is only supplied as a kit.

It requires modifications to the clutch, to which a 'gripper' lining is bonded, the dashpot assembly and the whole Pressure Relief Valve assembly.

An 'old' clutch sliding member is required in exchange for the relined unit supplied.

TGK108	OVERDRIVE UPGRADING KIT	1	J-Type
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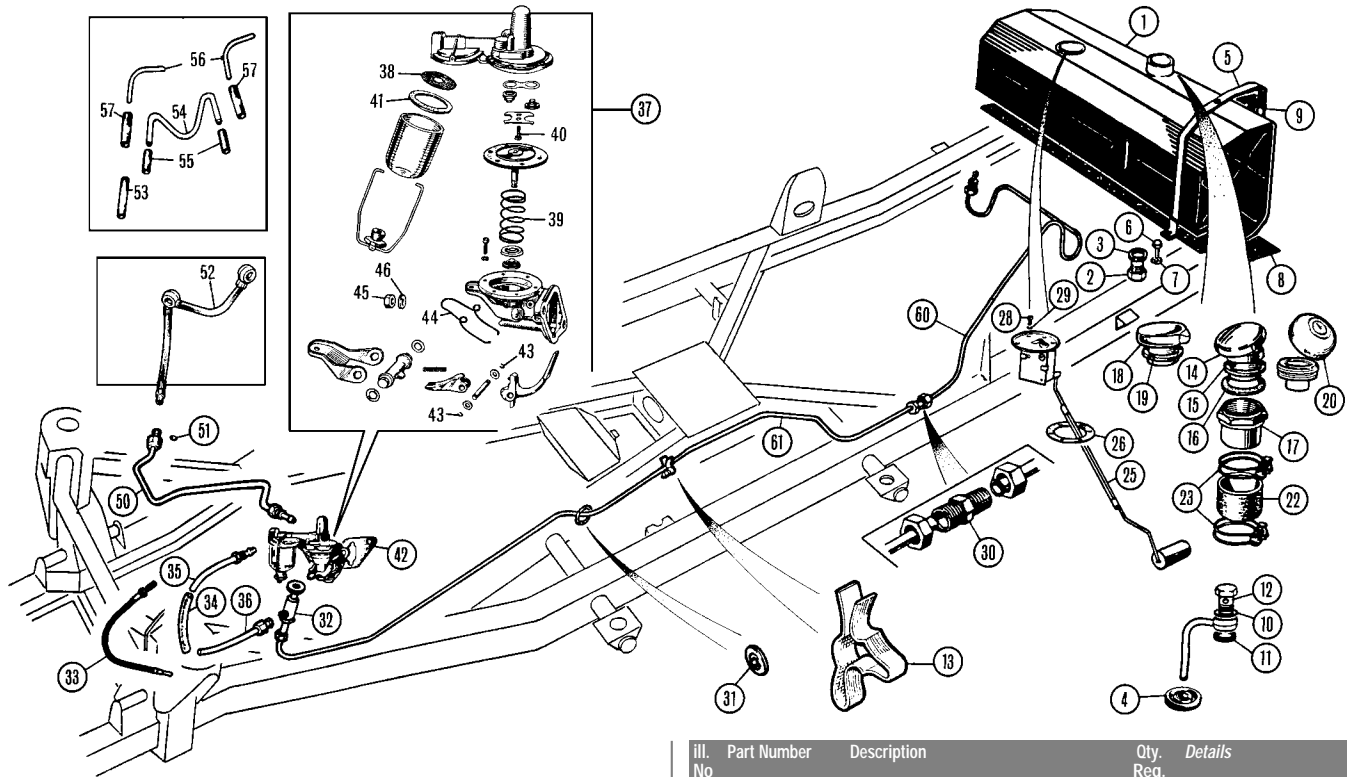
Overdrive Conversion Bracket Kits

85	211361X	BRACKET & FITTING KIT	1
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Allows J type overdrive to fit to A type chassis (TR2 to TR4A) without modification. Comes complete with mounting.

88	104086ADP	BRACKET	1
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Allows a saloon A type overdrive casing to fit the TR mounting, 104086. (minor rear casing alterations are required).



iii. Part Number No	Description	Qty. Req.	Details
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Fuel Tank, Pipe & Pump TR2/TR3/TR3A

See also 'Performance & Tuning' in Accessories.

Lead Additive

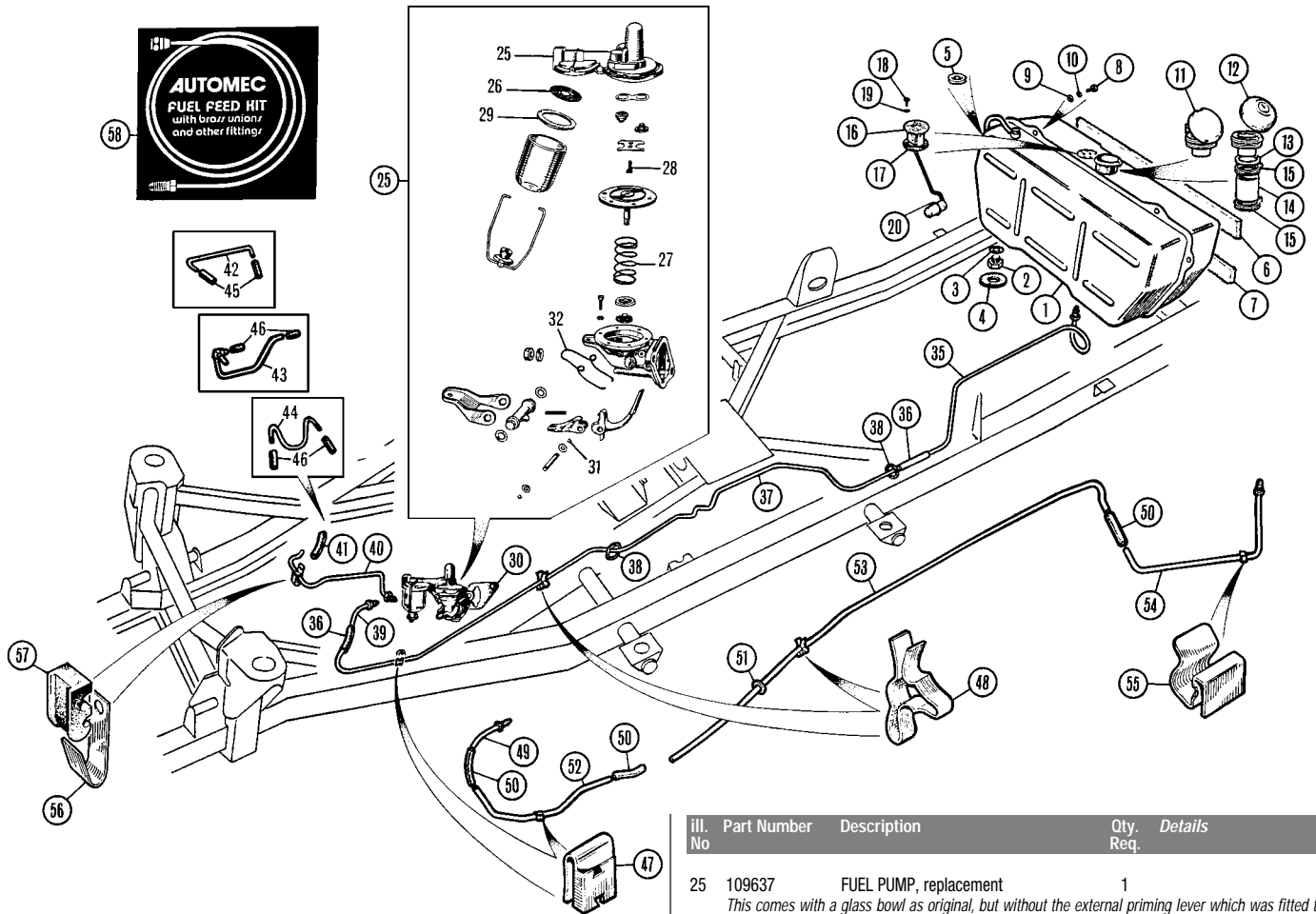
UK TR's were designed to run a high-octane fuel, so to eliminate the possible need to adjust (i.e., retard) ignition an octane booster may also be required.

We stock a lead substitute (endorsed by the 'Federation of Historic Vehicle Clubs') that enables unleaded fuel to be safely used in engines designed for Leaded fuel.

NI	HFFK34	FUEL PIPE KIT (TR2/3/3A)	1	copper, car set	
NI	GAC806	LEAD SUBSTITUTE, 'Superblend'	a/r	500ml.	
1	302125	FUEL TANK	1	TR2/3, TR3 to TS60000 outlet in bottom centre	
	302125AL	FUEL TANK, aluminium	1		
Note: fuel tank 302125 is the smaller capacity fitted as standard to TR3's & TR3A's to TS60000.					
The reduced capacity of approximately half a gallon allows for the fitment of the occasional rear seat option to all TR2/3/3A's.					
	303999	FUEL TANK	1	TR3A from TS60001 outlet at bottom right	
	303999AL	FUEL TANK, aluminium	1		
2	103222	PLUG, drain	1	original tanks only	
3	WF513	WASHER, on drain plug	1		
4	061917	GROMMET, 1/2" hole, vent pipe	1	alternative	
	600395	GROMMET, 1" hole, vent pipe	1	alternative	
5	201864	STRAP, tank retaining	2	TR2/3, TR3 to TS60000	
	203139	STRAP, tank retaining	2		TR3A from TS60001
	204964	STRAP, tank retaining	2		
	206370	STRAP, tank retaining	2	TR3A from TS60001	
6	SH606061	SCREW, hex headed (short)	2	tank strap to chassis	
	SH606101	SCREW, hex headed (long)	2		
7	GHF333	WASHER, locking	4	tank strap to chassis	
8	107562	STRIP, felt, tank base to body	2		
(The tank base felt strips must be trimmed to suit installation)					
9	107563	STRIP, felt, retaining strap to tank	2		
10	AUC2141	WASHER, fibre, upper	1	original tanks	
11	WF525	WASHER, fibre, lower	1		
12	102213	BANJO BOLT, fuel tank vent	1		
13	059191	CLIP	3		
(vent pipe anti-rattle, and fuel line to chassis)					
14	704551	CAP, fuel filler, screw type	1		
15	704551W	ESCUTCHEON, chromed	1		
16		WASHER, fibre	1		
17	704551NECK	EXTENSION, screwed to filler cap	1		
18	613506	CAP, fuel filler, with tube extension	1	alternative to 704551	

If your car is missing the fuel cap, use 613506 (item 18) or 571086 (item 20), regardless of model or chassis number.

19	650247	GROMMET, in rear deck	1	use with items
20	571086	CAP, fuel filler, locking	1	
22	UKC9920	HOSE, rubber, filler to tank	1	(replacement)
23	CS4038	CLIP, wire type	2	original filler hose
	CS4042	CLIP, jubilee type	2	for UKC9920 hose
25	203610R	SENDER UNIT, fuel gauge	1	(exchange part)
26	2H1082	GASKET, seating sender unit	1	
28	TR6504	SCREW, sender unit to tank	6	
29	WF702101	WASHER, locking	6	
30	060172	UNION, fuel line connecting	1	
31	CD23720	GROMMET, fuel line	a/r	through chassis
32	104818	TAP ASSEMBLY, fuel	1	
	104818C	CORK SEAL, in fuel tap	1	
33	104842S	HOSE, stainless steel braided (tap to pump union & nuts)	1	alternative to 34, 35, 36
34	115784	HOSE, flexible, fuel inlet to pipe	1	
35	149556	PIPE, fuel inlet to pump	1	alternative to 33
36	115780	PIPE, fuel tap outlet	1	
If you have nothing here, use the stainless steel braided pipe (part no. 104842S) to provide a connection between the fuel tap and pump.				
37	109637	FUEL PUMP, replacement	1	
This comes with a glass bowl as original, but without the external priming lever which was fitted to the original pumps.				
38	500419	GAUZE	1	
39	052492A	SPRING, under diaphragm	1	
40	59660	SCREW, retaining valve plate	2	
NI	AEU2760A	REPAIR KIT, fuel pump	1	includes diaphragm, valves & gaskets
41	500418	GASKET, sediment bowl	1	
42	139041	GASKET, pump to crankcase	1	
43	052484	'C' CLIP, on pivot	2	
44	052498	SPRING, priming handle	1	
45	GHF201	NUT, pump attachment	2	
46	GHF332	WASHER, pump attachment	2	
50	203121	PIPE, pump to carb. inlet hose	1	use with 203120
	205048	PIPE, pump to carb. inlet hose	1/2	use with 115784
51	TL7	OLIVE	1/2	
52	203120	HOSE, flexible with banjos	1	carb to carb, alternative to items 53-55
53	115784	HOSE, flexible, pipe to front carb	1	
54	120329	PIPE, rigid	1	alternative to item 52
55	120331	HOSE, pipe to carb's	2	
56	121273	PIPE, vent, rigid, to float chamber	2	use with AUC carb's
57	120331	HOSE, flexible, vent pipes to carb's	2	
60	206402	PIPE, fuel, rigid, tank to coupling	1	cut & bend to fit
61	303754	PIPE, fuel, rigid, coupling to fuel tap	1	



iii. Part Number	Description	Qty. Req.	Details
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Fuel Tank, Pipe & Pump TR4/TR4A

See also 'Performance & Tuning' in Accessories.

Lead Additive

UK TR's were designed to run a high-octane fuel, so to eliminate the possible need to adjust (i.e., retard) ignition an octane booster may also be required.

We stock a lead substitute (endorsed by the 'Federation of Historic Vehicle Clubs') that enables unleaded fuel to be safely used in engines designed for Leaded fuel.

NI	GAC806	LEAD SUBSTITUTE, 'Superblend'	a/r	500ml.
1	312359X	FUEL TANK	1	

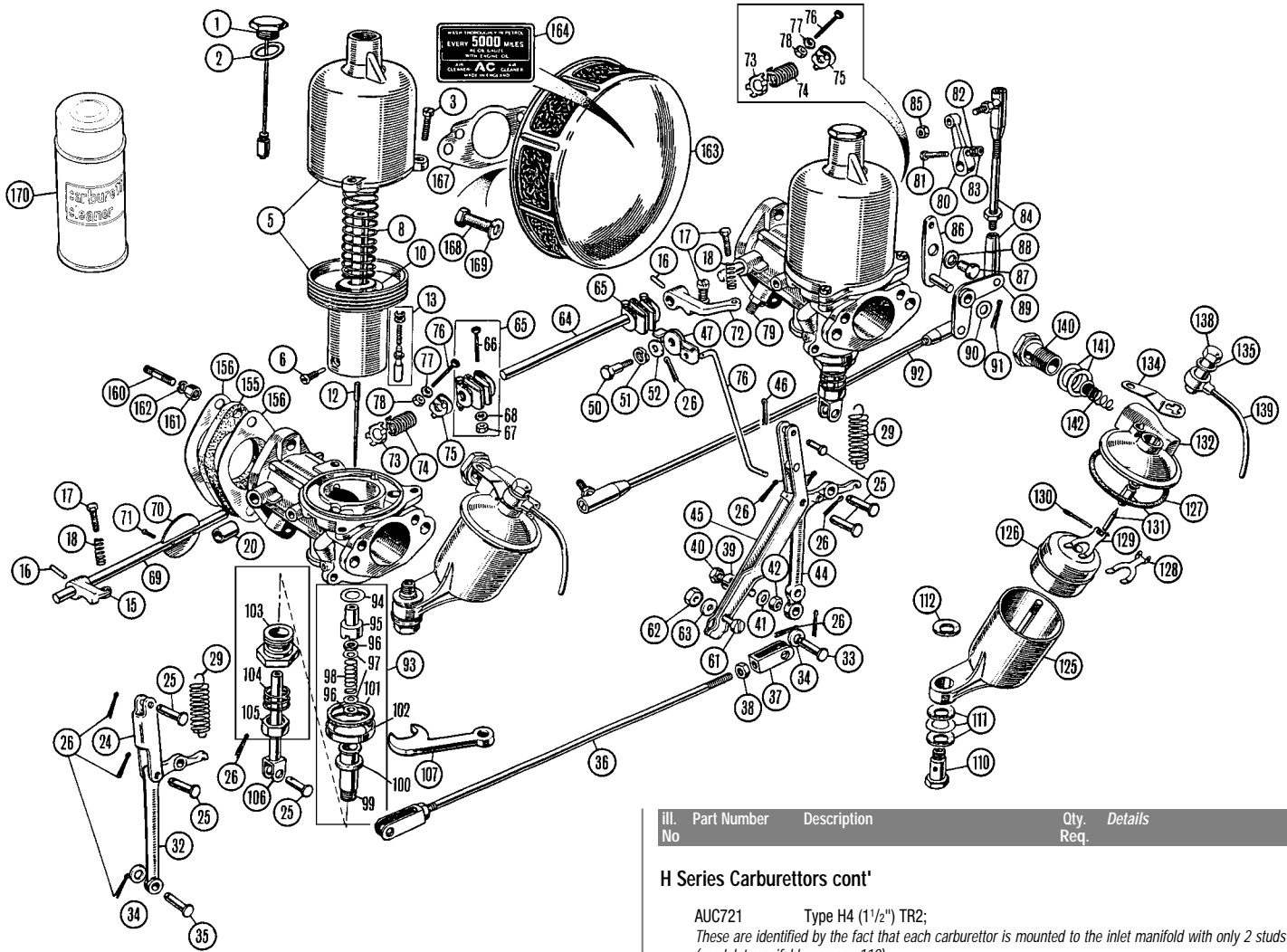
To rationalise fuel tanks for TR4 cars through to TR6, we have produced, in marine quality aluminium, a fuel tank that will suit all applications.

2	103222	PLUG, tank drain	1	
3	WF513	WASHER, fibre, drain plug	1	
4	611733	PAD, drain plug to floor	1	
5	061917	GROMMET, 1/2" hole, vent pipe	1	alternatives
	600395	GROMMET, 1" hole, vent pipe	1	
6	611972	FELT, anti-rattle, upper	1	
7	611973	FELT, anti-rattle, lower	1	
8	GHF101	SCREW	6	
9	WP120	WASHER, plain	6	
10	GHF331	WASHER, locking	6	
11	613506	CAP, fuel filler	1	
12	571086	CAP, fuel filler, locking	1	
13	650247	GROMMET, fuel cap	1	
14	UKC9920	HOSE, rubber, filler to tank	1	replacement
15	CS4038	CLIP, wire type	2	for original filler hose
	CS4042	CLIP, jubilee type	2	for UKC9920 hose
16	208209R	SENDER UNIT, fuel gauge	1	(Smiths no: TF1002/097)
	209195R	SENDER UNIT, fuel gauge	1	(Smiths no: TF1002/500)
	214465	SENDER UNIT, fuel gauge	1	alternative

As a replacement for the original fuel sender units, we have found the use of the TR5 & TR6 item fully satisfactory. For those owners without a complete unit for exchange we recommend you order 214465.

17	2H1082	GASKET	1	
18	TR6504	SCREW	6	
19	WF505	WASHER, fibre	6	
20	139908	RING, anti-rattle	1	TR4A

iii. No	Part Number	Description	Qty. Req.	Details
25	109637	FUEL PUMP, replacement	1	
		<i>This comes with a glass bowl as original, but without the external priming lever which was fitted to the original pumps.</i>		
26	500419	GAUZE	1	
27	052492A	SPRING, under diaphragm	1	
28	059660	SCREW, valve plate retaining	2	
	AEU2760A	REPAIR KIT, fuel pump	1	
29	500418	GASKET, sediment bowl	1	
30	0139041	GASKET, fuel pump to crankcase	1	
31	052484	'C' CLIP, on pivot	2	
32	052498	SPRING, priming handle	1	
35	208495	PIPE, tank outlet	1	
36	115784	CONNECTOR, fuel pipe	2	
37	303754	PIPE, intermediate	1	TR4
38	CD23720	GROMMET	2	
39	149556	PIPE, pump inlet	1	
40	305995	PIPE, pump outlet to carb's (1/4")	1	
	205048	PIPE, pump outlet to carb's (5/16")	1	TR4A
41	115784	CONNECTOR, pipe to carb	1	
42	120329	PIPE, carb to carb	1	TR4 H6 carburettors
43	136489	PIPE, carb to carb	1	TR4/4A Stromberg carb's
44	145124	PIPE, carb to carb	1	TR4A HS6 carburettors
45	120331	CONNECTOR, pipe to carb	2	TR4 H6 carburettors
46	115784	CONNECTOR, feed pipe to carb	1	TR4A Stromberg carb's
	120331	CONNECTOR, feed pipe to carb	1	TR4A HS6 carburettors
47	130882	CLIP, pipe to hose bracket	1	TR4/4A
48	059191	CLIP, pipe to frame	4	
49	143746	PIPE, pump inlet	1	
50	115784	CONNECTOR, fuel pipes	3	TR4A
	CD23720	GROMMET	3	
52	1212515	PIPE, pump inlet to intermediate	1	early TR4A
	212799	PIPE, pump inlet to intermediate	1	late TR4A
53	307378	PIPE, intermediate	1	early TR4A
	307532	PIPE, intermediate	1	late TR4A
54	307370	PIPE, tank to connector	1	early TR4A
	143846	PIPE, tank to connector	1	late TR4A
55	611793	CLIP, pipe to frame	1	TR4A alternative
	616312	CLIP, pipe to frame	1	
56	133072	CLIP, pipe to thermostat housing	1	TR4/4A
57	133083	INSULATOR, rubber, pipe to clip	1	
58	HFFK35	FUEL PIPE KIT (SU HS6 carb's)	1	copper, car set
	HFFK36	FUEL PIPE KIT (Stromberg carb's)	1	



iii. Part No	Part Number	Description	Qty. Req.	Details
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SU Carburettor Introduction

SU carburettors have been a part of the British car scene since the late 1920's. The modern trend of fitting fuel injection has considerably diminished the demand for carburettors, which during the 70's & 80's struggled to keep up with the demands of legislation for ever increasing sophistication in the 'management of fuel', in both its burnt & un-burnt state. Nevertheless, for nearly half a century SU carburettors provided a very efficient and, in their basic design, a very simple way of providing the correct fuel/air mixture for cars.

When you read the following sections on H4, H6 and HS6 SU carburettors I hope you will be as surprised and amazed as we have been during the compilation of this section.

SU have carried out an excellent job of making sure that even the oldest TR carburettor, produced in 1953 for the TR2, is still essentially completely re-buildable today.

SU and, more latterly, our friends at Burlen Fuel Services have worked extremely hard to ensure continuing availability of almost every single service component for this range of carburettors.

Obviously, SU did a considerable amount of development over the years, but however it happened, their policy on servicing the replacement parts has made our job much easier.

It goes without saying that dropping your carburettors, and thereby cracking the bodies, or running your car over them, or probably the most common problem of having 'lost them' through someone putting a 'much nicer' carburettor (such as Weber) on, will mean that your chances of getting your TR back to original specification are severely diminished. There are still a large number of these carburettors around and the same basic design was used on many 50's & 60's cars, this could provide a source of old units which you could then recondition, following the guidance and parts listings in this catalogue. (Incidentally, if you think losing your carburettors and finding old units is a problem, you will realise that this pales into insignificance with a request from a customer in Portugal who came across the owner of a TR6 looking for a replacement engine. He is unfortunately not able to embark on any exchange schemes for an engine as his car is fitted with a Escort 1300 engine and gearbox. Now that's when you have got problems!)

We hope you enjoy reading the carburettor section, and we think you will be convinced that almost no matter what has befallen your carb's in the past, it is not beyond your capability to use those parts which are available to restore your carburettors to 'as new condition'.

H Series Carburettors

These carburettors originally had triangular aluminium tags on the float bowl lid. These tags were stamped with the SU identification number for that specific carburettor installation. For simplicity, we use these numbers found on the tags in our application column. If your carburettor tags are missing, use the information here (with our illustration) to identify your carburettors. The dimensions 1 1/2" and 1 3/4" are measured at the throttle disc end of the carburettor body, as opposed to the air/fuel passage where the air filter is fitted.

iii. Part No	Part Number	Description	Qty. Req.	Details
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H Series Carburettors cont'

AUC721 Type H4 (1 1/2") TR2;
These are identified by the fact that each carburettor is mounted to the inlet manifold with only 2 studs (see inlet manifolds on page 118)

AUC786 Type H6 (1 3/4") TR3 to approx. end of 1958;
Each carb' is attached to the inlet manifold by four studs. The float chamber on this application has the 'banjo' type fitting - shown on page 111 with illustration numbers 133 to 142.

AUC878 Type H6 (1 3/4") TR3A from approx. 1959, TR3B and TR4 to CT21470;
Each carburettor is attached to the inlet manifold by four studs. The float chamber on this later carb' has the fuel inlet pipes joined to the carburettor by a 'push-on' piece of rubber. This system is shown on page 111 with illustration numbers 145 to 149.

HS6 Series Carburettors (TR4A)

These carburettors are a development of the H6 as fitted to the TR3A & early TR4. They use more up-to-date technology and generally improved design, though the principles of operation remain basically unchanged. The jet design in particular was changed. Although never acknowledged in the Triumph parts books, SU specified two different carburettors for European (AUD209) and for USA specification vehicles (AUD284).

Carburettors & Components (TR2) (H4)

	AUC721T	CARBURETTORS (pair), new	1pr	
	AUC721R	CARBURETTORS (pair), recon'	1pr	(exchange)
1	AUC8103HB	DAMPER & CAP, brass	2	
	AUC8103A	DAMPER & CAP, plastic	2	

AUC8103HB is a brass capped damper assembly as fitted originally to TR2's.
AUC8103A is the 'modern' replacement plastic capped damper.

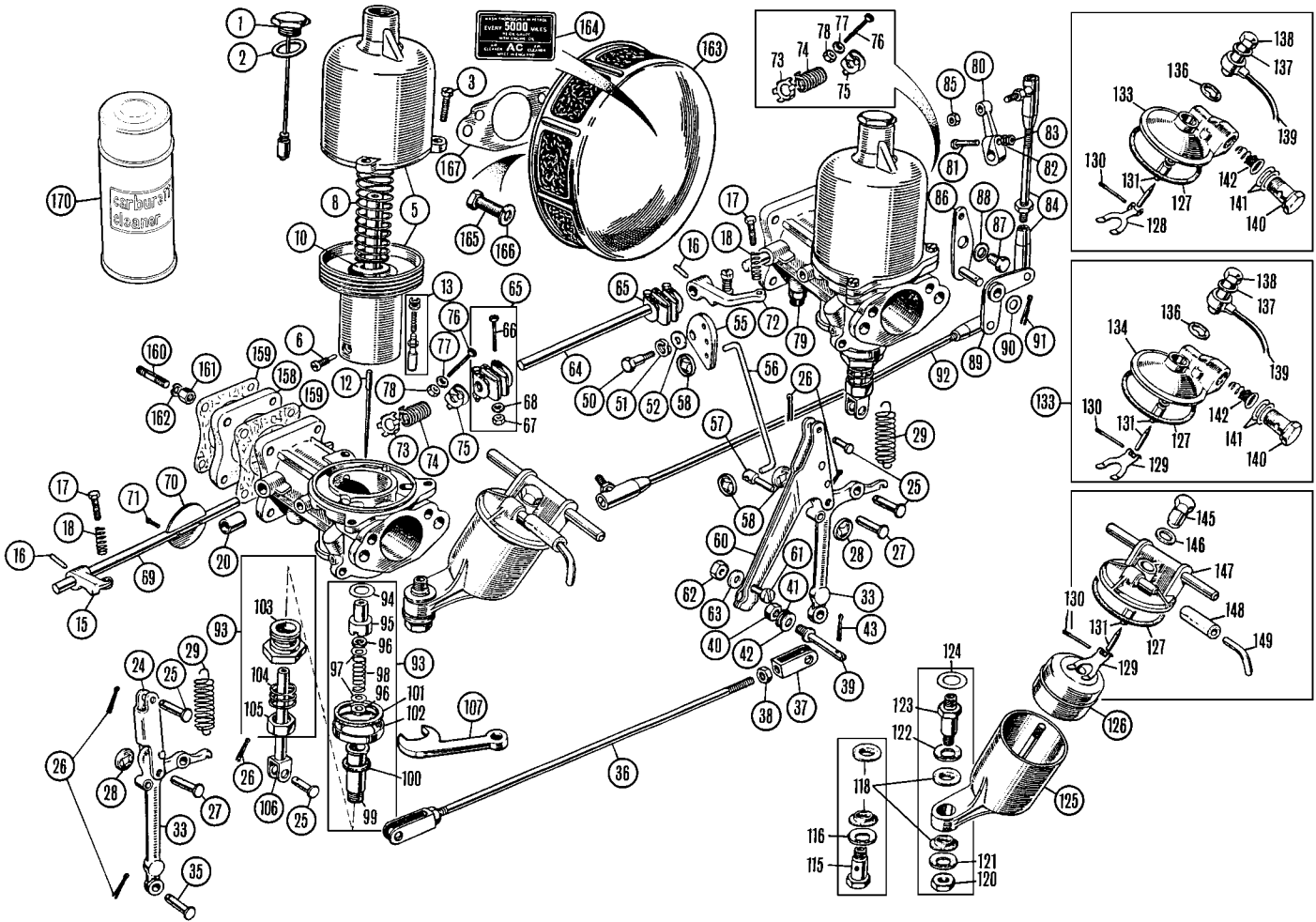
2	AUC4900A	WASHER, fibre	2	
3	JZX1394	SCREW, chamber to body	6	
5	AUC8019	CHAMBER & PISTON	2	
6	AUC2383	SCREW, needle locking	2	
8	AUC4387*	SPRING, piston return, red	2	
10	AUC3071	THRUST WASHER	2	
12	AUD1201*	NEEDLE, jet, std. (FV)	2	

SU offered two different needles as standard for the TR2 (H4 SU's), but Triumph rationalised them in 1954 to the FV specification, which we supply under part number AUD1201.

Ill. No	Part Number	Description	Qty. Req.	Details
13	WZX1105	PIN & SPRING	2	<i>c/w circlip & washers</i> <i>This is called the 'tickle pin' in the Triumph parts book, it is used to lift the piston whilst tuning the carb's.</i>
15	AUC2189	STOP, throttle, rear carb	1	
16	AUC2106	PIN, tapered	2	
17	AUC2521	SCREW, idle adjusting	3	
18	AUC2451	SPRING, idle screws	3	
20	AUD3080	BUSH, throttle shaft (in carb' body)	4	<i>(These bushes require machine shop installation. See Technical Tips on page 116)</i>
24	AUC3419	LINK, jet lever, rear carburettor	1	
25	AUC2381	CLEVIS PIN, link & jet	6	
26	GHF500*	SPLIT PIN	10	
29	AUC4667	SPRING, jet lever return	2	
32	AUC3346	LEVER, jet, rear carburettor	1	
33	AUC5074	CLEVIS PIN, rod to front lever	1	
34	AUC8396	WASHER, plain	a/r	
35	AUC2108	CLEVIS PIN, rod to rear lever	1	
36	AUC3435	ROD, jet connecting	1	
37	AUC2256	FORK, rod end	2	
38	AJD8012Z	LOCK-NUT (2BA)	2	
<i>We have manufactured the 'jet connecting link' in the manner that the SU Carburettor Co. illustrated it in their technical literature. Triumph showed a 'rod & fork end' to give adjustment at one end only. We have made a replacement as illustrated here with a rod threaded at both ends, with forks and lock nuts supplied separately.</i>				
39	058997	TRUNNION, cable clamping	1	
40	HU503	SCREW, trunnion	1	
41	WC702101	WASHER, plain	1	
42	GHF220	NUT	1	
44	AUC3234	LEVER, jet, front carb	1	
45	AUE63	LINK, front jet lever	1	
46	AUC4853	LINK, jet lever to fast idle lever	1	
47	AUC3502	LEVER, fast idle	1	
50	AUC3471	BOLT, pivot	1	
51	AJD7722	WASHER, 'Thackery'	1	
52	AUC4848	WASHER, plain	1	
61	AUB660	BOLT, clamp	1	
62	AJD8012Z	NUT (2BA)	1	
63	WL700101	WASHER, locking	1	
64	AUC1462	ROD, coupling	1	
<i>Coupling rod AUC is actually an MG-B part (wash my mouth!). It is 3 1/4" long & needs to be cut to the approx. length for the TR2, which is 3 3/16". Please use this length as a 'rough guide', & cut to suit your car.</i>				
65	AUE75	COUPLING ASSEMBLY	2	<i>includes; bolt, nut & washer</i>
66	AUC2669	BOLT	4	
67	AJD8014Z	NUT	4	
68	AUC4612	WASHER	4	
69	AUC3242*	THROTTLE SHAFT, standard	2	
	AUC3242RP	THROTTLE SHAFT, oversize	2	
70	WZX1323*	THROTTLE DISC, 1 1/2" carb's	2	<i>includes screws</i>
71	AUC1358	SCREW, throttle disc	4	
72	AUC3437	THROTTLE STOP, front carb	1	
73	AUC4770	ANCHOR PLATE, spring	2	
74	AUC4782	SPRING, throttle return	2	
75	AUC4771	CLIP, return spring	2	
76	AUC2669	BOLT, (for clip AUC4771)	2	
77	AUC4612	WASHER, locking	2	
78	AJD8014Z	NUT	2	
79	AUC5100	UNION, vacuum advance	1	<i>on front carburettor</i>
80	AUE180	LEVER, throttle shaft (1 1/4")	1	
	AUC1200	LEVER, throttle shaft (1")	1	
81	AUC2694	BOLT, for lever	1	
82	AUC4612	WASHER, locking	2	
83	AJD8014Z	NUT	2	
84	148496	LINK ROD, vertical (short)	1	
85	JN2107	NUT, short rod to throttle shaft lever	1	
86	106759	PIVOT, bellcrank	1	
87	SH605061	SET SCREW	1	<i>bellcrank lever to manifold</i>
88	GHF332	WASHER, locking	1	
89	106756	LEVER, bellcrank	1	
90	GHF301	WASHER, plain	1	
91	GHF500	SPLIT PIN	1	
92	106764	LINK ROD, horizontal (long)	1	
93	WZX1593*	BEARING KIT, jet	2	<i>(includes items 94 to 105 for one carb.)</i>
94	AUC2122	WASHER, copper, upper	2	
95	AUC3230	BEARING, (jet), upper	2	
96	AUC2120	SEAL, cork	4	

Ill. No	Part Number	Description	Qty. Req.	Details
97	AUC2119	WASHER, cupped	4	
98	AUC1158	SPRING, jet gland	2	
99	AUC3231	BEARING, (jet), lower	2	
100	AUC3233	WASHER, copper, lower	2	
101	AUC2118	SEAL, cork	2	
102	AUC2117	RING, sealing (aluminium)	2	
103	AUC3232	NUT, sealing	2	
104	AUC2114	SPRING, mixture nut	2	
105	AUC2121	NUT, mixture adjusting	2	
106	WZX1595*	JET ASSEMBLY KIT	2	<i>(includes items 96, 101, 102 for one carb.)</i>
107	AUD2693	SPANNER, jet adjusting	1	
110	AUC1541	BOLT, shouldered	2	
111	AUE6	WASHER KIT (2 fibre & 1 steel)	2	
112	AUC2130	WASHER, steel	2	
<i>The shouldered bolt is 'nipped' when tight, to compress the fibre washers which are designed to provide a fuel proof seal (dream on!). The steel washer between the two fibre washers provides a low friction point to allow minor movement between the float chamber and the carburettor body.</i>				
<i>Although the above parts are available at the time of writing this catalogue, we would still recommend using the mounting method on AUC786 H6 type carburettors on pages 110/111.</i>				
125	AUC3495	FLOAT CHAMBER	2	
126	WZX1303	FLOAT, (includes gasket)	2	
127	AUC1147A*	GASKET, float chamber lid	2	
128	AUC1980	LEVER, float (for original lids)	2	
129	AUD2285	LEVER, float (for new lids)	2	
130	AUC1152*	PIN, lever pivot	2	
131	WZX1101A	NEEDLE & SEAT	2	
	GAC9201X	GROSE-JET	2	<i>see page 116</i>
<i>Superior replacement for standard needle & seat. Highly recommended.</i>				
132	AUE255	FLOAT LID ASSEMBLY	2	
	AUE479	FLOAT LID	2	
<i>The float lid on carburettor AUC721 had a fuel input from the engine side and utilised a front lid - which is no longer available. It also used the early float lever (AUC1980, item 128), and is now replaced with lid AUE479, which uses the later float lever (AUC2285, item 129). We can currently offer a complete assembly for this float lid (with the AUC2285 type lever) under part number AUE255.</i>				
129	AUD2285	LEVER, float (for new lids)	2	
130	AUC1152	PIN, lever pivot	2	
131	WZX1101A*	NEEDLE & SEAT	2	
134	AUC4998	ARM, float chamber support	2	
135	AUC2246	WASHER, fibre	2	
<i>Items AUC4998 & AUC2246 were fitted to the AUC721 carburettor only. If you followed our advice (and you'd be a fool not to) and replaced the fibre washer mounting on your float bowl with the rubber grommet type (part no. AUC1534, item 118, page 20), then we recommend you disconnect the AUC4998 float chamber support arm from the dashpot securing screw to allow it to flex.</i>				
<i>On the AUC786 the AUC4998 is replaced by a fibre washer (AUC1928).</i>				
138	AUC1867	BANJO BOLT	2	
139	AUC1866	PIPE, float chamber vent	2	
140	AUC2698	BANJO BOLT, fuel line to lid	2	
141	AUC2141	WASHER, fibre	4	
142	AUC2139	FILTER	2	
155	AHH5713	INSULATING BLOCK	2	<i>carburettor to manifold</i>
<i>AHH5713 is virtually a direct replacement for the Triumph part no. 102485. It is in fact, an MG-A part (sorry, nobody's perfect), but is slightly different, and therefore should only be used for a TR2 application if fitted in pairs.</i>				
156	AEH551*	GASKET, carb' to manifold	4	
160	058917	STUD, carb' to manifold	4	
161	056675	NUT (steel), carb' to manifold	4	
	108951	NUT (brass), carb' to manifold	4	
162	GHF333	WASHER, locking	4	
163	107356	AIR CLEANER	2	
164	CRTR212	DECAL, air cleaner	2	
167	12G2125*	GASKET, air cleaner to carburettor	2	
168	SH605071	SET SCREW, air cleaner to carburettor	4	
169	GHF332	WASHER, locking	4	
170	MRD1023	SPRAY CLEANER	1	
Carburettor Gasket Kits & Rebuild Kit				
	AUE801A	GASKET KIT, 'Major'	2	<i>per carburettor</i>
<i>(Includes mounting gaskets)</i>				
	AUE	GASKET KIT, 'Minor'	1	<i>for two carburettors</i>
	GAC6102X	REBUILD KIT	1	<i>for two carburettors</i>
<i>(includes all items marked*)</i>				

110 | H6 SU Carburettors TR3/3A & TR4



iii. Part Number No	Description	Qty. Req.	Details
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H6 SU Carburettors & Air Cleaners TR3/3A & TR4 Models

AUC786T	CARBURETTORS, New	1pr	TR3 to end of 1958
AUC787T	CARBURETTORS, New	1pr	TR3A from 1959, and TR4 to CT21470
AUC786R	CARBURETTORS, recon/exch.	1pr	TR3 to end of 1958
AUC787R	CARBURETTORS, recon/exch.	1pr	TR3A from 1959, TR4 to CT21470

SU HS6 Carburettor Conversion (All models except TR2)

See page 114 for illustration, and Performance & Tuning in Accessories for K&N sports air filters.

NI TT1156	CARBURETTOR SET, SU HS6, pair	1	new
NI TT1261	LINKAGE KIT, HS6 conversion	1	
NI 148496	THROTTLE ROD	1	
NI TT9941	BALL JOINT, throttle rod end	2	original type
NI TT9941Z	BALL JOINT, throttle rod end	2	alternative
NI 218410	THROTTLE SUPPORT BRACKET	1	
NI 148490	BELLCRANK	1	
NI 307455	MANIFOLD, inlet	1	

(long curved tubes with tapping for 'PCV' valve)

'PCV' is an abbreviation for 'Positive Crankcase Ventilation' valve (see page 117)

The History (& TR5/TR6 Background) of this Conversion

During the 1980s particularly, due in no small part to the rising cost of fuel, but mostly to the challenges the Lucas Pi system created yet another at TR5s and TR6s, (whose owners always seemed to be putting their hands in pockets to bale out on the other breakdown), many turned to carburettor conversions. Some fearful of losing performance opted for twin choke set-ups. A small number toyed with Strombergs and probably regretted the choice. Most chose SU conversions: so popular did this choice become that SU themselves produced a very comprehensive kit, but unfortunately it utilised only 1 1/2" carburettors rather than the 1 3/4" the 2500cc engines needed. This mis-judgement was rapidly cashed in on by TR specialists. All the Pi cars use cable operation, and the official SU linkage finishes at the throttle lever, (*illustration, no 16). To connect the cable to the lever is very simple. Support bracket 218410 is required, (*illustration, no 19), which fits between the lower inner left & right carb. fixings. Before fitting this bracket, place it in a vice and make two hacksaw cuts about 1/2" deep, approx. 3/4" apart. Bend this section at 90 degrees to the rest of the bracket. Now drill a 1/4" hole in the bent part and deburr it. Make one more saw cut to enable the cable to pass through, and you now have your lower cable location. This should be directly underneath the throttle lever, which itself may be adjusted left, or right, as necessary. Remember to leave a little slack in the cable, which may be fixed using the Pi clevis and split pin. Correctly fitted & adjusted, a standard set-up should return the kind of fuel economy for which earlier 4 cyl TR's were famous; 30+ mpg, which definitely makes very happy motoring, and over 300 miles on a TR tank full! (*Please refer to page 114 for illustrations & Itemised listings)

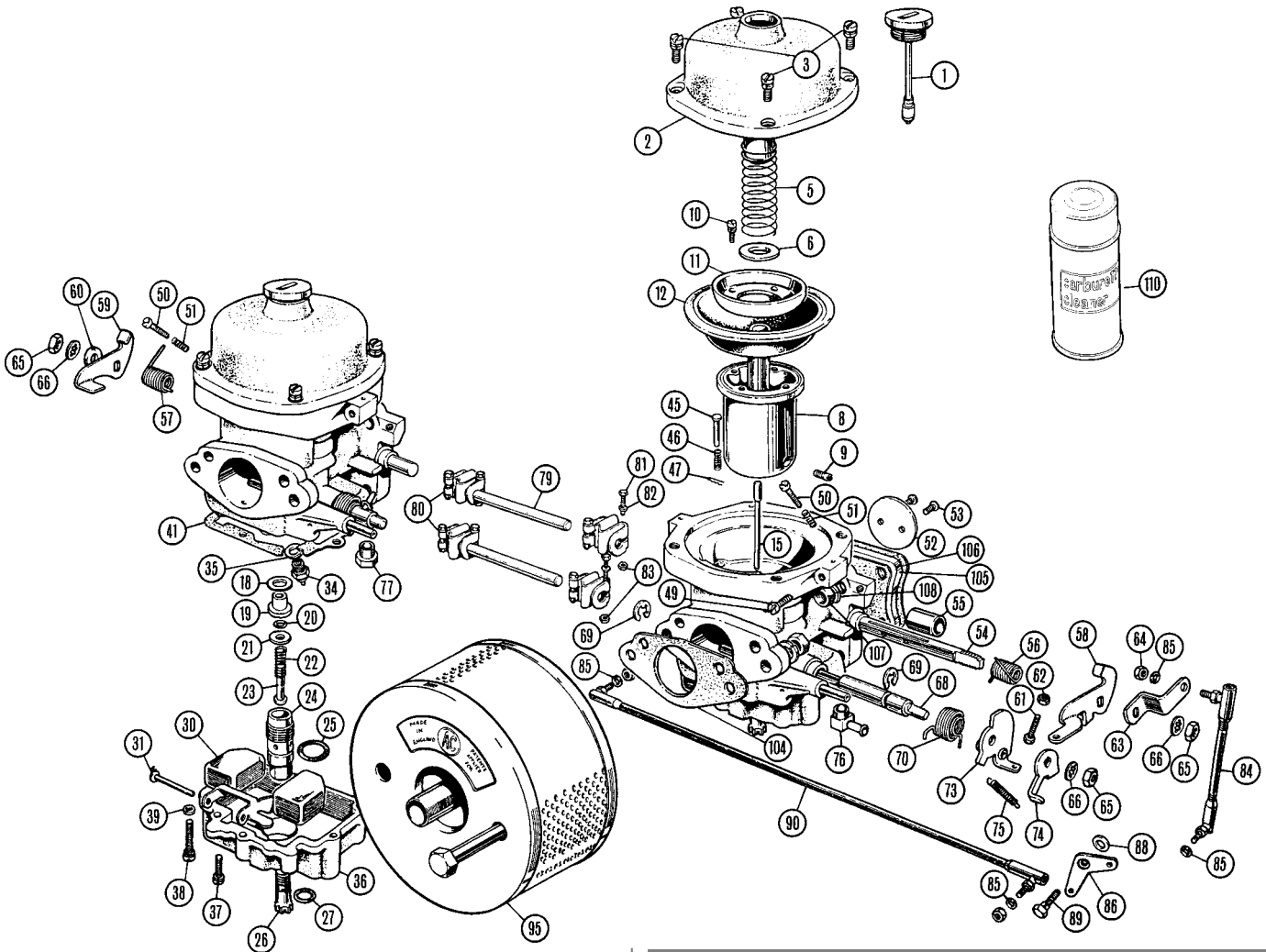
iii. Part Number No	Description	Qty. Req.	Details
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NI TT12561	ADAPTOR PLATE KIT	1	This adaptor plate kit allows 1 1/2", 1 3/4" and 2" SU & Stromberg carburettors to be 'rubber' mounted to the manifold. Why bother you may ask? Engine vibration - especially under hard acceleration, will normally be transmitted to the float chambers, severely reducing the ability of the float needle to seat properly and cause flooding, possibly even blowing fuel backwards into the cockpit. Rubber insulating the carburettors will stop this. Our kit contains 2 mounting plates, 2 insulator rubbers (part No TKC1338, which are also available separately), mounting bolts, gaskets & Loctite 'studloc'.
NI TKC1338	INSULATING RUBBER, carburettor	2	
1 AUC8102HB	DAMPER & CAP	2	
AUC8102A	DAMPER & CAP	2	AUC8102HB is a brass capped version of the damper assembly as fitted originally to TR3 & TR4 equipped with H6 carburettors. AUC8102A is the 'modern' replacement plastic capped damper. Some TR4's may have had plastic caps as alternatives to the brass ones.
2 AUC4900A	WASHER, fibre	2	
3 JZX1394	SCREW, chamber to body	6	
5 AUC8054	CHAMBER & PISTON	2	
6 AUC2468	SCREW, needle locking	2	
8 AUC4387*	SPRING, piston return, (Red)	2	
10 AUC3071	THRUST WASHER	2	The Triumph parts book lists three needles as standard, TD, TE and SM, but eventually Triumph rationalised to supplying SM only. We however recommend the following needle specs for rich, standard and lean as follows:
12 AUD1291	NEEDLE, jet, rich (RH)	2	
AUD1328*	NEEDLE, jet, std. (SM)	2	
AUD1327	NEEDLE, jet, lean (SL)	2	
It should be noted that these needles were also recommended for TR4 applications with the 2138cc engine.			
13 WZX1105	LIFT PIN & SPRING	2	c/w circlip & washers
15 AUC2198	THROTTLE STOP, rear carb	1	
16 AUC2106	PIN, tapered	2	
17 AUC2521	SCREW, idle adjusting	3	
18 AUC2451	SPRING, idle screws	3	
20 AUD3080	BUSH, throttle shaft (in carb' body)	4	These bushes require machine shop installation. See Carburettor Technical Tips on page 116.
24 AUC4819	LINK, jet lever, rear carburettor	1	
25 AUC2381	CLEVIS PIN, link & jet	6	with hole for split pin, item 26

H6 SU Carburetors - TR3/3A & TR4 | 111

Ill. No	Part Number	Description	Qty. Req.	Details
26	GHF500	*SPLIT PIN	6	
<i>On some applications this filament is as above where all clevis pins were secured with a split pin.</i>				
<i>On other applications, (we know many exist but don't know any change points) there were four clevis pins secured by split pins and two, which were not drilled, secured by 'star' washers.</i>				
25	AUC2381	CLEVIS PIN, link & jet	4	with hole for split pin, item 26
26	GHF500*	SPLIT PIN	4	
27	AUC5009	CLEVIS PIN, lower end of link	2	
<i>(without hole, used with star-lock washer, item 28)</i>				
28	AUC5004	STAR-LOCK WASHER	2	
29	AUC4667	SPRING, jet lever return	2	
33	AUC1029	LEVER, jet, front & rear carb's	2	
35	AUC2108	PIN, rod to rear lever	1	
36	AUC3435	ROD, jet connecting	1	
37	AUC2256	FORK, rod end	2	
38	AJD8012Z	LOCKNUT (2BA)	2	
<i>We have manufactured the 'jet connecting link' in the manner that the SU Carburettor Co. illustrated it in their technical literature. Triumph showed a 'rod and fork end' to give adjustment at one end only. We have made a replacement as illustrated here with a rod threaded at both ends, with forks and lock nuts supplied separately.</i>				
39	113454	PIN, cable clamp	1	
40	AJD8204Z	NUT	1	
41	AUC1130	WASHER, plain	1	
42	WL700101	WASHER, locking	1	
43	GHF500	SPLIT PIN	2	
50	AUC3471	BOLT, pivot	1	
51	AJD7722	WASHER, locking	1	
52	AUC4848	WASHER	1	
55	AUC4730	CAM, fast idle	1	
56	AUC5535	LINK, jet lever to cam	1	
57	AUC5011	SWIVEL PIN	1	
58	AUC5002	SPRING NUT, swivel pin & link rod	3	
60	AUE55	LINK, front jet lever	1	includes items. 61, 62, & 63
61	AUB660	BOLT, clamp	1	
62	AJD8012Z	NUT, 2BA	1	
63	WL700101	WASHER, locking	1	
64	AUC2414	ROD, coupling	1	
65	AUE75	COUPLING ASSEMBLY	2	includes 2 each of 61, 62, & 63
66	AUC2669	BOLT	4	
67	AJD8014Z	NUT	4	
68	AUC4612	WASHER	4	
69	AUC4284*	THROTTLE SHAFT, standard	2	
	AUC4284RP	THROTTLE SHAFT, oversize	2	
70	WZX1321*	THROTTLE DISC (1 3/4" carb's)	2	includes screws (AUC1358)
71	AUC1358	SCREW, throttle disc	4	
72	AUC5049	THROTTLE STOP, front carb	1	
73	AUC4770	ANCHOR PLATE, spring	2	
74	AUC4782	SPRING, throttle return	2	
75	AUC4771	CLIP, return spring	2	
76	AUC2669	BOLT, for clip	2	
77	AUC4612	WASHER, locking	2	
78	AJD8014Z	NUT	2	
79	AUC5100	UNION, vacuum advance	1	on front carburettor
80	AUC1200	LEVER, throttle shaft	1	
81	AUC2694	BOLT, for lever	1	
82	AUC4612	WASHER, locking	2	
83	AJD8014Z	NUT	2	
84	148496	LINK ROD, vertical (short)	1	
85	JN2107	NUT, short rod to throttle shaft lever	1	
86	112854	PIVOT, bellcrank	1	
87	SH605061	SET SCREW	1	bellcrank lever to manifold
88	GHF332	WASHER, locking	1	
89	106756	LEVER, bellcrank	1	
90	GHF301	WASHER, plain	1	
91	GHF500	SPLIT PIN	1	
92	106764	LINK ROD, horizontal (long)	1	
93	WZX1593*	BEARING KIT, jet,	2	
<i>(includes items 94 to 105 for one carb.)</i>				
94	AUC2122	WASHER, copper, upper	2	
95	AUC3230	BEARING, jet, upper	2	
96	AUC2120	SEAL, cork	4	
97	AUC2119	WASHER, cupped	4	
98	AUC1158	SPRING, jet gland	2	
99	AUC3231	BEARING, jet, lower	2	
100	AUC3233	WASHER, copper, lower	2	
101	AUC2118	SEAL, cork	2	
102	AUC2117	RING, sealing (aluminium)	2	
103	AUC3232	NUT, sealing	2	
104	AUC2114	SPRING, mixture nut	2	
105	AUC2121	NUT, mixture adjusting	2	

Ill. No	Part Number	Description	Qty. Req.	Details	
106	AUC8183*	JET ASSEMBLY (0.100")	2		
107	AUD2693	SPANNER, jet adjusting	1		
<i>The method of mounting the float chamber to the carburettor body varies according to carb. type as follows:</i>					
AUC786 H6 TR3/3A, Ceased mid 1958 (we think)					
115	AUC1335	BOLT, shouldered	2	AUC786	
116	AUC1337	WASHER, cupped steel	2		
118	AUC1534	GROMMET, shouldered, rubber	4		
<i>This mounting system uses shouldered rubber grommets which provide the necessary flexibility and sealing combination, and is superior to the TR2 type. You may not realise, but the technology at this time had only just been developed allowing rubber to be used in these fuel environments, that were at the time considered 'unfriendly'.</i>					
AUC786 H6 TR3/3A/3B, TR4, mid 1958 on					
118	AUC1534	GROMMET, shouldered, rubber	4	AUC878	
120	AJD8206Z	NUT	2		
121	AUC1388	WASHER, flat, steel	2		
122	AUC1389	WASHER, flat, steel	2		
123	AUC1387	STUD, float bowl mounting	2		
124	AUC1384	WASHER, fibre	2		
<i>(We still don't know why this system was introduced. Anybody got any ideas?)</i>					
125	AUC3495	FLOAT CHAMBER	2		
126	WZX1303	FLOAT, (includes gasket)	2		
127	AUC147A	GASKET, float chamber lid	2		
128	AUC1980	LEVER, float (for original lids)	2		
129	AUD2285	LEVER, float (for new lids)	2		
130	AUC1152*	PIN, lever pivot	2		
131	WZX1101A*	NEEDLE & SEAT	2		
	GAC9201X	GROSE-JET	2	see page 116	
<i>Superior replacement for standard needle & seat. Highly recommended.</i>					
<i>The float lid assembly for AUC786 is AEU254, but it is no longer available. However, all the components for AEU254 are available, and you can purchase them separately. The lids that are currently available include the later style lever (AUD2285, item 129). The earlier lid which is completely interchangeable with the above, has a lever AUC1980 (item 128) which was discontinued part way through the production range of AUC786. You can service this earlier lid with AUC1152 pin, AUC1980 lever and WZX1101 needle & seat.</i>					
133	AUE254	FLOAT LID ASSEMBLY	2	for AUC786	
134	AUE478	FLOAT LID	2		
130	AUC1152	PIN, lever pivot	2		
129	AUD2285	LEVER, float (for new lids)	2		
131	WZX1101A	NEEDLE & SEAT (standard)	2		
136	AUC1928	WASHER, fibre	2		
137	AUC1557	WASHER, aluminium	2		
138	AUC1867	BANJO BOLT	2		
139	AUC1866	PIPE, float chamber vent	2		
140	AUC2698	BOLT, banjo, fuel line to lid	2		
141	AUC2141	WASHER, fibre	4	for AUC878	
142	AUC2139	FILTER	2		
145	AUC1163	BANJO BOLT	2		
146	AUC1557	WASHER, aluminium	2		
147	AUC4103	LID, float chamber, front	1		
	AUC4104	LID, float chamber, rear	1		
129	AUD2285	LEVER, float	2		
130	AUC1152	PIN, lever pivot	2		
<i>The float chamber lids on AUC878 carburetors utilised rubber 'push-on' connectors to join the fuel pipes and carburetors. Neither the front (with 2 inlet pipes), or the rear (with one inlet pipe) are available, but the float lever and pin is the same as AUC786.</i>					
148	120331	CONNECTOR, vent pipe	2		carb' to manifold
149	121273	PIPE, float chamber vent	2		
158	112866	INSULATING BLOCK	2		
159	112867	GASKET, carb' to manifold	4		
160	FHS2513	STUD, carb' to manifold	8		
161	GHF201	NUT (steel), carb' to manifold	8		
162	GHF332	WASHER, locking	8		
163	203131†	AIR CLEANER	2	TR3/3A, early TR4	
164	CRTR212	DECAL, air cleaner	2		
165	GHF103	Screw, air cleaner to carburettor	4		
166	GHF332	WASHER, locking	4		
167	112892	GASKET, air cleaner to carburettor	2		
<i>† Note: TR4's with H6 carburetors could have been fitted with other types of air cleaners depending on whether or not the closed circuit breather system was fitted. If the air cleaner (item 163) does not resemble the one fitted to your TR4, refer to 'Stromberg Carburetors & Air Cleaners (TR4A) on page 112. Sorry, but Triumph didn't help much with this one, the parts book gives change points of: from CT.....to CT..... - this means that the chassis numbers were not documented.</i>					
170	MRD1023	SPRAY CLEANER	1		
Carburettor Gasket Kits & Rebuild Kit					
	AUE801A	GASKET KIT, 'Major'	2	per carburettor	
<i>(includes mounting gaskets)</i>					
	AUE2	GASKET KIT, 'Minor'	1	for two carburetors	
	GAC6103X	REBUILD KIT (for 2 carburetors)	1	AUC786 & AUC878	
<i>(includes all items marked*)</i>					



iii. No	Part Number	Description	Qty. Req.	Details
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175CD Zenith-Stromberg Carburettors & Air Cleaners TR4/4A Models

Stromberg carburettors were introduced to TR's in the middle of the TR4 range, and frankly were never as easy to 'tinker' with and tune as the good old faithful SU. Having said that, it was the Stromberg carburettor which was called upon by Triumph to get the TR6 through the emission control regulations, which were tightened up during the 1970's to reduce the elements of what came out of the exhaust pipe.

The Spitfire & Midget 1500 engines were also equipped with Stromberg carburettors to enable them to get through the American smog regulations and latterly the MG-B, which was never a particularly fast car, was also equipped with a single Zenith Stromberg carburettor, by which time it had more plumbing on it than the average 3 bedroom house, and, was producing a massive 64 horse power. The standard phrase used to describe this vehicle so equipped is "so slow it couldn't get out of its own way".

Luckily the Stromberg equipped TR4 did not have any power loss due to the change from the SU carburettor, and following the closure of the Stromberg factory it would be reasonable to expect that availability of spare parts for the carburettors would deteriorate down to approximately zero.

Once again, reality is completely the reverse of your expectations, and the supply of components to overhaul & repair Zenith Stromberg carburettors is quite favourable.

There are still a reasonable number of items that we are unable to supply, but there is nothing that should cause the actual rebuild of your carburettor to be rendered impossible.

NI	TT12561	ADAPTOR PLATE KIT	1	
<i>This adaptor plate kit allows 1 1/2", 1 3/4" and 2" SU & Stromberg carburettors to be 'rubber' mounted to the manifold. Why bother you may ask? Engine vibration - especially under hard acceleration, will normally be transmitted to the float chambers, severely reducing the ability of the float needle to seat properly and cause flooding, possibly even blowing fuel backwards into the cockpit.</i>				
<i>Rubber insulating the carburettors will stop this. Our kit contains 2 mounting plates, 2 insulator rubbers (part No TKC1338, which are also available separately), mounting bolts, gaskets & Loctite 'studloc'.</i>				
NI	TKC1338	INSULATING RUBBER, carburettor	2	
1	518432A	DAMPER & CAP	2	
2		COVER, suction chamber	2	
3	605847A*	SCREW & WASHER, cover	8	
5	516946A	SPRING, air valve	2	

6	512320	WASHER	2	
8		AIR VALVE ASSEMBLY	2	
9	605845	SCREW, needle locking	2	
10	512276	SCREW, retaining ring	8	
11	RTC164	RING, diaphragm retaining	2	
12	512278*	DIAPHRAGM	2	
WARNING: Carburettor cleaner damages diaphragms, remove them before using the spray.				
15	512323	NEEDLE, metering (2A)	2	C1825
	ZEB16625	NEEDLE, metering (2E)	2	C3043
	514835	NEEDLE, metering (2H)	2	C3069
<i>The brass tag located on top of each carb' indicates the specification of the Strombergs fitted to your car. If the tags are missing, then check by removing the top cover & retaining screws to read the number stamped on the metering needle (i.e. 2A, 2E or 2H)</i>				
18	512319	WASHER, jet bush	2	
19	512318	BUSH, jet	2	
20	RTC165A*	O' RING	2	
21	512316	WASHER (O' ring retaining)	2	
22	512315	SPRING, jet	2	
23	512313*	JET	2	
24	512312	SCREW, bush retaining	2	
25	512311*	O' RING	2	
26	512307	SCREW, mixture adjusting	2	
27	512308A	O' RING	2	
30	512310	FLOAT & ARM	1	
31	606819A	PIN, float pivot	1	
34	BHM1079X*	NEEDLE & SEAT	2	
35	512301	WASHER, needle & seat	2	
NI	GAC9200X	GROSE-JET	2	highly recommended
<i>Superior replacement for standard needle & seat</i>				
36		FLOAT CHAMBER		
37	605838	SCREW & WASHER, short	6	
38	605837A	SCREW & WASHER, long	10	
39	512304	WASHER, locking	8	

Ill. No	Part Number	Description	Qty. Req.	Details
41	512309*	GASKET, float chamber	2	
45	512326	PIN, air valve lifting	2	
46	512325	SPRING	2	
47	512324*	CLIP, pin retaining	2	
49	512314	SCREW, choke cable clamp	1	
50	512281	SCREW, throttle stop	1	
51	512282	SPRING, for screw	2	
52	605800A*	DISC, throttle	2	
53	C28932*	SCREW, original throttle shaft	4	
54	512285	SHAFT, throttle	2	
55	AUD3080	BUSH, throttle shaft	4	see carb. Tech' Tips on page 118
56	512286	SPRING, throttle return, front carb	1	
57	512321	SPRING, throttle return, rear carb	1	
58	512289	THROTTLE STOP, front carb'	1	
59	512332	THROTTLE STOP, rear carb'	1	
60	512333	WASHER, spacing, rear throttle shaft	1	
61	512288	SCREW, fast idle	1	
62	512287	NUT, for screw	1	
63	512290	LEVER, throttle, front carb'	1	
64	JN2107	NUT, short rod to throttle lever	1	
65	512292	NUT, throttle shaft & front starter bar	3	
66	GHF322*	STAR WASHER	3	for throttle shaft & front starter bar
68	512297	STARTER BAR, front carburettor	1	
	512329	STARTER BAR, rear carburettor	1	
69	512298	CIRCLIP, starter bars	4	
70	512296	SPRING, starter bar, front	1	
	512330	SPRING, starter bar, rear	1	
73	512295	CAM, fast idle, front carburettor	1	
74	512293	LEVER, for cam	1	
75	512294	SPRING, fast idle cam	1	
76	512328	ELBOW, vacuum advance line	1	front carburettor
77	P26	PLUG, vacuum advance boss	1	rear carburettor
79	512336	SPINDLE, throttle shaft coupling	1	
	512337	SPINDLE, starter bar coupling	1	
80	AUE75	COUPLER	4	includes one each of 81 to 83
81	AUC2669	BOLT	8	
82	AUC4612	WASHER	8	
83	AJD8014Z	NUT	8	
84	148496	LINK ROD, short (vertical)	1	
85	GHF332	WASHER, locking, on rods	4	
86	136481	BELLCRANK	1	
88	GHF301	WASHER, plain	1	
89	136482	BOLT, shouldered	1	
90	106764	LINK ROD, long (horizontal)	1	
95	209269	AIR CLEANER	2	
	CRTR212	DECAL, air cleaner	2	
	SH605071	SET SCREW, air cleaner to carb	4	
	GHF332	WASHER, locking	4	
104	AEC375	GASKET, air cleaner to carb	2	
105	112867	GASKET, carburettor to manifold	2	
106	112866	INSULATING BLOCK	2	carb' to manifold
107	GHF201	NUT, carburettor to manifold	8	
108	GHF332	WASHER, locking	8	
110	MRD1023	SPRAY CLEANER	1	

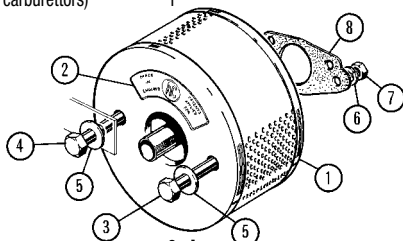
WARNING: Carburettor cleaner damages diaphragms, remove them before using the spray.

Carburettor Gasket Kits & Rebuild Kit

GP58*	GASKET KIT, 'Major'	2	per carburettor
<i>includes all gaskets & seals for one carburettor.</i>			
CDRK6	REBUILD KIT (for 2 carburettors)	1	
<i>includes all items marked*</i>			

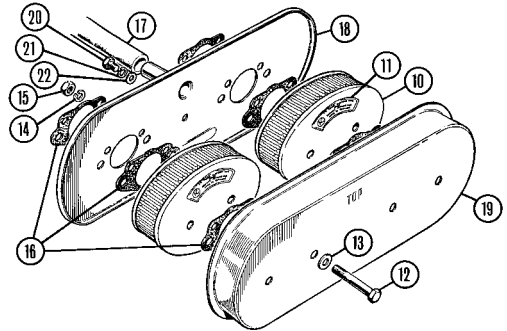
TR4/4A Air Filters

At the time of writing, we can supply air filters for all but the TR4 with closed circuit engine breather system fed to the air cleaners by a 'Y' piece from the rocker cover.

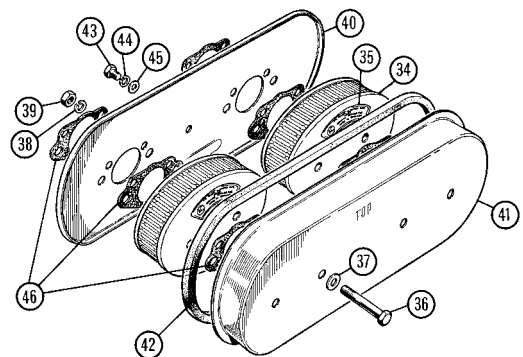
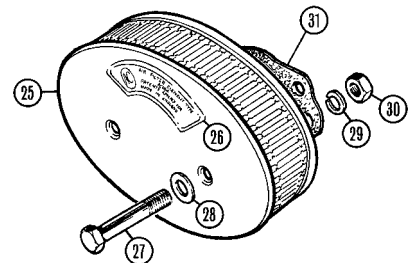


1	209269	AIR CLEANER	2	
2	CRST256	DECAL, air cleaner	2	TR4 with closed
3	BH605221	BOLT, air cleaner to carb	2	circuit engine
4	BH605241	BOLT, 'Y' piece to air cleaner/carb	2	breather system,
5	GHF301	WASHER, plain	4	separate air cleaner
6	GHF332	WASHER, locking	4	
7	GHF201	NUT, plain	4	
8	112892	GASKET, air cleaner to carb	2	

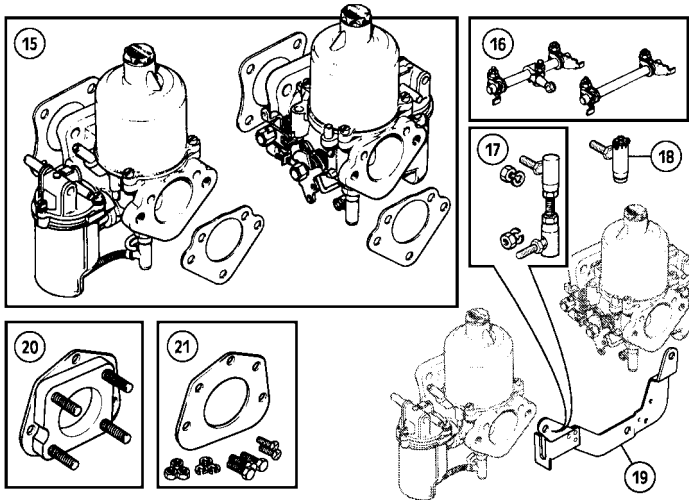
Ill. No	Part Number	Description	Qty. Req.	Details
10	212278	AIR CLEANER ELEMENT	2	
11	CRST257	DECAL	2	
12	BH605261	BOLT, air cleaner to carburettors	4	
13	GHF301	WASHER, plain	4	TR4 with closed
14	GHF332	WASHER, locking	4	circuit engine
15	GHF201	NUT, plain	4	breather system
16	112892	GASKET	6	and air box for
17	149994	HOSE, breather	1	air cleaners
		(filter box to rocker cover)		
18	212277	PLATE, air filter box backplate	1	
19	212275	COVER, air filter box cover	1	
20	SH604041	SCREW, air filter backplate to cover	1	
21	GHF331	WASHER, locking, backplate to cover	1	
22	GHF300	WASHER, plain, backplate to cover	1	



25	212278	AIR CLEANER	2	
26	CRST257	DECAL	2	TR4 with
27	BH605241	BOLT, filter attaching	4	separate air cleaner,
28	GHF301	WASHER, plain	4	standard fitment
29	GHF332	WASHER, locking	4	
30	GHF201	NUT, plain	4	
31	112892	GASKET, air cleaner to carb	2	



34	212278	AIR CLEANER ELEMENT	2	
35	CRST257	DECAL	2	
36	BH605261	BOLT, air cleaner to carb's	4	
37	GHF301	WASHER, plain	4	TR4 with
38	GHF332	WASHER, locking	4	air box type air cleaner,
39	GHF201	NUT, plain	4	optional fitment
40	212276	PLATE, air filter box backplate	1	
41	212275	COVER, air filter box cover	1	
42	112892	STRIP, sealing, backplate to cover	6	
43	SH604041	SCREW, backplate to cover	1	
44	GHF331	WASHER, locking, backplate to cover	1	
45	GHF300	WASHER, plain, backplate to cover	1	
46	112892	GASKET, air cleaner to carb	6	



iii. No	Part Number	Description	Qty. Req.	Details
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HS6 SU Carburettors & Air Cleaners TR4A Models

These carburettors are a development of the H6SU's as fitted to the TR3A & early TR4. It uses more up-to-date technology and generally improved design, though the principles of operation remain basically unchanged. The jet design in particular was changed.

Although never acknowledged in the Triumph parts books, SU specified two different carburettors for European (AUD209) and for USA specification vehicles (AUD284).

	AUD209T	CARBURETTORS, new	1pr	European specification
	AUD209R	CARBURETTORS, recon/exch.	1pr	
	AUD284T	CARBURETTORS, new	1pr	USA specification
	AUD284R	CARBURETTORS, recon/exch.	1pr	
1	AUD9255	LID, float chamber, front	1	
	AUD9258	LID, float chamber, rear	1	
3	AUC1152*	PIN, float pivot	2	
4	WZX1300	FLOAT	2	
5	AUC8459A*	GASKET	2	
6	WZX1101A*	NEEDLE & SEAT	2	
	GAC9201X	GROSE-JET	2	see page 116

Superior replacement for standard needle & seat. Highly recommended.

7	JZX1394	SCREW, float chamber lid	6	
8	WL700101	WASHER, locking	6	
9	AUC1310	FLOAT CHAMBER	2	
10	AUD2072	ADAPTOR, front float chamber	1	
	AUD2071	ADAPTOR, rear float chamber	1	
15	AUC8114A	DAMPER ASSEMBLY	2	for AUD209 carb's
	AUC8103A	DAMPER ASSEMBLY	2	for AUD284 carb's
16	AUC4900A	WASHER, fibre	2	
17	AUC4387	SPRING, air piston return, Red	2	

The TR4 parts book describes this spring as blue, which suggests that the author was perhaps a little colour blind. All TR4A's should be fitted with red springs.

20	JZX1394	SCREW, chamber to body	6	
21	AUD9187	CHAMBER & PISTON	2	for AUD209 carb's
	AUD9632	CHAMBER & PISTON	2	for AUD284 carb's
22	AUC2057	SCREW, needle locking	2	
23	AUD1337	NEEDLE, metering, rich (SW)	2	
	AUD1362	NEEDLE, metering, std (TW)	2	for AUD209 carb's
	AUD1284	NEEDLE, metering, std (QW)	2	for AUD284 carb's
	AUD1117	NEEDLE, metering, lean (C1W)	2	
25	WZX1112	PIN, piston lifting	2	for AUD209 carb's
	WZX1105	PIN, piston lifting	2	for AUD284 carb's
27	WZX1341	BEARING ASSEMBLY, jet	2	

Each jet bearing assembly includes one of items 28 to 32

28	AUC8460	BEARING, jet	2	
29	AUC8478	WASHER	2	
30	AUC2002	SCREW, jet bearing	2	
31	AUC2114	SPRING	2	
32	AUC8461	NUT, mixture adjusting	2	
33	AUD2693	SPANNER, jet adjusting	1	
34	AUD9148A*	JET ASSEMBLY, rear	1	for AUD209 carb's
	AUD9149*	JET ASSEMBLY, front	1	
	AUD9141A	JET ASSEMBLY, rear	1	for AUD284 carb's
	AUD9142A	JET ASSEMBLY, front	1	
	WZX1857	'SURVISKIT'	1	for AUD209 carb's

'Surviskit' includes a complete set of all items marked* for 2 carb's

36	AUD9090†	LEVER & LINK, rear	1	original fitment
	AUD9091†	LEVER & LINK, front	1	
	LZX1275	LEVER & LINK, rear	1	replacement type, must be fitted in pairs
	LZX1274	LEVER & LINK, front	1	

† Note: Due to supply difficulties with the above items, we can only offer (at the moment) later type HS series replacements that should be fitted in pairs. They do however reduce the fast idle when the choke is operated. The lower engine speed can be corrected by filling the lost motion lever stop on the link to give a larger rotational clearance before the jet lever is actuated. If that sounds too hard, fit & forget.

38	AUC8462	SPRING, jet return, rear	1	
	AUC1375	SPRING, jet return, front	1	
40	AUD3347	CAM, fast idle, rear	1	
	AUD3346	CAM, fast idle, front	1	
41	AUD2431	SPRING, fast idle cam, rear	1	
	AUD2049	SPRING, fast idle cam, front	2	

iii. No	Part Number	Description	Qty. Req.	Details
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HS6 SU Carburettor Conversion (High Port) TR3/3A & TR4 Models

(See page 110 for history of this conversion)

15	TT1156	CARBURETTOR SET, SU HS6, pair	1	new
NI	TT2928	FUEL REGULATOR, competition	1	Recommended when electric fuel pump is fitted.
NI	TT2927	FUEL REGULATOR, road	1	
16	TT1261	LINKAGE KIT, HS6 conversion	1	
17	148496	THROTTLE ROD	1	
18	TT9941	BALL JOINT, throttle rod end	2	original type
	TT9941Z	BALL JOINT, throttle rod end	2	alternative
19	218410	THROTTLE SUPPORT BRACKET	1	
NI	148960	BELLCRANK	1	
20	TKC1338	MOUNTING FLANGE, carburettor	2	
21	TT12561	ADAPTOR PLATE KIT	2	

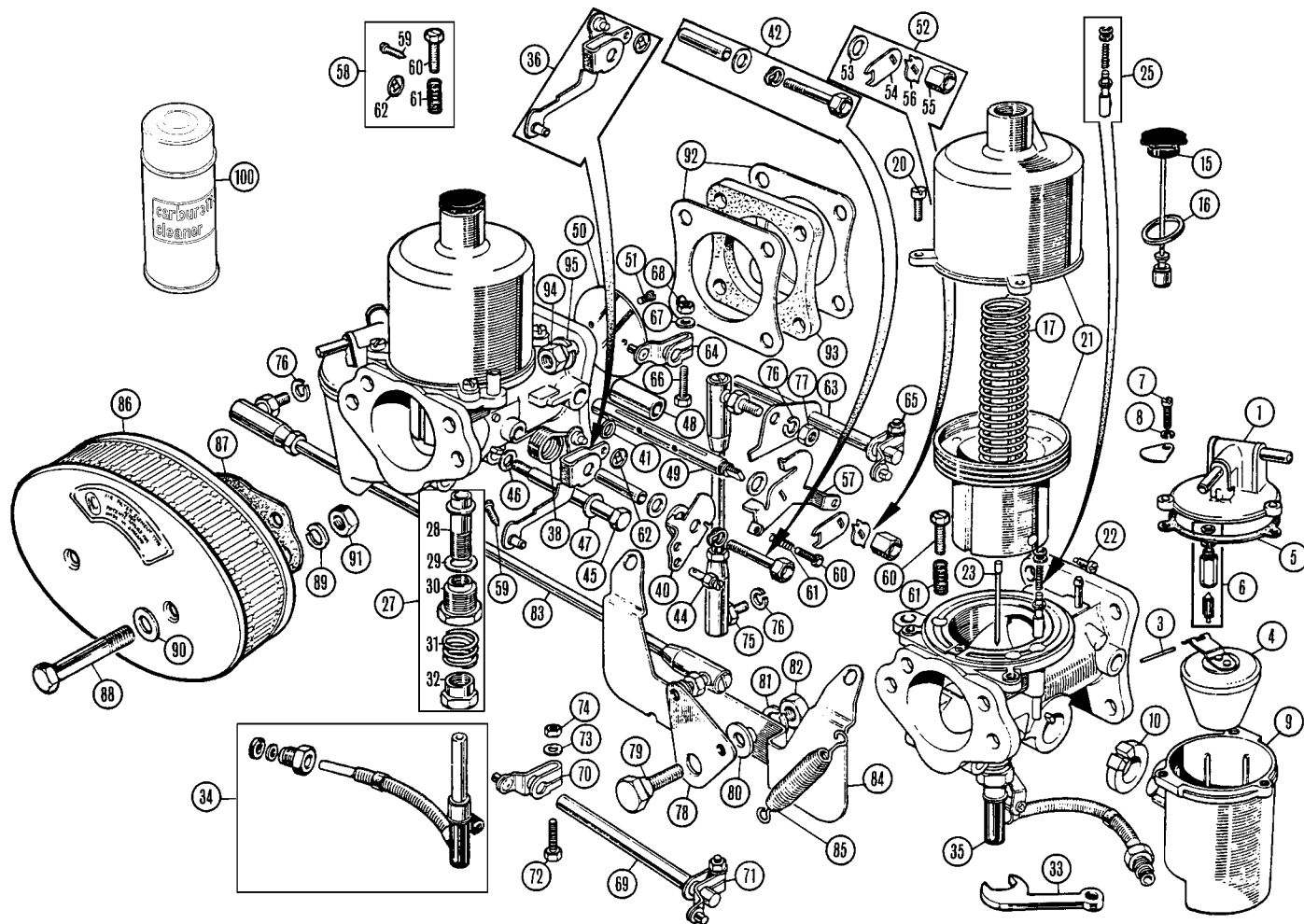
This adaptor plate kit allows 1 1/2", 1 3/4" & 2" SU carb's to be 'rubber' mounted to the manifold. Why bother you ask? Engine vibration - especially under hard acceleration, will normally be transmitted to the float chambers, severely reducing the ability of the float needle to seat properly and cause flooding, possibly even blowing fuel backwards into the cockpit. Rubber insulating the carburettors will stop this. Our kit contains 2 mounting plates, 2 insulator rubbers (part No TKC1338, which are also available separately), mounting bolts, gaskets & Loctite 'studloc'.

NI	307455	MANIFOLD, inlet	1	
		(long curved tubes with tapping for 'PCV' valve)		

'PCV' is an abbreviation for 'Positive Crankcase Ventilation' valve (see page 117)

HS6 SU Carburettor Rebuild & Gasket Kits

	AUE812A	GASKET KIT, 'Major'	2	all models
		Includes all gaskets & seals for one carburettor. (Note, this gasket kit is included Rebuild Kits)		
	GAC6104X	REBUILD KIT (for 2 carburettors)	1	for AUD209's carb's
		(GAC6104X includes all items listed here)		
3	AUC1152	PIN, lever pivot	2	
6	WZX1101A	NEEDLE & SEAT	2	
10	AUD2072	ADAPTOR, front float chamber	1	
	AUD2071	ADAPTOR, rear float chamber	1	
17	AUC4387	SPRING, piston return, red	2	
23	AUD1362	NEEDLE, jet, std. (TW)	2	
27	WZX1341	BEARING KIT, jet	2	
34	AUD9148A	JET ASSEMBLY KIT, rear	1	
	AUD9149	JET ASSEMBLY KIT, front	1	
49	WZX1178	THROTTLE SHAFT, std.	2	
50	WZX1321	THROTTLE DISC, 1 3/4"	2	
100	MRD1023	SPRAY CLEANER	1	
	AUE812A	GASKET SET, for one carb	2	
	GAC6105X	REBUILD KIT (for 2 carb's)	1	for AUD284's carb's
		(GAC6105X includes all items listed here)		
3	AUC1152	PIN, lever pivot	2	
6	WZX1101A	NEEDLE & SEAT	2	
10	AUD2072	ADAPTOR, front float chamber	1	
	AUD2071	ADAPTOR, rear float chamber	1	
17	AUC4387	SPRING, piston return, red	2	
23	AUD1284	NEEDLE, jet, std. (QW)	2	
27	WZX1341	BEARING KIT, jet	2	
34	AUD9141A	JET ASSEMBLY KIT, rear	1	
	AUD9142A	JET ASSEMBLY KIT, front	1	
49	WZX1178	THROTTLE SHAFT, standard	2	
50	WZX1326	THROTTLE DISC, 1 3/4"	2	
100	MRD1023	SPRAY CLEANER	1	
	AUE812A	GASKET SET, for one carburettor	2	



Ill. No	Part Number	Description	Qty. Req.	Details
42	WZX1331	PIVOT BOLT	2	
44	AUE34	STOP, cable, front carb'	1	
45	AUD3017	BOLT, float chamber mounting	2	
46	GHF300	WASHER, plain	2	
47	GHF331	WASHER, locking	2	
48	AUD3080	BUSH, throttle shaft	4	
<i>See Carburettor Technical Tips on page 116.</i>				
49	WZX1178	THROTTLE SHAFT, standard	2	
	WZX1178RP	THROTTLE SHAFT, oversize	2	
50	WZX1321	THROTTLE DISC	2	for AUD209 carb's
	WZX1326	THROTTLE DISC	2	for AUD284 carb's
51	AUC1358	SCREW, throttle disc	4	
52	WZX1130	SUNDRIES KIT, throttle shaft	2	
<i>sundries kit WZX1130 contains one of each item 53 to 56</i>				
53	AUC2625	WASHER, brass	2	
54	JZX1328	LEVER, lost motion	2	
55	AUC1424	NUT, throttle	2	
56	AUC1206	TAB WASHER	2	
57	AUD2788	LEVER, throttle, rear	1	
	AUD2787	LEVER, throttle, front	1	
58	WZX1140	SUNDRIES KIT, throttle linkage	2	
<i>sundries kit WZX1140 contains one of each item 59 to 62</i>				
59	AB606051	SCREW, jet to lever	2	
60	AUC8483	SCREW, idle and fast idle	2	
61	AUC2451	SPRING, idle and fast idle screw	2	
62	AUC5004*	'STAR' WASHER, lever and link	2	
63	145074	ROD, throttle connecting	1	
64	AUE586	LEVER, throttle rod to rear carb	1	includes one each of items 66 to 68
65	AUE587	LEVER, throttle rod to front carb	1	
66	AUC2694	BOLT	2	
67	AUC8396	WASHER	2	
68	AJD8012Z	NUT	2	
69	AUC2438	ROD, jet lever connecting	1	

Ill. No	Part Number	Description	Qty. Req.	Details
70	AUE586	LEVER, jet lever to rear carb	1	includes one each of items 72 to 74
71	AUE587	LEVER, jet lever to front carb	1	
72	AUC2694	BOLT	2	
73	AUC8396	WASHER	2	
74	AJD8012Z	NUT	2	
75	148496	LINK ROD, short (vertical)	1	
76	GHF331	WASHER, locking, fitted on rods	4	
77	JN2107	NUT, short rod to throttle lever	1	
78	145073	BELLCRANK	1	
79	136482	BOLT, shouldered	1	
80	GHF301	WASHER, plain	1	
81	GHF332	WASHER, locking	1	
82	GHF201	NUT	1	
83	145077	LINK ROD, long (horizontal)	1	
84	218410	BRACKET	1	
85	145197	SPRING, throttle	2	
86	212278	AIR CLEANER	2	(see page 113 for details)
87	112892*	GASKET, air cleaner to carb	2/6	
<i>Applications with the optional air-box fitted require 6 of the 112892 gaskets. One is fitted either side of each air cleaner, and another is required between the air-box and each carburettor.</i>				
88	BH605261	BOLT, air cleaner to carburettor	4	
89	GHF332	WASHER, locking	4	
90	GHF301	WASHER, plain	4	
91	GHF201	NUT	4	
92	112867*	GASKET, carb. to manifold	4	
93	112866	INSULATOR BLOCK	2	carburettor to manifold
94	GHF201	NUT, carburettor to manifold	8	
95	GHF332	WASHER, locking	8	
100	MRD1023	SPRAY CLEANER	1	

Carburettor Rebuild & Gasket Kits

See listings on opposite page at lower far left

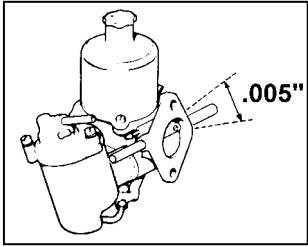
Carburettor Technical Tips

Carburettors rarely go 'out of tune' by themselves. When engine condition changes, the carburation requirements of the engine are altered. A compromise is sometimes possible by adjusting the carburettor(s) to suit, but the overall performance will be below what it should be. When you think your car needs a carburettor tune-up, make sure that everything else 'on & in' the engine is in proper condition and correctly adjusted. It is impossible to adjust the carburettors properly if the engine is not in a correct condition.

Re-bushing Carburettor Bodies

Re-bushing carburettor bodies and fitting new throttle shafts is a major part of a carburettor rebuild which is often overlooked. Vacuum leaks due to worn bodies and shafts cause rough idle, poor performance and poor fuel economy.

Checking the shaft and body clearance is a simple matter of wiggling the shafts in the carburettor bodies. Any appreciable play indicates wear in the bodies or on the shafts, or both. Dome wear is to be expected, but performance is seriously affected when clearances are over 0.005" (five thousandths of an inch). Verification is done with the engine running at idle by spraying aerosol carburettor cleaner (MRD1023) on the shafts where they enter the carburettor body. If the idle changes, the shafts and/or the bodies are worn.



Quite often, the problem can be fixed by simply replacing the throttle shafts.

Remove the couplings, springs, and other fittings from the ends of the shafts. Mark the butterfly plates with a felt-tip pen to indicate which end is installed upwards, and remove the two securing screws. Pull the plates out and slide the shaft sideways until a clean, unworn section of the shaft is in each side of the body. Now wiggle the shaft up & down,

and forwards & backwards to determine if any play is present. If none, a new pair of standard throttle shafts should solve the problem. Oversize shafts (if not already fitted) can be purchased to take up slight wear in the carburettor body.

Since the holes in the bodies generally wear to a slight 'oval' shape, it is advisable when fitting oversize shafts to ream the carburettor bodies to the diameter of the particular new shaft, plus 0.002" clearance. Standard SU shafts measure 0.310" to 0.311" diameter, while Zenith-Stromberg shafts measure 0.313" to 0.314". Oversize shafts vary in diameter, but are generally 0.005" to 0.010" larger than the standard shafts. If the carburettor bodies are found to be worn too badly for oversize shafts to be effective, the bodies must be re-bushed.

To re-bush bodies, the old bushes (or the bodies themselves, if the particular carburettors don't have bushes) must be drilled out to a diameter just smaller than the Outside Diameter (O.D.) of the new bushes and to a depth just short of entering the venturi. Since each side of the body must be drilled out separately, accurate alignment of the two holes is difficult to maintain. Several members of our staff have found that an easy way to do this is to chuck the appropriate drill in a lathe, and run the carburettor body onto the drill with the tailstock centre. New bushes are then pressed into the bodies and reamed to fit the new shafts with the minimum clearance which allows free rotation. This is best accomplished with a 5/16" adjustable reamer with a pilot long enough to ride in the opposing bush. Sometimes it is necessary to 'lap' the shafts in the bushes by chucking the projecting end of the shaft in an electric drill and running it dry in the bushes. Do not use any abrasive compound; the dark oxide that is formed is enough. Add a drop or two of light oil and continue until the shaft rotates freely in the bushes. After re-installation of the throttle plates, springs and linkage, the rest of the rebuild is routine. Keep in mind that the throttle plates must be centralised before the screws are tightened.

Do not spray carburettor cleaner into Zenith-Stromberg carburettors without first removing the diaphragms, as the carburettor cleaner will quickly render the diaphragms useless.



Carburettor Adjusting Tools

See also Accessories

The proper tools will give you an edge in the correct tuning and maintenance of your carburettors. Pictured here are just a few of the items we offer. Pictured left to right are:

See also Accessories: 'Workshop & Tools'

Uni-Scan carburettor Synchroniser
SU Tool Kit (rear centre)
SU Jet Spanner (front centre)
Jet Centring Tool

MM386-200
GAC101X
AUD2693
GAC6106X

Choke Adjustment

Adjustment of the 'choke' mechanism of SU's and Zenith-Strombergs is of great importance, but seems to be little understood. Technically speaking, SU's do not have true 'choke' mechanisms by which a richer mixture is created by restricting the airflow, but accomplish the same result by keeping the airflow the same & increasing the flow of fuel.

TR4/4A Zenith-Strombergs use a true 'choke': a starter bar which rotates up under the air piston, at once restricting the airflow and increasing the fuel flow. Before any choke adjustments can be made accurately, the carburettors must be synchronised and balanced, and the choke cable disconnected from the carburettors.

Of Primary consideration is the physical condition of the choke and fast idle linkages.

Excess looseness or binding prevent proper adjustment and operation. Replace any worn or damaged parts. Next, the choke linkages of the two carburettors must be synchronised. If you have any doubts as to how to do this, refer to a good workshop manual. In general, back-off the fast idle screws so they won't get in the way, loosen the interconnecting linkage, and re-tighten so that both chokes begin to operate at the same time.

Adjust the fast-idle screws so that in the 'rest' position, there is about 1/32" clearance between the screws and the fast-idle cams. Re-connect the choke cable leaving it a bit slack, as you do not want any pre-load on the choke mechanism that would hinder its return to 'rest' when the choke is in the 'off' position.

Idle Speed Adjustment Problems

If difficulty is encountered in adjusting to a proper idle speed, check for:

- 1) Vacuum leaks
- 2) Jet/choke linkage position
- 3) Interference between the fast-idle adjusting screw and the fast-idle cam.

Check all of this after you are sure that the ignition system and the rest of the engine are in good working order.

Colortune (The Tune-up Window)

There is another way to make sure that your carburettor mixture is correct - pay a huge sum of money to a mechanic who has an expensive exhaust gas analyser, or use Colortune.

Using Colortune is as simple as fitting a spark plug, and lets you see into the engine! The Colour of the burning mixture lets you know whether fuel is being mixed and burnt properly or being wasted, and if the mixture is wrong Colortune provides the means to make accurate adjustments with ease.

According to the AA (the world's largest automobile association), Colortune can save up to 10% of the fuel you put into the tank

Colortune

MRD1005



GROSE JETS: Precision Fuel Flow

Your carburettors may be reconditioned, but they still leak fuel all over the place, and stink out the interior when you lift your foot off the accelerator. Put away the polishing cloth and don't buy a fire extinguisher. Instead, buy Grose jets, the ball valve jets that don't stick open (unlike old fashioned needle & seat valves). Your car may look traditionally British, but it no longer needs to smell like it. (Sold individually).

Grose Jets;

for H & HS Type SU Carb's
for Zenith-Stromberg Carb's

GAC9201X
GAC9200X



Useful Advice on Carburettor Kits

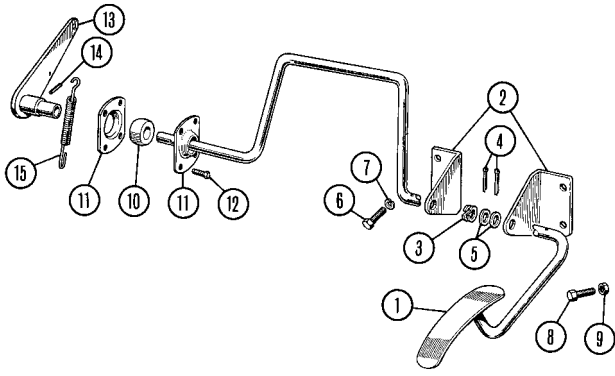
(By Peter Wigglesworth)

Through the depths of time, standing behind a retail counter, I learnt and remembered some buying habits, trends and preferences of TR owners.

A favourite question was: "What parts do I need to rebuild the SU carburettors on my car". This innocent request can be tackled in one of many ways depending on certain factors and conditions, only identifiable by experts. The request can be handled as follows:

- 1) Tell them we don't stock carburettor spares and give the phone number of a local carburettor specialist who is usually even more unhelpful (for Ford owners).
- 2) Sell them a packet of gaskets and assure them that's all that goes wrong (for Midget & Spitfire owners).
- 3) Suck in about a gallon of air, tutt, open the carburettor spares book & sell them everything listed, regardless (for Jaguar owners).
- 4) Insist special tools and facilities are required to undertake any work on carburettors. Follow up with a pair of rebuilt exchange or new carb's (MG owners love that one).
- 5) Offer the rebuild kit that we have put together after years of spares experience. The kit may not include all you need to repair a 'basket case', and conversely would be over the top for the solution of a float lid gasket leak. Either way, we have found the kits universally acceptable without 'overkill' (for TR owners).

We offer two rebuild kits for H series SU's: GAC6102X for the TR2's with AUC721 specification carburettors, and GAC6103X for either TR3 with AUC786 or TR3A & TR4 with AUC878.



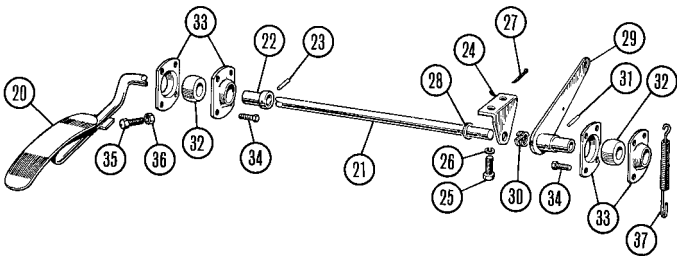
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Accelerator Pedal & Fittings (Right Hand Drive)

1	208437	PEDAL, accelerator	1	TR4AA
	209411	PEDAL, accelerator	1	TR4/4A
2	106752	BRACKET, pedal	2	TR2/3/3A
	131253	BRACKET, pedal	2	TR4/4A
3	WS600061	WASHER, double coil spring	1	
4	GHF502	SPLIT PIN	2	
5	WP20X	WASHER, plain	2	
6	HU706P	SCREW, bracket	4	
7	GHF331	WASHER, locking	4	
8	SH604161	SCREW, pedal limit stop	1	
9	JN2107	NUT, locking	1	
10	058282	BUSH, pedal support	1	
11	105226	PLATE, bush retaining	2	
12	AB610031	SCREW, plate retaining	4	
13	106753	LEVER ASSEMBLY	1	
14	DS1312	PIN, locating lever to shaft	1	
15	027645	SPRING, return	1	

Blanking Details (RHD only)

HU706P	SCREW	3
GHF331	WASHER, spring	3
RFN224	PLUG, blanking 1 1/2" diameter	1

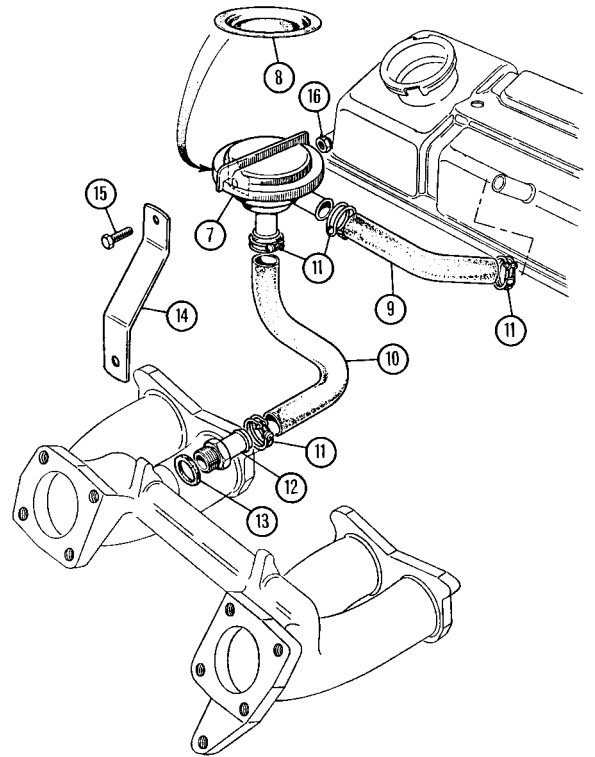
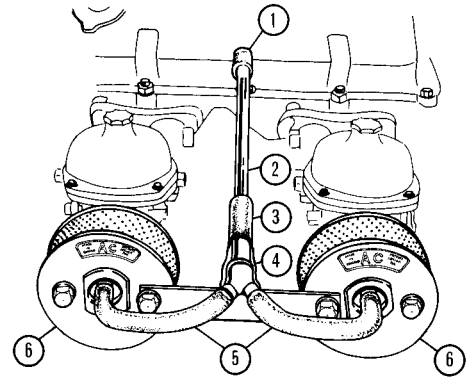


Accelerator Pedal & Fittings (Left Hand Drive)

20	106749	PEDAL, accelerator	1	TR2/3, TR3A to TS29820
	206590	PEDAL, accelerator	1	TR3A from TS29821, TR4/4A

The complete pedal assembly for TR3A from TS29821, and TR4/4A can be fitted to TR2/3/3A's prior to TS29820.

21	106762	BAR, connecting pedal to lever	1	TR2/3, TR3A to TS29820
22	108614	BUSH, connector, pedal to shaft	1	
	120443	BUSH, on pedal shaft	1	TR3A from TS29821, TR4/4A
23	DS1312	PIN, locating bush and shafts	1/2	
24	106763	BRACKET, shaft	1	
25	HU706P	SCREW, bracket	2	
26	GHF331	WASHER, locking	2	
27	GHF502	SPLIT PIN	1	
28	WP20X	WASHER, plain	1	
29	106753	LEVER ASSEMBLY	1	
30	WS600061	WASHER, double coil spring	1	
31	DS1312	PIN, locating lever	1	
32	058282	BUSH, pedal support	2	
33	105226	PLATE, bush retaining	4	
34	AB610031	SCREW, plate retaining	8	
35	SH604161	SCREW, pedal limit stop	1	
36	JN2107	NUT, jam	1	
37	027645	SPRING, return	1	



Ill. No	Part Number	Description	Qty. Req.	Details
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Engine Breather/Emission Controls TR4/4A Models

The TR4 had a closed circuit breather system introduced at chassis no CT25394. The oil breather pipe (pages 86/87, item 39) was removed and a core plug (item 40) replaced it. The crankcase breathing was then achieved by a pipe from the rocker box cover into the air filter.

1	149995	HOSE, rocker cover to pipe	1	TR4 from CT23594
2	138078	PIPE	1	
3	149995	HOSE, pipe to flame trap	1	
4	138073	FLAME TRAP	1	
5	137974	HOSE, flame trap to air filter	2	
6	209269	AIR FILTER, replacement type with breather hose fittings	2	

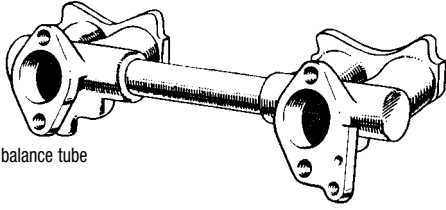
See page 113 for details of air cleaner nightmares.

7	13H5191	'PCV' VALVE*	1	TR4A
8	27H7758	DIAPHRAGM	1	
9	143323	HOSE, rocker cover to valve	1	
10	143314	HOSE, valve to inlet manifold adaptor	1	
11	CS4011	CLIP, wire type	4	
	GHC507	CLIP, jubilee type	4	
12	138530	ADAPTOR, in manifold	1	
13	AUC2141	WASHER, fibre	1	
14	143313	BRACKET	1	
15	GHF101	SCREW, bracket to valve	1	
16	GHF271	NUT, nyloc	1	

*Note: 'PCV' is an abbreviation for 'Positive Crankcase Ventilation' valve

1 301145 TR2 Low Port Cylinder Head taking twin 1 1/2" H4 type SU carburettors

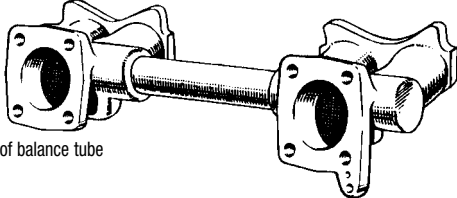
Port to Head
Diameter = 1 13/32" (35.5mm)



301145 cast on underside of balance tube
Log Type

2 302006 TR3 Low Port Cylinder Head taking twin 1 3/4" H6 type SU carburettors

Port to Head
Diameter = 1 1/2" (38mm)

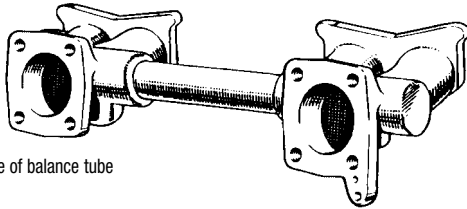


302006 cast on underside of balance tube
Log Type

Cut away to clear mounting studs

3 302119 TR3/3A High Port Cylinder Head taking twin 1 3/4" H6 type SU carburettors

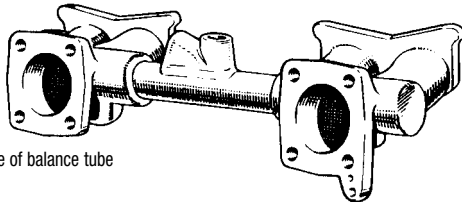
Port to Head
Diameter = 1 1/2" (38mm)



302119 cast on underside of balance tube
Log Type

4 305547 TR3A/3B High Port Cylinder Head taking twin 1 3/4" H6 type SU carburettors

Port to Head
Diameter = 1 1/2" (38mm)

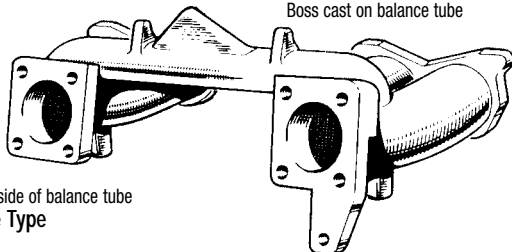


305547 cast on underside of balance tube
Log Type

Boss cast on balance tube

5 305744 TR4 High Port Cylinder Head taking twin 1 3/4" HS type SU carburettors or 175CD Stromberg carburettors

Port to Head
Diameter = 1 3/8" (35mm)

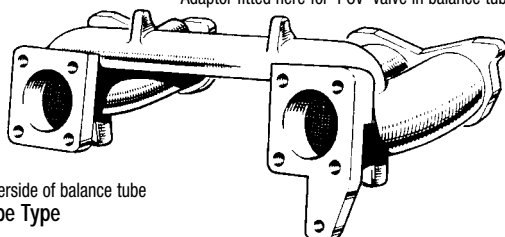


305744 cast on underside of balance tube
Flow Curved Tube Type

Boss cast on balance tube

6 307455 TR4/TR4A High Port Cylinder Head taking twin 1 3/4" HS type SU carburettors or 175CD Stromberg carburettors

Port to Head
Diameter = 1 3/8" (35mm)



307455 cast on underside of balance tube
Flow Curved Tube Type

Adaptor fitted here for 'PCV' valve in balance tube

Interchange and Swaps

Inlet Manifolds

The TR4/4A flow curved inlet tube type of manifold is acknowledged as the most efficient design for the TR. This type will fit TR4's instead of the log type without major problems. It will also fit 'high port' cylinder head engines in TR3/3A, but if used with H-type carburettors, no air cleaners can be fitted in the minimal gap left between the inner wheel arch and carburettor inlet face. The best solution is to fit the curved inlet manifold with twin 1 3/4" HS6 carburettors (you will need to re-route the heater feed hose through the bulkhead and lengthen the choke cable). If air cleaners are required, upwards offset type will have to be fitted. This modification in general is good for improved engine breathing and running.

TR3 'low port' cylinder head engines can be fitted with this manifold but serious 'port to manifold' mismatch occurs along with stud and manifold impingement - lots of chopping and filing is needed to complete this modification.

The TR2 'low port' cylinder head will accept 'low port' TR3 manifold and carburettors, but in all honesty you are better off with the 'low port' set-up and, live with slightly less power and better fuel economy with the TR2.

Standard or Tubular Exhaust Manifold;

For full details & listings of our tubular sports manifolds & full range of Sports exhaust systems please refer to 'Performance & Tuning' on page 36 in the Accessories section.

The choice of a standard TR4A manifold would clearly be the best, but in the event that you are seeking an improvement in performance - with little or no disadvantage in terms of flexibility of the engine, you should fit our TriumphTune sports extractor manifold (TT1100 in mild steel or TT1100S in Stainless Steel).

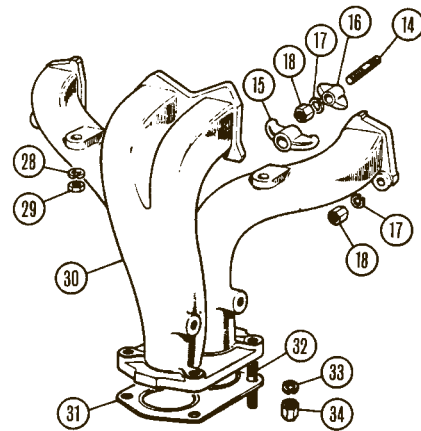
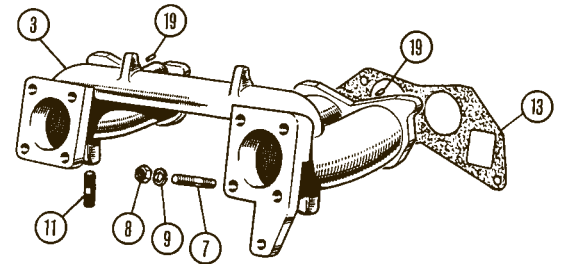
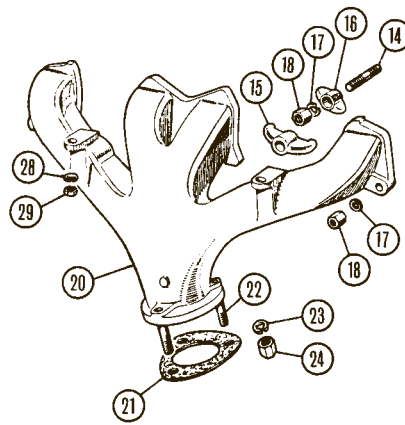
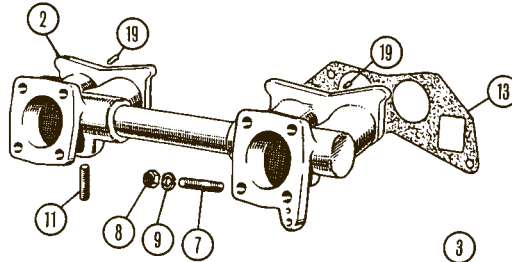
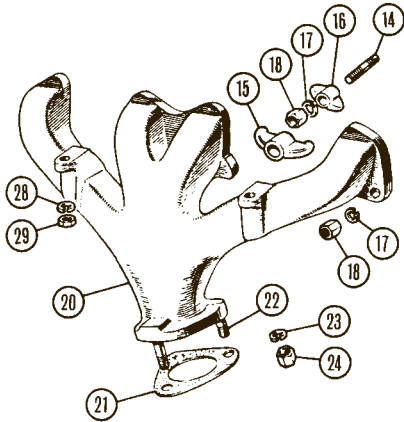
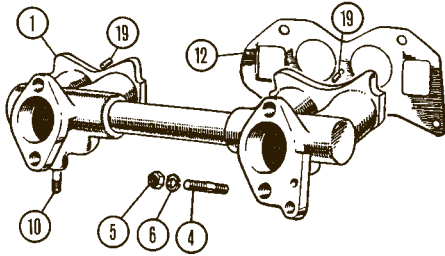
This 2-piece sports manifold is designed to fit around both models of TR starter motor.

If you are fitting this sports manifold to a TR2/3/3A or TR4, you will need 2 adaptors (TT5019 & TT5027) to join it to the main silencer (HRSU331), but, it will mate to the standard TR4A 'Y' pipe (HRSU1358) without an adaptor. Our TriumphTune extractor manifolds are manufactured on our own jigs.

See also Performance & Tuning (page 36) for details of our Moss TriumphTune 'Competition' exhaust systems (TTK1120 & TTK1121) that come with our Fast Road/Sport Tubular Manifold (TT1130S) with large primary pipes.

We also supply a Full Race Tubular Manifold (TT1130RS), that is only suitable for 89mm engines.





Ill. No	Part Number	Description	Qty. Req.	Details
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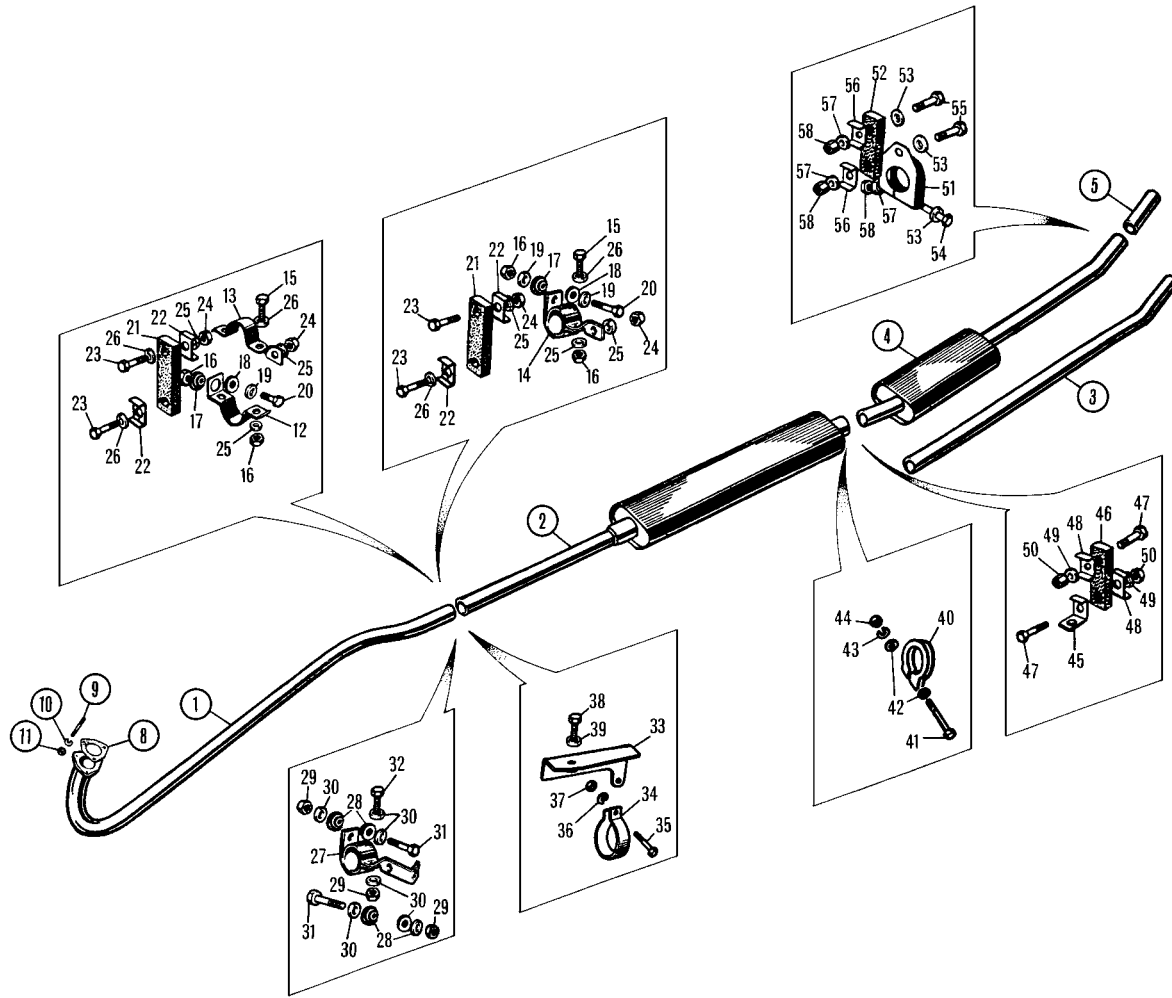
Manifolds (Inlet & Exhaust)

For Sports Tubular Manifolds see 'Performance & Tuning' in Accessories (page 36).

1	301145	MANIFOLD, inlet, low port, for 1 1/2" carb's	1	TR2
	302006	MANIFOLD, inlet, low port, for 1 3/4" carb's	1	TR3 to TS9349
2	302119	MANIFOLD, inlet, high port	1	TR3 from TS9350 to TS13052E
	305547	MANIFOLD, inlet, high port with boss on balance tube	1	TR3 from TS13053 TR3A
3	305744	MANIFOLD, inlet, long curved tubes no tapping with boss on balance tube	1	TR4 to CT21470
	307455	MANIFOLD, inlet, long curved tubes with tapping for 'PCV' valve	1	TR4 from CT21471 TR4A
<i>'PCV' is an abbreviation for 'Positive Crankcase Ventilation' valve (see page 117)</i>				
4	058917	STUD, carb. to manifold	4	
5	56675	NUT, steel	4	TR2/3 to TS8996
6	GHF333	WASHER, locking	4	
7	FHS2513	STUD, carb. to manifold	8	TR3 from TS8997
8	GHF201	NUT, steel	8	TR3, TR4/4A
9	GHF332	WASHER, locking	8	
10	TE605141	STUD, inlet to exhaust manifold	2	TR2/3 to TS8997
11	FHS2513	STUD, inlet to exhaust manifold	2	TR2/3 to TS8997 TR3A, TR4/4A
12	106937	GASKET, manifold	2	TR2/3 to TS9349
13	113122	GASKET, manifold	2	TR3 from TS9350 TR3, TR4/4A

Ill. No	Part Number	Description	Qty. Req.	Details
14	102474	STUD, manifold, 2 1/16"	4	upper
	107055	STUD, manifold, 2 3/8"	2	lower centre
	058688	STUD, manifold, 11 1/16"	1	lower front
	058688	STUD, manifold, 11 1/16"	1	lower rear (no lifting eye)
	058917	STUD, manifold, 11 5/16"	1	lower rear (with lifting eye)
15	033148	CLAMP, manifold, large	2	
16	058258	CLAMP, manifold, small	4	
17	GHF333	WASHER, locking, manifold	8	
18	056675	NUT, manifold, steel	8	
	108951	NUT, manifold, brass	8	
19	DP514	DOWEL, plain,	2	inlet manifold to cyl head
20	301144	MANIFOLD, exhaust	1	TR2/3 low port head
	304164	MANIFOLD, exhaust	1	TR3A, TR4 high port head
21	GEG718	GASKET, manifold to front pipe	1	
22	101442	STUD, manifold to front pipe	3	
23	GHF333	WASHER, locking	3	TR2/3/3A, TR4
24	108951	NUT, brass	3	
28	GHF332	WASHER, locking, inlet to	2	
29	GHF201	NUT, inlet to exhaust manifold	2	
30	306378	MANIFOLD, exhaust	1	
31	GEG724	GASKET, manifold to front pipe	1	
32	115696	STUD, manifold to front pipe	4	TR4A
33	GHF333	WASHER, locking	4	
34	108951	NUT, brass	4	

120 | Exhaust System TR2/TR3/3A & TR4



Ill. No	Part Number	Description	Qty. Req.	Details
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Exhaust System TR2/TR3/3A & TR4

Stainless Steel Exhaust

If you want peace of mind, then fitting a Stainless Steel exhaust system really is a worthwhile investment. Available as a complete system, or as individual components. System utilises standard mountings.

FSTR24	EXHAUST SYSTEM	1
FSTH20	Downpipe	1
FSTH21	Silencer, main	1
FSTH28	Silencer & Tail Pipe	1

Mild Steel Exhaust System

1	201763	DOWN PIPE	1
2	HRSU331	SILENCER, front	1
3	202009	TAIL PIPE, (mild steel)	1
	202009SS	TAIL PIPE, (stainless steel)	1

TR2's up to TS2531 had an 18" silencer with a plain tail pipe (202009). From TS2532 through TR3 to TS11716, there was a 24" silencer (HRSU331) with a plain tail pipe fitted. On TR3's from TS11716 onwards, the system utilised a double silencer system (HRSU331 & HRSU358). We can supply the 202009 for the original TR2 'roar'.

Buy your passenger a pair of ear plugs and have some fun.

4	HRSU358	SILENCER & TAIL PIPE	1	TR3 from TS11717, TR3, TR4
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Mountings & Fittings

5	HRTT9177	EXTENSION, tail pipe (chrome)	1	press-on type
8	107602	CLAMP, tail pipe extension	1	for original clamp-on
8	GEG718	GASKET, head pipe to manifold	1	
9	101442	STUD, head pipe to manifold	3	
10	GHF333	WASHER, locking	3	
11	108951	NUT, brass	3	
12	107642	CLAMP, lower half	1	TR2 to TS4309
13	107643	CLAMP, upper half	1	
14	110397	CLAMP, one piece	1	TR2 to TS4310, TR3 to TS11716

Ill. No	Part Number	Description	Qty. Req.	Details
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For cars up to TS11716 the mounting brackets for the centre of the exhaust (items 12, 13 & 14) are currently not available. The TR4 two piece mounting (items 33 & 34) which suspends the exhaust from the RH gearbox mounting, is the best and simplest solution if you are missing these brackets. The TS4311 and TS11716 can be 'faked' with the bracket used from the TS117126 onwards. A similar 'faking' could be achieved on earlier models, but remember it does require drilling, cutting and filing.

15	GHF103	SCREW, hexagon headed	2	TR2 to TS4309, TR2 from TS4310
			1	TR3 to TS11716
16	GHF201	NUT, plain	3	TR2 to TS4309, TR2 from TS4310
			2	TR3 to TS11716
17	GEX7329	BUSH, fitted in bracket or chassis	1	TR2 to TS4309, TR2 from TS4310
			1	TR3 to TS11716
18	GEX7330	WASHER, rubber	1	TR2 to TS4309, TR3 to TS11716
19	WP17	WASHER, plain	1	
20	GHF103	SCREW, clamp to chassis	1	
	BH605201	BOLT, clamp to chassis	1	TR2 from TS4310, TR3 to TS11716
21	GEX7044	STRAP, flexible	1	
22	GEX7510	PLATE, clamp on flexible strap	2	
23	SH605091	SCREW, strap attaching	2	TR2 to TS4309, TR3 to TS11716
24	GHF201	NUT, plain, strap to clamp	2	
25	GHF332	WASHER, locking	5	TR2 to TS4309, TR3 to TS11716
26	GHF301	WASHER, plain	4	TR2 to TS4309, TR3 to TS11716
27	114074	CLAMP & BRACKET, one piece	1	
28	GEX7329	BUSH, fitted in chassis	4	
29	GHF242	NUT, locking (mounting bolts)	3	TR3 from TS11717, TR3A
30	WP17	WASHER, plain	6	
31	BH605201	BOLT, bracket to chassis	2	
32	GHF103	SCREW, hexagon headed	1	

Ill. No	Part Number	Description	Qty. Req.	Details	
33	130888	BRACKET, mounting	1		
34	130890	RING CLAMP	1		
35	GHF103	SCREW, clamping pipe	1		
36	GHF332	WASHER, locking	1		TR4
37	GHF201	NUT, plain	1		
38	SH608141	BOLT, bracket to mount	1		
39	GHF335	WASHER, locking on bolt	1		
40	GEX7497	CLAMP, original (alternative)	1		
	GEX7500	CLAMP, original (alternative)	1		
41	BH605221	BOLT, clamp	1		all models
42	GHF301	WASHER, plain	2		
43	GHF332	WASHER, locking	1		
44	GHF201	NUT, plain	1		
45	105578	BRACKET (right angle)	1		
46	GEX7044	STRAP (flexible)	1		
47	GHF103	SCREW, hexagon headed	2	TR4 from CT114544	
48	GEX7510	PLATE, clamp	2		
49	GHF332	WASHER, locking	2		
50	GHF201	NUT, plain	2		
51	107602	BRACKET, clamp	1		
52	GEX7044	STRAP (flexible)	1		
53	GHF301	WASHER, plain	3		
54	BH605241	BOLT	1		
55	GHF103	SCREW, hexagon headed	2	all models	
56	GEX7510	PLATE, clamp	2		
57	GHF332	WASHER, locking	3		
58	GHF201	NUT, plain	3		

Exhaust Fitting Kits

Owners of cars with a chassis number earlier than TS11716 should purchase the individual components listed in the illustration. Currently we cannot supply the key parts to the cruciform mounting for TR2, TR3 to TS11716 (Items 12, 13 or 14).

The TR4 fitting kit is in our belief far superior to the original TR2/3/3A type. It allows the whole exhaust system to 'rock' as the engine moves on its mountings, causing minimal torsional forces on the individual boxes. The early (TR2/3) system 'rigidly' mounts both silencers to the cruciform, and the movement of the engine causes torsional stress on the joint between the downpipe & the silencers. This frequently reduces the life of this joint.

Purists will want the GFK6130X, but realists will buy GFK6210X for their TR2/3/3A.

TR3 from TS11717, TR3A

NI	GFK6130X	FITTING KIT (exhaust)	1	
		<i>(Includes all the part & quantities listed here)</i>		
8	GEG718	GASKET, front pipe to manifold	1	
9	101442	STUD, front pipe to manifold	3	
10	GHF333	WASHER, locking	3	
11	108951	NUT, brass	3	
27	114074	CLAMP & BRACKET (one piece)	1	
28	GEX7329	BUSH, fitted in chassis frame	4	
29	GHF242	NUT, locking, for mounting bolts	3	
30	WP17	WASHER, plain	6	
31	BH605201	BOLT, bracket to chassis frame	2	
32	GHF103	SCREW, hexagon headed	1	
40	GEX7500	CLAMP, original type	1	
41	BH605241	BOLT, clamp	1	
42	GHF301	WASHER, plain	2	
43	GHF332	WASHER, locking	1	
44	GHF201	NUT, plain	1	
51	107602	CLAMP	1	
52	GEX7044	STRAP (flexible)	1	
53	GHF301	WASHER, plain	3	
54	BH605221	BOLT	1	
55	GHF103	SCREW, hexagon headed	2	
56	GEX7510	PLATE, clamp	2	
57	GHF332	WASHER, locking	3	
58	GHF201	NUT, plain	3	

TR4

	GFK6210X	FITTING KIT (exhaust)	1	
		<i>(Includes all the part numbers & quantities listed below)</i>		
8	GEG718	GASKET, front pipe to manifold	1	
9	101442	STUD, front pipe to manifold	3	
10	GHF333	WASHER, locking	3	
11	108951	NUT, brass	3	
31	130888	BRACKET (on RH gearbox mount)	1	
32	TT9934	RING CLAMP	1	
33	GHF103	SCREW, clamping pipe	1	
34	GHF332	WASHER, locking	1	

Ill. No	Part Number	Description	Qty. Req.	Details
35	GHF201	NUT, plain	1	
36	SH608141	BOLT, bracket to g/box mounting	1	
37	GHF335	WASHER, locking on bolt	1	
40	GEX7500	CLAMP	1	
41	BH605221	BOLT, clamp	1	
42	GHF301	WASHER, plain	2	
43	GHF332	WASHER, locking	1	
44	GHF201	NUT, plain	1	
45	105578	BRACKET	1	
46	GEX7044	STRAP (flexible)	1	
47	GHF103	SCREW, hexagon headed	2	
48	GEX7510	PLATE, clamp	2	
49	GHF332	WASHER, locking	2	
50	GHF201	NUT, plain	2	
51	107602	CLAMP	1	
52	GEX7044	STRAP (flexible)	1	
53	GHF301	WASHER, plain	3	
54	BH605221	BOLT	1	
55	GHF103	SCREW, hexagon headed	2	
56	GEX7510	PLATE, clamp	2	
57	GHF332	WASHER, locking	3	
58	GHF201	NUT, plain	3	

Sports Exhaust Manifolds & Exhaust Systems

Tubular Exhaust Manifolds;

The choice of a standard TR4A manifold would clearly be the best, but in the event that you are seeking an improvement in performance - with little or no disadvantage in terms of flexibility of the engine, you should fit our TriumphTune sports extractor manifold (TT1100 in mild steel or TT1100S in Stainless Steel).

This 2-piece sports manifold is designed to fit around both models of TR starter motor.

If you are fitting this sports manifold to a TR2/3/3A or TR4, you will need 2 adaptors (TT5019 & TT5027) to join it to the main silencer (HRSU331), but, it will mate to the standard TR4A 'Y' pipe (HRSU1358) without an adaptor. Our TriumphTune extractor manifolds are manufactured on our own jigs.

See also Performance & Tuning (page 36) for details of our Moss TriumphTune 'Competition' exhaust systems (TTK1120 & TTK1121) that come with our Fast Road/Sport Tubular Manifold (TT1130S) with large primary pipes.

We also supply a Full Race Tubular Manifold (TT1130RS), that is only suitable for 89mm engines.

Sports Exhausts;

These GT Sports systems for the TR2/4A range are available in either mild or Stainless steel.

For TR2 to TR4 owners, if you don't wish to fit a tubular manifold, they will connect to your standard downpipe.

TR2, TR3/3A & TR4

Please note where a 'TT' part number for an individual component ends with an S (IE: TT1100S) it denotes that the part is manufactured in Stainless Steel. Sports Systems include fittings.

	TUBULAR MANIFOLD	NCA	TR2
TT1100	TUBULAR MANIFOLD (2 piece) mild steel	1	TR3/3A & TR4
TT1100S	TUBULAR MANIFOLD (2 piece), stainless	1	
TT5019S	ADAPTOR ('Y' piece)	1	stainless steel
TT5027S	FRONT PIPE	1	
TT5001	SPORTS SYSTEM (Mild Steel)	1	includes fitting kit
FS5001	SPORTS SYSTEM (Stainless Steel)	1	

TR4A (Single System)

Please note where a 'TT' part number for an individual component ends with an S (IE: TT1100S) it denotes that the part is manufactured in Stainless Steel. Sports Systems include fittings.

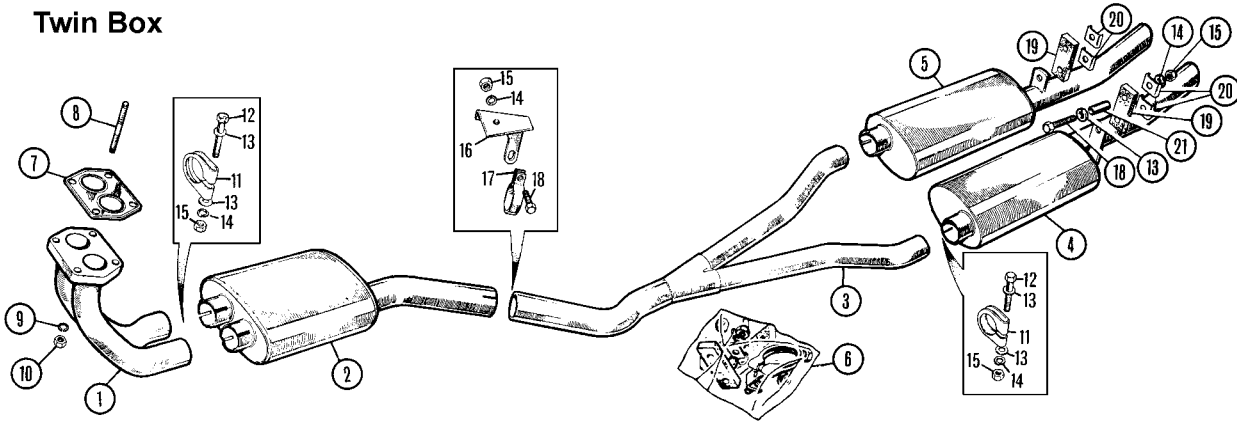
TT1100	TUBULAR MANIFOLD (2 piece)	1	mild steel
TT1100S	TUBULAR MANIFOLD (2 piece)	1	stainless steel
HRSU1358	ADAPTOR ('Y' piece)	1	mild steel
FSTH56	ADAPTOR ('Y' piece)	1	stainless steel
TT5101	Sports System (Mild Steel)	1	includes fitting kit
FS5101	SPORTS SYSTEM (Stainless Steel)	1	

TR4A (Twin System)

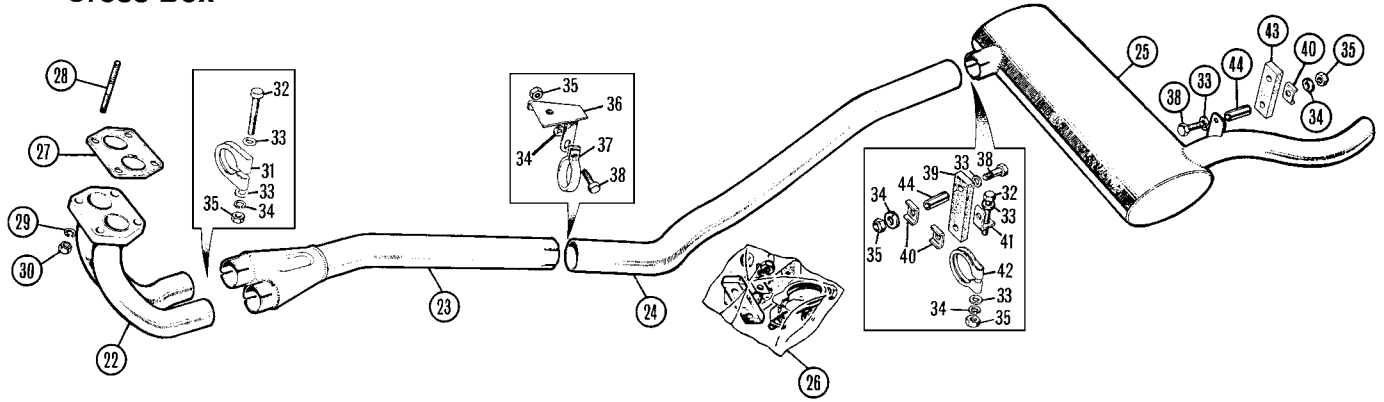
This system allows you to retain the twin system design, but with far more efficient silencers. Sports exhaust for these models are only available as separate parts.

TT1100	TUBULAR MANIFOLD (2 piece)	1	mild steel
TT1100S	TUBULAR MANIFOLD (2 piece)	1	stainless steel
HRSU1358	ADAPTOR (Front) ('Y' piece)	1	mild steel
FSTH56	ADAPTOR (Front) ('Y' piece)	1	stainless steel
HRSU1225	REAR 'Y' PIPE (Large)	1	mild steel
FSTH54	REAR 'Y' PIPE (Large)	1	stainless steel
TT5913SS	STEPPED ADAPTOR	1	stainless steel
TT5209	SILENCER	2	mild steel
FSTH73	SILENCER	2	stainless steel
GFK6310X	FITTING KIT	1	

Twin Box



Cross Box



iii. No	Part Number	Description	Qty. Req.	Details
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Stainless Steel Exhaust

If you want peace of mind, then fitting a Stainless Steel exhaust system really is a worthwhile investment. Available as a complete system, or as individual components. System utilises standard mountings.

Twin Rear Silencer System (Stainless Steel)

NI	Part Number	Description	Qty.
	FSTR4AT	EXHAUST SYSTEM	1
	FSTH47	Down Pipe (twin)	1
	FSTH48	Silencer, front	1
	FSTH54	'Y' Piece, large	1
	FSTH50	Silencer, RH rear	1
	FSTH49	Silencer, LH rear	1

Cross-Box Rear Silencer System (Stainless Steel)

NI	Part Number	Description	Qty.
	FSTR4AC	EXHAUST SYSTEM	1
	FSTH47	Down Pipe (twin)	1
	FSTH56	'Y' Piece, small	1
	FSTH55	Intermediate Pipe	1
	FSTH57	Silencer (Cross box)	1

Mild Steel Exhausts & All Exhaust Mountings

Twin Rear Silencer System

	Part Number	Description	Qty.
1	GEX1255	DOWN PIPE, twin	1
2	HRSU1224	SILENCER, front	1
3	HRSU1225	Y' PIPE	1
4	HRSU1226	SILENCER, LH rear	1
5	HRSU1227	SILENCER, RH rear	1
6	GFK6310X	FITTING KIT, (twin box exhaust)	1
<i>(Includes all the part numbers & quantities listed here)</i>			
7	GEG724	GASKET, flange	1
8	115696	STUD, manifold to downpipe	4
9	GHF333	WASHER, locking	4
10	108951	NUT, brass	4
11	GEX7506	CLAMP, original	4
12	BH605241	BOLT, hexagon headed	4
13	GHF301	WASHER, plain	8
14	GHF332	WASHER, locking	9

iii. No	Part Number	Description	Qty. Req.	Details
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15	GHF201	NUT, plain	9
16	142531	BRACKET (on RH gearbox mount)	1
17	TT9934	RING CLAMP	1
18	GHF103	SCREW, hexagon headed	5
19	GEX7359	STRAP, flexible	2
20	GEX7510	PLATE, clamp	4
21	155249	SLEEVE, distance	4

Cross-Box Rear Silencer System

22	GEX1255	DOWN PIPE, twin	1
23	HRSU1358	Y' Pipe	1
24	213214	INTERMEDIATE PIPE	1
25	307697	SILENCER, mild steel	1
	FSTH57	SILENCER, stainless steel	1 to original pattern
<i>Note: The original design mild steel rear silencer for this system is difficult to obtain. We suggest the use of the stainless steel item, or if mild steel is preferred, the TR250 twin tail pipe silencer (part no. 308329)</i>			
26	GFK6320X	FITTING KIT, (cross box exhaust)	1
<i>(Includes all the part numbers & quantities listed here)</i>			
27	GEG724	GASKET, flange	1
28	115696	STUD, manifold to down pipe	4
29	GHF333	WASHER, spring	4
30	108951	NUT, brass	4
31	GEX7506	CLAMP, exhaust, original	2
32	BH605241	BOLT, on exhaust clamp	3
33	GHF301	WASHER, plain	8
34	GHF332	WASHER, locking	8
35	GHF201	NUT, plain	8
36	142531	BRACKET (on RH gearbox mount)	1
37	TT9934	RING CLAMP	1
38	GHF103	SCREW, hexagon headed	5
39	GEX7360	STRAP, flexible	1
40	GEX7510	PLATE, clamp	6
41	105578	BRACKET, angle	1
42	GEX7500	CLAMP, original type	1
43	GEX7359	STRAP, flexible	1
44	155249	SLEEVE, distance	1

See Page 121 for Sports Exhaust Systems.

Ill. No	Part Number	Description	Qty. Req.	Details
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Road Wheels

See also Accessories

The road wheels fitted to TR's of the late 1950's and 60's were of a relatively narrow width due to the tyre technology in use at that time. All the TR's (TR2 to TR6) have 15" inch diameter wheels. The TR2 originally had 4J wheel. This was appropriate for 155x15 or 5.60x15 tyres (according to whether it was radial or cross ply). The wheels were painted the same colour as the car, but eventually ended up as silver or creamy white. Steel disc wheels were also fitted with an embellishing chrome hub cap incorporating, in the middle, a Triumph globe medallion.

The 4.5J wheels were introduced during the early production of the TR2. It's all somewhat academic as neither of these wheels are available. The 4.5 inch wheel was then fitted all the way through the TR3, TR3A, TR4 and TR4A range, and was silver grey in colour as standard fitment, although some cream wheels seem to have been fitted as standard to some TR4 or TR4A vehicles.

Having given you the bad news that original wheels are no longer available, we have two very attractive alternative aftermarket wheels. They are both 5.5Jx15 and are designed to fit all TR's from TR2 through to TR6 (not recommended for Lockheed rear axle cars due to the inherent weakness of the rear half shaft & bearing arrangement). These replica 'Minilite' wheels are made from aluminium rather than the Magnesium originals. The difference in the wheels is that a GAC8225X is designed to simply bolt-on with four securing nuts as original. The GAC8255X has a centre lock spline and is secured to the car by knock-on nuts of either the octagonal or 'two-eared' variety. Of course, this wheel requires a splined hub adaptor to be fitted to the car before it can be used.

For owners of chromed wire wheels who want an easy to clean wheel for winter use these alloys are ideal.

Some TR4/4A owners have experienced clearance problems between the top ball joint mounting bolts on the front suspension and the inside edge of the 'Minilite' replica alloy wheels. The reduction in length of the outer mounting bolt, so that only '3 threads' protrude through the nut, will help to stop the impingement problem. If the problem persists we suggest the use of a spacer kit (TT6902). One spacer to be fitted between each front wheel and the front hub flange. Remember that special wheel nuts are required to fit these 'Minilite' replica wheels to your TR. (Set of 16 nuts = GAC4116X)

Wire wheels were available in either a painted or chrome finish, and standard fitment on TR2's and TR3's was the 48 spoke 4J wheel, which was frankly rather weak. (It is the same wheel fitted to all MG's)

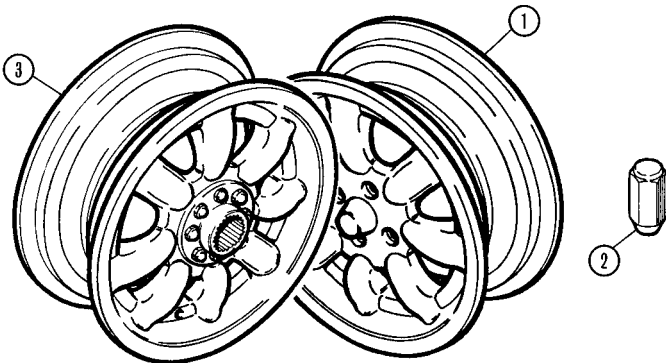
From TR3A onwards, including most TR4's & all TR4A's, a stronger 60 spoke 4.5J was fitted, this could also be fitted to all TR2 and TR3 cars which came with 48 spoke wheels, without modification to body or suspension. It should be noted that the wider wheels may put a strain on the early Lockheed rear axle oil seals, so you should be prepared to change these probably once every two to three years to avoid major oil leaks, rendering the rear brakes ineffective. The 4.5 wheels (both steel & wire) are suitable for fitment with 165x15 or 5.90x15 tyres. Wider tyres are not recommended, as the flexibility of the side walls can actually reduce the cars ability to handle, rather than improve it.

We stock and sell only genuine Dunlop wire wheels. We avoid selling spokes and nipples, because to make a wire wheel needs considerable training (& skill) – and we don't ever want to be responsible for helping people 'bodge' up a worn-out wheel. Rarely is it possible to find anyone in the UK who will rebuild a wheel, the cost far outweighs the purchase of a replacement – rebuilding is always the last resort.

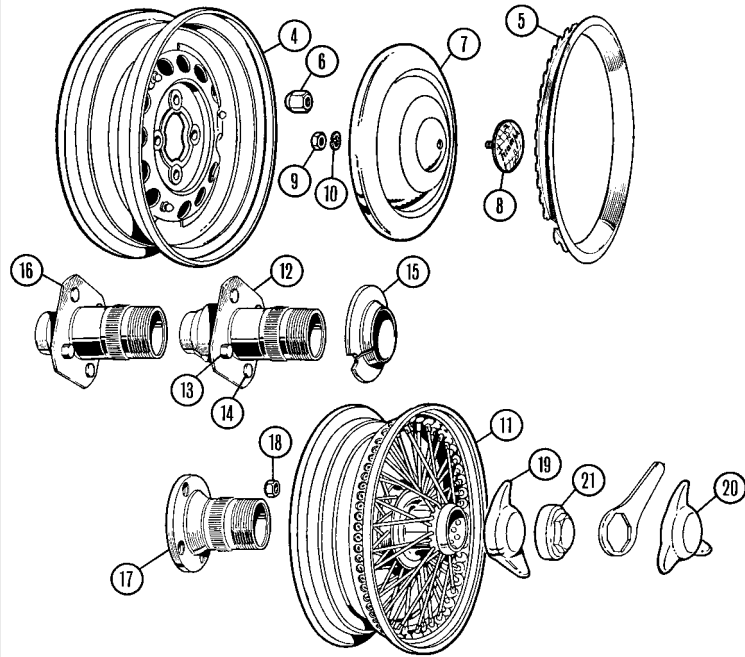
New Dunlop wire wheels are still produced by hand (the only way to do the job) by highly trained staff in India, where labour costs are significantly lower allowing a reasonable price.

The huge cap medallion on the TR2 to TR4 A was of two varieties. Both the Lockheed and early Girling cars were fitted with a very nice cloisenne, period enamelled item, while late Girling cars were fitted with an item made from aluminium and painted with blue & red paint. We are unsure as to when the change point occurred, but thanks to a letter from Kenneth Rawson of Todmorden, Lancashire, we know that the cloisenne example was fitted to TR3A models as late as commission number 20504.

If you can be sure of continued use after this commission no. we would be glad to hear from you.



1	GAC8225X	MINILITE 'Replica' (Silver)	4	(Bolt-on)
	GAC8235X	MINILITE 'Replica' (Flint)	4	5 1/2" J X 15
See also Accessories				
	TT6902	HUB SPACER KIT	a/r	(if required, see intro text)
2	GAC4116X	WHEEL NUT SET	1	for bolt-on Minilite 'Replicas'
3	GAC8255X	MINILITE 'Replica' (Silver)	4	(Centre lock)
	GAC8265X	MINILITE 'Replica' (Flint)	4	5 1/2" J X 15
See also Accessories				



Ill. No	Part Number	Description	Qty. Req.	Details
4	301672	ROAD WHEEL, (Steel, 4 x 15)	5	TR2, TR3 to TS13045
	302262	ROAD WHEEL, (Steel, 4.5 x 15)	5	TR3 from TS13046, TR3A, TR4/4A
5	502160	TRIM RING, chrome	5	
6	109586	WHEEL NUT	16	
7	201870	HUB CAP	4	
8	101042	MEDALLION, enamelled	4	TR2/3/3A
	113256	MEDALLION, painted	4	TR3A, TR4/4A
9	HN2005	NUT, retaining medallion	4	
10	WL700101	WASHER, locking	4	
11	WWP450	WIRE WHEEL, painted, 4J x 15	5	48 spoke
	WWC450	WIRE WHEEL, chrome, 4J x 15	5	
	WWP452	WIRE WHEEL, painted, 4.5J x 15	5	60 spoke
	WWC452	WIRE WHEEL, chrome, 4.5J x 15	5	
NI	452-755	INNER TUBE, (15" x 165 tyre)	a/r	
	452-765	INNER TUBE, (15" x 185 tyre)	a/r	
NI	452-750	RIM BAND, (15")	a/r	
See also Accessories				
12	108277	HUB, wire wheel, front, RH	1	
	108278	HUB, wire wheel, front, LH	1	
13	109457	PEG, collar locating	2	TR2, TR3 to TS13045
14	107950	PEG, brake drum to hub	6	fitted with Lockheed brakes
15	107942	COLLAR, tapered, wire wheel	2	
16	217602	HUB, wire wheel, rear, RH	1	
	217603	HUB, wire wheel, rear, LH	1	

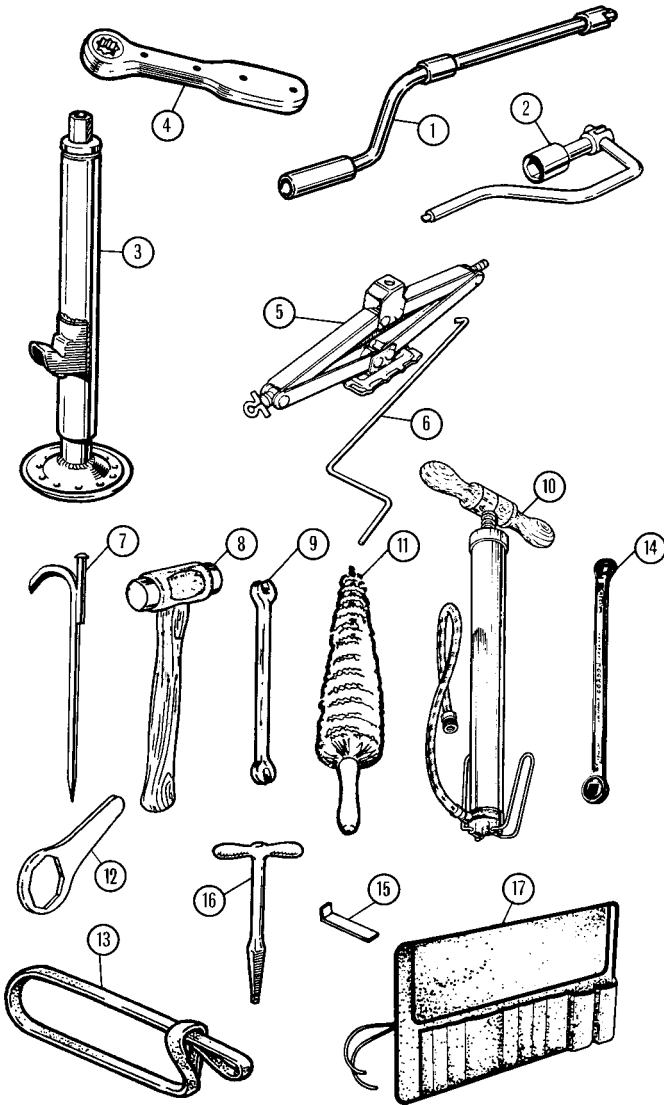
For information on converting steel wheel Girling solid axle and IRS TR's to wire wheels, please refer to TR2/TR3/3A Front Suspension.

17	217602	EXTENSION, hub, splined, RH	2	TR3 from TS13046,
	217603	EXTENSION, hub, splined, LH	2	TR3A &
18	110366	NUT, extension to hub	16	TR4/4A
19	AHA7373	WHEEL NUT, RH knock-off	2	2-eared
	AHA7374	WHEEL NUT, LH knock-off	2	
20	107948/3	WHEEL NUT, RH knock-off	2	3-eared
	107949/3	WHEEL NUT, LH knock-off	2	
21	88G606	WHEEL NUT, RH knock-off	2	octagonal
	88G606	WHEEL NUT, LH knock-off	2	

HUB (Wire Wheel) Conversion Kits

Note: Kits do NOT include wheels. See also Accessories.

28	GAC7050X	HUB CONVERSION KIT	1	2-eared
Kit includes splined hubs, bevelled nuts, spinners and a hide hammer.				
29	GAC7049X	HUB CONVERSION KIT	1	octagonal
Kit includes splined hubs, bevelled nuts, spinners and a hide hammer.				



Ill. No	Part Number	Description	Qty. Req.	Details
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Roadside Tools & Equipment

See Accessories for our full range of Tools & Garage equipment

1	107863	STARTING HANDLE	1	TR2/3
	118366	STARTING HANDLE	1	TR3A
	131818*	STARTING HANDLE	1	TR4 (option)

*Note: May be used on TR4's with 'starter hole' in radiator

2	516677	SPANNER, wheel nut	1	
3	110774	JACK	1	TR2/3/3A, TR4
4	121790	HANDLE, ratchet, for jack	1	

Note: TR2 to TS5468 used a very different jack. The jack listed here will work on these early cars.

5	212677	JACK	1	TR4A
6	UKC4389	HANDLE, for jack	1	
7	509816	COMBINATION TOOL	1	hub cap removal

8	C27290	HAMMER, wire wheels	1	copper/hide
	88G329	HAMMER, wire wheels	1	lead
9	MM385-800	SPANNER, wire wheel spokes	1	

This wide faced spanner is the correct size to tighten spoke nipples without rounding them off. Quality steel is used and the spanner is plated.

10		TYRE PUMP		NCA
11	GAC4089	BRUSH, wire wheels	1	
12	AHH5839	SPANNER, wire wheel 'octagon nut'	1	
13	JRC7954	STRAP, spare tyre removal	1	

It is worth noting that if have a TR2/3 or TR3A to TS60000, and fit 4.5 inch wide wheels with a 165x15 (or 5.90x15) tyre, it will be a real struggle to get it into the spare wheel compartment. That struggle however, will pale in to insignificance compared with getting the little out! Recommended is our strap with ends protruding to help pull it out. The TR3A from TS60001 has a larger space.

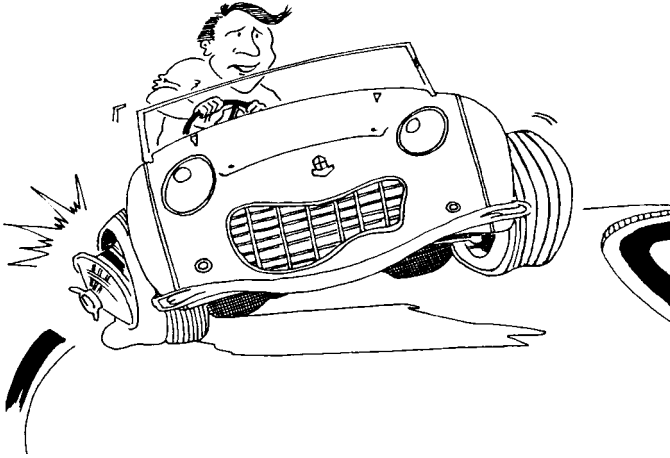
14	GAC5051	SPANNER, brake adjusting	1	Girling brakes
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1/4" and 5/16" square holes to fit both early and late Girling adjusters.

15	NAM1412	TOOL, headlamp rim removal	1	Clip-on type
16	650161	T' HANDLE, for Dzus fasteners	1	TR2/3/3A

17	MM647-100	TOOL ROLL (coated jute)	1	TR2/3
	MM647-110	TOOL ROLL (vinyl)	1	TR3A
	MM647-120	TOOL ROLL (vinyl)	1	TR4/4A



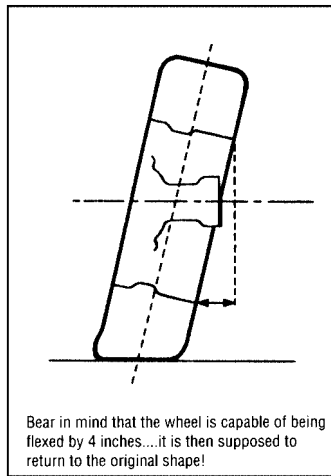


So You Think You've Got Wobbly Wire Wheels? (By Pete Cox)

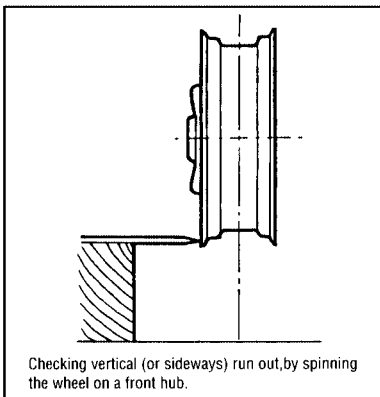
Back in the good old days when Pete Buckles and myself were just young lads, we were able to buy virtually direct from Dunlop, so the wire wheels were inexpensive. These British made wheels were sold mostly to the TR Register members at insanely low prices. 4.5" x 60 spoke wire wheels went out at £4.10.0d!, with no VAT to pay and we still made a pound on each wheel!
The low prices enabled me to indulge in experiments: if they didn't work (or fit), offending wheels would always be 'sold on' and a couple of 'bob' profit could still be made.

So my TR2, an attractive beast wearing glistening Midnight Blue paint work and not so glistening (but by then typical), rusty quarter panels, finalised it's development with the unusual combination of 6" Cobra wheels at the front and, 5.5" TR6 wheels at the rear. This was because the TR2 was always enthusiastically driven and the growing pile of Lockheed half shafts finally stopped growing the day a second hand TR4 rear axle was installed, its extra width requiring the above wheel combination to balance its cornering habits.

Now, wire wheels are built to flex (or bend) and this was brought shockingly home to me on one occasion when Pete Buckles visited me in Birmingham (remember Clapgate Lane?). We were off to visit a supplier (who incidentally, still stamps out trunnion blanks for Moss). Pete's TR3 followed my TR2 down an interestingly twisty road which I happened to know particularly well, and, after exiting a seriously exciting corner I looked in the mirror to check on the progress of our illustrious leader, and was horrified to see his car in a lurid slide (he maintained it was under control) with its outside front wheel keeling over at a crazy angle, almost 6° off vertical.
This memory has remained vivid ever since, and is one explanation why Moss Europe (formerly Cox & Buckles) do not sell second hand or reconditioned wire wheels.



Bear in mind that the wheel is capable of being flexed by 4 inches...it is then supposed to return to the original shape!



Checking vertical (or sideways) run out, by spinning the wheel on a front hub.

If it is assumed that both hub & rim of a wire wheel are in good condition, it may be worth having the wheel re-spoked 'as necessary' and then trued up by a competent re-builder. The wheel will probably need shot blasting and stove enamelling which will bring the cost to near to (or possibly over) the price of a new wheel. Remember also that you have got a used, worn wheel, not a nice new one. Bear in mind then, that the wheel is capable of being flexed by 4" (i.e., the hub is fixed and the top of the wheel is 4" further out than the bottom), while it is rotating at speed on the road, and it is then supposed to return to the original shape.

**NOW decide if you still want the wheel re-built!
We certainly would not want to guarantee one.**

Slight sideways run-out (or 'out of true') with wire wheels is therefore not significant: a couple of hard corners will soon re-arrange the wheel spokes anyway. Vertical 'run out' should not be permitted, ever. By far the most common cause of wire wheel 'wobbles' is an incorrect method employed in balancing. A simple spirit level balancer is the thing to seek out. Under no circumstances should balancing be attempted on the now common dynamic machine without the use of the special sprung cones shown in the illustration, because, although the wheel locates correctly on its inner coned surface, these machines 'try' and locate onto the inside of the wire wheels outer flange - which is NOT a true machined surface. This incorrect technique appears as terrific sideways run-out and the balancing 'specialist' always blames the wheel. Now you know the truth.

It is always best to check the wire wheel by clamping it onto a front hub, using the correct knock-on nut BEFORE fitting the tyre.

Spin the wheel on the hub & check sideways or vertical run-out as shown in the illustration, and observe or measure the run-out. + or - 1/16" is not a problem, even +/- 1/8" is barely detectable on the road.

So the conclusion is summarised as follows

Our new wire wheels are built and assembled to the highest standards

When your wheel/tyre fitter says they are no good, there is a very, very strong chance that he is not using the equipment in a fashion which is appropriate for wire wheels. The above tips will allow you to check the 'truth' of the wire wheel, whether the wheel is new or used.

It's a sad truth wire wheels have a bad reputation that they don't deserve, but the people who give them a bad reputation, actually deserve it themselves. We have total confidence in the Dunlop product we sell.

Pete Cox

How To Balance Centre Lock Wire Wheels

We show here the advice given to tyre fitters, produced by Motor Wheel Service.

These notes are intended as a guide in helping to solve problems that are commonly encountered when balancing centre lock wire wheels on a electronic balancer.
The diagrams show the centre spline of a wire wheel attached to a balancer

Diagram A ...
is the correct method of locating the wheel.

Diagram B ...
shows the wrong method and one which gives false readings, giving the appearance of untrue or wheels that require large amounts of weights to balance the wheel.

Points To Check

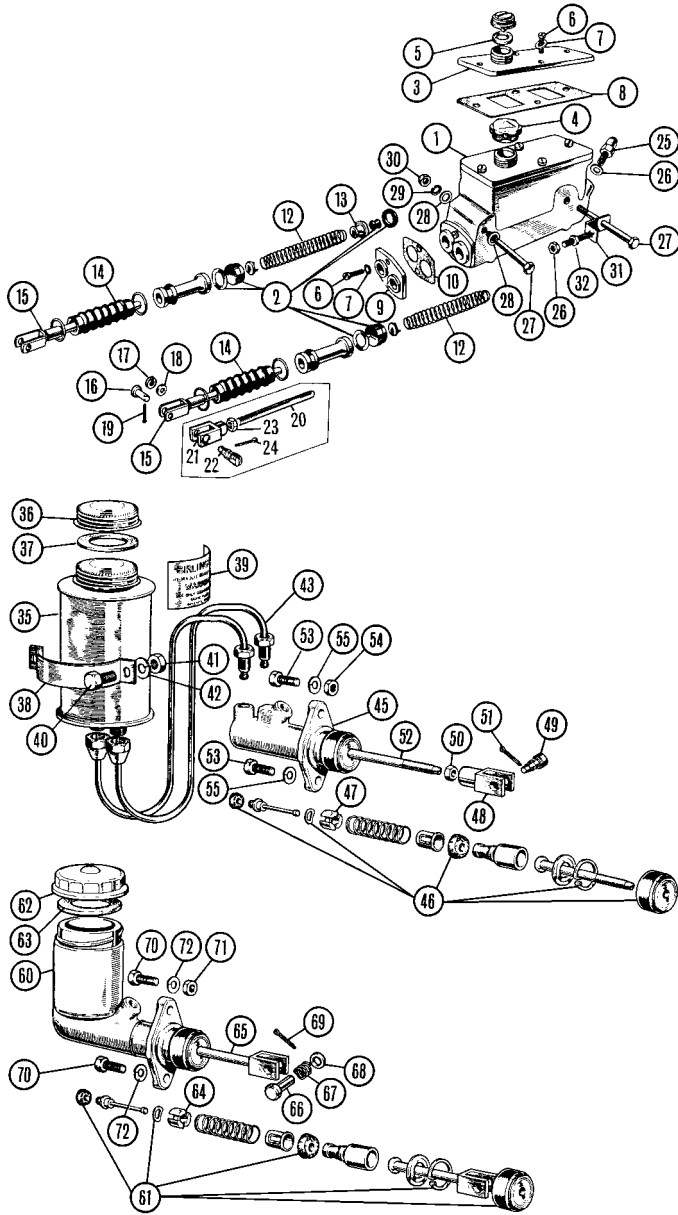
- The original high degree of balance may be affected by wheel damage as well as by other factors related to the tyres such as uneven tread wear, cover or tube repairs.
- If vibration or high speed steering problems develop, and this cause is not disclosed by mechanical investigation, then the complete tyre & wheel assembly should be checked for balance.
- It is IMPERATIVE that the hubs are located in the balancing machine in exactly the same manner as located on the car, and the factory truing jigs. Alternatively, balance on the vehicle, this operation can only be done on the front wheels.

'Motor Wheel Services' dedicate considerable time to ensure that your wheels are of the highest quality & reliability. Following this guide, and the information contained in our centre-lock brochure will provide the highest level of customer satisfaction.

Motor Wheel Service dedicate considerable time to ensure that your wheels are of the highest quality and reliability. Following this guide and the information contained in our centre lock brochure, your wheels will provide the highest level of customer satisfaction



Motor Wheel Service



Ill. No	Part Number	Description	Qty. Req.	Details
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Brake Master Cylinder

One of the nicer things about the early TR's are the simple ways that Triumph used to improve the performance. Brakes were gradually improved and these 'simple ways' allow great inter-change-ability, even of TR4 to TR6 parts on the earlier TR's. This does create a problem for the TR owner as he may not necessarily be aware of the source of the parts, so hopefully the following pages will unravel the mysteries. Some of the changes may have been caused by non-availability of original parts. The most common change is the total replacement of the TR2/3 Lockheed axle with the Girling axle, and all its related brake parts.

For master cylinder support brackets see 'Master Cylinder Mountings & Pedal'

Lockheed Brake Hydraulics (TR2, TR3 to TS13045)

1	LK36944	MASTER CYL, clutch & brake	1	(original)
	LK36944X	MASTER CYL, clutch & brake	1	(replacement)

The original cylinder (part no. LK36944) is no longer available. The cylinder we supply (part no. LK36944X) is the closest to the real thing, including the fact that it is ungodly in price. The clutch pipe outlet has a different thread and requires an adaptor.

Originality freaks will be pleased that you can't really see this when fitted.

Our replacement is called a kit because it comes complete with a brake pipe which has a UNF thread at one end (for attachment to the replacement master cylinder) and a BSF thread at the other end to mate with the four-way brake banjo adaptor. This kit also includes the clutch pipe adaptor.

2	8G8224	REPAIR KIT, services both types	1	(bellows not included)
3	501189	COVER (original cylinders)	1	
4	513123A	FILLER CAP, plastic	1	(replaces metal cap)

Ill. No	Part Number	Description	Qty. Req.	Details
5	501524	WASHER	1	(for original metal cap)
6	AAA4758	SCREW, cover to body	a/r	
7	WN707	WASHER, star	a/r	
8	501190	GASKET, cover (original cylinders)	1	
9	501193	PLATE, front	1	
10	AAA4757	GASKET, for plate	1	(replace when rebuilding cyl)
12	AJH5083	SPRING	2	
13	059267	CHECK VALVE (brake only)	1	
14	501194	BELLOW, push rod	2	
15	501775	PUSH ROD ASSEMBLY	2	see item 20
16	PJ8812	CLEVIS PIN	2	
17	AJD7731	WASHER, double coil	2	
18	GHF301	WASHER, plain	2	
19	PS103121	SPLIT PIN	2	
The original push rod (501775) is no longer available. Those of you missing the original push rod can make one with the following parts, (items 20 to 24).				
20	504852	PUSH ROD, (cut to fit)	2	
21	057194	FORK	2	
22	216421A	SCREW PIN, with spring	2	
23	NT605041	NUT, 'jam', for fork	2	
24	GHF502	SPLIT PIN	2	
25	21K8564	ADAPTOR, clutch pipe	1	(original)
	21K8564	ADAPTOR, clutch pipe	1	(replacement)
26	233220A	WASHER, copper	1	
27	BH605261	BOLT, master cylinder	2	
28	GHF302	WASHER, plain	4	
29	GHF333	WASHER, locking	2	
30	GHF202	NUT	2	
31	107691	BRACKET ASSEMBLY	2	cylinder adjustment
32	NT604041	NUT, 'jam'	4	

Girling Brake Hydraulics (TR3 from TS13046, TR3A)

35	114530	RESERVOIR, brake & clutch fluid	1	
36	500201A	FILLER CAP	1	
37	106095	SEAL, filler cap	1	
38	113368	CLAMP, reservoir mounting	1	
39	CRST148	DECAL, 'GIRLING WARNING'	1	
40	GHF117	SCREW	2	
41	GHF200	NUT, plain	2	
42	GHF331	WASHER, locking	2	
43	505062	PIPE, brake & clutch	1	
45	GR64067854	MASTER CYLINDER, brake	1	
46	GRK1027	REPAIR KIT	1	
47	111163	SPACER	1	

Internal components of Girling cylinders fitted on TR3/3A up to TS34311 may vary. Therefore, if in doubt, fit GR64067854 cylinder assembly.

48	057194	FORK	1	
49	216421A	SCREW PIN, with spring	1	
50	NT605261	NUT, 'jam', for fork	1	
51	GHF502	SPLIT PIN	1	
52	507206	PUSH ROD	1	
53	SH605071	SCREW, cylinder to support bracket	2	
54	GHF201	NUT, plain	1	
55	GHF332	WASHER, locking	2	

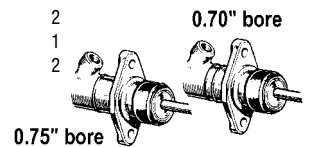
Girling Brake Hydraulics (TR4/4A)

60	131661	MASTER CYL, brake	1	TR4 (0.75" bore)
	132909	MASTER CYL, brake	1	TR4A (0.70" bore)
61	GRK1027*	REPAIR KIT	1	TR4 (0.75" bore)
	18G8986*	REPAIR KIT	1	TR4A (0.70" bore)
62	510844	CAP	1	
63	606404A	SEAL, filler cap	1	
64	111163	SPACER	1	
65	510197	PUSH ROD	1	

Note: TR4's to CT5783 used a cylinder with a 0.75" bore. All later cars had 0.70" bores.

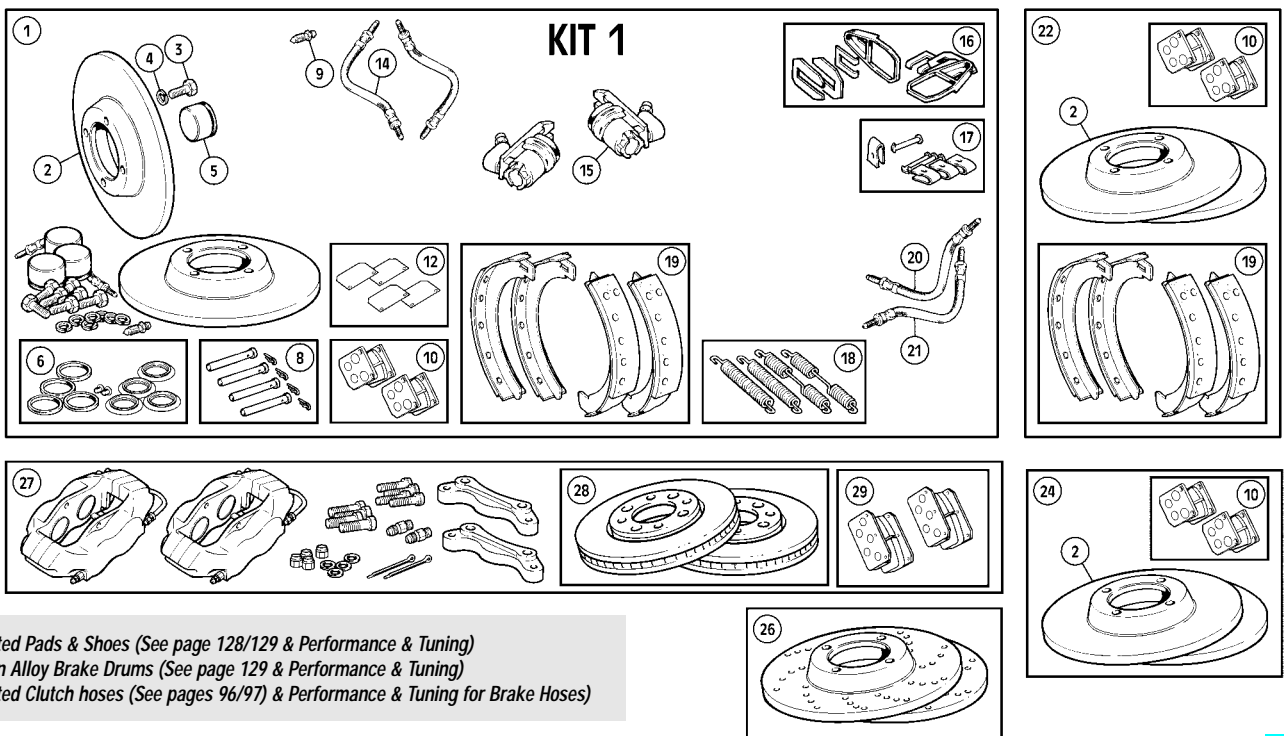
Cylinders are identified by rings cast in the bodies. Part no 131661 had one ring and has a 0.75" bore, part no 132909 had two rings and has a 0.70" bore.

66	PJ8812	CLEVIS PIN	1	
67	131787	SPRING, anti-rattle	2	
68	GHF301	WASHER, plain	1	
69	GHF503	SPLIT PIN	1	
70	GHF103	SCREW, cylinder to bracket	2	
71	GHF202	NUT, plain	1	
72	GHF332	WASHER, locking	2	

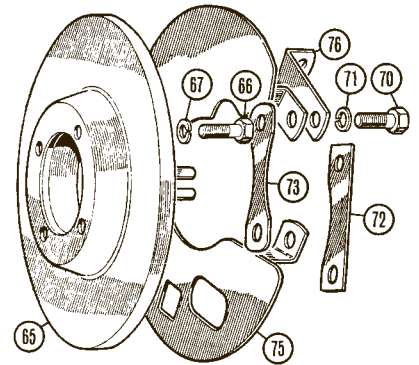
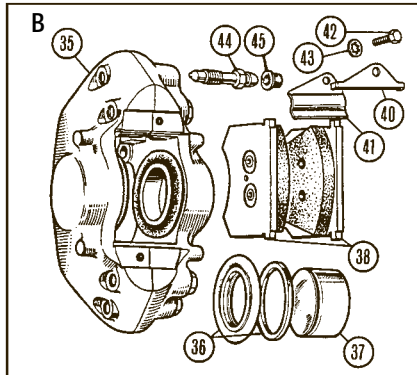
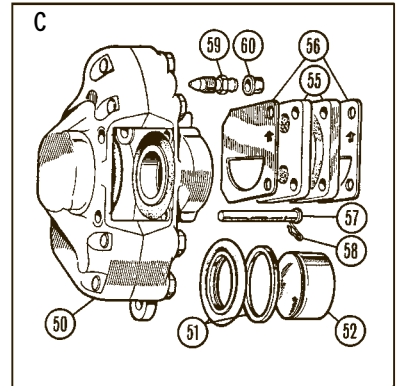
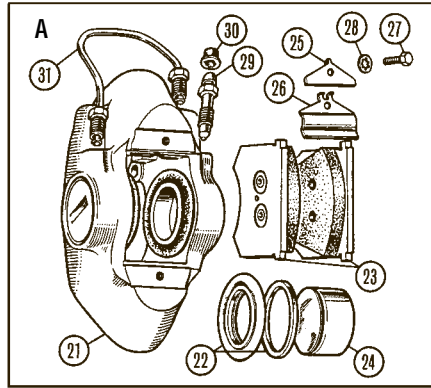
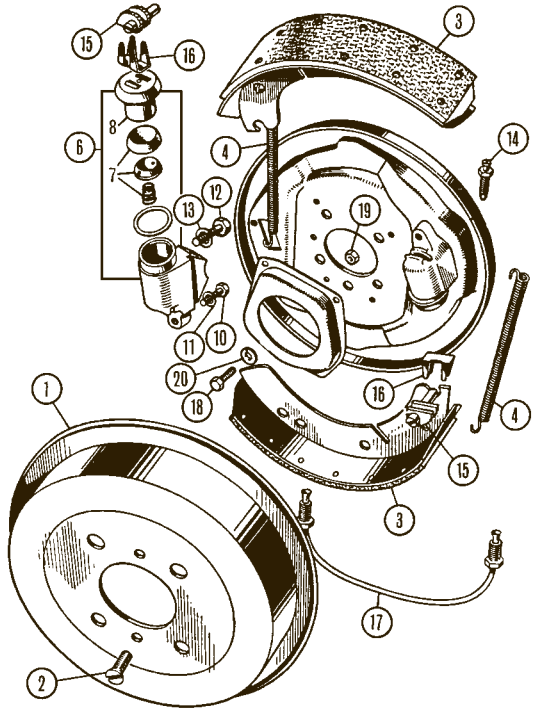


III. No	Part Number	Description	Qty. Req.	Details
Master Cylinder Mountings & Pedal				
<i>For numbered illustration please refer to page 95.</i>				
NI	106668	BRACKET ASSEMBLY	1	TR2, TR3 to TS13045
	203239	BRACKET ASSEMBLY	1	TR3 from TS13046, TR3A
	138910	BRACKET ASSEMBLY	1	TR4/4A
NI	106670	COVER ASSEMBLY, pedal shaft	1	
NI	GHF201	NUT, bracket & cover to bulkhead	4	
NI	GHF332	WASHER, locking	4	
NI	SH605061	SCREW	2	cover & m/cyl to bulkhead
NI	GHF332	WASHER, locking	2	
NI	SH605051	SCREW, cover to bulkhead	2	
NI	GHF332	WASHER, locking	2	
NI	HU709	SCREW, pedal stop	2	
NI	JN2107	NUT, jam	2	
NI	106672	PEDAL, clutch, RHD	1	TR2, TR3 to TS13045
	113363	PEDAL, clutch, RHD	1	TR3 from TS13046, TR3A
	133810	PEDAL, clutch, RHD	1	TR4/4A
	106766	PEDAL, clutch, LHD	1	TR2, TR3 to TS13045
	113363	PEDAL, clutch, LHD	1	TR3 from TS13046, TR3A
	129275	PEDAL, clutch, LHD	1	TR4/4A
NI	106673	PEDAL, brake, RHD	1	TR2, TR3 to TS13045
	113366	PEDAL, brake, RHD	1	TR3 from TS13046, TR3A
	133808	PEDAL, brake, RHD	1	TR4/4A
	106767	PEDAL, brake, LHD	1	TR2, TR3 to TS13045
	113364	PEDAL, brake, LHD	1	TR3 from TS13046, TR3A
	129277	PEDAL, brake, LHD	1	TR4/4A
NI	100954	BUSH, pedal pivot	4	
NI	110016	SHAFT, pedal	1	
NI	106678	BRACKET, pedal shaft	2	
NI	SH606051	SCREW, bracket to shaft	2	
NI	GHF333	WASHER, locking	2	
NI	PJ8812	CLEVIS PIN	2	TR2, TR3 to TS13045
	216421A	SCREWED PIN	2	TR3 from TS13046, TR3A
	PJ8812	CLEVIS PIN	2	TR4/4A
NI	AJD7731	WASHER, double coil	2	TR2, TR3 to TS13045
	131787	SPRING, anti-rattle	2	TR4/4A
NI	GHF301	WASHER, plain	2	TR2, TR3 to TS13045, TR4/4A
NI	PS103121	SPLIT PIN	2	TR2, TR3 to TS13045
	GHF502	SPLIT PIN	2	TR3 from TS13046, TR3A
	GHF503	SPLIT PIN	2	TR4/4A
NI	105159	PEDAL RUBBER, ribbed	2	TR2, TR3 to TS13045
NI	122289	PEDAL RUBBER, 'Triumph' logo	2	TR3 from TS13046, TR3A
NI	057950	SPRING, pedal return	2	TR4/4A

III. No	Part Number	Description	Qty. Req.	Details
Standard & Up-rated Brake Kits/Components				
<i>See also Performance & Tuning</i>				
<i>Only For Vehicles with:</i>				
<i>10.13/16" Front Brake Discs using Type C Brake Calipers and 9" Rear Brake Systems.</i>				
Brake Kit 1 (Standard Brake Discs, Pads, Shoes, Hoses & Fittings)				
1	TGK130	BRAKE KIT	1	
2	209327	BRAKE DISC, front brake caliper	2	
3	113150	BOLT, friction disc to front hub	8	
4	WL209	WASHER, locking	8	
5	510792	PISTON, caliper	4	
6	601960	SEAL SET, caliper, car set	1	
8	GBK1003	PAD FITTING KIT	1	
9	108756	SCREW, bleed nipple	2	
10	GBP114	BRAKE PAD SET, standard	1	
12	GRSP2750	SHIM SET, anti-squeal	1	
14	GBH176	HOSE, flexible, front	2	
15	GWC1154	REAR WHEEL CYLINDER	2	
16	GRSP2862	FITTING KIT	1	cylinder to back plate
17	BAU1420A	FITTING KIT	1	brake shoe hold down set
18	GRSRS8	FITTING KIT	1	brake shoe return springs
19	GBS778AF	BRAKE SHOE SET, standard	1	
20	GBH178	HOSE, flexible, rear LH	1	
21	GBH177	HOSE, flexible, rear RH	1	
Brake Kit 1A (Standard Brake Discs, Pads & Shoes)				
22	TGK133	BRAKE KIT	1	
2	209327	BRAKE DISC	2	
10	GBP114	BRAKE PAD SET	1	standard
19	GBS778AF	BRAKE SHOE SET	1	
Brake Kit 1B (Standard Brake Discs & Pads)				
24	TGK135	BRAKE KIT	1	
2	209327	BRAKE DISC	2	
10	GBP114	BRAKE PAD SET	1	standard
Cross-Drilled Brake Disc Set				
<i>These specially drilled brake discs will dissipate heat and shed water quicker than the standard solid versions, assuring faster and more consistent braking under all conditions.</i>				
26	209327XK	BRAKE DISC SET, cross-drilled	1	(Note: discs are handed RH/LH)
4 Pot (283mm) Vented Brake Caliper Kits				
<i>The ultimate in braking efficiency, our 4 pot vented brake kit is supplied with 4 pot alloy calipers, adaptor plates, vented discs and fast road pads for maximum stopping power.</i>				
27	SPB3252	VENTED BRAKE KIT	1	
	SPB3252X	VENTED BRAKE KIT	1	Cross-drilled discs
28	SPB32524	BRAKE DISC SET, vented	1	
	SPB32524X	BRAKE DISC SET, vented & cross-drilled	1	
29	RD150-3668	BRAKE PAD SET, soft	1	road
	RD1311	BRAKE PAD SET, medium	1	fast road/test day
	RD1313	BRAKE PAD SET, hard	1	race



for Up-rated Pads & Shoes (See page 128/129 & Performance & Tuning)
 for Al-Fin Alloy Brake Drums (See page 129 & Performance & Tuning)
 for Up-rated Clutch hoses (See pages 96/97) & Performance & Tuning for Brake Hoses)



Ill. No	Part Number	Description	Qty. Req.	Details
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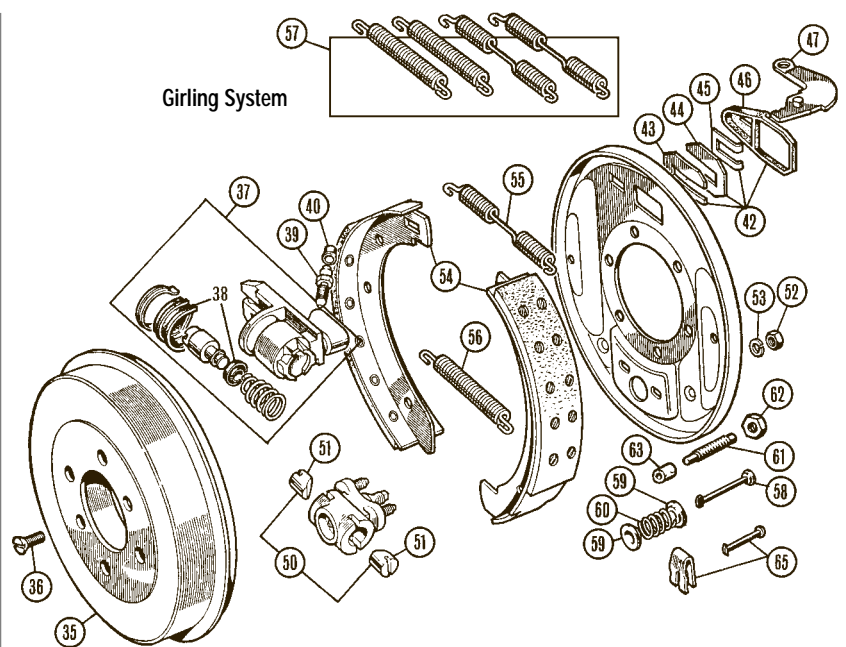
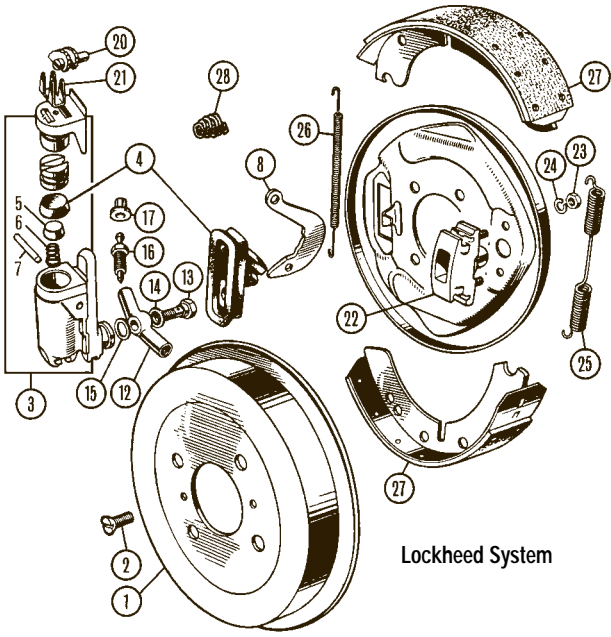
Front Brakes

Ill. No	Part Number	Description	Qty. Req.	Details
1	301126	BRAKE DRUM, (10") front	2	
2	V5435	SCREW, drum retaining	4	
3	LKKB1010R	SHOE SET, (10"), front, (relined)	1	
4	7H7936	SPRING, brake return	4	
6	GWC110	WHEEL CYLINDER, RH	2	
	GWC111	WHEEL CYLINDER, LH	2	
7	8G8245	REPAIR KIT	4	
8	7H7941	PISTON ASSEMBLY	4	
10	SH605051	SCREW, 5/16" (one per cylinder)	4	
11	GHF332	WASHER, locking, 5/16"	4	TR2, TR3 to TS13045
12	SH604031	SCREW, 1/4" (one per cylinder)	4	
13	GHF331	WASHER, locking, 1/4"	4	
14	3H2428	BLEED NIPPLE	2	
15	7H7931	ADJUSTER	4	
16	7H7930	MASK, adjuster	4	
17		BRIDGE PIPE, (see page 131)		
	(Note: Bridge pipes are only supplied in our Brake Pipe Sets)			
18	TR6504	SCREW, grease catcher retaining	8	
19	HN2005	NUT, plain	8	
20	WL700101	WASHER, locking	8	
21	203544E	CALIPER ASSEMBLY RH	1	'A' type
	203543E	CALIPER ASSEMBLY LH	1	solid calipers
22	601960	REPAIR KIT (for 2 calipers)	1	
23	GBP172	PAD SET	1	Illustration A
24	510792	PISTON	4	TR3 from TS13046,
	510792SS	PISTON, stainless steel	4	TR3A to TS56376,
25	504833	PLATE, pad retaining	4	(wire wheels)
26	119245	SPRING, anti-rattle	4	& to TS56838
27	SH604041	SCREW, for plate & spring	4	(steel wheels)
28	GHF331	WASHER, locking	4	
29	601959	BLEED SCREW	2	
30	234957A	CAP, bleeder screw	2	
31	504854	BRIDGE PIPE RH (9")	1	
	504853	BRIDGE PIPE LH (9")	1	
35	205396E	CALIPER ASSEMBLY RH	1	'B' type
	205395E	CALIPER ASSEMBLY LH	1	Split calipers
36	601960	REPAIR KIT (for 2 calipers)	1	
37	510792	PISTON	4	Illustration B
	510792SS	PISTON, stainless steel	4	TR3A from TS56377
38	GBP172	PAD SET	1	(wire wheels)
40	509051	PLATE, pad retaining	4	TS56834 (steel wheels)
41	509049	SPRING, anti-rattle	4	TR3B (TSF series)
42	SH604041	SCREW	4	TR4 to CT4689 (wire wheels)
43	GHF331	WASHER, locking	4	& CT4387 (steel wheels)
44	601959	BLEED NIPPLE	2	
45	234957A	CAP, bleed nipple	2	

Ill. No	Part Number	Description	Qty. Req.	Details
50	27H2988E	CALIPER ASSEMBLY, RH, rebuilt	1	'C' type
	27H2989E	CALIPER ASSEMBLY, LH, rebuilt	1	Split calipers
51	601960	REPAIR KIT (for 2 calipers)	1	
52	510792	PISTON	4	
	510792SS	PISTON, stainless steel	4	Illustration C
55	GBP114	PAD SET, standard	1	TR3B, (TCF series)
	TT31501KV	PAD SET, Kevlar (fast road/sport)	1	TR4/4A from
	TT3150	PAD SET, Mintex M1144 (fast road/race)	1	CT4690 (wire wheels)
	GRPFK1	FITTING KIT, brake pads		& CT4388 (steel wheels)
56	GRPS2750	SHIM SET, anti-squeal	1	
57	011368A	PIN, pad retaining	4	
58	011369A	CLIP, for pin	4	
59	556508A	BLEED NIPPLE	2	
60	234957A	CAP, bleed nipple	2	
65	203189	BRAKE DISC (11")	2	use with calipers A & B
	209327	BRAKE DISC, (10 13/16"), standard	2	use with
	209327XK	BRAKE DISC, (10 13/16"), cross drilled	2	type C calipers
66	113150	BOLT, disc to front hub	8	
67	GHF333	WASHER, locking, for bolt	8	
70	BTB610	BOLT, caliper mounting	4	
71	WL600071	WASHER, locking, for bolt	4	
72	560199	LOCK TAB	2	(alternative to WL600071)
73	115682	SHIM, caliper mounting	a/r	
		use to centralise the caliper on the disc.		
75	204378	DUST COVER, RH	1	use with calipers A & B
	204379	DUST COVER, LH	1	
	209325	DUST COVER, RH	1	use with type C calipers
	209326	DUST COVER, LH	1	(except TR4A)
	307226	DUST COVER, RH	1	TR4A
	307227	DUST COVER, LH	1	
76	141124	BRACKET, brake hose	2	

Caliper Tip

We do not recommend that Girling 'split' type calipers (B & C) are separated. They were not designed for separation and re-assembly, and proper torque specifications are not published (inner and outer bolts are torqued differently). Also, the screwed plug in type 'A' should not be undone.



Ill. No	Part Number	Description	Qty. Req.	Details
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Lockheed System (TR2, TR3 to TS1304)

1	210578	BRAKE DRUM, (9") rear	2	TR2 to TS5442
	301126	BRAKE DRUM, (10") rear	2	TR2 from TS5443, TR3 to TS13045
2	V5435	SCREW, drum retaining	4	
3	GWC1111	WHEEL CYLINDER	2	gaiter for lever not included
4	8G8243	REPAIR KIT	2	includes gaiter for lever
5	7H7940	EXPANDER	2	
6	7H7939	SPRING	2	
7	17H7203	PIN	2	
8	27H7395	LEVER, handbrake cable	2	

There were originally 2 types of rear wheel cylinders fitted on TR2 & TR3 to TS13045, the only difference being the handbrake cable lever. Both have superseded to the GWC1111 (item 8). When replacing these cylinders make sure you fit a pair.

12	059258	CONNECTOR	2	
13	7H7847	BOLT, banjo	2	
14	3H550	WASHER, bolt to connector	2	
15	233220A	WASHER, connector to cylinder	2	
16	27H7166	BLEED NIPPLE	2	
17	234957A	COVER, bleed nipple	2	
20	7H7931	ADJUSTER	2	
21	7H7930	MASK, for adjuster	2	
22	7H7932	ABUTMENT ASSEMBLY	2	
23	AJD8105Z	NUT, plain	4	
24	GHF332	WASHER, locking	4	
25	17H7499	SPRING, abutment end	2	
26	7H7936	SPRING, wheel cylinder end	2	
27	LKKB1007R	BRAKE SHOE SET, rear	1	9" brakes
	LKKB1010R	BRAKE SHOE SET, rear	1	10" brakes
28	AAA4714	SPRING, shoe retaining	4	

Girling System

10" Brake System (TR3/3A to approx. TS56376)

Varying the rear wheel cylinder bore will have the effect of altering front to rear brake balance. When replacing rear wheel cylinders make sure you fit a pair.

35	301126	BRAKE DRUM, (10") rear	2	TR3 from TS13046, TR3A to (approx TS56376.)
37	GWC1112	WHEEL CYLINDER (0.75" bore, flat piston)	2	TR3 from TS13046 to TS15331
38	18G9065	REPAIR KIT (axle set)	1	(10" brakes)
	GWC1118	WHEEL CYLINDER (0.75" bore, slotted piston)	2	TR3 from TS15332, TR3A to TS34403
	18G9065	REPAIR KIT (axle set)	1	(10" brakes)
	119600	WHEEL CYLINDER (5/8" bore - 0.625")	2	TR3A from TS34404 to TS56376
	GRSP2030	REPAIR KIT (axle set)	1	(10" brakes)

Ill. No	Part Number	Description	Qty. Req.	Details
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50	7H4997	ADJUSTER ASSEMBLY	2	
51	505084	WEDGE	4	
52	GHF201	NUT, plain	4	
53	GHF322	WASHER, shake-proof	4	
54	505351	BRAKE SHOE, rear, (sold each)	4	
55	505081	RETURN SPRING, cylinder end	2	9" & 10" brakes
56	FRC3234	RETURN SPRING, adjuster end	2	
58	17H7993	PIN, brake shoe retaining	4	10" brakes
59	17H4374	WASHER	8	TR3 from
60	504877	SPRING	4	TS13046 to TS15331
61	505349	STEADY POST, brake shoe	4	10" brakes
62	505359	NUT	4	TR3 from TS15332
63	7H4429	FELT BUSH	4	TR3A to TS56376 (approx.)

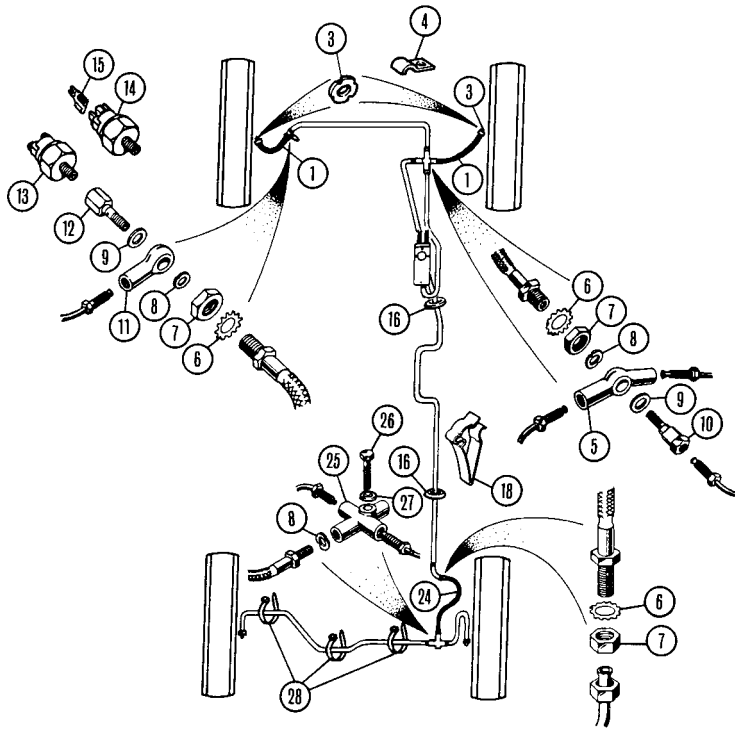
9" Brake System (TR3A from approx. TS56377, TR4/4A)

Varying the rear wheel cylinder bore will have the effect of altering front to rear brake balance. When replacing rear wheel cylinders make sure you fit a pair.

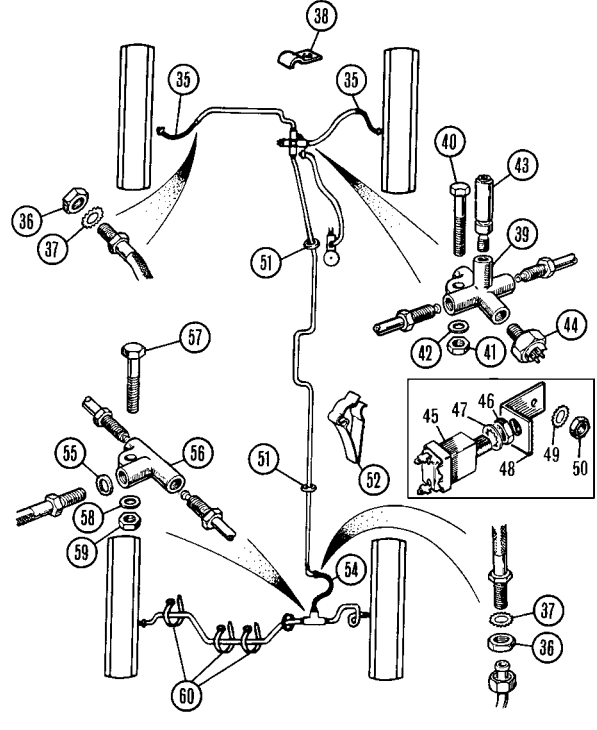
35	210578	BRAKE DRUM, (9") rear	2	TR3A from TS56377 (approx.) TR4/4A	
	GAC6028X	ALFIN BRAKE DRUM SET, radial fins	1	9 x 1 3/4"	
	202267	ALFIN BRAKE DRUM circumferential fins	2	(as originally supplied Triumph)	
37	GWC1112	WHEEL CYLINDER (0.75" bore)	2	TR3A from TS56377, TR3B TR4 to CT5655 (wire wheels)	
	18G9065	REPAIR KIT (axle set)	1	& CT5782 (steel wheels)	
	GWC1154	WHEEL CYLINDER (0.70" bore)	2	TR4 from CT5656 (wire wheels) & CT5783 (steel wheels)	
	38	512351	REPAIR KIT (axle set)	1	
	50	37H6134	ADJUSTER ASSEMBLY	2	
	51	111054	WEDGE	4	
	52	GHF200	NUT, plain	4	
	53	GHF321	WASHER, shake-proof	4	
	54	GBS778AF	BRAKE SHOES, rear (Standard)	1	set of 4
	Ni	TT31524	BRAKE SHOES, rear (Uprated)	1	
	55	505081	RETURN SPRING, cylinder end	2	9" & 10" brakes
		508817	RETURN SPRING, adjuster end	2	
	57	GRSRS8	KIT, brake pull off springs, per axle	1	
	65	BAU1420A	KIT, shoe hold down, (axle set)	1	

All Models

36	V5435	SCREW, drum retaining	4	
39	556508A	BLEED NIPPLE	2	
40	234957A	CAP, bleed nipple	2	
42	GRSP2862	KIT, cylinder retaining, (axle set)	1	
43	505091A	SPRING PLATE	2	
44	7H4907	LOCKING PLATE, w/cylinder	2	
45	7H4925	WASHER, spacer, (locking plate)	2	
46	505093A	DUST COVER	2	
47	157672	LEVER, handbrake cable	2	



TR2/3 to TS13045 (Lockheed)



TR3, TR3A & TR4 (Girling)

Ill. No	Part Number	Description	Qty. Req.	Details
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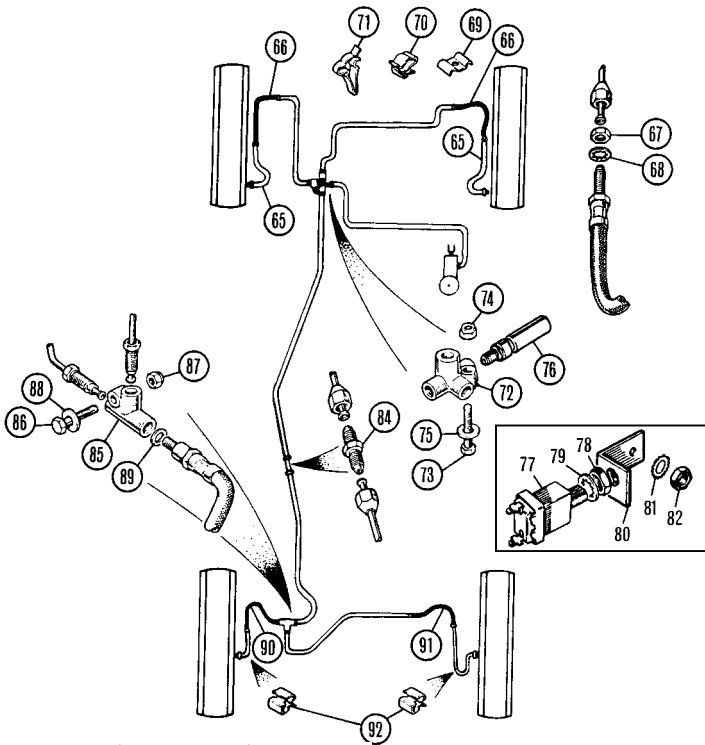
Lockheed System (TR2/3 to TS13045)

1	108595	BRAKE HOSE, front	2	standard
	TT3040	BRAKE HOSE SET, front (1pr)	1pr	Stainless Steel Braided
3	233220A	WASHER, copper, hose to cylinder	2	
4	059380	CLIP, pipe to bulkhead	a/r	
5	059258	CONNECTOR, RH	1	
6	WE600101	WASHER, locking	3	
7	2K8686	NUT, on hoses	3	
8	233220A	WASHER, copper	3	hose to connector
9	059246	WASHER, copper	2	adaptor to connector
10	27H7167	ADAPTOR, RH	1	
11	27H7189	CONNECTOR, banjo, LH	1	
12	059293	ADAPTOR, LH	1	
13	13H2303	SWITCH, brake light	1	screw type contacts
14	C16062A	SWITCH, brake light	1	Lucar type contacts
<i>These 2 brake light switches have BSP threads.</i>				
15	RTC220A	LUCAR CONNECTOR	a/r	
<i>Use for converting from screw type switch.</i>				
16	CD23720	GROMMET, pipe to chassis	2	
18	059191	CLIP, pipe to chassis	4	
24	108596	BRAKE HOSE, rear	1	standard
	TT3042	BRAKE HOSE, rear	1	Stainless Steel Braided
25	501505	CONNECTOR, 3-way, rear	1	
26	SH605041	SCREW, connector to chassis	1	
27	GHF331	WASHER, locking	1	
28	GHF1268	CLIP, pipes to axle housing	3	plastic
	041674	CLIP, pipes to axle housing	3	metal

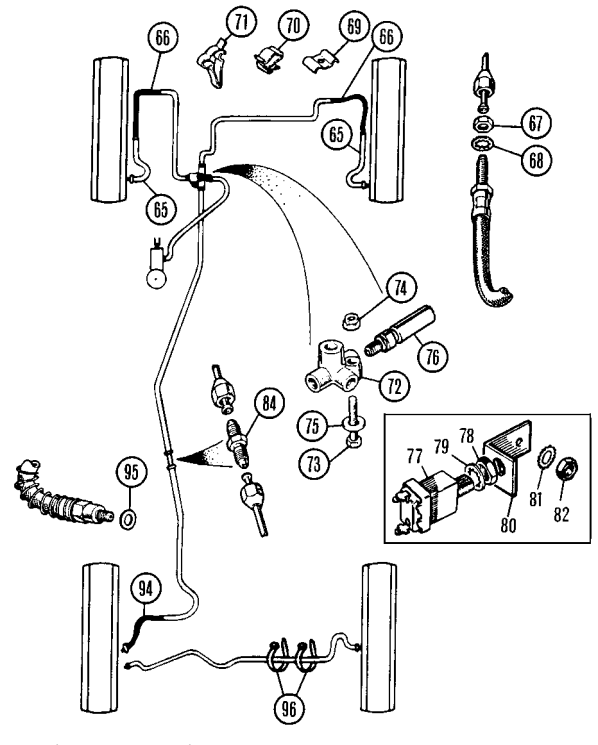
Ill. No	Part Number	Description	Qty. Req.	Details
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Girling System (TR3 from TS13046, TR3A, TR4)

35	GBH206	BRAKE HOSE, front	2	standard
	TT3142	BRAKE HOSE, front	2	Stainless Steel Braided
36	NT606041	NUT, brake hoses	3	
37	GHF323	WASHER, locking, brake hoses	3	
38	059380	CLIP, pipe to bulkhead	a/r	
39	279412	CONNECTION, 5-way	1	TR3 from TS13046 TR3A, TR4 to CT26929
	565719A	CONNECTION, 4-way	1	TR4 from CT26930
40	BH604101	BOLT, connector to chassis	1	
41	GHF271	NUT, nyloc	1	
42	GHF300	WASHER, plain	1	
43	116197	RESTRICTOR VALVE	1	
44	21B291	SWITCH, brake light	1	TR3 from TS130469 TR3A, TR4 to CT26929
<i>The above switch has spade type terminals and the correct UNF thread for the original 5 way connection. The TR3 from TS13046 and TR3A to TS60000 originally had a switch with screw type connectors, but this is not available. The later switch (21B291) can easily be installed into the early loom by replacing the 'spades' with Lucar connectors (RTC220A).</i>				
45	134529	SWITCH, brake light	1	mounted on master cylinder bracket
46	NT608041	NUT, nyloc, (use with 134529)	1	
47	WF600081	WASHER, shakeproof	1	TR4 from CT26930
48	138911	BRACKET, mounting switch	1	
49	WF600081	WASHER, star	1	
50	NT608041	NUT, nyloc	1	
51	CD23720	GROMMET, pipe to chassis, front	2	
52	059191	CLIP, pipe to frame	3	
54	GBH122	BRAKE HOSE, rear	1	standard
	TT3142	BRAKE HOSE, rear	1	Stainless Steel Braided
55	233220A	WASHER, copper, hose to connector	1	
56	BTB657	CONNECTOR, 3-way	1	
57	GHF120	SCREW, connector to chassis	1	
58	GHF272	NUT, nyloc	1	
59	GHF301	WASHER, plain	1	
60	GHF1268	CLIP, pipes to axle housing	3	plastic replacement
	041674	CLIP, pipes to axle housing	3	metal replacement



TR4A (I.R.S. Rear Axle)



TR4A (Solid Rear Axle)

Ill. No	Part Number	Description	Qty. Req.	Details
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TR4A

65	309723	PIPE, hose to calipers	2	
66	GBH176	BRAKE HOSE, front	2	standard
	TT3240	BRAKE HOSE SET, front, (1pr)	1pr	Stainless Steel Braided
67	NT606041	NUT,	5/7	IRS models use 7
68	GHF323	WASHER, locking	5/7	
69	2H400	CLIP, brake/clutch pipe to bulkhead	1	
70	618386	CLIP, pipe to chassis	1	
71	059191	CLIP, pipe to chassis	2	
72	565719A	CONNECTOR, 4-way	1	
73	BH604101	BOLT, connector to chassis	1	
74	GHF271	NUT, nyloc	1	
75	GHF300	WASHER, plain	1	
76	116197	RESTRICTOR VALVE	1	(not always fitted)
77	134529	SWITCH, brake light	1	
78	NT608041	NUT, nyloc, (use with 134529)	1	
79	WF600081	WASHER, shakeproof	1	
80	138911	BRACKET, switch mounting	1	
81	WF600081	WASHER, star	1	
82	NT608041	NUT, nyloc	1	
84	ACB5559	UNION, double ended	1	TR4A (IRS)
85	BTB657	CONNECTOR, 3-way	1	
86	BH604281	BOLT, connector to chassis	1	
87	GHF271	NUT, nyloc	1	
88	GHF300	WASHER, plain	1	
89	233220A	WASHER, copper	1	
90	GBH178	BRAKE HOSE, rear LH (standard)	1	
91	GBH177	BRAKE HOSE, rear RH (standard)	1	
	TT3242	BRAKE HOSE SET, rear, (1pr)	1pr	
		Stainless Steel Braided		
92	615836	CLIP, pipes to trailing arms	2	
94	GBH216	BRAKE HOSE, rear (standard)	1	TR4A solid axle
	TT3340	BRAKE HOSE, rear	1	
		Stainless Steel Braided		
95	233220A	WASHER, copper	1	
96	GHF1268	CLIP, pipes to axle, plastic	2	
	041674	CLIP, pipes to axle, metal	2	

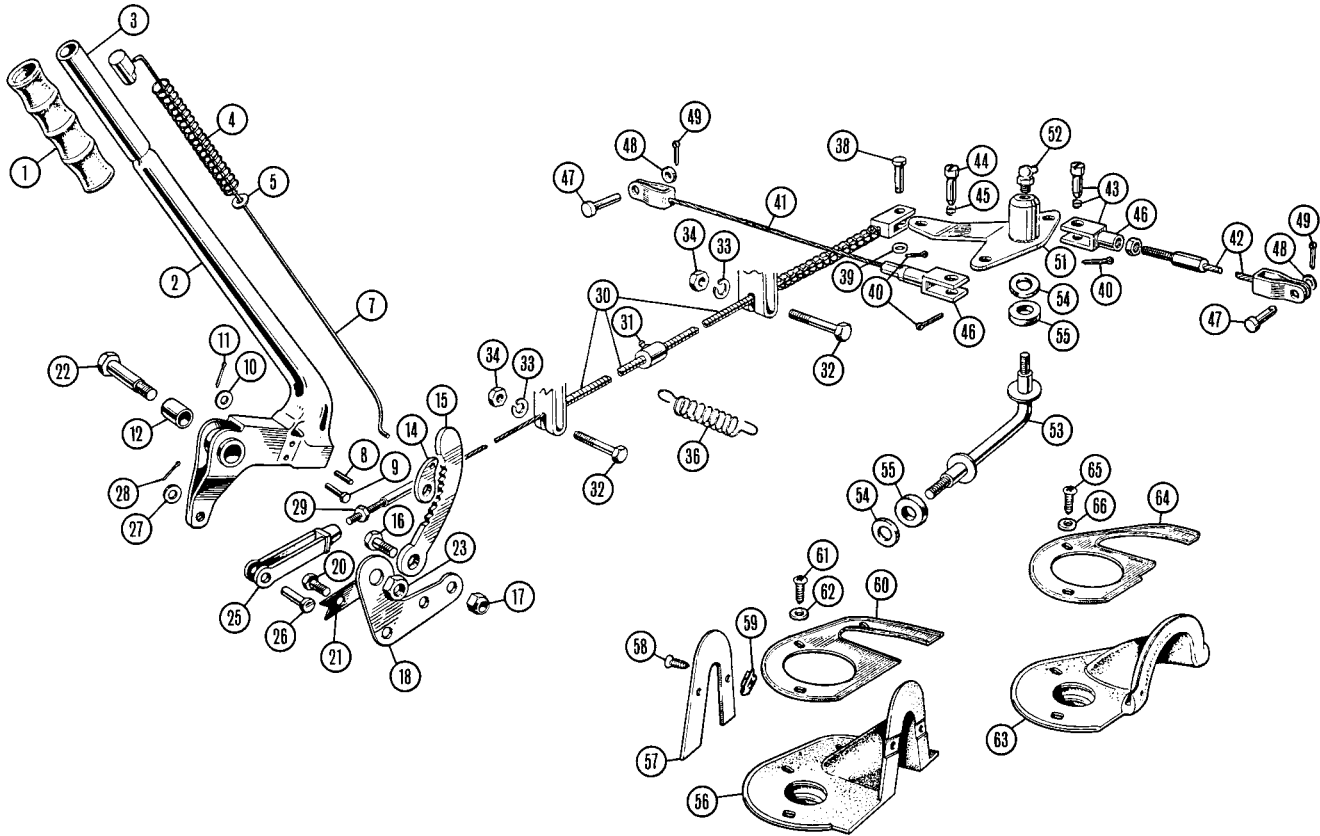
Ill. No	Part Number	Description	Qty. Req.	Details
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Brake Pipe Sets

Complete sets of ready assembled pipes in copper with brass end fittings. The pipes in our kits are pliable allowing you 'form' them on installation, for that factory look.

HGB1010	BRAKE PIPE SET (Lockheed)	1	TR2/3 to TS13045, RHD
HGB1010L	BRAKE PIPE SET (Lockheed)	1	TR2/3 to TS13045, LHD
HGB1011*	BRAKE PIPE SET (Girling)	1	TR3 from TS13046, TR3A, RHD
HGB1011L*	BRAKE PIPE SET (Girling)	1	TR3 from TS13046, TR3A, LHD
*These kits inc caliper bridge pipes, which are not used after TS56376 (wire wheels) and TS56383 (steel wheels).			
HGB6227	BRAKE PIPE SET	1	TR4 RHD
HGB6227L	BRAKE PIPE SET	1	TR4 LHD
HGB6228	BRAKE PIPE SET	1	TR4A IRS RHD
HGB6228L	BRAKE PIPE SET	1	TR4A IRS LHD
HGB6229	BRAKE PIPE SET	1	TR4A solid axle, RHD
HGB6229L	BRAKE PIPE SET	1	TR4A solid axle, LHD

132 | Handbrake TR2/TR3/3A & TR4



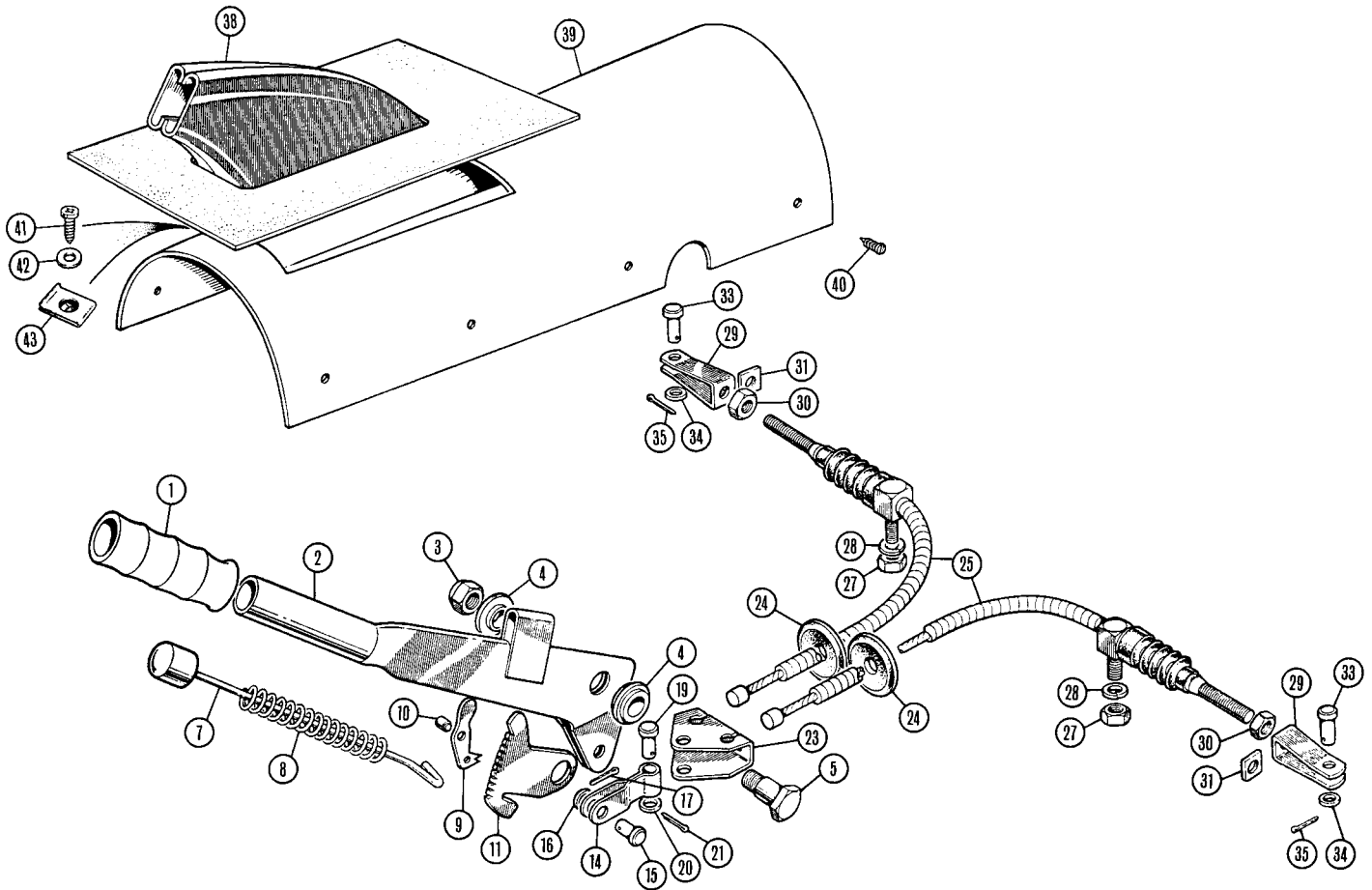
Ill. No	Part Number	Description	Qty. Req.	Details
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Handbrake TR2/TR3/3A & TR4

At the time of writing this catalogue, and for the foreseeable future, we do expect to be able to supply all the parts of the handbrake assembly. However, the main wearing parts of the actual handbrake are the pawl & ratchet (items 14 & 15), and these together with all the cables and clevis pins – which are available, will allow you to keep your handbrake in first rate condition. Do not forget to grease the main cable (item 30) once every six months. The grease nipple is about halfway down the car and a couple of strokes of the grease gun will ensure that the cable does not seize and cause problems with your annual test.

1	108457	GRIP, screw-on	1	TR2/3/3A
	131312	GRIP, push-on	1	TR4
2	107637	LEVER, for screw-on grip	1	TR2/3/3A
	131321	LEVER, for push-on grip	1	TR4
3	107636	BUTTON	1	
4	104740	SPRING, pawl release	1	
5	GHF301	WASHER, plain	1	
7	107633	ROD, pawl release	1	
8	501026	PIN, pawl release	1	
9	AUC2108	PIN, pawl to lever	1	
10	PWZ203	WASHER	1	
11	GHF500	SPLIT PIN	1	
12	AAA4129	BUSH, lever pivot	1	
14	107632	PAWL	1	
15	107631	RATCHET	1	
16	GHF120	BOLT, ratchet to plate	1	
17	GHF272	NUT, nyloc	1	
18	107630	PLATE, handbrake	1	
20	SH605051	SCREW, plate to chassis	2	
21	107953	TAB WASHER	1	
22	107634	BOLT, pivot	1	
23	GHF275	NUT, pivot bolt securing	1	
25	101247	FORK END, cable to lever	1	
26	PJ8806	CLEVIS PIN, fork to lever	1	
27	GHF301	WASHER, plain	1	
28	GHF500	SPLIT PIN	1	
29	JN2107	NUT, jam	1	
30	202069	CABLE ASSEMBLY	1	lever to compensator
31	UHN400	GREASE NIPPLE	1	
32	HBZ411	BOLT, cable support	2	

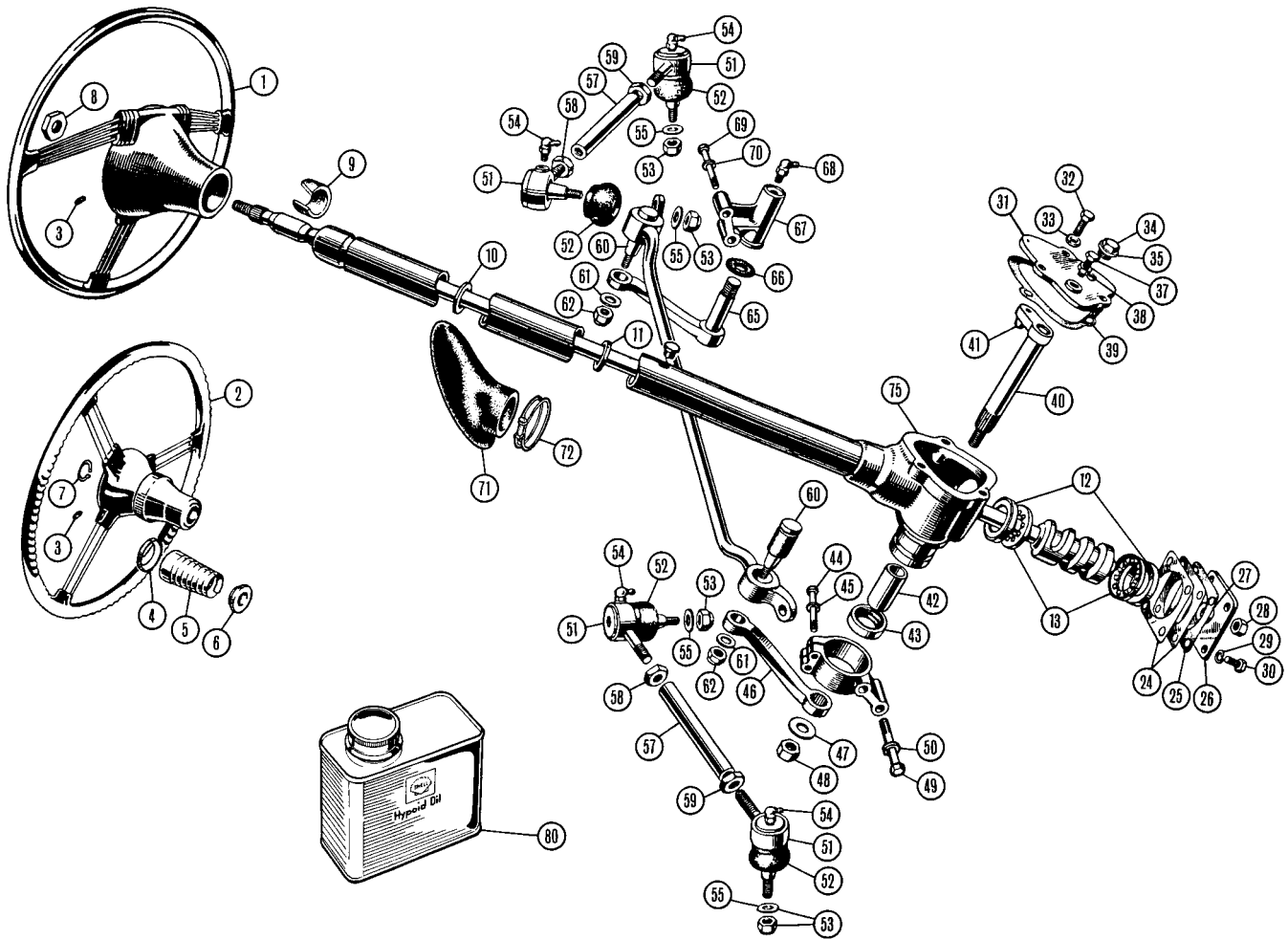
Ill. No	Part Number	Description	Qty. Req.	Details
33	GHF331	WASHER, locking	2	
34	GHF200	NUT	2	
36	060274	SPRING, cable conduit to tunnel	1	
38	PJ8708	CLEVIS PIN	1	
39	GHF300	WASHER, plain	1	
40	PS103121	SPLIT PIN	3	
41	112469	CABLE ASSEMBLY, RH	1	TR2/3/3A
	129284	CABLE ASSEMBLY, RH	1	TR4
42	105811	CABLE ASSEMBLY, LH	1	TR2 to TS5443
	112470	CABLE ASSEMBLY, LH	1	TR2 from TS5443, TR3/3A
	129283	CABLE ASSEMBLY, LH	1	TR4
43	057190	CLEVIS ASSEMBLY	2	
44	057192	CLEVIS PIN	2	
45	057239	SPRING	2	
46	057191	CLEVIS FORK	2	
47	PJ8808	CLEVIS PIN	2	
48	GHF301	WASHER, plain	2	
49	GHF502	SPLIT PIN	2	
51	100571	COMPENSATOR LEVER	1	
52	LN30041	GREASE NIPPLE	1	
53	100569	COMPENSATOR BAR	1	
54	100572	SEAL, felt	2	
55	WB600071	WASHER, plain	2	
56	700922	GAITER, handbrake lever	1	TR2/3/3A
57	602138	PLATE, gaiter to tunnel	1	
58	AB610043	SCREW, securing plate	2	
59	GHF713	SPRING NUT	2	
60	602137	PLATE, gaiter to floor	1	
61	AB604062	SCREW, securing plate	3	
62	WP4	WASHER, plain	3	
63	700922	GAITER, handbrake lever	1	TR4
64	610942	PLATE, gaiter to floor	1	
65	AB604062	SCREW, securing plate	3	
66	WP4	WASHER, plain	3	



Ill. No	Part Number	Description	Qty. Req.	Details
Handbrake TR4A				
1	131312	GRIP	1	
2	141635	LEVER, handbrake	1	
3	GHF223	NUT, nyloc, for fulcrum pin	1	
4	142754	BUSH, fulcrum	2	
5	142755	FULCRUM PIN	1	
7	141688	ROD, pawl release	1	
8	104740	SPRING, pawl release	1	
9	134143	PAWL	1	alternatives
	104737	PAWL	1	
10	104738	PIN, pawl to lever	1	
11	148083	RATCHET PLATE	1	
14	140374	LINK, compensator	1	
15	CLZ410	CLEVIS PIN, link to lever	1	
16	WM93	WASHER	1	
17	GHF500	SPLIT PIN	1	
19	CLZ314	CLEVIS PIN, link to compensator	1	
20	WC701121	WASHER	1	
21	PS103121	SPLIT PIN	1	
23	140375	COMPENSATOR SECTOR	1	
24	602037	GROMMET, cable to heel-board	2	
25	140373	CABLE ASSEMBLY	2	
27	GHF200	NUT	2	
28	GHF331	WASHER, locking	2	
29	138247	FORK END, cable	2	

Ill. No	Part Number	Description	Qty. Req.	Details
30	JN2107	NUT, jam, fork end to cable	2	
31	CN1	NUT, square	2	fork end to cable
33	PJ8808	CLEVIS PIN	2	fork end to w/cyl lever
34	GHF301	WASHER, plain	2	
35	GHF502	SPLIT PIN	2	
38		GAITER, handbrake lever		
<i>The gaiter is only available as part of the carpet set. See page 13</i>				
39	809046	COVER, handbrake mechanism	1	(fibreboard)
40	AB606031	SCREW, cover to side of tunnel	8	
41	AB606054	SCREW, cover to top of tunnel	1	
42	PWZ203	WASHER, plain	1	
43	GHF711	SPIRE NUT	1	

The pawl for the TR4A (134143) is not available. In the original fitment the TR4A handbrake was a 'fly-off' type following the style of the TR2/3/3A and TR4. However, if your 134143 is damaged beyond repair, we suggest that you use the alternative fitment which is part number 104737, the pawl from the TR6 handbrake. The TR6 handbrake is not a 'fly-off' type and you will have to re-educate yourself in the use of the handbrake, but at least you will be able to drive and have a car that is able to pass your annual vehicle inspection.



Ill. No	Part Number	Description	Qty. Req.	Details
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Steering Box, Column & Wheel TR2/TR3/3A

See opposite page for our TR2/3A Steering Rack Conversion.

1	300389	STEERING WHEEL, (standard)	1	non-adjustable
<i>This wheel is currently not available, see Accessories (page 02) for our full range of sports steering wheels.</i>				
2	301359*	STEERING WHEEL, (factory option)	1	adjustable
3	059107	GRUB SCREW, horn push	3	

*This is a reproduction wheel which is virtually indistinguishable from the original. It can only be used to replace adjustable type wheels.

Conversion to adjustable steering column involves complete steering column assembly replacement.

4	108611	RETAINER CUP	1	adjustable wheel only
5	1D6163	SHROUD, spring (chromed)	1	
6	108613	WASHER (spigoted)	1	
7	502161	CIRCLIP, retaining steering wheel	1	
8	060372	NUT, steering wheel	1	non adjustable wheel only
9	043314	BUSH, felt (top of steering column)	1	rigid column
	209423	BUSH, rubber/nylon, either side	2	split column type

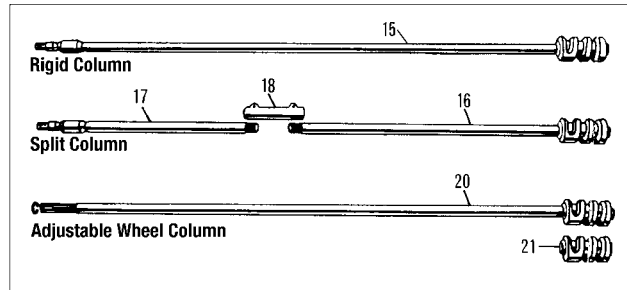
When you need to replace your top steering column felt bush, due to 'up & down' movement of the inner column at the steering wheel, buy it at least a week before you need it. In that week prior to doing the job, soak the felt bush in gear oil. An old tobacco tin is ideal for this task as you can put in the felt seal with the oil, close the lid and forget where you put the seal until you drop the tin on the floor some weeks later. The tin of oil is also useful for pre-soaking leather oil seals for differentials. The oil will become impregnated in the felt and keep it swollen into shape for a longer period than a dry felt bush when fitted.

10	060586	RING, anti-rattle (on inner column)	2	
11	14A7031	PLUG, oil filler point & level	1	

To fill or top-up your steering box use an appropriate gear oil, we recommend EP90 (this can be ordered under part no GGL190), and fill through the rubber plugged hole in the outer column until no more can go in. This ensures that the upper ball bearing is fully immersed in oil. If you fill only through the screwed plug in the top cover of the steering box, the upper ball bearing race will be running nearly dry - or as Austin/MG called it, 'Splash Lubricated'.

12	060373	RACE, outer	2	
13	060371	BALL & CAGE ASSEMBLY	2	
NI	BLS108	BALL	a/r	

Ill. No	Part Number	Description	Qty. Req.	Details
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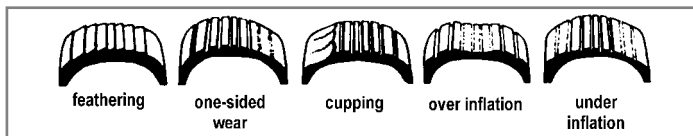


15	501581	COLUMN & CAM, RHD	1	rigid column type
	501590	COLUMN & CAM, LHD	1	
16	508189	LOWER COLUMN & CAM, RHD	1	split column type
	508191	LOWER COLUMN & CAM, LHD	1	
NI	121154R	UPPER COLUMN, RHD	1	
	121154L	UPPER COLUMN, LHD	1	
17	205221X	COLUMN, upper inner	1	
18	121090	ADAPTOR, coupling	1	
NI	121089	TUBE (Outer, column) (TR3A)	1	
<i>This item is also included in our Upper Column Kits (121154R/L) for early Long Column TR's when fitting our Steering Rack Conversion Kit (TTK3000R/L). See next page for full details.</i>				
20	502399	COLUMN & CAM, RHD	1	adjustable type
	502400	COLUMN & CAM, LHD	1	
21	508189X	WORM only, RHD	1	
	508191X	WORM only, LHD	1	

The worm is only supplied to repair steering columns when column & cam assemblies are unavailable. It requires workshop skills to fit, we offer this service if required.

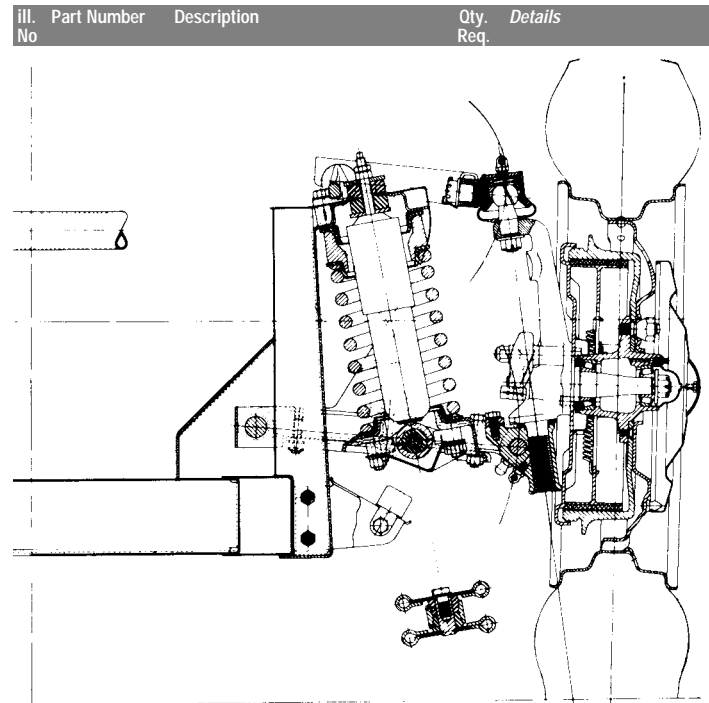
24	060367	SHIM, column end float, 0.0025"	a/r	
	060368	SHIM, column end float, 0.005"	a/r	
	060368	SHIM, column end float, 0.010"	a/r	
25	060370	GASKET, on end cover		
26	501587	COVER PLATE	1	
27	501575	COMPRESSION SLEEVE	1	'olive' or 'gland' on stator tube
28	103611	NUT, stator tube gland	1	

Ill. No	Part Number	Description	Qty. Req.	Details
29	GHF332	WASHER, locking	7	
30	SH605051	SCREW, hexagon headed	7	
31	501584	COVER PLATE	1	RHD models
	501591	COVER PLATE	1	LHD models
32	SH605051	SCREW, cover to steering box	3	
33	GHF332	WASHER, locking	3	
34	SP68B	PLUG, in cover plate	1	
35	ARH517	WASHER, fibre, for plug	1	
37	500279	SCREW, adjusting rocker shaft thrust	1	
38	060360	LOCK NUT, on adjusting screw	1	
39	501571	GASKET, on cover plate	1	
40	501583	ROCKER SHAFT ASSEMBLY	1	
41	501568	PEG, in rocker shaft	1	
42	501562	BUSH, in housing	1	
<i>Experience has shown us that the steering box housing could have 1 or 2 bushes to support the rocker shaft. (Perhaps a repair scheme by the factory not known by us to salvage excessively worn steering box housings).</i>				
43	3H3132	OIL SEAL, on rocker shaft	1	
44	BH605141	BOLT,	2	steering unit to trunnion bracket
45	GHF332	WASHER, locking	2	
46	107418	LEVER, drop arm	1	RHD models
	108153	LEVER, drop arm	1	LHD models
47	501577	WASHER, locking	1	nut to drop arm lever
48	NH610041	NUT, drop arm lever to rocker shaft	1	
49	HB925	BOLT	2	(Steering bracket to trunnion bracket)
50	GHF333	WASHER, locking	2	
51	110466/8	TIE ROD END SET	2	
<i>Includes 1 inner and 1 outer for one side.</i>				
	110466	TIE ROD END, RH thread	2	inner
	110468	TIE ROD END, LH thread	2	outer
52	17H3501	GAITER, on tie rod end	4	
<i>Due to various manufacturers of tie rod ends supplying the market over the years, we do not guarantee the fit of the 17H3501 gaiter for your car. However, they have proved suitable more frequently than others.</i>				
53	GHF273	NUT, nylon, track rod ends	4	
54	LN30041	GREASE NIPPLE	4	(if fitted, O.E. type only)
55	GHF302	WASHER, plain	4	
57	106650	TIE ROD	2	
58	101668	NUT, inner tie rod end locking	2	RH thread
59	101669	NUT, outer tie rod end locking	2	LH thread
60	105063	BUSH ('silent-bloc' & pin)	2	
61	GHF302	WASHER, plain	2	
62	GHF273	NUT, nylon	2	
65	105728	IDLER LEVER	1	
66	058615	SEAL, on idler lever shank	1	
67	501958	BRACKET, idler lever housing	1	
68	501552	GREASE NIPPLE	1	
69	HB925	BOLT	2	idle bracket to chassis
70	GHF333	WASHER, locking	2	
71	701136	GROMMET	1	steering column to b/head
72	CS4025	WIRE CLIP, grommet to column	1	
75	508188X	STEERING BOX (housing only)	1	
<i>This item has been reproduced in response to the demand for RHD conversion of LHD cars. Only the housing is supplied, and it needs to be fitted to your old column.</i>				
<i>This is not an easy job, and if you have any doubts at all about your ability to do the job - DON'T DO IT. Take it to a competent engineering company. This really is an item you don't want falling. Exchange rebuilt steering boxes are available, please enquire.</i>				
80	GGL190	GEAR OIL, steering box, 500ml	a/r	



Front Tyre Wear Patterns

Feathering is caused by incorrect tracking or worn front-end components. One-sided wear can be caused by incorrect camber or grossly incorrect tracking. Cupping is the result of out-of-balance wheels, worn shocks, grabbing brakes or worn tie rods.



TR2/3/3A Suspension & Steering Data

Front Lock	28 1/2°
Back Lock	31°
<i>(A 20° back lock gives an 18 3/4° front lock)</i>	
Centre Tie Rod Length	19.44"
Outer Tie Rod Length	7.68"
Tyre Size	5.50x15"
Track at Ground Level (static laden)	45"
Castor Angle	0°
King Pin Inclination (static laden)	7°
Wheel Camber (static laden)	2°
Wheel Camber (full bump 3.00")	1/2°
Wheel Camber (full rebound 2.25")	1°

Steering Rack Conversion Kit

Modern technology for your classic TR.

Our complete Steering Rack conversion kit (for split/short column cars) will give you lighter, more direct steering, and can be easily installed by a competent DIY enthusiast. Comprehensive fitting instructions are included with every kit.

If your early TR2 or TR3 is of the long column type, please contact Moss Europe for full conversion details, because for 'long column' or early cars, an upper column kit (121154R for RHD & 121154L for LHD) will also be required, as well as the steering rack conversion kit.

(Please see 'Important Installation Notes')

Steering Rack Conversion;

(Note: Use only with 4 Blade or Electric cooling fans)

Conversion Kit (TR3A RHD models)	TTK3000R
Conversion Kit (TR3A LHD models)	TTK3000L
Boot/Gaiter kit (Rack) (replacement) (All models)	GRG210Z

'Long Column' type models will also need;

Upper Column Kit (for RHD models)	121154R
Upper Column Kit (for LHD models)	121154L

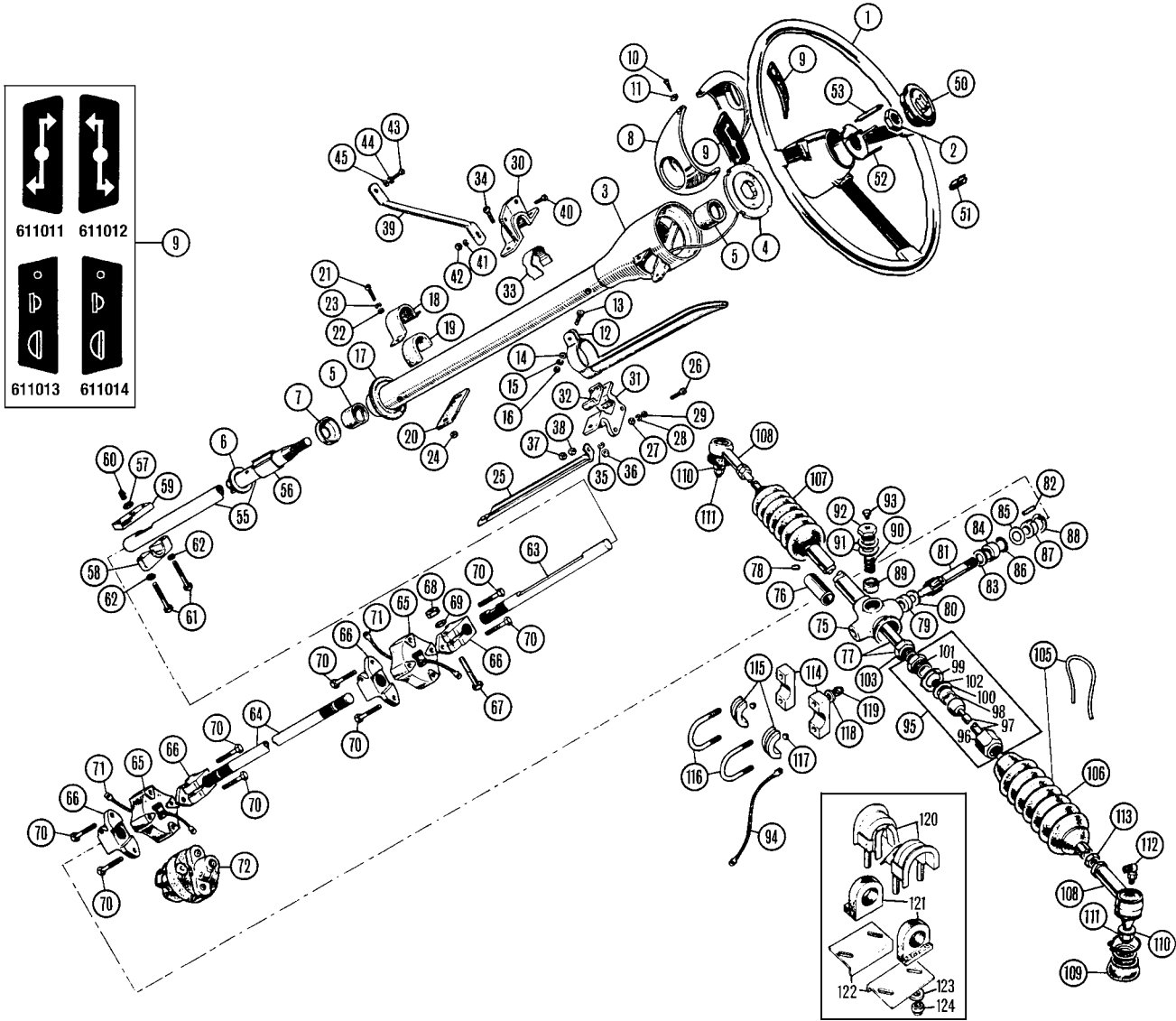
The following parts are included in the Upper Column Kits;

Upper Column* (1 reqd.)	205221X
Outer Tube (1 reqd.)	121089
Bush (Felt) (top of column) (1 reqd.)	043314
Bush (rubber/nylon) (either side) (2 reqd.)	209423
Bracket/Support kit* (RHD)	607429X
Bracket/Support kit* (LHD)	607433X

**Bracket/support kits include all fixings & fittings.*

'Important Installation Notes'

Please pay very careful attention to your engine mountings, if you are in any doubt as to their condition, replace them. Also, if the fan hub extension has less than 1cm clearance from the steering rack, you will need to put a packing (slotted washer CD26326 is perfect) between the front plate & the mounting. It may be necessary to trim the top leading corners of the mountings to give extra clearance for the lower steering coupling, particularly if a (late) all Syncromesh gearbox has been fitted.



Ill. No	Part Number	Description	Qty. Req.	Details
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Steering Rack, Column & Wheel TR4/4A

See Accessories for our full range of Sports Steering Wheels.

1	304988	STEERING WHEEL	1	
2	105438	NUT, securing steering wheel	1	
3	154731	COWL, steering column	1	
4	608462	SLIP RING, insulator & cable	1	
	608139	INSULATOR, only	1	
5	209423	BUSH, steering column	2	
6	122719	WASHER, nylon thrust	1	
7	122718	END CAP	1	
8	611835	ESCUTCHEON, blank	1	TR4, non overdrive
	611366	ESCUTCHEON, indicator switch	1	TR4
	611982	ESCUTCHEON, overdrive switch	1	TR4, non overdrive
	708479	ESCUTCHEON, indicator switch	1	TR4A
	708479	ESCUTCHEON, light switch	1	TR4A, non overdrive
	611974	ESCUTCHEON, light & overdrive	1	TR4A, with overdrive
9	611011	LABEL, indicator switch	1	LH side of steering column
	611012	LABEL, indicator switch	1	RH side of steering column
	611014	LABEL, lighting switch, RHD	1	TR4A
	611013	LABEL, lighting switch, LHD	1	
<i>The illustration shows the two different indicator switch labels, unfortunately, Triumph in their wisdom built both RHD & LHD cars with indicators switches on either side of the column. Thus, any RHD car could have a switch on the LH side of the column, or, as the man who built the car wishes, on the RH side of the column. So we can give no useful rules except the most basic one, order what you want by looking at the illustration. In fact, they are so cheap why not order one of each, then you know you've got at least one that you want.</i>				
10	510995	SCREW, escutcheon to cowl	2	
11	FC2803	NUT	2	
12	611369	COVER, column harness	1	

Ill. No	Part Number	Description	Qty. Req.	Details
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13	PT504	SCREW, clamping cover clamping	1	
14	PWZ203	WASHER, plain	1	
15	WL700101	WASHER, locking	1	
16	HN2005	NUT, plain	1	
17	610608	SEALING GROMMET	1	column to bulkhead
18	608185	BRACKET CLAMP, column lower	1	
19	608223	FELT (strip), lower bracket, long	1	
20	608222	FELT (strip), lower bracket, short	1	
21	GHF117	SCREW, hexagon headed	2	
22	WM93	WASHER, plain	2	
23	GHF331	WASHER, locking	2	
24	GHF200	NUT, plain	2	
25	611834	TIE ROD, lower clamp to fascia	1	RHD models
	611531	TIE ROD, lower clamp to fascia	1	LHD models
26	GHF117	SCREW, hexagon headed	1	
27	GHF200	NUT, plain	1	
28	GHF331	WASHER, locking	1	
29	WP42	WASHER, plain	1	
30	611530	CLAMP, steering rack column	1	rear/upper
31	611529	CLAMP, steering column	1	rear/lower
32	608188	FELT STRIP	1	
33	609639	SPRING, column clamp	1	
34	GHF103	SCREW, hexagon headed	2	
35	GHF332	WASHER, locking	2	
36	GHF201	NUT, plain	2	
37	GHF200	NUT, plain, lower clamp to fascia	2	
38	NT604041	'HALF' NUT (locks GHF200)	2	
39	611532	TIE ROD, rear clamp to dash	1	
40	GHF117	SCREW, hexagon headed	1	

Ill. No	Part Number	Description	Qty. Req.	Details
41	GHF331	WASHER, locking	1	
42	GHF200	NUT, plain	1	
43	GHF117	SCREW, hexagon headed	1	
44	GHF331	WASHER, locking	1	
45	GHF300	WASHER, plain	1	
50	150277	HORN PUSH	1	Triumph 'Shield' badge
51	613766	CLIP, attached to horn push	a/r	
52	204741	CLIP, 3 pronged, horn push	1	
53	142534	BRUSH, horn contact	1	(2.6" long)
	142534X	BRUSH, horn contact	1	(3.4" long)

The longer horn brush contact may be needed if a non-original steering wheel is fitted.

55	154640	STEERING COLUMN, upper/outer	1	
56	140549	CLIP, turn signal	1	
57	JN2110	LOCK NUT, steering column clamp	1	
58	122669	CLAMP	1	
59	125782	TAPPED PLATE	1	
60	125781	SCREW, locating	1	
61	BH604101	BOLT, clamp assembly	2	
62	GHF331	WASHER, locking	2	
63	149862	STEERING COLUMN, upper/inner	1	
64	128838	STEERING COLUMN, lower	1	
65	21H5384	FLEXIBLE COUPLING (early type)	2	alternatives
	150696	FLEXIBLE COUPLING (later type)	2	
66	156270	COUPLING CLAMP (splined)	4	

If fitting to the steering rack, the pinion of the rack may need to be relieved slightly in the groove where the clamp bolt passes through.

67	109438	BOLT, 1/4" dia.	4	
	HB813	BOLT, 5/16" dia.	4	
68	GHF241	NUT, self locking, 1/4" dia.	4	
	GHF242	NUT, self locking, 5/16" dia.	4	
69	GHF300	WASHER, plain, 1/4" dia.	4	
	GHF302	WASHER, plain, 5/16" dia.	4	
70	150697	BOLT, special, coupling to adaptor	8	
71	130581	EARTH STRAP	2	

Does the horn work intermittently on your TR4/4A?

Check the condition of the earth straps through the rubber coupling (item 71), and the earth cable from the rack to the chassis (item 94).

72	156270PW	COUPLING & ADAPTOR	2	
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This item is not a genuine Triumph fitment. We have found them cost effective for people with limited budgets who need both 156270 adaptors and rubber coupling 150696/21H5384. They need the 5/16" diameter clamp bolts (items 96, 68 & 69) and the earth cable (item 71) to complete the installation.

Rack & Pinion Steering Assemblies

305648	RACK & PINION, new	1	TR4 RHD up to CT20265
305648R	RACK & PINION, rebuilt	1	
305930	RACK & PINION, new	1	TR4 RHD from CT20266
305930R	RACK & PINION, rebuilt	1	
305647	RACK & PINION, new	1	TR4 LHD up to CT20063
305647R	RACK & PINION, rebuilt	1	
305929	RACK & PINION, new	1	TR4 LHD from CT20064
305929R	RACK & PINION, rebuilt	1	
306829	RACK & PINION, new	1	TR4A RHD
306829R	RACK & PINION, rebuilt	1	
306830	RACK & PINION, new	1	TR4A LHD
306830R	RACK & PINION, rebuilt	1	

The difference in the TR4 and the TR4A rack & pinion assemblies is their overall length, (TR4 1023mm, TR4A 1003mm). The change in overall length is achieved by the length of the inner ball joint assemblies (item 95).

75	305773	HOUSING, rack & pinion, RHD	1	TR4/4A from CT20266
	305774	HOUSING, rack & pinion, LHD	1	TR4/4A from CT20064
76	128002	BUSH, passenger end of rack tube	1	
77	208375	RACK BAR	1	
78	145108	DAMPER PLUG, nylon (fitted through rack tube)	1	TR4/4A RHD from CT20266 LHD from CT20064
79	127997	BUSH, pinion lower	1	
80	128000	THRUST WASHER, lower	1	
81	134689	PINION, RHD	1	
	134688	PINION, LHD	1	
82	128008	PIN, locating upper bush	1	
83	127999	THRUST WASHER, upper	1	
84	127998	BUSH, pinion, upper	1	
85	120941	SHIM, pinion, 0.005"	a/r	
	130902	SHIM, pinion, 0.010"	a/r	
86	128021	O' RING, in end plug	1	

Ill. No	Part Number	Description	Qty. Req.	Details
87	128001	END PLUG	1	
88	509537	CIRCLIP	1	
89	120946	PLUNGER	1	
90	126765	SPRING, on plunger	1	
91	120959	SHIM, under cap, 0.002"	a/r	
	120949	SHIM, under cap, 0.004"	a/r	
	132055	SHIM, under cap, 0.010"	a/r	
92	132053	CAP, screwed	1	
93	133103	PLUG, replacing grease nipple	1	alternatives
	056935	GREASE NIPPLE, replacing plug	1	
94	134301	EARTH LEAD, s/rack to chassis	1	
95	129961	BALL JOINT, Inner	2	(200mm) TR4
	142687	BALL JOINT, Inner	2	(190mm) TR4A
96	128024	HOUSING, ball	2	
97	128023	BALL PIN	2	TR4
	139860	BALL PIN	2	TR4A
98	158732	SOCKET, for ball	2	
99	120957	TAB WASHER	3	
100	130031	SHIM, ball pin adjusting, 0.002"	a/r	
	130032	SHIM, ball pin adjusting, 0.010"	a/r	
101	129963	SLEEVE ADAPTOR	2	
102	120953	SPRING, ball pin to rubber	2	
103	146364	NUT, locking inner joint to rack	2	
105	GSV1104/5	GAITER SET,	1	(inc. 2 gaiters & clips)
106	GSV1104	GAITER (passenger side)	1	
107	GSV1105	GAITER (drivers side)	1	

108	GSJ156	TRACK ROD END (outer)	2	O.E. Specification
	GSJ156B	TRACK ROD END (outer)	2	aftermarket type
109	EAW2270	GAITER, track rod end	2	
110	GHF304	WASHER, plain	2	
111	GHF224	NUT, nylon	2	
112	LN30041	GREASE NIPPLE	2	
113	NT608041	NUT, locking track rod end	2	
114	131630	MOUNTING BLOCK	2	
115	122553	RING CLAMP	2	
116	122554	'U' BOLT	2	TR4 RHD to CT20265
117	122623	DOWEL	2	TR4 LHD to CT20063
118	GHF302	WASHER, plain	4	
119	GHF222	NUT, nylon	2	
120	156024	CLAMP & 'U' BOLT	2	TR4/4A
121	139386	MOUNTING, rubber (standard)	2	
	TT3455	MOUNTING, Polyurethane (uprated)	2	RHD from CT20266
122	133875	LOCATING PLATE	2	LHD from CT20064
123	GHF301	WASHER, plain	4	
124	GHF222	NUT, nylon	4	

'Quick Racks' (Brand New)

Our Quick rack has a high geared rack & pinion giving about 2.6 turns lock to lock (compared with the standard of about 3.5) without reducing the turning circle. It was originally introduced for the benefit of competition TR4 - TR6's but coincided with a lack of availability of original racks. It may also be more cost effective for overseas customers who don't want the hassle of returning an old unit.

It is also very useful for converting to the opposite hand drive or other circumstances where there is no 'correct' old unit, as they are sold on an outright basis. As this unit was aimed at competition vehicles, solid mountings 'alloy' mountings (included with kits 306829X/306830X) are specified. Fits to original TR track rod ends, which are not included with the rack.

NI	306829X	Quick Rack (RHD)	1	with fittings
NI	306830X	Quick Rack (LHD)	1	
NI	306829XNF	Quick Rack (RHD)	1	without fittings
NI	306830XNF	Quick Rack (LHD)	1	

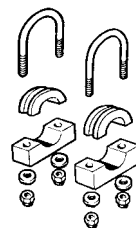
Late TR4/4A 'Alloy' Steering Rack Mounting Kit

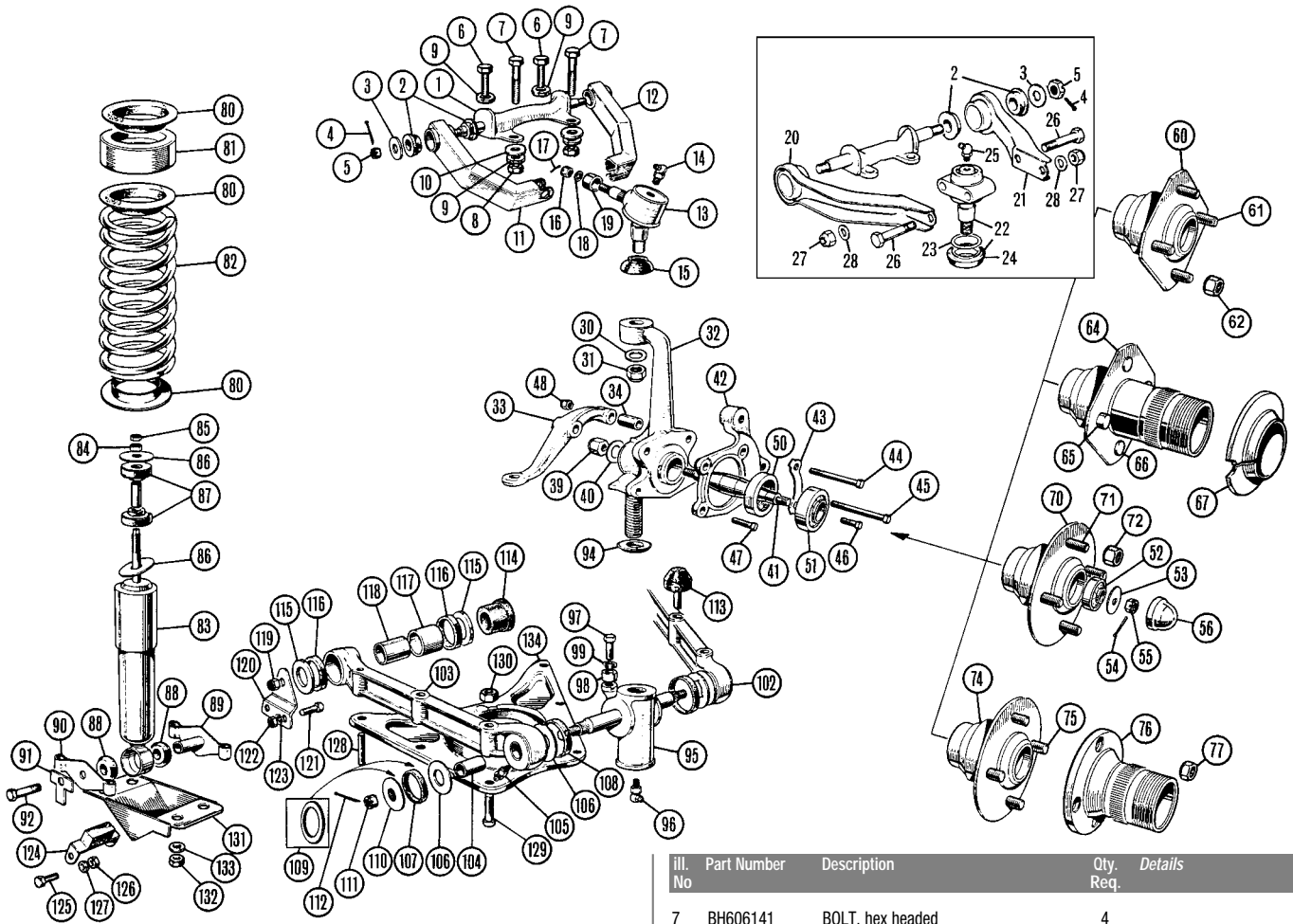
The rack & pinion assemblies were originally mounted to the chassis on a TR4 with 'U' bolts and aluminium blocks. At CT20063 (LHD) and CT20265 (RHD), the aluminium block mountings were replaced by rubber. The aluminium block mounted rack fitted to a vertical mounting plate on the chassis.

The rubber mounted racks fitted to a horizontal mounting plate on the chassis. Due to the difference in mounting to the chassis, these racks are NOT interchangeable.

The rubber mounted rack suffers from rack 'float' when the rubber has been in use for a couple of years. For this reason we have developed a solid mounting system, similar to the earlier aluminium mounted rack for later chassis numbers. The solid mounting gives a slightly less comfortable feel to the steering, but lasts much longer.

TT3255	STEERING RACK MOUNTING KIT	1
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iii. Part Number Description Qty. Details No Req.

Front Suspension TR2/TR3/3A & TR4

See also Performance & Tuning in Accessories for our full range of uprated suspension components.

The front suspension from the TR2 to the TR6 series of cars was of the same basic design throughout the whole production period of the cars. It was in fact based on the Triumph Mayflower saloon of the early 1950's. For the technically minded it's an unequal wishbone suspension with a coil spring and a telescopic shock absorber.

The actual design is in three main phases. The TR2 through to the very early 1962 TR4's (chassis number CT6343 wire wheels, and CT6390 steel wheels), had the same basic design with the early type of upper ball joint (these are not handed), as it is called in Triumph parlance. The vertical post joining the upper ball joint and lower trunnion has zero castor.

The later TR4's from the above chassis numbers had a three degree castor system, which was also introduced with an improved top ball joint and necessitated the trunnions to be handed to achieve the angling of the vertical posts, and also offset the upper wishbones. The three degree angle means that the top of the vertical post is nearer the rear of the car than the bottom end screwed into the trunnion.

The TR4A, whilst using the same basic design, used completely redesigned components involving a new method of bushing the trunnions to the lower wishbones, with a removable pin being used through the trunnion which made 'strip & reassemble' a much easier process. The lower inner wishbone bushes were also simplified to be a simple rubber to metal bonded item. The inner upper wishbone bushes are made of rubber and remain the same from the first TR2 to the last TR6.

The TR4A suspension continued with little modification through to the last TR6.

NI	GAC5076	TOOL (Churchill)	a/r
We have remanufactured the special Churchill Spring Compressor tool (GAC5076), and, it can also be used for fitting new camshaft bearings.			
NI	GAC6068X	SUSPENSION KIT	1
includes all items marked †			
1	200659	FULCRUM PIN, upper	2
2	102228 ‡	BUSH, rubber, upper wishbone	8
	TT3062	BUSH, poly, upper wishbone	4
NI	TT3160	UPRATED BUSH KIT, upper/inner	1
} see 'Uprating Your Suspension'			
3	WM69	WASHER	4
4	PC10 ‡	SPLIT PIN	4
5	NL607041 ‡	NUT, slotted	4
6	GHF105	SCREW, hex headed	4

iii. No	Part Number	Description	Qty. Req.	Details
7	BH606141	BOLT, hex headed	4	
8	GHF203	NUT	4	
9	GHF333	WASHER, locking	8	
10	GHF302	WASHER, plain	4	
11	100695	WISHBONE ARM, upper - RH front & LH rear	2	
12	100696	WISHBONE ARM, upper - RH rear & LH front	2	
13	200772	BALL JOINT, upper	2	TR2/3/3A & TR4 to
14	056934	GREASE NIPPLE	2	CT6343 (wire wheels)
15	100726	GAITER	2	& CT6390 (steel wheels)
16	252165	NUT, nyloc	2	
17	PC12	SPLIT PIN (when fitted)	2	
18	PWZ109	WASHER	2	
19	100697	DISTANCE PIECE	2	
20	133507	WISHBONE ARM, upper rear	2	
21	133504	WISHBONE ARM, upper front	2	
22	GSJ131	BALL JOINT, upper, original	2	
	GSJ131B	BALL JOINT, upper, non-original	2	TR4 from
23	138869	CLIP, gaiter retaining	2	CT6344 (wire wheels)
24	UKC3466	GAITER	2	& CT6391 (steel wheels)
25	UHN445	GREASE NIPPLE	2	
26	112347	BOLT, ball joint to wishbone	4	
27	GHF223	NUT, nyloc	4	
28	WB110061	WASHER, plain	4	
30	WC112081	WASHER, ball joint to vertical link	2	
31	GHF225	NUT, nyloc	2	
32	201803	VERTICAL LINK	2	
33	106576	LEVER, tie rod, RH	1	TR2/3/3A
	106575	LEVER, tie rod, LH	1	
	127830	LEVER, tie rod, RH	1	TR4 to CT6343 (wire wheels)
	127831	LEVER, tie rod, LH	1	and CT6389 (steel wheels)
	129836	LEVER, tie rod, RH	1	TR4 from CT6344 to CT16462 (wire wheels) & CT6390 to CT16349 (steel wheels)
	129837	LEVER, tie rod, LH	1	TR4 from CT16463 (wires) & CT16350 (steel wheels)
	134542	LEVER, tie rod, RH	1	
	134541	LEVER, tie rod, LH	1	
34	107106	DISTANCE PIECE	4	
39	GHF275	NUT, stub axle to vertical link	2	
40	WC112081	WASHER (for GHF275)	2	

Front Suspension TR2/TR3/3A & TR4 | 139

Ill. No	Part Number	Description	Qty. Req.	Details
41	115763	STUB AXLE	2	
<i>There are quite a few changes at chassis number TS13045. To TS13045 all TR2's and TR3's were equipped with Lockheed brakes, at TS13046 the cars were fitted with the Girling brake system. So if you are in doubt about the change point, simply check your brakes. Drums all round and single master cylinder means your chassis is less than TS13045. Discs at the front and two master cylinders means you have a chassis number greater than TS13046. If these rules don't apply you've got a dogs dinner and you'll have to check everything from scratch.</i>				
42	113124	PLATE, caliper mounting, RH	1	TR3 from TS13046, TR3A, TR4 to CT4689 (wire wheels)
	113123	PLATE, caliper mounting, LH	1	or CT4389 (steel wheels)
	133499	PLATE, caliper mounting, RH	1	TR4 from CT4690 (wire wheels) or CT4388 (steel wheels)
	133500	PLATE, caliper mounting, LH	1	
43	106641	TAB WASHER	4	
44	BH606221	BOLT, t/rod lever to v/link, front	2	TR2/3/3A, TR4
45	HB925	BOLT, t/rod lever to v/link, rear	2	TR2, TR3 to TS13045
	BH606281	BOLT, t/rod lever to v/link, rear	2	TR3/3A from TS13046, TR4
46	SH606051	BOLT, back plate to v/link, front	2	TR2, TR3 to TS13045
	SH606065	BOLT, caliper mount to v/link, front	2	TR3/3A from TS13046, TR4
47	SH606051	BOLT, backing plate to v/link, rear	2	TR2, TR3 to TS13045
	118324	BOLT, caliper mount to v/link, rear	2	TR3/3A from TS13046, TR4
48	GHF223	NUT, for bolts	4/6	
	GHK1244	BEARING KIT	2	(inc. 2 bearings, 1 seal)
50	GHS110	GREASE SEAL	2	(felt with steel backing)
51	GHB111	BEARING, inner	2	
52	GHB110	BEARING, outer	2	
53	102690	'D' WASHER	2	
54	PC20	SPLIT PIN	2	
55	NL608041	NUT, slotted	2	
56	102689	CAP, grease retaining	2	
60	109975	HUB, steel wheel	2	
61	100869	STUD, steel wheel	8	
62	109586	WHEEL NUT, steel wheel	8	
64	108277	HUB, wire wheel, RH	1	TR2, TR3 to TS13045
	108278	HUB, wire wheel, LH	1	
65	109457	PEG, collar locating	2	
66	107950	PEG, brake drum to hub	6	
67	107942	COLLAR, tapered, wire wheel	2	
70	114284	HUB (Steel) (with studs) (for steel wheels)	2	
	114284A	HUB (Alloy) (less studs) (for steel wheels)	2	
	114284X	HUB (Alloy) (less studs) (for steel wheels) (with extra thick flange for adjustment)	2	TR3 from TS13046, TR3A, TR4
71	114282	STUD, front (standard length) (steel wheels)	8	
	114282X	STUD, front (extra long) (steel wheels) (may need shortening to suit application)	8	
72	109586	WHEEL NUT, steel wheel	8	
74	114283	HUB, wire wheel	2	
75	114281	STUD, wire wheel, front	8	

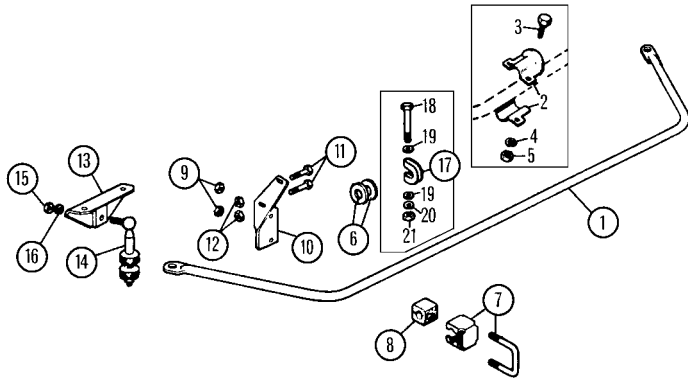
Triumph 'invented' a very neat idea for people wishing to convert to wire wheels. On Girling equipped vehicles (TS13046 on, and all TR4 to TR6), you could buy adaptors, 217602 for the RH side, and 217603 for the LH side (items 76) and simply bolt them onto a steel wheel hub, and you had a car equipped to take wire wheels. Don't go away. Read on. This only worked if:

- A) You had cut the steel wheel studs down.
 - B) You used special small adaptor nuts (item 77) - you'll need 16 for one car.
- The technique was to fit adaptors with nuts (110366), and this would leave some of the wheel nut standing out. Simply hacksaw it off to be flush with the nuts. For people who know in advance that they are fitting wire wheels, or indeed, who don't want ugly non-chamfered wheel studs, there is a front hub (item 74) for wire wheel cars which has the shorter studs fitted.
- If you wish to fit wire wheels and don't want to shorten the studs, why not use our spacers, part no. TT6902, two pairs required. This will permit swapping back and forth for different uses.

We can no longer supply the standard spring 201898. When it is fitted it must be fitted with a spacer 107682, otherwise your ground clearance will be seriously diminished. We can supply 210903 which was the factory alternative with the same ride height and spring rate. It is important NOT to fit the spacer (107682) with this spring, otherwise, when returning home late at night you will probably frighten the local Jumbo Jets, as you headlights will be shining on them.

Ill. No	Part Number	Description	Qty. Req.	Details
81	107682	SPACER, aluminium	2	for 201898 & TT4006
82	201898	COIL SPRING, standard	2	(approx. 9 3/4" free length)
	210903	COIL SPRING, standard	2	(approx. 11" free length)
	TT4006	COIL SPRING, uprated	2	fit in pairs
83	AR62-2080	SHOCK ABSORBER, standard	2	
	TT3001	SHOCK ABS', Spax, adjustable	2	we suggest these uprated units are fitted in pairs only
	TT3102	SHOCK ABS', Koni, adjustable	2	
	TT3103	SHOCK ABS', Gaz, adjustable	2	
84	GHF202	NUT, plain	2	
85	NT606041	LOCKNUT	2	
86	ACA9759	WASHER, cupped	4	
87	21A860	Bush, upper	4	
	TT30161	Bush, upper, uprated	4	
88	102987	Bush, lower	4	
89	106841	PIN & BRACKET	2	
90	106843	BRACKET	2	
91	101229	TAB WASHER	2	
92	SH607081	BOLT	2	
94	058224	GREASE SEAL, original	2	
	142402	GREASE SEAL, alternative	2	
<i>The 058224 seal was rather a weak design to stop dirt getting into the grease which was pumped into the trunnion for lubrication. When we re-made the trunnions, 101557 & 133838/9, we re-designed the top surface that mates with the vertical link from the original flat to a chamfered design which is copied from the TR4 to TR6. This enables the later design of seal (142402) to be used. So, if you buy new trunnions be sure to buy 142402, as you will not be able to fit your old type seal (058224).</i>				
95	101557*	TRUNNION ASSEMBLY (0° degree castor)	2	TR2/3/3A & TR4 to CT6343 (wire wheels) & CT6390 (steel wheels)
	133839*	TRUNNION ASSEMBLY, RH (3° degree castor)	1	TR4 from CT6344 (wire wheels) and CT6391 (steel wheels)
	133839*	TRUNNION ASSEMBLY, LH (3° degree castor)	1	
<i>*Note: Trunnion pins are not cross-drilled for split pins. Use nyloc nuts (GHF274, 2 per trunnion).</i>				
96	056934	GREASE NIPPLE	2	
97	SH605061	BOLT	2	
98	101407	STOP, steering lock	2	
99	GHF332	WASHER, locking	2	
102	106577	ARM, lower wishbone	2	RH front-LH rear
103	106578	ARM, lower wishbone	2	LH front-RH rear
104	101615‡	BUSH, wishbone arm	4	
<i>The wishbone arm bush must be reamed to fit after being pressed into arm.</i>				
105	056934	GREASE NIPPLE	4	
106	101533 ‡	THRUST WASHER	8	
107	115702 ‡	SEAL, wishbone outer side (9/8")	8	TR2/3/3A, TR4 to CT7218
108	134319	SEAL, wishbone trunnion side (9/16")	4	TR4 from CT7219
109	134293	SHIM (for seal 134319)	16	
110	115701 ‡	WASHER, locking	4	TR2/3/3A, TR4 to CT7218
	134320	WASHER, locking	4	TR4 from CT7219
111	NL607041	NUT, slotted, (original trunnions)	4	
	GHF274 ‡	NUT, nyloc, (repro trunnions)	4	
112	PC10	SPLIT PIN, (original trunnions)	4	
113	106845	'BUMP' RUBBER	2	
114	102228	RUBBER BUSH, lower wishbone	8	TR2, TR3 to TS9120
115	110697 ‡	WASHER, nylon	8	
116	115702 ‡	SEAL	8	TR3 from TS9121,
117	110696 ‡	BUSH, nylon	4	TR3A, TR4
118	110695 ‡	BUSH, steel	4	TR4
119	GHF224 ‡	NUT, lower fulcrum pin	4	
Ni	TT3161	UPRATED BUSH KIT, lower/inner (inc. items 115 to 118)	1	see 'Upgrading Your Suspension' on page 140.
120	107430	BRACKET, lower fulcrum	4	
121	SH605051	SCREW, bracket to frame	8	
122	GHF201	NUT	8	
123	GHF332	WASHER	8	
124	100175	'REBOUND' RUBBER	2	
125	GHF120	SCREW, rubber to chassis	4	
126	GHF201	NUT	4	
127	GHF332	WASHER, locking	4	
128	143712	STUD, inner end of lower wishbones	4	
129	BH606161	BOLT, spring pan to wishbone	8	
130	GHF273	NUT, nyloc, spring pan to wishbone	12	
131	106844	BRACKET, rebound abutment	2	
132	GHF202	NUT	8	
133	GHF333	WASHER, locking	8	
134	200193	SPRING PAN	2	

140 | Front Anti-Roll Bar TR4 & Suspension Tips



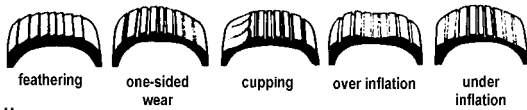
Ill. No	Part Number	Description	Qty. Req.	Details
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Front Anti-Roll Bar (TR4)

(Factory Option)

	510584	ANTI-ROLL BAR KIT	1	(includes instructions)
1	208571	BAR only, (9/16" diameter)	1	
2	AHH6546*	CLAMP, locating	4	included in kit (510584), alternative assembly to item 17
3	PMZ308	SCREW	4	
4	WL700101	WASHER, locking	4	
5	GHF206	NUT	4	
6	122231	WASHER, locating	4	
7	121792	RETAINER ASSEMBLY	2	
8	121791	BLOCK, rubber	2	
9	GHF222	NUT, retainer assembly	4	
10	131964	BRACKET, RH	1	
	131963	BRACKET, LH	1	
11	SH606071	BOLT, bracket to bumper bracket	4	
12	GHF223	NUT, nyloc	4	
13	131479	BRACKET, attachment	2	
14	121797	LINK ASSEMBLY	2	
15	FNZ507	NUT, link to bracket	2	
16	WP46	WASHER, locking	2	
17	122230*	CLAMP, (not included in kit)	2	alternative
18	HB714P	BOLT	2	
19	GHF300	WASHER, plain	2	
20	GHF331	WASHER, locking	2	
21	GHF200	NUT, plain	2	

*These two clamping systems are factory alternatives. Although the original type kits we supply contain clamp item 2, clamp item 17 was also used in some factory kits.



Front Tyre Wear Patterns

Feathering is caused by incorrect tracking or worn front-end components. One-sided wear can be caused by incorrect camber or grossly incorrect tracking. Cupping is the result of out-of-balance wheels, worn shocks, grabbing brakes or worn tie rods.

Slotted & Nyloc Nuts

Throughout the history of the TR2/3/3A and TR4A front suspension, split pins and slotted nuts were the order of the day. The self locking nuts were not yet in common use on motor vehicles. For enthusiasts seeking originality or for owners without split pin holes in their studs, bolts, ball joints etc, we offer the following conversion.

Thread Size	Slotted Nut	Nyloc Nut
3/8"	LN2209	GHF273
7/16"	NL607041	GHF274
1/2"	NL608041	GHF275
9/16"	LN2212	53K1667

These nuts are 'half' nuts, i.e. The threaded portion is only 'half' the depth of a full nut.

Ill. No	Part Number	Description	Qty. Req.	Details
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Upgrading Your Front Suspension

See also Performance & Tuning in Accessories for our full range of uprated suspension components.

When a vehicle manufacturer designs his suspension for a car he always has to compromise between the cars ability to go round corners at high speed with its ability to give a comfortable ride.

Sports cars, by their very nature, induce owners to sacrifice a little of the comfort for an improvement in the handling. We have published a full list of tuning items in our 'Performance & Tuning' section, but here we list a few of the components which are both easy to fit and, have been found very popular with our customers who want improved handling without having to gain an honours degree in mechanical engineering.

Upated Front Coil Springs, Shock Absorbers & Bushes

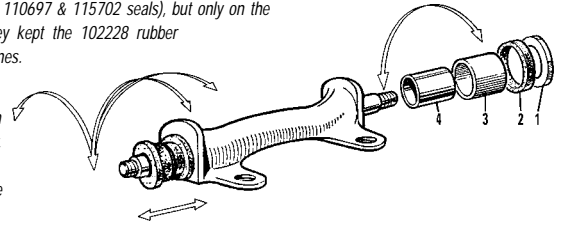
This little section is our recommendation for the average enthusiast. It is not intended to be for serious (or even non-serious) competition minded drivers. (See Performance & Tuning on page 47)

TT4006	FRONT SPRING (uprated)	2	
107682	COLLAR	2	use when TT4006 fitted
TT3001	'SPAX' Shock absorber, adjustable	2	we suggest these uprated units are fitted in pairs only
TT3002	'KONI' Shock absorber, adjustable	2	
TT3103	'GAZ' Shock absorber, adjustable	2	
TT3160	UPRATED BUSH KIT (Upper/Inner)	1	
TT3161	UPRATED BUSH KIT, (Lower/Inner)	1	

Front Suspension Bushes Explained

The early TR2's (up to TS9122) were fitted with 102228 rubber bushes on both the upper and lower inner wishbone mountings. Triumph improved this to incorporate a nylon and steel bush set (using 110695, 110696, 110697 & 115702 seals), but only on the lower inner wishbones. They kept the 102228 rubber bushes on the upper wishbones.

A very simple improvement is to fit the original Triumph modification for the lower, ... to the upper. You should realise that there is a small price to pay.



The rubber bush flexes in all directions without 'fear or favour', but the nylon/steel bushes give free and predictable rotation in an arc about the axis of the bush. Clear? Maybe not. Perhaps our illustration will help.

1	110697	WASHER	8
2	115702	SEAL	8
3	110696	BUSH, nylon	4
4	110695	BUSH, steel	4

Even if it's still not clear, we'll give you the bottom line. Uprated bushes give a harsher & noisier ride, but they usually last longer.

Anti-Roll Bar Kits

A very good modification is to fit an anti-roll bar to 'tighten up' the front end. For TR4 owners we can offer 510584 (the optional roll bar kit as offered by Triumph).

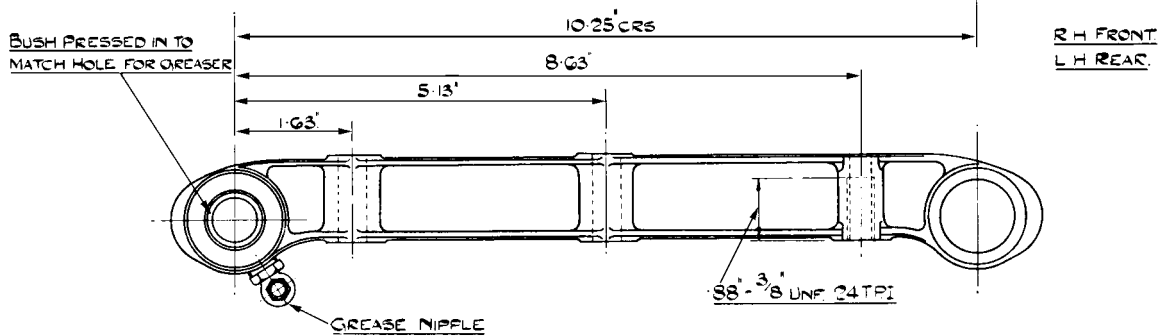
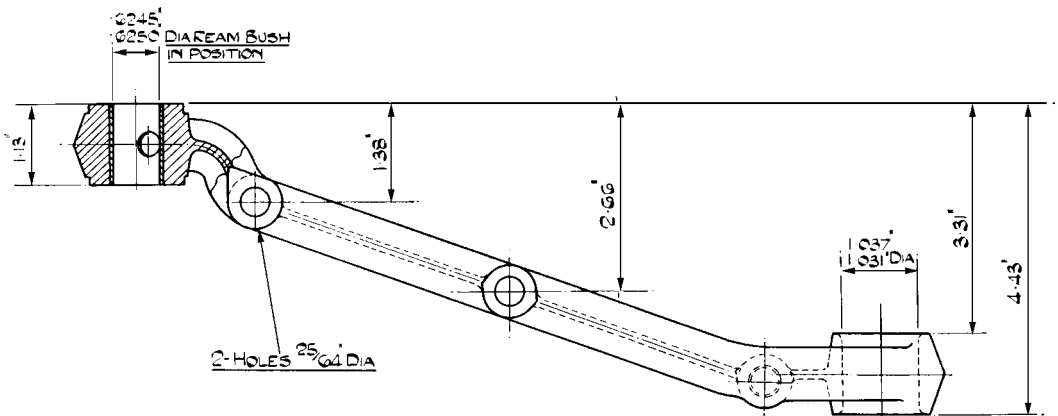
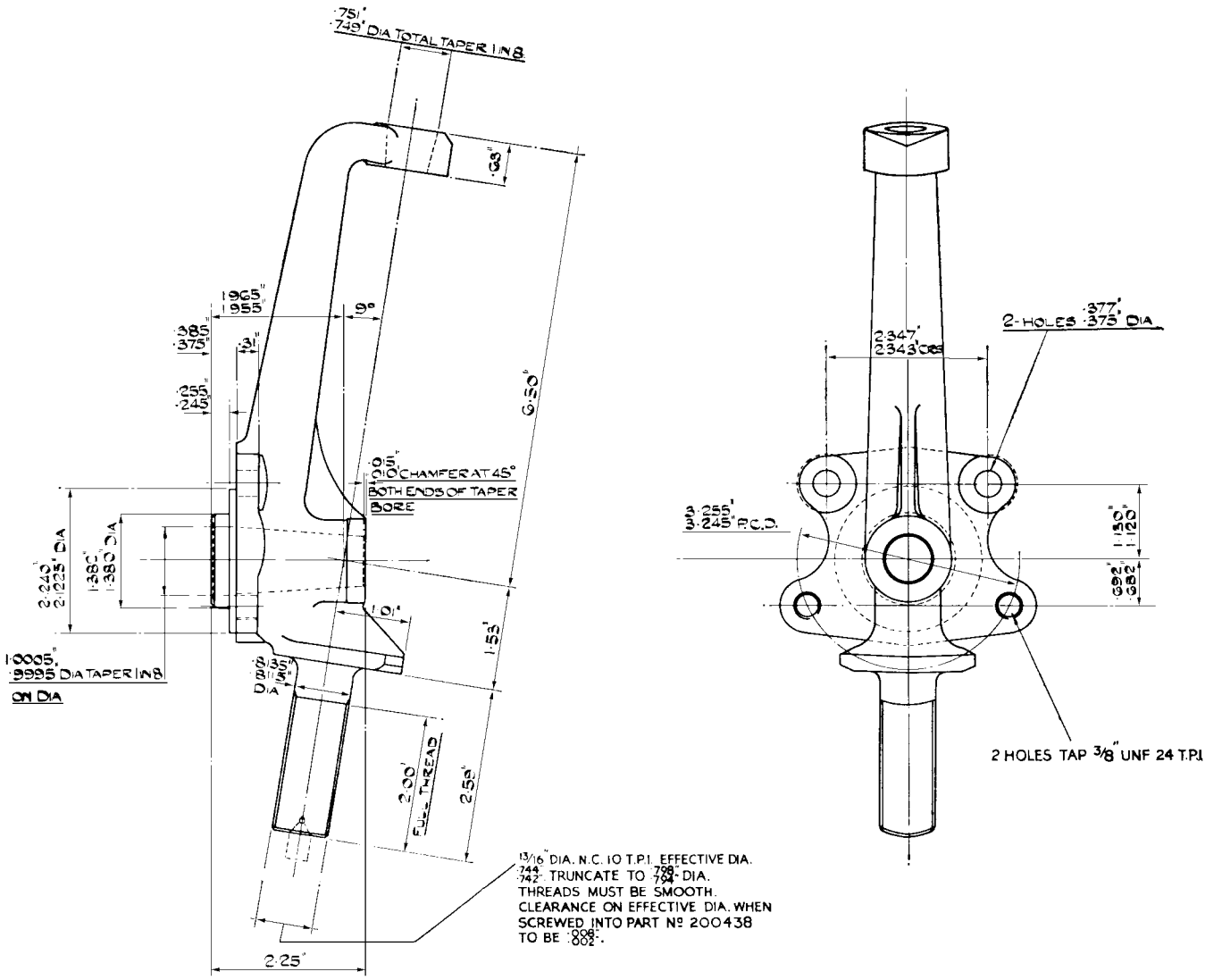
We have managed to mix some vast stocks of old original Triumph items with some quality reproductions of O.E. specification anti-roll bar pieces to offer an excellent kit. Really recommended!

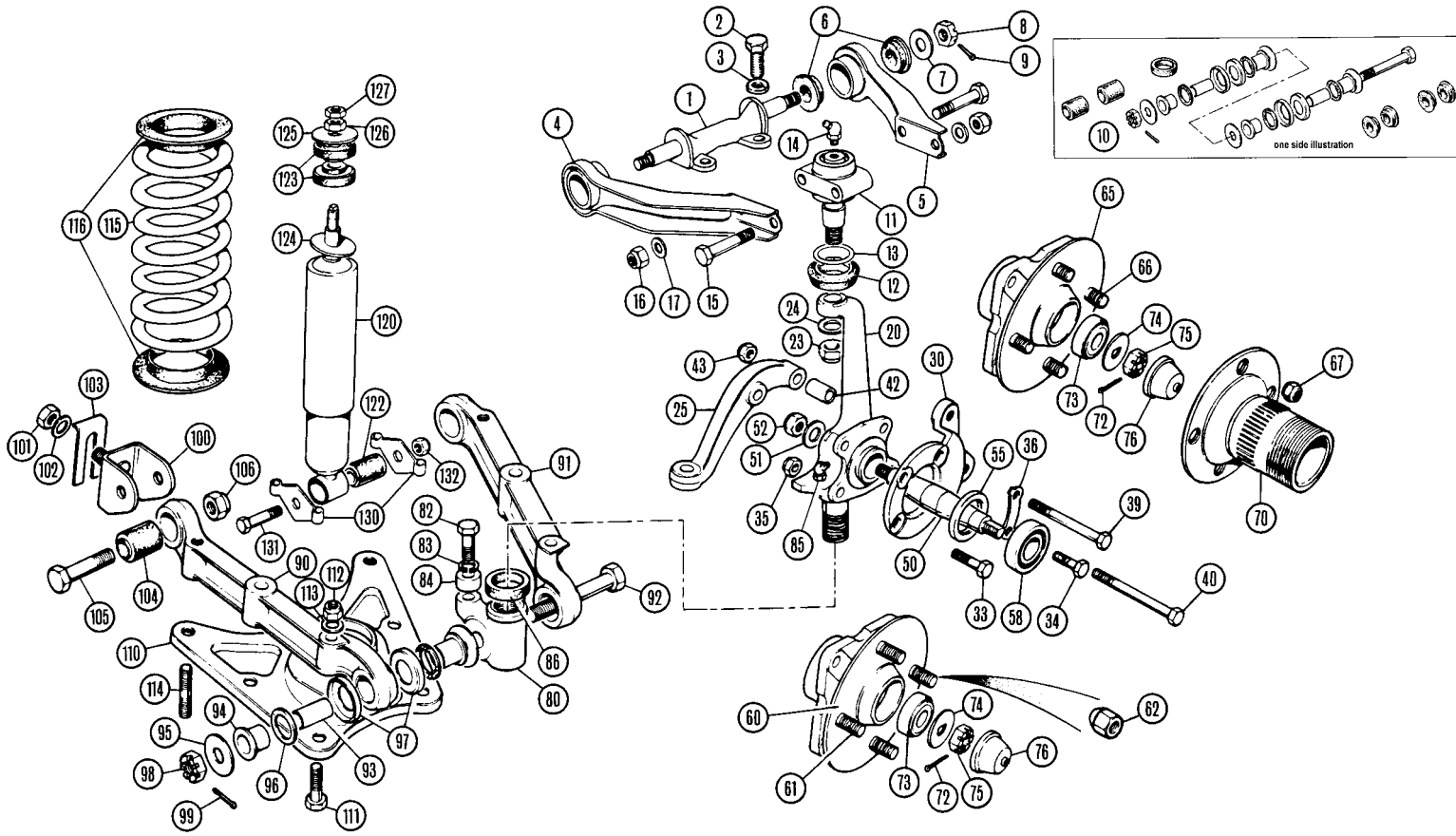
There were several small companies in the 1950's and 1960's making up Triumph's omission: Vic Derington, Lawrencetune & SAH being the best remembered. Some of the SAH (Sydney Arthur Hurrell) traditions have been carried into the present day by Terry (son of Syd), and are offered here:

TT3081	ANTI-ROLL BAR KIT, front	8	TR2/3/3A
TT3181	ANTI-ROLL BAR KIT, front	8	TR4

As mentioned earlier, TR3A owners can use 510584 (with a little drilling), by fitting the bar to the outer wishbone bolts instead of the middle ones. This kit will not fit either TR2 or TR3 as they have a different bumper & bracket arrangement.

TR4 owners should note that the bar in kit no. TT3181 is of a thicker section than 208571 and is therefore considerably stiffer.





iii. Part Number No	Description	Qty.	Details Req.
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Front Suspension TR4A

See also Performance & Tuning in Accessories for our full range of uprated suspension components.

The front suspension from the TR2 to the TR6 series of cars was of the same basic design throughout the whole production period of the cars. It was in fact based on the Triumph Mayflower saloon of the early 1950's. For the technically minded it's an unequal wishbone suspension with a coil spring & a telescopic shock absorber. The actual design is in three main phases.

The TR2 through to the very early 1962 TR4's (chassis number CT6343 wire wheels, & CT6390 steel wheels), had the same basic design with the early type of upper ball joint (these are not handed), as it is called in Triumph parlance. The vertical post joining the upper ball joint & lower trunnion has zero castor. The later TR4's from the above chassis numbers had a three degree castor system, which was also introduced with an improved top ball joint and necessitated the trunnions to be handed to achieve the angling of the vertical posts, and also offset the upper wishbones. The three degree angle means that the top of the vertical post is nearer the rear of the car than the bottom end screwed into the trunnion.

The TR4A, whilst using the same basic design, used completely redesigned components involving a new method of bushing the trunnions to the lower wishbones, with a removable pin being used through the trunnion which made 'strip & re-assemble' a much easier process. The lower inner wishbone bushes were also simplified to be a simple rubber to metal bonded item. The inner upper wishbone bushes are made of rubber and remain the same from the first TR2 to the last TR6. The TR4A suspension continued with little modification through to the last TR6.

1	200659	FULCRUM PIN, upper	2	
2	GHF105	SCREW	8	
3	GHF333	WASHER, locking	8	
4	133504	ARM, wishbone upper front	2	
5	133507	ARM, wishbone upper rear	2	
6	102228*	BUSH, rubber, upper wishbones	8	Standard
	TT3062*	BUSH, Polyurethane, upper wishbones	4	Uprated
NI	QHOSK199S	BUSH KIT (rubber bushes), upper/inner	1	
	TT3160	UPRATED BUSH KIT, upper/inner	1	see 'Uprating Your Suspension'
7	WM69	WASHER, fulcrum pin	4	
8	NL607041	NUT, fulcrum pin	4	
9	PC10	SPLIT PIN, fulcrum nut	4	
10	GAC6067X	MAJOR SUSP' OVERHAUL KIT	1	Standard bushes
	GAC6067P	MAJOR SUSP' OVERHAUL KIT	1	Polyurethane bushes
<i>Both kits repair both sides and include all items marked*</i>				
11	GSJ131	BALL JOINT (original)	2	
	GSJ131B	BALL JOINT (non-original)	2	
12	UKC3466	RUBBER BOOT, ball joint	2	
13	138869	CLIP, ball joint boot	2	
14	UHN445	GREASE NIPPLE	2	
15	112347	BOLT, ball joint to wishbone	4	
16	GHF223	NUT, nyloc, ball joint bolt	4	
17	GHF302	WASHER	4	

iii. Part Number No	Description	Qty.	Details Req.
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20 307216 VERTICAL LINK, LH
307215 VERTICAL LINK, RH

The TR4A vertical posts have a threaded hole for a grease nipple. The workshop manual recommends using a EP90 weight gear oil. We have always preferred LM grease as lubricant for the front suspension.

The TR4A system involves pumping the grease down the centre of the vertical post, and then up through the trunnion thread from the bottom. When you strip the suspension down, always be sure to thoroughly clear the grease passage in the vertical post.

23	NL608041	LOCK-NUT, link to ball joint	2	
24	WC112081	WASHER	2	
25	307212	TIE ROD LEVER, LH	1	
	307211	TIE ROD LEVER, RH	1	
30	133500	MOUNTING PLATE, LH	1	brake caliper
	133499	MOUNTING PLATE, RH	1	
33	118324	BOLT	1	mounting plate to
34	SH606065	SCREW	2	vertical link
35	GHF223	NUT	2	
36	106641	TAB WASHER	4	
39	GHF126	BOLT	2	mounting plate
40	BH606281	BOLT	2	& tie rod lever
42	107106	DISTANCE PIECE, mounting plate	4	
43	GHF223	NUT	4	
50	115763	STUB AXLE	2	
51	WC112081	WASHER, stub axle	2	
52	GHF275	NUT, stub axle	2	
	GHK1021	BEARING KIT	2	includes items marked †
55	GHS110 †	OIL SEAL	2	
58	GHB111 †	BEARING, inner	2	
60	114284	HUB (Steel) (with studs)	2	
	114284A	HUB (Alloy) (less studs)	2	
	114284X	HUB (Alloy) (less studs) (with extra thick flange for adjustment)	2	for steel wheels
61	114282	STUD, front (standard length)	8	
	114282X	STUD, front (extra long) (may need shortening to suit application)	8	
62	109586	NUT, wheel	16	
65	114283	HUB, (includes studs)	2	
66	114281	STUD, hub to extension	8	
67	110366	NUT, extension to hub	8	for wire wheels
70	217603	SPLINED EXTENSION, LH	1	
	217602	SPLINED EXTENSION, RH	1	

Ill. No	Part Number	Description	Qty. Req.	Details
72	PC20 †	SPLIT PIN	2	
73	GHB110 †	BEARING, outer	2	
74	102690	'D' WASHER	2	
75	NL608041	NUT	2	
76	102689	GREASE CAP	2	

The original grease caps on the front hubs were designed to be removed by screwing a bolt in to the small hole in the cap's centre. (This is why there's a threaded hole in the centre of the cap, and why earlier Triumph tool kits included a small black bolt). These holes are often stripped out, making removal very difficult. Currently the caps coming through from the factory are not threaded. Bolts for removing the threaded caps are our part no. HU506.

80	142378	TRUNNION ASSEMBLY, LH bottom	1	
	142377	TRUNNION ASSEMBLY, RH bottom	1	
82	SH605111	SCREW	2	
83	GHF332	WASHER	2	
84	156111	STOP, steering lock	2	
85	UHN400	GREASE NIPPLE	2	
86	142402*	SEAL, trunnion to vertical link	2	
90	307209	WISHBONE, lower	2	LH front & RH rear
91	307210	WISHBONE, lower	2	RH front & LH rear
92	139835*	PIVOT BOLT	2	
93	139832*	DISTANCE PIECE	4	
94	139833*	NYLON BEARING	8	
95	142388*	WASHER	8	
96	142387*	SEALING RING	8	
97	139834*	SHIELD, water	8	
98	LN2212*	NUT	2	

NI TT3164 UPATED BUSH KIT, lower/outer (Upated versions of items 92 to 97) 1 } see 'Upating Your Suspension' on page 144

99 PC12* SPLIT PIN 2
100 148691 BRACKET, lower fulcrum 4

There are two specifications of the lower fulcrum bracket. The earlier part had only one stud (part no. 139715), but we no longer supply this item.

It was replaced by 148691, which has two studs, and is recommended as a superior and stronger fitment.

101	GHF273	NUT	4	4 if single stud bracket fitted
			8	8 if double stud bracket fitted
102	WM59	WASHER, plain	4	4 if single stud bracket fitted
			8	8 if double stud bracket fitted
103	139727	SHIM, bracket to frame	a/r	
104	141481	BUSH, inner wishbone	4	
105	BH608221	BOLT, wishbone to bracket	4	
106	NL608041	NUT	4	
110	140951	SPRING PAN, lower	2	
111	BH606181	BOLT, spring pan to wishbone	6/8	
	BH606221	BOLT, spring pan to wishbone	2	when anti-roll bar fitted
112	GHF223	NUT, nyloc	12	
113	WP20X	WASHER, plain	12	
114	143712	STUD, spring pan to wishbone	4	
115	213165	COIL SPRING, standard	2	
	TT4006	COIL SPRING, uprated	2	fit in pairs
NI	GAC5076	TOOL (Churchill)	a/r	

We have remanufactured the special Churchill Spring Compressor tool (GAC5076), but, it can also be used for fitting new camshaft bearings.

116	138823	COLLAR (Spring insulator) (standard)	4	Rubber
	138823P	COLLAR (Spring insulator) (uprated)	4	Polyurethane
	138823PX	COLLAR (Spring insulator) (uprated)	4	Polyurethane, slightly thicker than standard
120	GSA272	SHOCK ABSORBER, standard	2	
	TT3101	SHOCK ABS', Spax, adjustable	2	we suggest these
	TT3102	SHOCK ABS', Koni, adjustable	2	uprated units are
	TT3203	SHOCK ABS', Gaz, adjustable	2	fitted in pairs only
122	119450	MOUNTING, lower, rubber (standard)	2	standard
	119450Z	MOUNTING, lower, replacement	2	
	TT3364	MOUNTING, lower (uprated)	2	Polyurethane
123	21A860	MOUNTING, upper (standard)	4	Rubber
	142444P	MOUNTING, upper (uprated)	4	Polyurethane
124	140479	WASHER	2	
125	140479	WASHER	2	
126	GHF202	NUT	2	
127	NT606041	JAM' NUT	2	
128	GHF302	WASHER	8	
129	GHF273	NUT, nyloc	8	lower shock abs' to spring pan
130	106843	BRACKET	4	
131	BH607201	BOLT, shock absorber to bracket	2	
132	GHF274	NUT	2	

Ill. No	Part Number	Description	Qty. Req.	Details
Front Coil Springs;				
		Type/Usage	Fitted Height	Spring Rate/lbs
	213165	Standard	6.75"	312
	TT4006	Upated, raised	7.00"	390
<i>(This spring gives an increase in ride height, use only in conjunction with rear spring TT4211)</i>				
	TT4001	Upated, slightly lowered	6.70"	390
	TT4201	Upated, lowered road	7.00"	420
	TT4102	Upated, lowered sprint	6.00"	420
	TT4207	Upated, lowered race	6.50"	450

Spring Collar/Insulators;

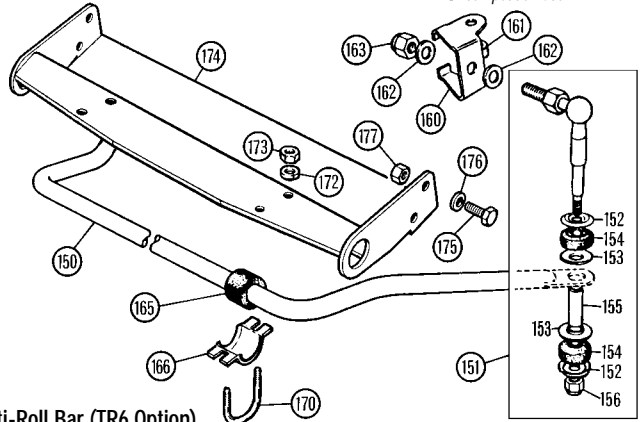
100751	Rubber, front	4	
100751P	Polyurethane, front	4	
100751PX	Polyurethane, front	4	slightly thicker than std.
MGS40904	SPACER, metal	a/r	3mm thickness

Maximum 2 recommended per side, each adjusts ride height approx. 5 millimetres.

Strengthening Lower Wishbone Arm Brackets

The lower front inner wishbone brackets (page 79, item 15) which are welded to the frame, are considered weak points of the front suspension as they are often found to be cracked, or even broken away from the chassis. This is usually caused by running in to pot holes or hitting kerbs. These brackets are easily replaced by a competent chassis repair workshop, and represent a considerable improvement to the earlier TR2/3/3A and TR4 design. On these earlier cars, instead of breaking a bracket, the entire spring tower twists and cracks, much more difficult (and expensive) to repair than a bracket! It's a good idea to periodically check your front inner wishbone brackets, and have them replaced if they are cracked or broken, as this condition presents a severe safety hazard. We have followed a design from Triumph themselves, and produced a strengthening kit (see illustration), which comprises three plates that are welded to the inner wishbone bracket and the chassis.

TT3259L	STRENGTHENING KIT, LH	1	3 plates per kit
TT3259R	STRENGTHENING KIT, RH	1	
139580R	PLATE WASHER, reinforcement	4	aftermarket competition use



Anti-Roll Bar (TR6 Option)

The TR6 anti-roll bar will fit a TR4A with minimal modification due to the two cars suspension being virtually identical. The TR6 radiator protection shield will need to be fitted to the TR4A to receive the 'U' bolts (item 170). This protection shield is part no. 213021. This modification will make the TR4A a more pleasurable and more predictable car to drive.

150	215647	ANTI-ROLL BAR	1	
	215647K	FITTING KIT, anti-roll bar	1	
151	152143A	LINK ASSEMBLY	2	
152	517984	WASHER	4	
153	513983	WASHER	4	
154	517985	RUBBER MOUNT	4	
	517985P	POLY MOUNT	4	
155	517986	DISTANCE PIECE	2	
156	GHF223	NUT	2	
160	152144	BRACKET, mounting	2	
161	152145	PACKING PIECE	2	
162	WP46	WASHER	4	
163	GHF223	NUT	2	
165	123998	BUSH, rubber	2	
	123998P	BUSH, polyurethane	2	uprated
166	123502	CLAMPING BRACKET	2	
170	123694	'U' BOLT (plain)	2	
	139126	'U' BOLT (with towing eye)	2	
172	GHF301	WASHER	4	
173	GHF222	NUT	4	
174	213021	SHIELD, radiator protection	1	
175	SH606071	SCREW, attaching shield to chassis	2	
176	GHF333	WASHER, locking	2	
177	GHF202	NUT	2	

144 | Uprating TR4A Front Suspension

Ill. No	Part Number	Description	Qty. Req.	Details
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Uprating Your TR4A Suspension

When a vehicle manufacturer designs his suspension for a car he always has to compromise between the cars ability to go round corners at high speed with its ability to give a comfortable ride.

Sports' cars, by their very nature, induce owners to sacrifice a little of the comfort for an improvement in the handling. We have published a full list of tuning items in our 'Performance & Tuning' section, but here we list a few off the components which are both easy to fit and, have been found very popular with our customers who want improved handling without having to gain an honours degree in mechanical engineering.

The first modification suggested is the installation of a uprated Front Anti-Roll bar.

You can fit either our TR4A Uprated bar or the TR6 anti-roll bar described earlier. The TR6 installation involves no irreversible modifications to the car.

TR4A Anti-Roll Bar Kit

There were several small companies in the 1950's and 1960's making up Triumph's omission: Vic Derington, Lawrencectune & SAH being the best remembered. Some of the SAH (Sydney Arthur Hurrell) traditions have been carried into the present day by Terry (son of Syd), and are offered here:

TT3281	ANTI-ROLL BAR KIT, front	4	TR4A
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As a second step, a pair of TT4006 springs with uprated shock absorbers is a good investment. The TT4006 is the same spring as used to uprate the TR2/3/3A & TR4, but in the TR4A, you do not fit the spacer 107862.

The choice between Koni, Spax or Gaz is a personal choice. All are, of course adjustable, but whereas Spax & Gaz are adjustable in-situ, you need to take Koni's off the car to adjust them.

The front suspension bushes are also available in an uprated form to make the car 'tighter'. The upper inner bush kit (TT3160) comprises the steel & nylon bush set-up on the lower inner fulcrum pin on the TR2 (from TS9122) to TR4. It however uses 'nylatron' versions of the 110696 bush and the washer 110697.

'Nylatron' is a hard wearing, self lubricating replacement for the ordinary nylon.

Lastly, there is a lower outer kit (TT3264), which has 'nylatron' versions of the 139833 nylon bush, plus standard bushes (item 92 to 97 inclusive).

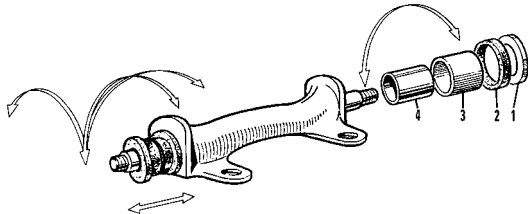
TT4006	FRONT SPRING (uprated)	2	all models
TT3101	'SPAX' Shock absorber, adjustable	2	we suggest these uprated units are fitted in pairs only
TT3102	'KONI' Shock absorber, adjustable	2	
TT3203	'GAZ' Shock absorber, adjustable	2	
TT3160	UPRATED BUSH KIT (Upper/Inner)	1	
TT3264	UPRATED BUSH KIT (Lower/Outer)	1	

Front Suspension Bushes Explained

See also Performance & Tuning in Accessories for our full range of uprated suspension components.

The front upper suspension of the TR4A is exactly the same as used on the early TR2's (up to TS9122), they were fitted with 102228 rubber bushes on both the upper and lower inner wishbone mountings. Triumph improved this to incorporate a nylon and steel bush set (using 110695, 110696, 110697 and 115702 seals), but only on the lower inner wishbones. They kept the 102228 rubber bushes on the upper wishbones.

A very simple improvement is to fit the Triumph modification for the lower, to the upper. You should realise that there is a small price to pay. The rubber bush flexes in all directions without fear or favour, but the nylon/steel bushes give free and predictable rotation in an arc about the axis of the bush.



Clear?

Maybe not - Perhaps this illustration will help.

1	110697	WASHER	8
2	115702	SEAL	8
3	110696	BUSH, nylon	4
4	110695	BUSH, steel	4

Even if it's still not clear, we'll give you the bottom line.

Uprated bushes give a harsher & noisier ride, but they usually last longer.

Slotted & Nyloc nuts

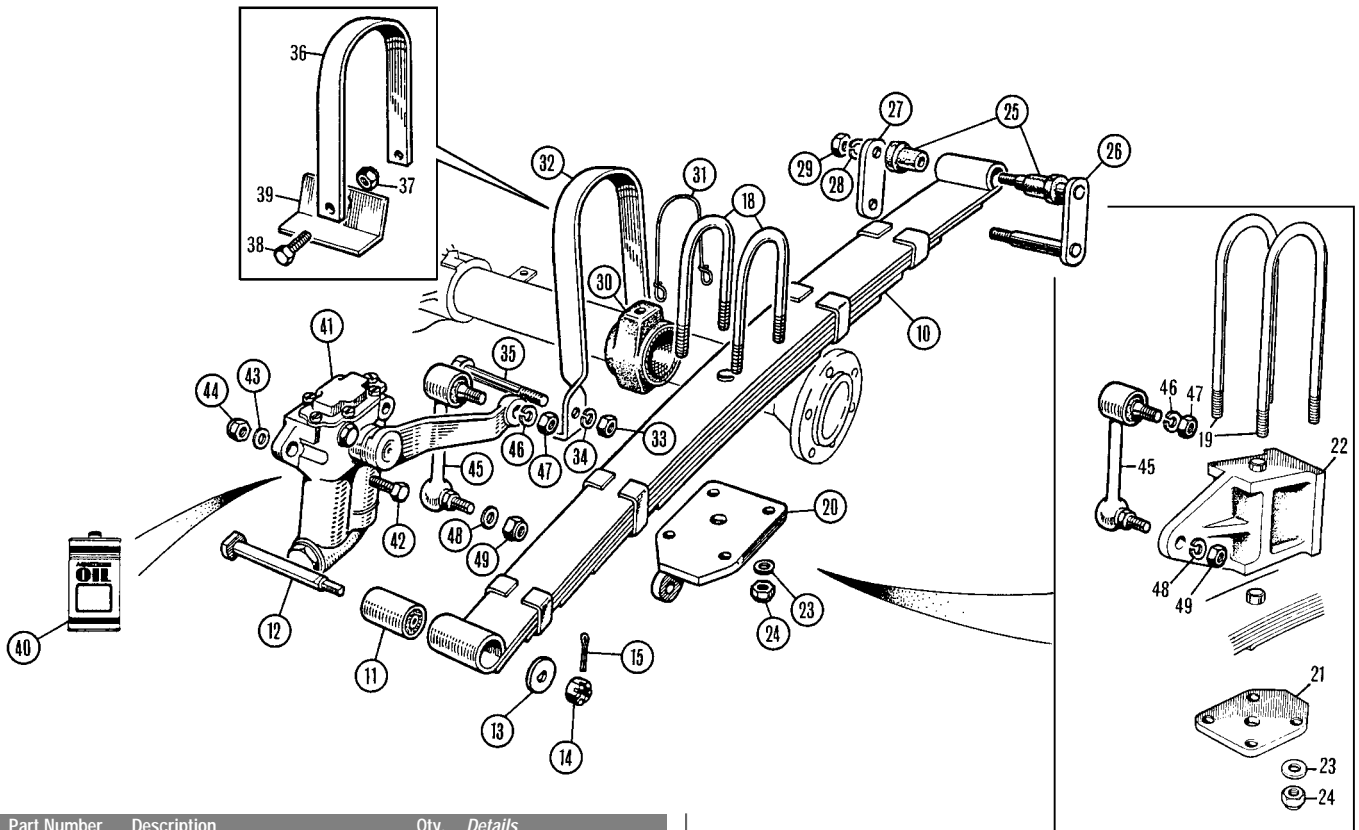
Throughout the history of the TR2/3/3A and TR4A front suspension, split pins and slotted nuts were the order of the day. The self locking nuts were not yet in common use on motor vehicles.

For enthusiasts seeking originality or for owners without split pin holes in their studs, bolts, ball joints etc, we offer the following conversion.

Thread Size	Slotted Nut	Nyloc Nut
3/8"	LN2209	GHF273
7/16"	NL607041	GHF274
1/2"	NL608041	GHF275
9/16"	LN2212	53K1667

These nuts are 'half' nuts, i.e. The threaded portion is only 'half' the depth of a full nut.





Ill. No	Part Number	Description	Qty. Req.	Details
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Rear Suspension TR2/TR3/3A & TR4

See also Performance & Tuning in Accessories for our full range of uprated suspension components.

The basic leaf spring rear suspension provided reasonable handling (unless you fitted Michelin X tyres; especially exciting was driving on 155x15 4J rims in damp conditions!). In the early days, Triumph fitted a harder spring on the drivers side as they assumed the driver was always present, but there wouldn't always be passenger.

With many cars being converted from Left Hand Drive to Right Hand Drive, this could cause problems.

We have rationalised the range to one spring for all TR2/3/3A's & TR4's to CT23382. The spring we use is the O.E. specification on TR4 (drivers side). This is slightly harder than the TR2/3/3A springs but nothing that an intrepid 'real car' owner can't cope with.

We do offer a 'competition' specification spring which is about 30% harder. If you think your suspension is too hard and therefore you suspect you have uprated springs, you can identify them by two clues. The second leaf is the same thickness as the main one, it also 'hooks' around the main leaf.

At chassis number CT23383,

Triumph introduced an amazingly bizarre 'deep dish' rear spring with a 3" block spacer between

the spring and axle. It was supposed to reduce bump oversteer.

We've never been able to tell the early '4' from the late '4' when riding in them. Our guess is, it didn't work.

Standard



Uprated



10	208636	LEAF SPRING	2	TR2/3/3A
	TT4016	LEAF SPRING, competition	2	TR4 to CT23382
	209964	LEAF SPRING, deep dish	2	TR4 from CT23383
11	107769	BUSH, in front spring eye	2	TR2/3/3A, TR4
The distance between spring mounting points after chassis no. CT23383 is reduced by 1" compared with prior chassis numbers. For this reason it is not possible to fit TT4016 springs to later TR4's.				
12	106231	PIN, front attachment	2	
13	102690	'D' WASHER	2	
14	NL608041	NUT, slotted	2	
15	PC10	SPLIT PIN	2	
18	107688	'U' BOLT, Lockheed axle	4	TR2, TR3 to TS13045
	113194	'U' BOLT, Girling axle	4	TR3 from TS13046, TR3A, TR4 to CT23382
19	136865	'U' BOLT, deep dish spring	4	TR4 from CT23383
20	105929	PLATE, rear spring, LH	1	TR2, TR3 to TS13045
	105928	PLATE, rear spring, RH	1	
	113181	PLATE, rear spring, LH	1	TR3 from TS13046, TR3A, TR4 to CT23382
	113191	PLATE, rear spring, RH	1	
21	139489	PLATE, rear spring	2	
22	137634	SPACER, LH	1	TR4 from CT23383
	137635	SPACER, RH	1	

Ill. No	Part Number	Description	Qty. Req.	Details
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23	GHF302	WASHER, plain	8	
24	GHF223	NUT, nyloc	8	
25	112503	BUSH, rubber, rear shackle pin	8	
	112503P	BUSH, poly, rear shackle pin	8	
	TT30765	BUSH, nyatron, uprated	8	
26	107535	SHACKLE PIN ASSEMBLY	2	
27	AHH5019	SHACKLE PLATE	2	
28	GHF333	WASHER, locking	4	
29	GHF202	NUT	4	
30	115456*	BUFFER, rear axle	2	TR3 from TS13046, TR4
31	EAW4321	WIRE, buffer to axle	2	

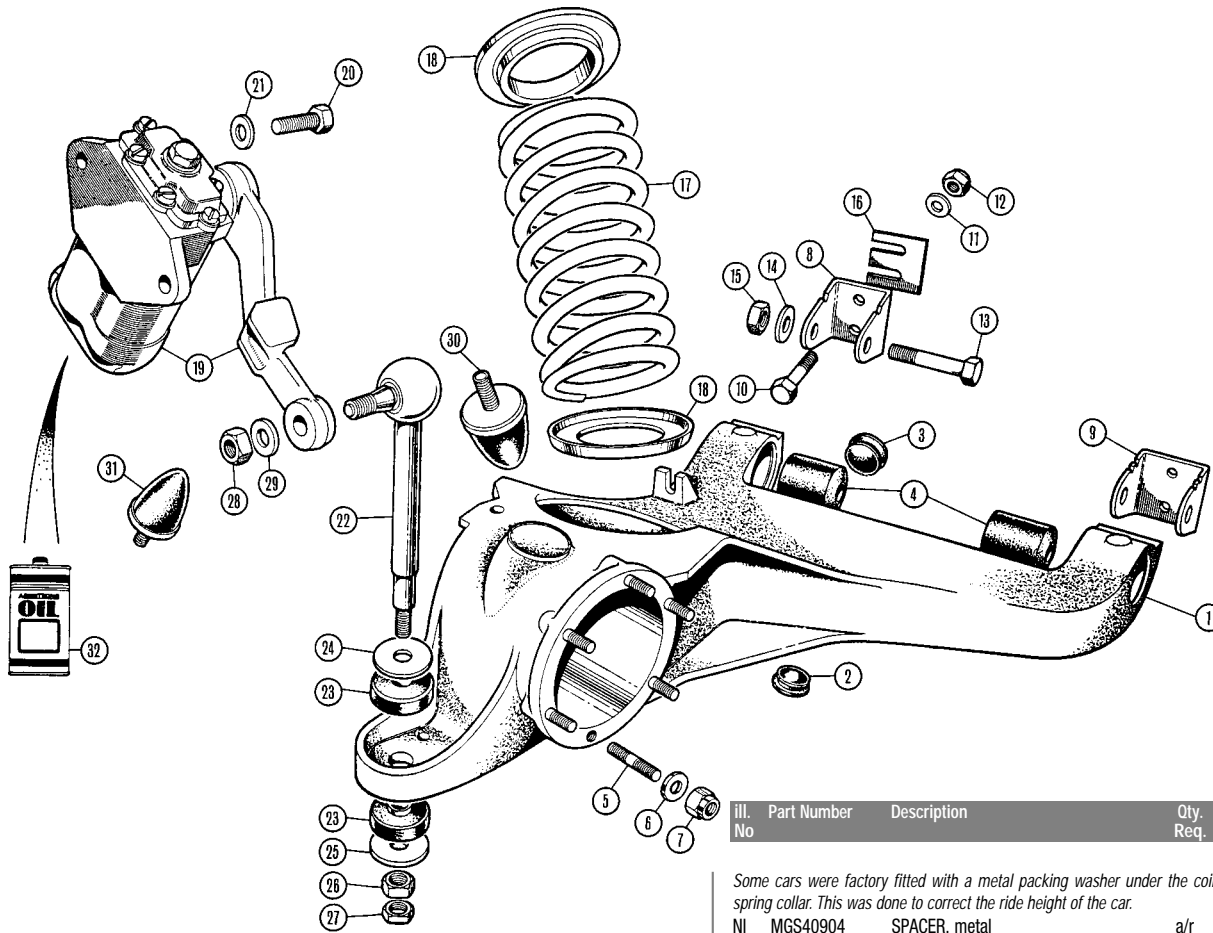
*Note: May be used for earlier cars (TR2/3 to TS13045) by sectioning to fit the smaller diameter axle tubes and wiring in place as originally fastened.

32	107476	CHECK STRAP	2	
33	NT606041	NUT	4	TR2/3/3A, TR4 to CT23382
34	GHF333	WASHER, locking	4	
35	107477	BOLT, mounting check strap	2	
36	137338	CHECK STRAP	2	
37	GHF223	NUT, nyloc	4	TR4 from CT23383
38	137629	SCREW	4	
39	137339	BRACKET, anchor, check strap	2	
40	AAA149M	OIL, shock absorber, (0.5 litre), Moss	a/r	standard
	GGL9038X	OIL, shock absorber, Penrite, (500ml)	a/r	No 1, Light, standard
	GGL9039X	OIL, shock absorber, Penrite, (500ml)	a/r	No 2, Heavy, competition

41	202388	SHOCK ABSORBER, RH (new)	1	Standard
	202389	SHOCK ABSORBER, LH (new)	1	
(Customers own units can be reconditioned if preferred, lead time is approx. 6 to 8 weeks)				
	TT3014RN	SHOCK ABSORBER, RH (new)	1	Uprated 25%
	TT3014LN	SHOCK ABSORBER, LH (new)	1	

See also 'Performance & Tuning' in Accessories.

42	SH606101	BOLT, shock absorber to frame	4	
43	WP20X	WASHER, plain	4	
44	GHF223	NUT, nyloc	4	
Loose shock absorbers usually cause clunking noises in the rear of the car. This can cause damage to the shock absorber mounting brackets as well as diminishing the effectiveness of the shock absorbers, also, check the condition of the links.				
45	105925	LINK, shock absorber	2	
46	GHF333	WASHER, locking, link to arm	2	
47	GHF202	NUT, link to arm	2	
48	WD600071	WASHER, link to spring plate	2	
49	GHF274	NUT, nyloc, link to spring plate	2	



Ill. No	Part Number	Description	Qty.	Details Req.
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Rear Suspension TR4A with IRS axle

See also Performance & Tuning in Accessories for our full range of uprated suspension components.

1	308267	TRAILING ARM, with bushes, LH	1	
	308268	TRAILING ARM, with bushes, RH	1	
<i>The trailing arms listed here are the later type that were fitted to TR5/250 and TR6. When replacing original TR4A type trailing arms with the later type, (item 30), bump rubber (fitted on wheel arch) should be replaced with part number 136758 (fitted into boss on trailing arm).</i>				
2	138801	BLANKING PLUG, 7/8"	4	
3	138532	BLANKING PLUG, 1 1/8"	4	
4	137599	BUSH, trailing arm, standard	4	Rubber
	TT3266	BUSH, trailing arm, uprated	4	Polyurethane
	TT3265	BUSH, trailing arm, uprated	4	Nylatron
5	TD812	STUD, hub attachment	12	
6	GHF301	WASHER, plain	12	
7	GHF272	NUT, nyloc	12	
8	141399	BRACKET, inner (1 notch)	2	
9	141398	BRACKET, outer (2 notch)	2	
10	BH606261	BOLT, support bracket to chassis	4	
11	WC600071	WASHER, plain	4	
12	GHF274	NUT, nyloc	4	
13	HBZ730	BOLT, trailing arm to support bracket	4	
14	GHF302	WASHER, plain	4	
15	GHF274	NUT, nyloc	4	
16	139363	SHIM, bracket to chassis	a/r	

The rear end of the IRS TR4A was notoriously weak. Our standard spring (GSV1001) is in fact a TR6 spring specification which is slightly uprated (TR4A standard is 280lbs) while GSV1001 is 354lbs, really the minimum strength to use on TR4A's to avoid the sagging rear end look.

We sell hundreds of TT4212 which is a nice compromise between ride and handling, it's rated at 390lbs, which should not cause any passenger discomfort.

We supply a whole range of uprated suspension components in the Performance & Tuning section.

17	GSV1001	COIL SPRING, standard (354lbs)	2	} see table opposite
	TT4212	COIL SPRING, uprated (390lbs)	2	
18	138823	COLLAR (Spring insulator) (standard)	4	Rubber
	138823P	COLLAR (Spring insulator) (uprated)	4	Polyurethane
	138823PX	COLLAR (Spring insulator) (uprated)	4	Polyurethane, slightly thicker than standard

Ill. No	Part Number	Description	Qty.	Details Req.
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Some cars were factory fitted with a metal packing washer under the coil spring in addition to the rubber spring collar. This was done to correct the ride height of the car.

NI MGS40904 SPACER, metal a/r 3mm thickness

We supply a small spacer plate of 3mm depth that allows you to adjust the spring/ride height to suit your needs. (Spacers are sold individually).

Maximum of 2 recommended per side, each spacer adjusts the ride height by approx. 5mm.

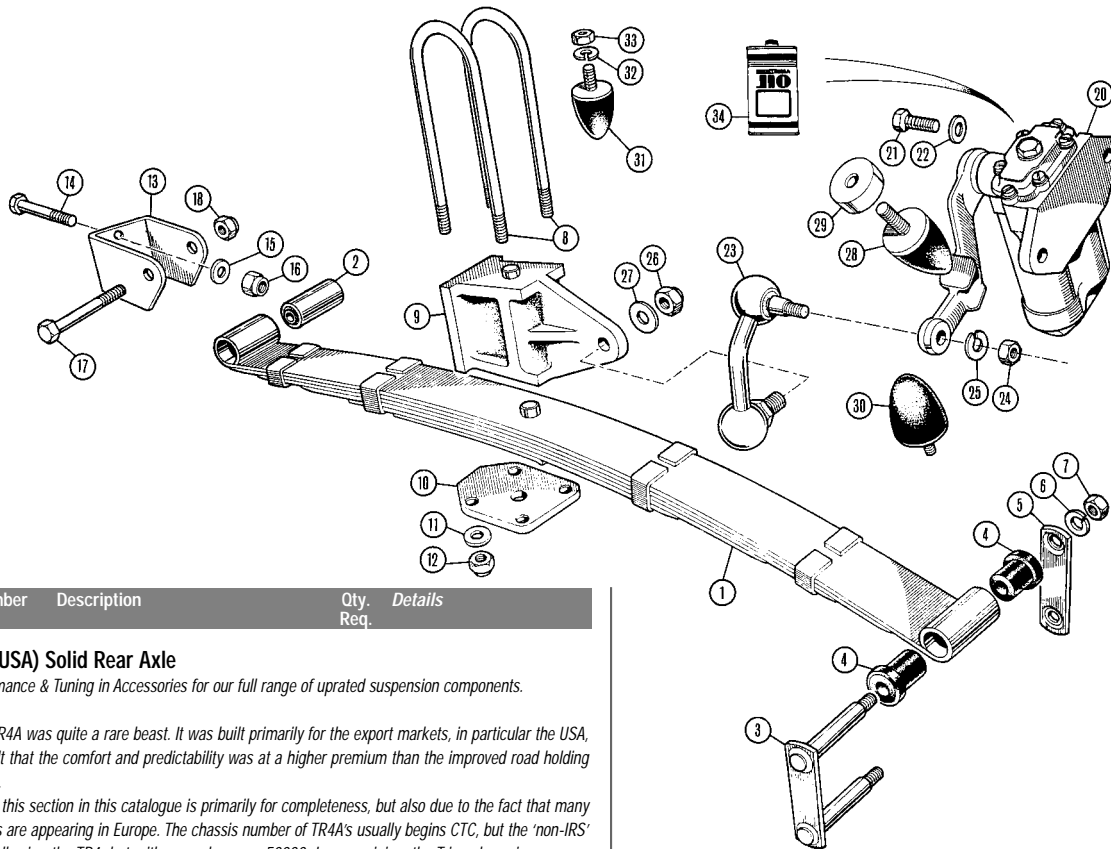
19	GSA287	SHOCK ABSORBER, standard, LH (new)	1	} standard
	GSA286	SHOCK ABSORBER, standard, RH (new)	1	
	GSA287R	SHOCK ABSORBER, standard, LH (rebuilt)	1	
	GSA286R	SHOCK ABSORBER, standard, RH (rebuilt)	1	
	TT3214RN	SHOCK ABSORBER*, uprated, RH, (New)	1	} setting uprated 25%, road and competition.
	TT3214LN	SHOCK ABSORBER*, uprated, LH, (New)	1	
	TT3215RN	SHOCK ABSORBER*, uprated, RH, (New)	1	} setting uprated 50%, full competition only.
	TT3215LN	SHOCK ABSORBER*, uprated, LH, (New)	1	

(Not suitable for road use)

20	HU1009	BOLT, securing shock absorber	4	
21	WB600070	WASHER, plain	4	
22	141464A	LINK, shock absorber	2	
23	21A860	BUSH, (Standard), link to arm	4	Rubber
	513680P	BUSH, (Uprated), link to arm	4	Polyurethane
24	140416	WASHER, link to arm, upper	4	
25	140479	WASHER, link to arm, upper	2	
26	GHF202	NUT, plain	2	
27	NT605041	NUT, jam	2	
28	GHF203	NUT, plain	2	
29	GHF334	WASHER, locking	2	
30	140290	'BUMP STOP' RUBBER, on wheel arch	2	
31	136758	'BUMP STOP' RUBBER, on chassis	2	
	136758Z	'BUMP STOP' RUBBER, on chassis	2	replacement
32	AAA149M	OIL, shock absorber, Moss, (500ml)	a/r	standard
	GGL9038X	OIL, shock absorber, Penrite, (500ml)	a/r	No 1, Light, standard
	GGL9039X	OIL, shock absorber, Penrite, (500ml)	a/r	No 2, Heavy, competition

Rear Coil Springs:

	Type/Usage	Fitted Height	Spring Rate/lbs
GSV1001	Standard	9.00"	354
TT4211*	Uprated, raised	9.65"	390
<i>(This spring gives an increase in ride height, use only in conjunction with front spring TT4006)</i>			
TT4212	Uprated (standard ride height)	8.85"	390
TT4216	Uprated, lowered road	8.50"	420
TT4215	Uprated, lowered sprint	8.45"	510
TT4215A	Uprated, lowered race	7.30"	550



Ill. No	Part Number	Description	Qty. Req.	Details
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TR4A with (USA) Solid Rear Axle

See also Performance & Tuning in Accessories for our full range of uprated suspension components.

The solid rear TR4A was quite a rare beast. It was built primarily for the export markets, in particular the USA, where it was felt that the comfort and predictability was at a higher premium than the improved road holding of the 'IRS' cars.

The inclusion of this section in this catalogue is primarily for completeness, but also due to the fact that many 'non-IRS' TR4As are appearing in Europe. The chassis number of TR4As usually begins CTC, but the 'non-IRS' cars were CT following the TR4, but with a number over 50000. In our opinion, the Triumph engineers were really clever to get the conversion back from IRS with a minimum of components being re-designed.

In our effort to provide the fullest possible service we have commissioned special runs of the shock absorber links (142155/6) and leaf springs (212113), so owners of these cars can keep them as original as possible,

1	212113	LEAF SPRING	2	
2	107769	BUSH, front spring eye	2	
3	142273	SHACKLE PLATE, with pins	2	
4	112503	BUSH, shackle pins	8	
5	142275	SHACKLE PLATE	2	
6	GHF333	WASHER, locking	4	
7	GHF202	NUT, shackle plate	4	
8	136865	U-BOLT, axle housing to spring	4	
9	142277	DISTANCE PIECE	2	
10	139489	PLATE, U-bolt mounting	2	
11	GHF302	WASHER, plain	8	
12	GHF223	NYLOC NUT, U-bolt securing	8	
13	142427	BRACKET, front eye, RH	1	
	142426	BRACKET, front eye, LH	1	
14	GHF126	BOLT, bracket to frame	4	
15	WM59	WASHER	4	
16	GHF223	NYLOC NUT	4	
17	BH610281	BOLT, front eye to bracket	2	
18	GHF226	NUT, nyloc	2	
20	GSA286	SHOCK ABSORBER, new, RH	1	standard
	GSA287	SHOCK ABSORBER, new, LH	1	
	GSA286R	SHOCK ABSORBER, rebuilt, RH	1	
	GSA287R	SHOCK ABSORBER, rebuilt, LH	1	
21	SH607101	SCREW, shock absorber to chassis	4	
22	WB600070	WASHER	4	
23	142155	LINK, shock absorber, RH	1	link to shock absorber
	142156	LINK, shock absorber, LH	1	
24	GHF203	NUT, shock link to shock	2	
25	WL600071	WASHER, locking,	2	
26	GHF275	NUT, nyloc, link to distance piece	2	
27	GHF302	WASHER, plain	2	
28	140290	BUMP RUBBER (on body)	2	
29	142159	SPACER BLOCK, bump rubber	2	
30	140290	REBOUND RUBBER (on chassis)	2	
31	136758	BUFFER, pinion housing	1	
32	GHF333	WASHER, locking	1	
33	GHF202	NUT	1	
34	AAA149M	OIL, shock absorber, Moss, (500ml)	a/r	standard
	GGL9038X	OIL, shock absorber, Penrite, (500ml)	a/r	No 1, Light, standard
	GGL9039X	OIL, shock absorber, Penrite, (500ml)	a/r	No 2, Heavy, competition

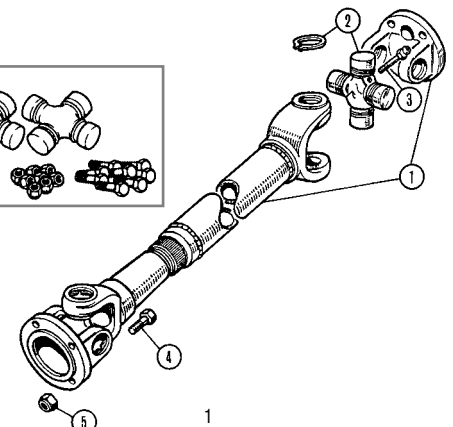
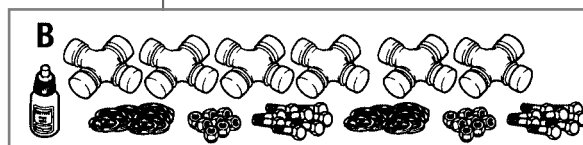
Ill. No	Part Number	Description	Qty. Req.	Details
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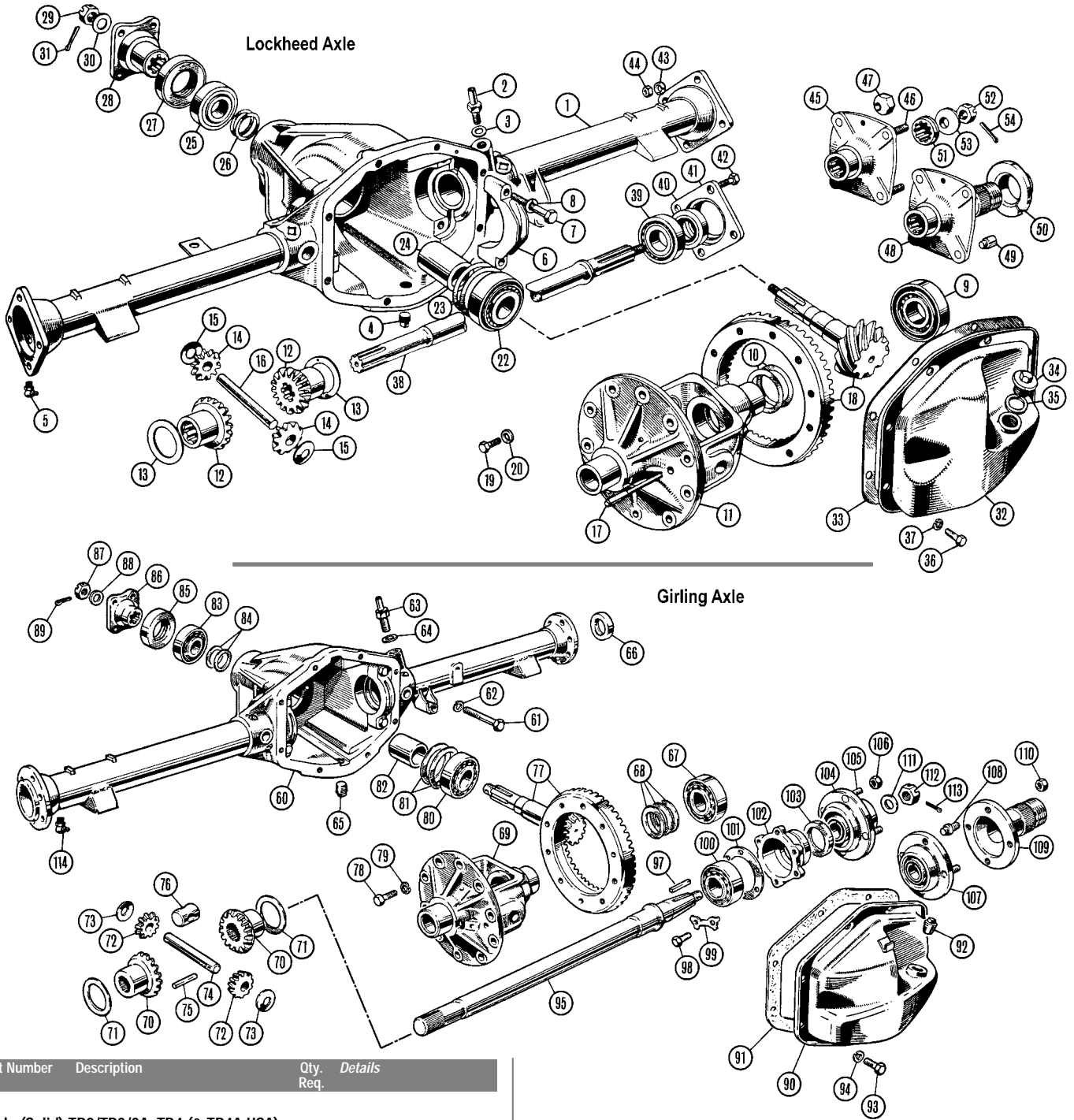
Propshaft (All Models)

1	208075	PROPSHAFT	1	
2	GUJ116	UNIVERSAL JOINT	2	
3	144825	GREASE NIPPLE, universal joint	2	
4	107960	BOLT	8	
5	TN3209	NUT, nyloc	8	
	GHF243	NUT, 'Cleveland'	8	

Universal Joint Kit (Propshaft & Drive Shaft)

B	GUJ102K	UNIVERSAL JOINT KIT	1	non-greasable
Kit includes the following items:-				
		UNIVERSAL JOINT (propshaft)	2	non-greasable
		BOLT, propeller shaft		
		NUT, nyloc	8	
		UNIVERSAL JOINT (drive shaft)	4	non-greasable
		BOLT, drive shaft inner yoke to flange	8	
		NUT, nyloc	8	
		STUDLOC, 'Loctite', 10 ml.	1	

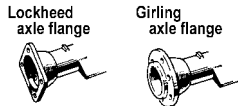




iii. No	Part Number	Description	Qty. Req.	Details
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Rear Axle (Solid) TR2/TR3/3A, TR4 (& TR4A USA)

During 1956 Triumph departed from using Lockheed brakes with the introduction of Girling discs on the front of the TR3 (from chassis no. TS13046). The opportunity was taken to remove a major weakness on the Triumph TR, namely, the breaking half shaft. The rear axle was also re-designed and strengthened. Whilst many Lockheed cars are now fitted with a Girling axle – a most reliable and tough unit, there are many known cases of Girling vehicles being converted to Lockheed, perhaps in emergencies. To discover which type you have, look on the flange connecting the axle tube to the brake backplate: the Lockheed axle tubes are connected to the drum backplate with 4 bolts and a square flange, Girling has 6 bolts and a circular flange.



Lockheed Axle - TR2, TR3 to TS13045

Other ratios may be available, please contact your local Moss branch

NI 502153R	AXLE ASSEMBLY, recon, exch. (3.7:1)	1	} TR2 TR3 to TS13045
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Lockheed Axle Components

1	105515	AXLE CASING	1
2	056894	BREATHER	1
3	WF509	WASHER, fibre	1

iii. No	Part Number	Description	Qty. Req.	Details
4	057216	DRAIN PLUG	1	
5	056934	GREASE NIPPLE (CAP, part of 105585 axle casing)	2	not supplied separately.
7	100878	BOLT, cap to casing	4	
8	GHF333	WASHER, locking	4	
9	110515	BEARING, differential carrier	2	
10	1008943	SHIM, (0.003"), carrier bearing	a/r	} adjusting
	1008955	SHIM, (0.005"), carrier bearing	a/r	
	10089610	SHIM, (0.010"), carrier bearing	a/r	
11	301607	CARRIER, differential	1	

Assuming none of our customers are silly enough to fit used crown wheels (which is positively NOT recommended, you will be faced with two choices when fitting a new crown wheel. If you retain carrier 301607 from your Lockheed axle you will have to drill the 10 bolt holes out 'using' a 25/64" drill and countersink both sides of the carrier after the drilling operation. You will then be able to use bolts (item 19) to secure the crown wheel to the carrier (make sure you use lock washers, item 20, with these bolts). Your second option is to replace carrier 301607 with the later Girling carrier (item 69), which will present no problems.

Ill. No	Part Number	Description	Qty. Req.	Details
Lockheed Axle Components Cont' ...				
12	102800	SUN WHEEL GEAR, side differential	2	
13	102801	WASHER, thrust, replace in pairs	2	
14	134074	PLANET GEAR, pinion	2	
15	056793	THRUST WASHER	2	(0.0465"-0.0495")
	139951	THRUST WASHER	2	(0.051"-0.053")
	139952	THRUST WASHER	2	(0.055"-0.057")
	139953	THRUST WASHER	2	(0.059"-0.061")
	139954	THRUST WASHER	2	(0.063"-0.065")
	160375	THRUST WASHER	2	(0.065"-0.067")
	139955	THRUST WASHER	2	(0.067"-0.069")
	139956	THRUST WASHER	2	(0.071"-0.073")
16	100844	CROSS SHAFT	1	
17	111215	PIN, cross shaft to carrier	1	
18	502127	CROWN WHEEL & PINION	1	(3-7:1)
	505014	CROWN WHEEL & PINION	1	(4-1:1)
19	110737	BOLT, 3/8", crown wheel to carrier	10	
20	118977A	WASHER, locking (alternative to plain washers & lock tabs)	10	use with 110737
22	100897A	BEARING, rear pinion (head)	1	
23	1009653	SHIM, (0.003")	a/r	rear pinion bearing
	1009665	SHIM, (0.005")	a/r	
	10096710	SHIM, (0.010")	a/r	
24	100846	SPACER, between bearings	1	
25	100422	BEARING, front pinion (tail)	1	
26	140793	SHIM, (0.003")	a/r	front pinion bearing
	100563	SHIM, (0.005")	a/r	
	100564	SHIM, (0.010")	a/r	
27	100898	OIL SEAL, pinion	1	
28	107947	PINION FLANGE, square flange	1	alternatives
	138105	PINION FLANGE, round flange	1	
29	100892	NUT, slotted, original type	1	
	159394	NUT, nyloc, replacement	1	
30	142333	WASHER, pinion flange	1	
31	GHF501	SPLIT PIN	1	
32	201918	REAR COVER	1	Lockheed axle
	203660	REAR COVER	1	Girling axle
<i>The original Lockheed rear cover (201918) is no longer available. We recommend replacement with the later Girling axle type rear cover (203660), and use with filler plug & 114774.</i>				
33	101359	GASKET, for cover	1	
34	062058	FILLER PLUG	1	Lockheed axle
	114774	FILLER PLUG	1	Girling axle
35	056912	WASHER, fibre	1	(use only with 062058)
36	SH605051	SCREW, attaching c over	8	
37	GHF332	WASHER, locking	8	
38	201933	AXLE SHAFT	2	
39	SP75G	BEARING, rear hub	2	TR2 TO TS5555
40	103811	OIL SEAL	2	TR2 FROM TS5556, TR3
	109543	OIL SEAL	2	
41	200194	HOUSING, for bearing	2	
42	107960	BOLT	8	
43	GHF302	WASHER, plain	8	
44	GHF223	NUT, nyloc	8	
45	109553	HUB, steel wheel	2	steel wheels
46	100869	STUD, fitted to rear hub	8	
47	109586	WHEEL NUT	8	
48	109550	HUB, LH, wire wheels	1	
	109551	HUB, RH, wire wheels	1	wire wheels
49	107950	PEG, drum to hub, short	6	
	109457	PEG, drum to hub, long	2	
50	107942	COLLAR, taper, notched	2	
51	108608	COLLAR, taper, internally splined	2	
52	112635	NUT, slotted, hub to axle shaft	2	
53	WC600121	WASHER, plain	2	
54	GHF502	SPLIT PIN	2	

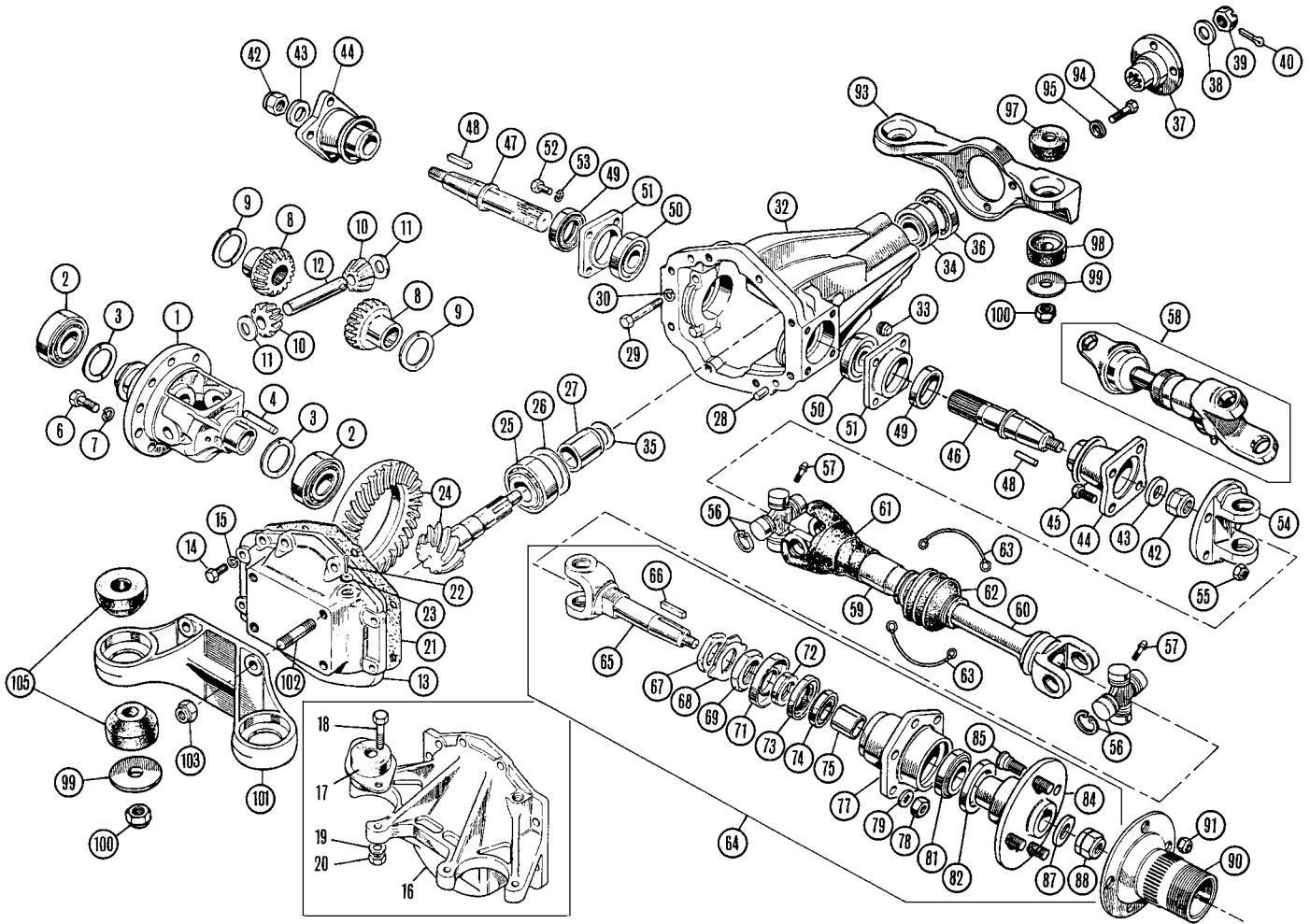
Girling Axle - TR3 from TS13046, TR3A, TR4 (& TR4A USA)

Axle Units (Girling)

Other ratios may be available, please contact your local Moss branch

NI	503833R	AXLE ASSEMBLY, recon, exch. (3.7:1)	1	TR3 from TS13046 TR3A
NI	510922R	AXLE ASSEMBLY, recon, exch. (3.7:1)	1	TR4
NI	510923R	AXLE ASSEMBLY, recon, exch. (4.1:1)	1	
NI	514754R	AXLE ASSEMBLY, recon, exch. (3.7:1)	1	TR4A
NI	514755R	AXLE ASSEMBLY, recon, exch. (4.1:1)	1	(Solid axle)

Ill. No	Part Number	Description	Qty. Req.	Details
Girling Axle Components				
60	503832	AXLE CASING	1	
61	100878	BOLT, bearing cap	4	
62	GHF333	WASHER, locking	4	
63	056894	BREATHER	1	
64	WF509	WASHER, fibre	1	
65	114774	PLUG, oil drain	1	
NI	GHK1144	BEARING KIT	2	Bearing kit contains all items marked*
66	GHS185*	OIL SEAL, axle housing	2	
67	110515	BEARING, differential carrier	2	
68	1008943	SHIM, bearing adjusting (0-003")	a/r	side differential (replace in pairs)
	1008955	SHIM, bearing adjusting (0-005")	a/r	
	10089610	SHIM, bearing adjusting (0-010")	a/r	
69	302155	CARRIER, differential	1	
70	153384	SUN WHEEL GEAR,	2	
71	102801	THRUST WASHER	2	
72	153385	PLANET GEAR, pinion	2	
73	056793	THRUST WASHER	a/r	(0.0465-0.0495")
	139951	THRUST WASHER	a/r	(0.051-0.053")
	139952	THRUST WASHER	a/r	(0.055-0.057")
	139953	THRUST WASHER	a/r	(0.059-0.061")
	139954	THRUST WASHER	a/r	(0.063-0.065")
	160375	THRUST WASHER	a/r	(0.065-0.067")
	139955	THRUST WASHER	a/r	(0.067-0.069")
	139956	THRUST WASHER	a/r	(0.071-0.073")
74	100844	SHAFT, pinion gear	1	
75	111215	PIN, shaft locating	1	
76	109566	THRUST BUTTON	1	
77	502127	CROWN WHEEL & PINION	1	(3-7:1)
	505014	CROWN WHEEL & PINION	1	(4-1:1)
78	110737	BOLT, ring gear to carrier, 3/8"	10	see the note below
79	118977A	WASHER, locking	10	item no. 11
80	100897A	BEARING, rear pinion, (head)	1	
81	1009653	SHIM, (0.003")	a/r	pinion adjustment
	1009665	SHIM, (0.005")	a/r	
	10096710	SHIM, (0.010")	a/r	
82	100846	SPACER, between bearings	1	
83	100422	BEARING, front pinion (tail)	1	
84	140793	SHIM, (0.003")	a/r	bearing adjustment
	140792	SHIM, (0.005")	a/r	
	140791	SHIM, (0.010")	a/r	
85	100898	OIL SEAL, pinion	1	
86	107947	PINION FLANGE, square flange	1	TR3/3A, TR4
	138105	PINION FLANGE, round flange	1	TR4A
87	112635	NUT, slotted	1	
88	142333	WASHER	1	
89	GHF501	SPLIT PIN	1	
90	203660	COVER, rear (Standard)	1	
	203660A	*COVER, rear (Lightweight Aluminium)	1	
<i>*Features areas thickened to allow machining to take special control features such as Watts linkage & Panhard Rods.</i>				
91	101359	GASKET, for cover	1	
92	114774	PLUG, filler	1	
93	SH605051	BOLT, cover to case	8	
94	GHF332	WASHER, locking	8	
95	203200	HALF SHAFT (taper on outer end)	2	TR3 from TS130416, TR3A
	207613	HALF SHAFT	2	TR4A
97	110621	KEY	2	
98	112653	BOLT, casing to bearing housing	12	
99	036567	TAB WASHER	6	
100	GHB166*	BEARING, axle	2	
101	036583	SHIM (0.006")	a/r	wire wheels
	038264	SHIM (0.008")	a/r	
	036582	SHIM (1/64")	a/r	
	036581	SHIM (1/32")	a/r	
102	058773	HOUSING, bearing	2	
103	GHS162*	OIL SEAL, hub	2	
104	113175	HUB, steel wheel	8	steel wheels
105	100869	STUD, steel wheel	8	
106	109586	WHEEL NUT, steel wheel	8	
107	113175	HUB, wire wheel	2	wire wheels
108	110365	STUD, wire wheel	8	
109	217602	EXTENSION, RH hub	1	
	217603	EXTENSION, LH hub	1	
110	110366	NUT, extension to hub	8	
111	WC600121	WASHER, axle nut	2	
112	058784	NUT, axle	2	
113	GHF504	SPLIT PIN	2	
114	125361	GREASE NIPPLE	2	



iii. Part No	Part Number	Description	Qty. Req.	Details
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Rear Axle ('Differential') (IRS) - TR4A Models only

Differential Units

All the following Differential Assemblies are Reconditioned/Exchange units.
Alternative Ratios may be available, please enquire.

NI 514752R	DIFFERENTIAL (3.7:1)	1	
NI 514752RX	DIFFERENTIAL (3.7:1)	1	new c/wheel & pinion
NI 514752RXL	DIFFERENTIAL (3.7:1)	1	new c/wheel & pinion and Limited Slip Diff*
NI 514753R	DIFFERENTIAL (4.1:1)	1	
NI 514753RX	DIFFERENTIAL (4.1:1)	1	new c/wheel & pinion
NI 514753RXL	DIFFERENTIAL (4.1:1)	1	new c/wheel & pinion and Limited Slip Diff*

Limited Slip Differentials

This design of torque sensing differential makes it a worthwhile addition to any competition or fast road car, allowing maximum drive to both rear wheels giving more grip under hard acceleration. These differentials (crown wheel carriers) are for fitting inside your own axle. Replaces items 1, 4, 8, 9, 10, 11 & 12.

Alternatively, purchase one of our exchange rear axles - fully reconditioned, complete with brand new limited slip diff. and crown wheel & pinion.

NI TT2220	LIMITED SLIP DIFFERENTIAL	1	
TGK120	LIMITED SLIP DIFF CONVERSION	1	includes fitting 'LSD' to customer's own axle, new seals and any other parts fitted as required at extra cost.

Rear Axle Repair Kit

NI 312061K	REAR AXLE BEARING & SEAL KIT	1	
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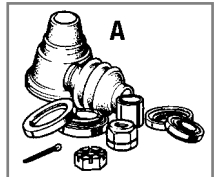
Rear Axle Mounting Kits

NI 514752FK	MOUNTING KIT (Differential)	1	Standard bushes
NI 514752FKP	MOUNTING KIT (Differential)	1	Polyurethane bushes
NI 140009RK	REINFORCEMENT KIT, Front	2	(includes reinforcements & mounting pin)
NI 147400RK	REINFORCEMENT KIT, Rear	2	(includes reinforcements & mounting pin)

iii. Part No	Part Number	Description	Qty. Req.	Details
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Drive Shaft Rebuild Kit

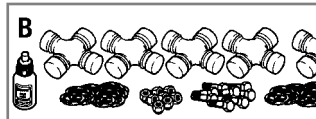
A	TGK122	DRIVE SHAFT REBUILD KIT	2	
Kit includes the following items:-				
		BOOT, PVC, protecting inner joint	1	
		BOOT, rubber, protecting sliding joint	1	
		WIRE, binding, large end of boot	1	
		WIRE, binding, small end of boot	1	
		UNIVERSAL JOINT	2	non-greasable
		BEARING KIT	1	
		NUT, nyloc, driving flange to axle shaft	1	
		NUT, slotted, driving flange	1	
		SPLIT PIN, locking slotted nut	1	



non-greasable

Universal Joint Kit (Propshaft & Drive Shaft)

B	GUJ102K	UNIVERSAL JOINT KIT	1	non-greasable
Kit includes the following items:-				
		UNIVERSAL JOINT (propshaft)	2	non-greasable
		BOLT, propeller shaft		
		NUT, nyloc	8	
		UNIVERSAL JOINT (drive shaft)	4	non-greasable
		BOLT, drive shaft inner yoke to flange	8	
		NUT, nyloc	8	
		STUDLOC, 'Loctite', 10 ml.	1	



Differential Components & Drive Shafts

1	302155	DIFFERENTIAL CARRIER	1	
2	110515	BEARING, differential carrier	2	
3	1008943	SHIM, bearing adjusting	a/r	(0.003")
	1008955	SHIM, bearing adjusting	a/r	(0.005")
	100896/10	SHIM, bearing adjusting	a/r	(0.010")
4	111215	LOCATING PIN, for pinion shaft	1	
6	110737	BOLT, ring gear to diff' carrier	10	
7	118977A	WASHER, locking	10	

Ill. No	Part Number	Description	Qty. Req.	Details
8	153384	GEAR, differential (side)	2	16 teeth
9	102801	THRUST WASHER, side gear	2	
10	153385	PINION GEAR, differential	2	10 teeth
11	056793	THRUST WASHER	a/r	(0.0465-0.0495")
	142165	THRUST WASHER	a/r	(0.049-0.051")
	139951	THRUST WASHER	a/r	(0.051-0.053")
	142166	THRUST WASHER	a/r	(0.053-0.055")
	139952	THRUST WASHER	a/r	(0.055-0.057")
	160373	THRUST WASHER	a/r	(0.057-0.059")
	139953	THRUST WASHER	a/r	(0.059-0.061")
	160374	THRUST WASHER	a/r	(0.061-0.063")
	139954	THRUST WASHER	a/r	(0.063-0.065")
	160375	THRUST WASHER	a/r	(0.065-0.067")
	139955	THRUST WASHER	a/r	(0.067-0.069")
	160376	THRUST WASHER	a/r	(0.069-0.071")
	139956	THRUST WASHER	a/r	(0.071-0.073")

Shims must be fitted in pairs. You cannot, for example, fit a 139951 with 139955 and get an average shim of 0.059-0.060". The gears will be misaligned, so you have to use two of 139953 to achieve this.

12	100844	PINION SHAFT	1	
13	141360	REAR COVER	1	
14	GHF103	BOLT, rear cover to case	8	
15	GHF332	WASHER, locking	8	

The rear differential cover and rear mounting bracket (items 13 & 101) are no longer available. As an alternative we can supply the TR6 item, which replaces both. To fit this to a TR4A IRS you will need items 16 to 20.

16	149826	REAR COVER ASSEMBLY	1	TR6 replacement
17	147783	MOUNTING, rubber	2	
18	BH605111	BOLT, mounting to cover	4	
19	GHF301	WASHER, plain	4	
20	GHF223	NUT	4	
21	134480	GASKET, rear cover to case	1	
22	PC20	SPLIT PIN, differential breather	1	
23	118826	CORE PLUG, breather hole	1	

24	502127	CROWN WHEEL & PINION	1	(3.7:1) Standard
	516398	CROWN WHEEL & PINION	1	(3.45) Optional
	505014	CROWN WHEEL & PINION	1	(4.1:1) Optional

Crown wheel & pinion sets of varying ratios were offered by the Competition Department at Triumph as follows:

	505014	CROWN WHEEL & PINION	1	(4.1:1)
	502523	CROWN WHEEL & PINION	1	(4.3:1)
	503924	CROWN WHEEL & PINION	1	(4.55:1)
	515709	CROWN WHEEL & PINION	1	(4.875:1)

The lowest practical ratio for a road car is 4.1:1

3.45	109 mph
3.7	102 mph
4.1	92 mph

even with overdrive fitted.

At 5000 rpm (Std diameter tyre) the respective road speeds are approx.

4.3	87 mph
4.55	83 mph
4.875	77 mph

NI	156398SHIM	WASHER, adjusting (0.040")	a/r	
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The shims used to correctly position and pre-load the crown wheel and pinion and bearings did not change from TR2 to TR6 (including Stag, Sprint & Innsbruck saloons). The IRS axles require a single spacer, in addition, between the c/w pinion (item 24) and the pinion head bearing (item 25). It is argued that this spacer could be replaced with an equivalent number of shims between the pinion and head bearing as both achieve the same net result. Rebuilding of many hundreds of differentials has only ever revealed spacers 0.040" thick. No parts book listed this spacer, though a Triumph service release seems to indicate a range of thickness' (0.030" to 0.051") was available, part numbers 140643 to 140657. In the absence of full engineering drawings it can only be guessed that the internal machining of the differential casings between solid axle TR's and IRS versions is different. With the introduction of the 3.45 to 1 ratio in 1967 the pinion teeth would foul the casing in some circumstances due to the larger pinion diameter, but that doesn't explain the spacer's presence from 1965 in the TR4A differential which used 3.7 and 4.1:1 ratios. If the spacer is left in place and the contents of an IRS differential are fitted to a solid axle, the pinion face will usually foul the hub (or crown wheel carrier) as it rotates.

25	100897A	BEARING, rear pinion	1	
26	1009653	SHIM, (0.003")	a/r	rear pinion bearing
	1009665	SHIM, (0.005")	a/r	
	10096710	SHIM, (0.010")	a/r	
27	100846	SPACER, (solid), bearing	1	
28	DP514	DOWEL, rear cover locating	2	
29	100878	BOLT, differential bearing cap	4	
30	GHF333	WASHER, locking	4	
32	305815	DIFFERENTIAL HOUSING	1	
33	114774	PLUG, oil filler	1	
34	100422	BEARING, front pinion	1	
35	100562	SHIM, (0.003")	a/r	front pinion bearing
	100563	SHIM, (0.005")	a/r	
	100564	SHIM, (0.010")	a/r	

Ill. No	Part Number	Description	Qty. Req.	Details
36	140337	OIL SEAL, pinion shaft	1	
	140337x	OIL SEAL, improved rubber	1	
37	138105	PINION FLANGE	1	
38	142333	WASHER, flange	1	
39	112635	NUT, slotted	1	
40	GHF505	SPLIT PIN	1	
42	138563	NUT, inner axle shaft	2	
43	139043	WASHER, inner axle shaft	2	
44	138726	FLANGE, driving	2	
45	107960	BOLT, driving flange to yoke	8	
46	134441	AXLE SHAFT, inner, RH	1	
47	134440	AXLE SHAFT, inner, LH	1	
48	136842	KEY, inner axle shaft	2	
49	138523	OIL SEAL, inner axle shaft	2	
50	134465	BEARING, inner axle shaft	2	
51	128638	BEARING HOUSING, axle shaft	8	
52	GHF120	BOLT, bearing housing	8	
53	GHF332	WASHER, locking	2	
54	211137	FLANGE, yoke	8	
55	GHF223	NYLOC NUT	4	
56	GUJ116	UNIVERSAL JOINT	4	
57	144825	GREASE NIPPLE	4	
58	TKC853	OUTER AXLE SHAFT (Standard)	2	original

Note: TKC853 outer axle shaft assembly only consists of items 59 & 60. Items marked must be purchased separately.*

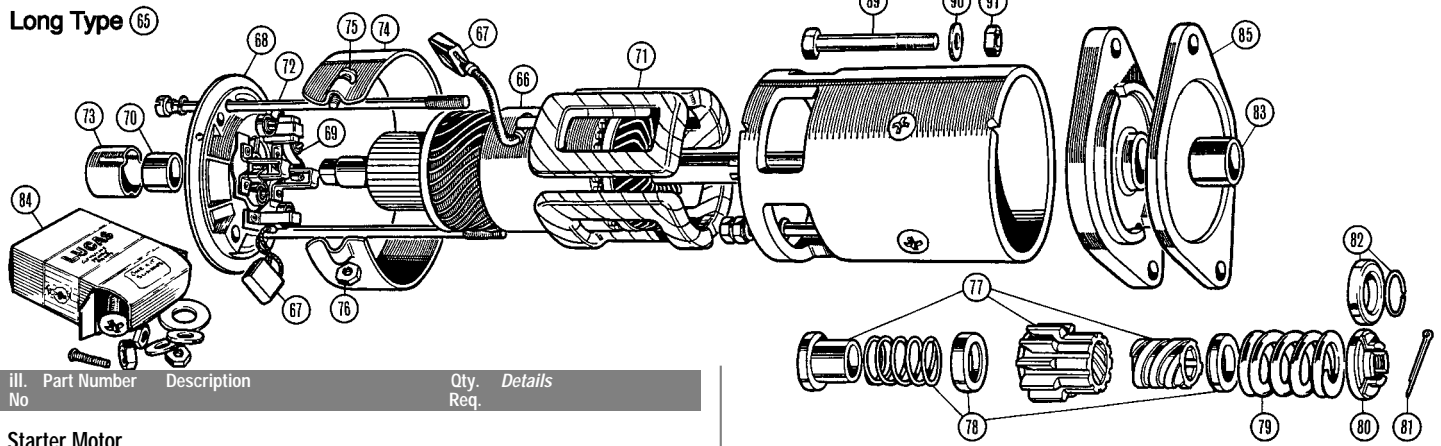
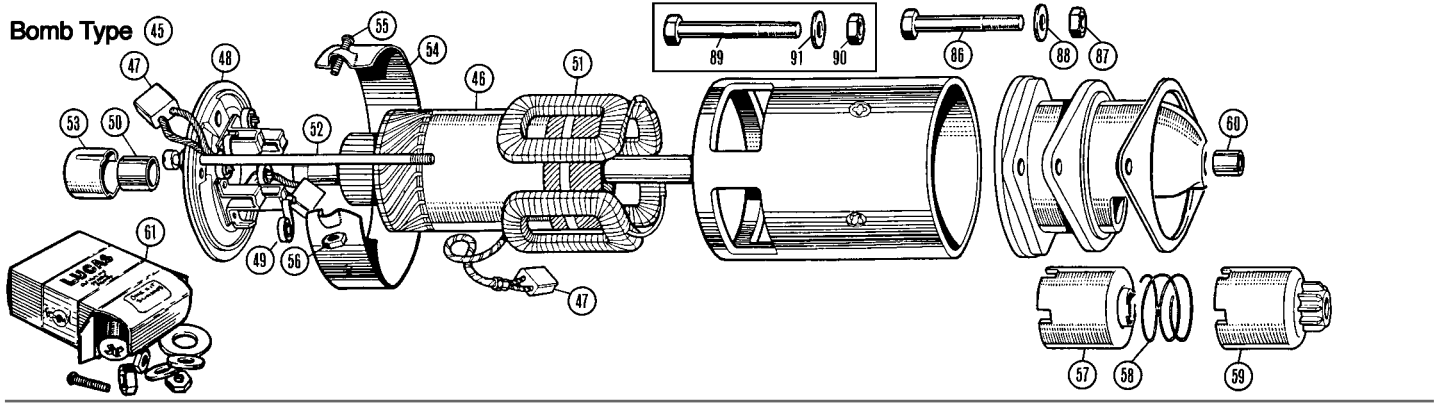
	TKC853ZX	OUTER AXLE SHAFT (Standard)	2	replacement
	TKC853Z	OUTER AXLE SHAFT (Standard)	2	replacement, less flange
	TKC853UR*	OUTER AXLE SHAFT (Uprated)	2	with flange & UU

**These are Brand New uprated/performance drive shafts that can handle up to 250bhp! Need we say any more.*

59	140749	SLIP JOINT ASSEMBLY	2	
60	142437	SLIDING SHAFT	2	
61	213844*	GAITER, rubber	2	
62	140753*	GAITER, rubber	2	
63	EAW4321*	CLIP	2	
NI	GHK1015	BEARING KIT	2	

Kit contains items marked †

64	402347R	HUB UNIT (outer)	2	rebuild unit
		<i>The rebuilt outer hub unit includes items 65 to 84.</i>		
65	UKC643	AXLE SHAFT (outer)	2	
66	134591	KEY, outer axle shaft	2	
67	134585	NUT, locking	2	
68	139057	TAB WASHER	2	
69	138861	NUT, adjusting	2	
71	137497	STONE GUARD	2	
72	ULC2188	SPACER, adjusting	2	
73	GHS131 †	OIL SEAL, inner	2	
74	GHB101 †	BEARING, inner	2	
75	138272 †	SPACER, inner	2	
77	137496	HOUSING, rear hub	12	
78	GHF222	NUT, nyloc	12	
79	GHF301	WASHER, plain	2	
81	GHB265 †	BEARING, outer	2	
82	GHS133 †	OIL SEAL, outer	2	
84	210979	DRIVE FLANGE, steel wheels	8	
	212403	DRIVE FLANGE, wire wheels	8	
85	132317	STUD, steel wheels	2	
	142799	STUD, wire wheels	2	
87	WM63	WASHER, outer axle shaft	2	
88	138563	NUT, outer axle shaft	1	
90	217602	ADAPTOR, wire wheel, RH	1	
	217603	ADAPTOR, wire wheel, LH	1	
91	110366	NUT, extension to hub	8	
93	211793	PLATE, front differential mount	1	
94	132856	BOLT, plate to differential housing	4	
95	WF600071	WASHER, locking	4	
97	134235	MOUNTING, rubber	2	(upper front)
	134235P	MOUNTING, poly	2	(upper front)
98	134236	MOUNTING, rubber	2	(lower front)
	134236P	MOUNTING, poly	2	(lower front)
99	134234	WASHER	4	
100	GHF223	NUT, nyloc	4	
101	212047	BRACKET, rear differential mount	1	
102	143712	STUD, bracket to differential housing	4	
103	GHF223	NUT, rear differential mount	4	
105	134235	MOUNTING, rubber (rear, upper/lower)	4	



Ill. No	Part Number	Description	Qty. Req.	Details
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Starter Motor

Two very different design starters were used on the 4-cylinder TR engine.
Type 'A' the shrouded bendix or 'bomb type' (so named because of its shape) was used on TR2/3 and TR3A to TS50000. This motor runs with a 91 tooth ring gear shrunk onto the flywheel.
Type 'B' the exposed bendix or 'long type' (so named because of long exposed bendix gear & shaft) was fitted on TR3A from TS50001, TR4 and TR4A. This motor runs with a 90 tooth ring gear bolted to the flywheel.
 If you get the wrong motor engaging with the wrong ring gear, it works for a short while and then shreds the teeth on the bendix or the ring gear, or more commonly, both.
 If you have a bomb type starter motor running with a bolted-on ring gear, buy a GEU4412R motor exchange against your old unit. If you have a long bendix motor with a shrunk-on ring gear, find an old unit flywheel with bolted-on ring gear, or somewhat more difficult, find a 'bomb type' starter motor.
 Remember that the 'long bendix' starter motor may not fit into your TR2/3/3A gearbox bell housing. If this problem is encountered, cut away the bell housing with a rotary file to clear the end of the bendix shaft.
 The 'bomb type' starter motor (201906R) is only available as 'customers own unit rebuilt'. This is a service we have offered for some years and is dependant on the 'repairability' of the old unit which you, the customer, send us. In recent years, the condition of old motors sent to us for repair has taken a serious dive. Broken casings, 'have-a-go' welded armature repairs, and so on, will invariably mean the need to find another unit for repair. Our advice to you is do not mess with your broken old unit as it could mean exceptional expense if you do further damage. Eventually old units that can be used as donors for damaged or missing parts will run dry - then the really high prices will start or your engine will not self start.

'Bomb' Type 'A' Starter (9 tooth)

45	201906R	STARTER MOTOR, own unit	1	TR2/3, TR3A to TS50000
46	501779	ARMATURE	1	
47	GSB103	BRUSH SET (pair)	2	
48	7H5498	END PLATE, commutator	1	(inc. 1 pair of brushes)
49	27H2291	SPRING, brush tension	3	
50	242958A	BUSH, commutator end plate	1	
51	7H5013	FIELD COIL ASSEMBLY	1	
52	7H5339	BOLT, assembly retaining	2	
53	059754	END CAP, commutator end plate	1	
54	057579	COVER BAND	1	
55	PT507	SCREW, cover band clamping	1	
56	HN2005	NUT, cover band clamping	1	
57	501217	COUPLING, sleeve & rubber drive	1	
58	058491	SPRING	1	
59	501030	BENDIX GEAR	1	
60	059762	BUSH, drive end	1	
61	070391	SUNDRY PARTS KIT	1	nuts, washers, etc.

'Long' Type 'B' Starter

65	GEU4412R	STARTER MOTOR	1	TR3A from TS50001, TR4/4A
66	057580*	ARMATURE	1	M418G motor
67	GSB103	BRUSH SET, original	2	
	GSB108	BRUSH SET, replacement	2	2M100 motor

Ill. No	Part Number	Description	Qty. Req.	Details
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68	7H5498	END PLATE, commutator end	1	M418
69	27H2291	SPRING, brush tension	4	
70	242958A	BUSH, commutator	1	
71	7H5013	FIELD COILS	1	
72	7H5339	BOLT, assembly retaining	2	
73	059754	END CAP, commutator end plate	1	
74	057579	COVER BAND	1	
75	PT507	SCREW, cover band clamping	1	
76	HN2005	NUT, cover band clamping	1	
77	503529	PINION ASSEMBLY	1	
78	070062	SPRING KIT	1	
79	7H5007	MAIN SPRING	1	
80	503527	NUT, bendix spring retaining	a/r	alternative
81	PC10	SPLIT PIN, locking nut	a/r	
82	LUTLB192	SPRING RING & CUP	a/r	alternative
*Note: Use LUTLB192 with armature 057580				
83	244714A	BUSH, drive end	1	
84	070391	SUNDRY PARTS KIT	1	nuts, screws, washers, etc
85	102104	SHIM, starter motor adjustment	a/r	

Starter Mounting Details

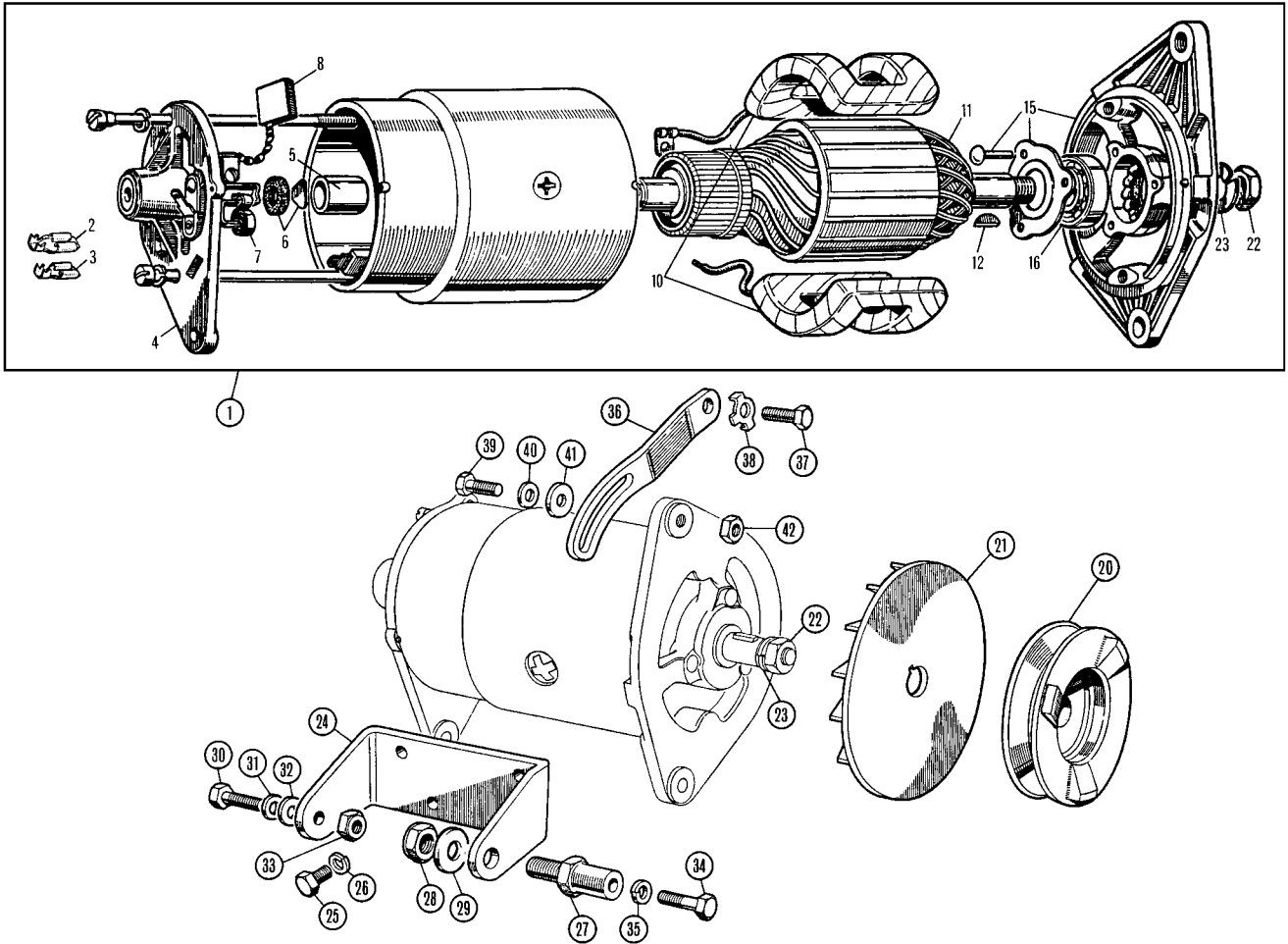
86	BH606161	BOLT	2	for gearboxes with a 11mm thick flange
87	GHF202	WASHER, plain	2	
88	GHF333	WASHER, spring	2	
89	BH606191	BOLT	2	for gearboxes with a 14mm thickness flange
90	GHF202	WASHER, plain	2	
91	GHF333	WASHER, spring	2	

Pre-Engaged (Geared) 'High Torque' Starter Motors

These brand new (non-exchange) powerful starter motors are High Torque, meaning they will not suffer the same fate as the original 'Inertia' type, especially on high compression engines and, they are a direct replacement. No more costly motor rebuilds or excessive battery drain.

NI	201906X	STARTER MOTOR, replacement	1	TR2-TR3A (to TS50000)+
NI	201906XSP**	STARTER MOTOR, replacement (+ Shrink on flywheel)	1	
NI	GEU4412X	STARTER MOTOR, replacement	1	TR3A (from TS50001)+
NI	GEU4412X	STARTER MOTOR, replacement (++ Bolt on flywheel)	1	TR4 & 4A ++

**This high performance starter motor is aimed specifically at TR2/3's fitted with the 'shrink-on' type ring gear/and or fitted with High Compression engines (9.5:1 - 12.5:1). To fit this starter motor (201906XSP), you will need to fit a new Ring Gear (201350). No other modification is required.



Ill. No	Part Number	Description	Qty. Req.	Details
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Dynamo

See page 154 for our Alternator Conversion kits

Original fitment dynamos are identified as follows:

200657	Stamped with Lucas 22258D (post & nut terminals with cover band over brush gear)	} TR2, TR3 to TS9842
203252	Stamped with Lucas 22258E/F (as above but with solid case)	
205939	Stamped with Lucas 22700/22704 (as above but with Lucar terminal)	} TR3A from TS60000
211941	Stamped with Lucas 22715 (as above)	
		} TR4A

That is the history, now for the reality....

1	GXE3101	DYNAMO, exchange	1	rebuilt unit, Lucar terminals
To fit this to a car originally fitted with ring terminals you will require one of each of the Lucar connectors listed below (Items 2 & 3)				
	GEU3101	DYNAMO, new	1	
2	RTC220A	Lucar connector, (1/4")	1	
3	47H5419	Lucar connector, (3/8")	1	
Remember, on installing a replacement dynamo, it must be polarised. See our technical tip on this page.				
4		BRACKET, commutator end	1	22258 only
	47H5395	BRACKET, commutator end	1	all others
5		BUSH, in end bracket		
6	47H5394	'OILER PAD', felt pad	1	
7	RTC466A	SPRING, for bushes	2	
8	GGB105	BRUSH SET	1	22258 only
	GGB102	BRUSH SET	1	all others
10		FIELD COIL SET	1	22258 only
11	509311A	ARMATURE	1	
12	WKN404	WOODRUFF KEY, for pulley	1	
15		BRACKET, drive end	1	22258 only
	27H7647	BRACKET, drive end	1	all others
16	529221A	BEARING	1	
20	102266	PULLEY (standard)	1	uses original (wide) fan belt
	12G1054	*PULLEY (Lightweight Alloy)	1	uses Narrow fan belt GCB10975
*See page 94 for full details of Narrow Belt conversion.				

Ill. No	Part Number	Description	Qty. Req.	Details
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21	147333	FAN	1	
22	NT607041	NUT	1	
23	GHF334	WASHER, locking	1	

Dynamo Mounting Details

24	058912	BRACKET, mounting	1	
25	SH505061	SCREW, bracket	3	
26	GHF332	WASHER, locking	3	
27	059015	PEDESTAL	1	
28	GHF275	NUT, nyloc	1	
29	GHF304	WASHER, plain	1	
30	BH605101	BOLT, dynamo to bracket	1	
31	GHF301	WASHER, plain	a/r	
32	WP125	WASHER, plain	a/r	
33	GHF272	NUT, nyloc	1	
34	51K1774	BOLT, dynamo to pedestal	1	
35	GHF332	WASHER, locking	1	
36	058914	ADJUSTING LINK	1	
37	GHF163	SCREW, link to w/pump housing	1	
38	106706	LOCK TAB	1	
39	SH505091	SCREW, link to dynamo	1	
40	WP19	WASHER, plain	1	
41	WP17	WASHER, plain	1	
42	JN2158	NUT, locking link to dynamo	1	

Dynamo Polarisation

Any replacement dynamo must be polarised to suit the vehicle's electrical system, and therefore the following procedures must be adopted.

- 1) Fit the dynamo to the vehicle, but do not at this stage connect any leads to the terminals.
- 2) Determine which terminal of the battery is 'live' (i.e. not earthed to the vehicle), and connect a length of wire to that terminal. If it is inconvenient to connect the wire directly to the battery, it may instead be connected to the 'battery side' terminal of the starter solenoid.
- 3) Taking the free end of the wire, hold it against the field terminal (the small one) of the dynamo for three to five seconds, after which the dynamo is correctly polarised.
- 4) Remove the temporary connector wire and then restore the original leads to the terminals of the dynamo.

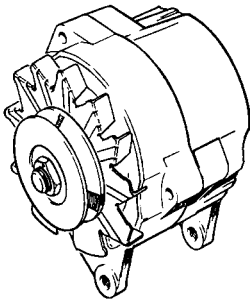
Ill. No	Part Number	Description	Qty.	Details Req.
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Alternator Conversion (TR2-4A)

There is no simple kit that can be offered to convert the cars still struggling on with a dynamo to an alternator system. Over the years many TR2-4As have acquired narrow belt conversions, while there will be many who are determined to retain the wide belt, even though its many negative points are well known.

The conversion components are also listed individually for replacement spares servicing in the future, and to assist those who may wish to source some of their own components and obtain a bespoke system.

NI	TTK3020	FITTING KIT (Alternator) (All models)	1	
<i>Our Fitting Kit includes the following parts:</i>				
NI	147472	SPACER	1	
NI	142134	LINK, (Adjustment)	1	
NI	BH605221	BOLT (through spacer)	1	
NI	GHF301	WASHER, plain	4	
NI	GHF272	NUT (Nyloc)	1	
NI	GHF163	SCREW, link to water pump housing	1	
NI	GHF332	WASHER, locking	2	
NI	51K1774	BOLT, alternator to pedestal	1	
NI	SH605081	SCREW, belt adjustment	1	
NI	GHF201	NUT (on screw)	1	



Now Choose Your Alternator & Loom

NI	GEU2211M	Alternator (16 acr, 36 amp)	1	Suitable for all TR2-4A
NI	GEU2206M	Alternator (18 acr, 45amp)	1	High output e.g. rally use
NI	AAU3956A	FAN (All models)	1	

(Not recommended for race applications)

NI	TTK3020LA	LOOM	a/r	TR2-4 (to CT14913)
NI	TTK3020LB	LOOM	a/r	TR4 (from CT14913 & TR4A)

Associated Parts

This section ensures the kit will match up to your TR and that the mating parts are in satisfactory condition, preventing premature failure (due to the alternator rattling loose, for instance, which would invalidate the warranty).

NI	059015	PEDESTAL, (All models)	1	
NI	GHF304	WASHER, plain to pedestal	1	
NI	058912	BRACKET, to block	1	
NI	SH505061	SCREW, bracket to block	3	
NI	GHF332	WASHER, locking (under screw)	3	

Narrow Belt Conversion

There will be many who will wish to seize the opportunity to fit a 'narrow belt' conversion at this time, and ensure the life of that precious crankshaft with the harmonic damper included in this kit.

Every modern car is fitted with a damper, so this must be key to engine harmonic stress elimination within older engines.

This kit includes Harmonic Damper (crank), Spacer, Bolt, washer, (alternator) Pulley (water pump) Pulley (Alloy) & Fan Belt.

NI	TT1132	NARROW BELT CONVERSION	1	Damped Pulley
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The damped pulley conversion (TT1132) requires the use of an electric fan and removal of the fan & fan hub extension - which is obviously the best way to go.

For those who are determined to retain the original (rather agricultural) fan arrangement, we can supply the correct crankshaft pulley (107252A) which does allow this if used in conjunction with the water pump pulley (105537A) and the alternator pulley required for your application.

NI	107252A	CRANKSHAFT PULLEY (Alloy)	1	
NI	105537A	WATER PUMP PULLEY (Alloy)	1	

Lastly (unless you are retaining your old wide belt pulley), you now need to choose the pulley to enable a perfect match of alternator performance to your TR's use. Only one of the 4 listed is essential, though you might wish to select more, for instance if the car is used for occasional competition use.

All these are for narrow belts. If you are retaining the wide belt, ignore this list. As the wide belt stretches, it may be necessary to re-install the 'old' adjustment link to obtain sufficient adjustment.

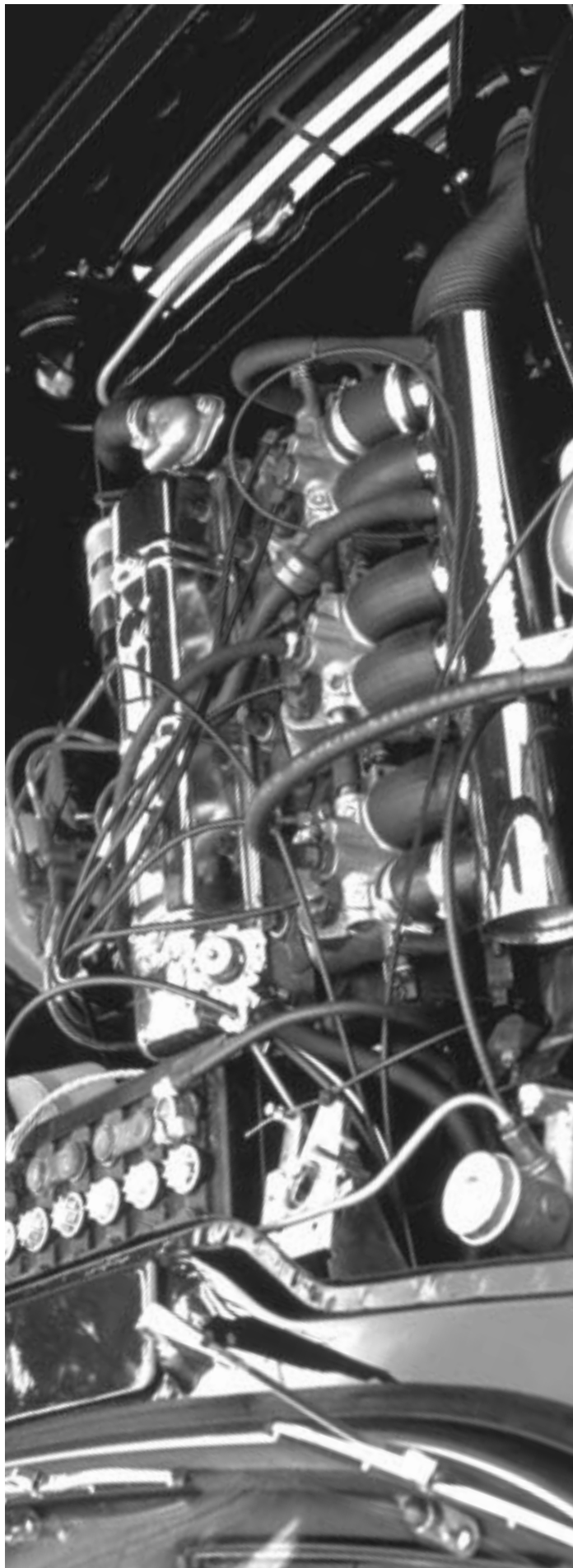
NI	AEU1238	PULLEY (2.5" diameter)		
<i>(For normal road work. Use with fan belt GCB10965)</i>				
NI	12G1054	PULLEY (2.75" diameter)		
<i>(For fast road work. Use with fan belt GCB10975)</i>				
NI	CAEA535	PULLEY (4.5" alloy)		
<i>(For competition use only. Use with fan belt GCB11000)</i>				
NI	102266A	PULLEY (4.5" alloy)		
<i>(Reverse flow. Competition use only without fan. Use with fan belt GCB11000)</i>				

Note: If TT1132 is to be fitted, this kit includes the correct pulley and fan belt, and this arrangement works well for just about any type of use.

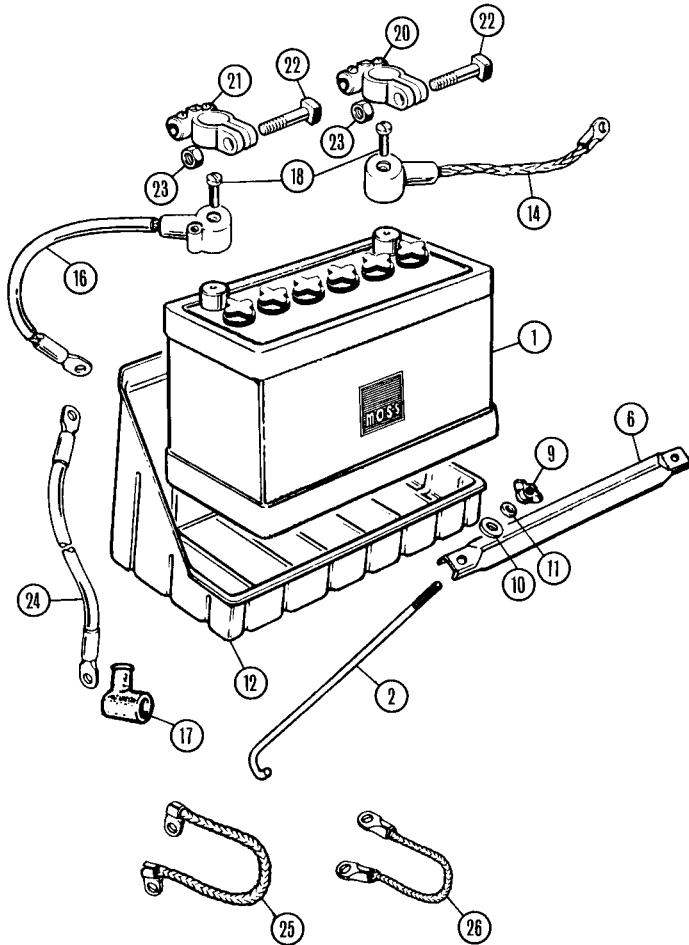
Fitting instructions are included covering all vehicles currently fitted with an original starter motor & solenoid.

Pre-engaged & Geared starters may require a different arrangement as the solenoid may have been removed. All TRs fitted with an alternator **Must** be converted to negative earth.

The coil leads will also need swapping over. This may affect some car radios.



iii. Part Number Description Qty. Details
No Req.



iii. Part Number Description Qty. Details
No Req.

Battery & Fittings

See also Accessories

1	GBY241D	BATTERY 'Classic' rubber cased, dry	1	Positive earth
	MM459-400	BATTERY 'Classic' rubber cased, dry	1	Negative earth
	GBY241X	BATTERY 'Classic' rubber cased, wet	1	Positive earth
	GBY242X	BATTERY 'Classic' rubber cased, wet	1	Negative earth

Classic batteries measure 12" long, 8" high & 6 3/4" wide (use with 8 1/4" long 'J' bolts, part no. 610798).

NI MXV1129X BATTERY, Non Leak 1

Non Leak batteries measure 8" long, 6 3/4" high & 5 1/2" wide

This battery is suitable for all 12 volt applications. Because this sealed battery will not leak acid - even when split, it really is a must for all road users, especially when the car is used at speed or for competition. Its unique safe design also means that it can be shipped by mail-order.

NI CRST191 DECAL, 'Lucas' 1

A different size battery may have been fitted to your car compared to that originally specified.

When the physical size of the battery is changed you may need to change the 'J' bolts. Here we list the applications as original, the correct length required should be established and ordered accordingly.

NI	601898K	BATTERY HOLD-DOWN KIT	1	with 8 1/4" 'J' bolts
	601898K2	BATTERY HOLD-DOWN KIT	1	with 7" 'J' bolts
	601898K3	BATTERY HOLD-DOWN KIT	1	with 5 3/4" 'J' bolts

2	601552	'J' BOLT, battery hold	2	4" long
	613051	'J' BOLT, battery hold	2	5.75" long
	618434	'J' BOLT, battery hold	2	7" long
	610798	'J' BOLT, battery hold	2	8.25" long

6	601898	BAR, battery hold	1	13" hole centres
	157910	BAR, battery	1	12" hole centres
	157740	BAR, battery (heavy duty)	1	12.75" hole centres

9	132068	WING NUT, (bolt)	2	
10	WM57	WASHER, plain	2	
11	GHF331	WASHER, locking	2	

12	AM7300	BOX LINER, battery, hard plastic	1	TR2/3/3A
	AM7301	BOX LINER, battery	1	TR4/4A

NI	602945	PAD (Battery shelf) (all models)	4	use 2 stacks of 2
NI	GAC2029X	MAT (Battery)	1	accessory

Made from special acid absorbent material which neutralises acids as they leak from your battery. It can be easily cut with scissors to match the shape of any battery.

14	131113	CABLE, battery to earth	1	TR2/3/3A, TR4 positive earth
	142590	CABLE, battery to earth	1	

				negative earth
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16	131115	CABLE, battery to solenoid	1	TR2/3/3A, TR4 positive earth
	142591	CABLE, battery to solenoid	1	

				negative earth
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17	8G548	RUBBER CAP, solenoid & starter	3	
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18	2K8645	SCREW, cap type terminals	a/r	
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20	GHF2750	CLAMP, negative battery cable	a/r	
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21	GHF2755	CLAMP, positive battery cable	a/r	
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22	518903	BOLT, for clamp type terminals	a/r	
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23	GHF208	NUT, for clamp type terminals	a/r	
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24	131114	CABLE ASSEMBLY	1	solenoid to starter
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25	131116	CABLE ASSEMBLY	1	engine to chassis earth
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26	130581	EARTH CABLE	2	TR4/4AA
		(steering column couplings)		

	134301	EARTH CABLE	1	(steering rack to chassis)
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Quick Bolt Set

The fast and easy way to connect your battery cables. Quick Bolts use a clever 'camming' system to clamp down on battery posts. Simply replace the bolts in your cable ends with Quick Bolts and you can connect or remove the cables without tools.

NI	900-015	QUICK BOLT SET, pair	1pr	
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Beware the Engine Earthing Strap

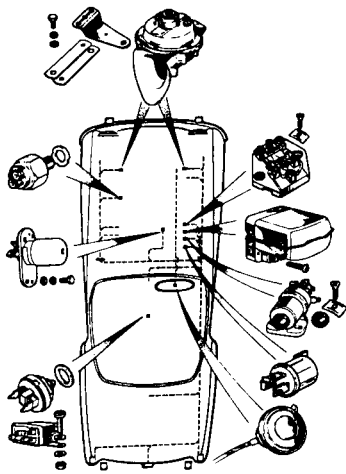
To enable any flow of electricity to occur, a complete loop must be maintained from one connection of the battery to the other. To enable a greater flow of electricity, a more substantial link is required between connections. Starting the engine (especially in cold conditions), requires a massive surge of battery power - up to 200 amperes of current, which flows from the battery terminal to the starter motor - and then to the other terminal any way it can.

To make this flow easier, an electrical 'motorway' is provided in the form of the engine earth strap, allowing current to flow from the engine to the body shell and back to the battery with ease. A frayed, damaged or badly corroded earth connecting strap causes the electrical equivalent of a traffic jam, then the current just looks for some other way of returning to battery.

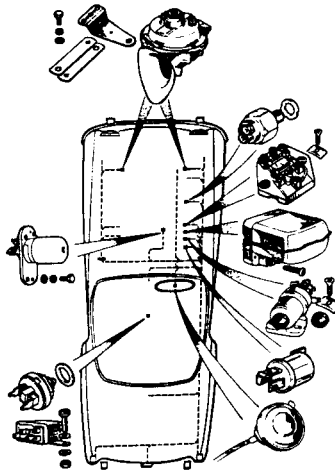
The choke cable seems especially popular, its wire wound casing turning rapidly to a heater element, providing extra assistance in cold weather!

If normal heating is insufficient, now is a good time to check the engine earth strap.

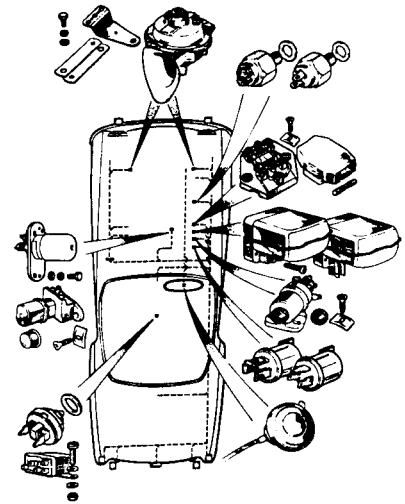
TR2/3 to TS13045



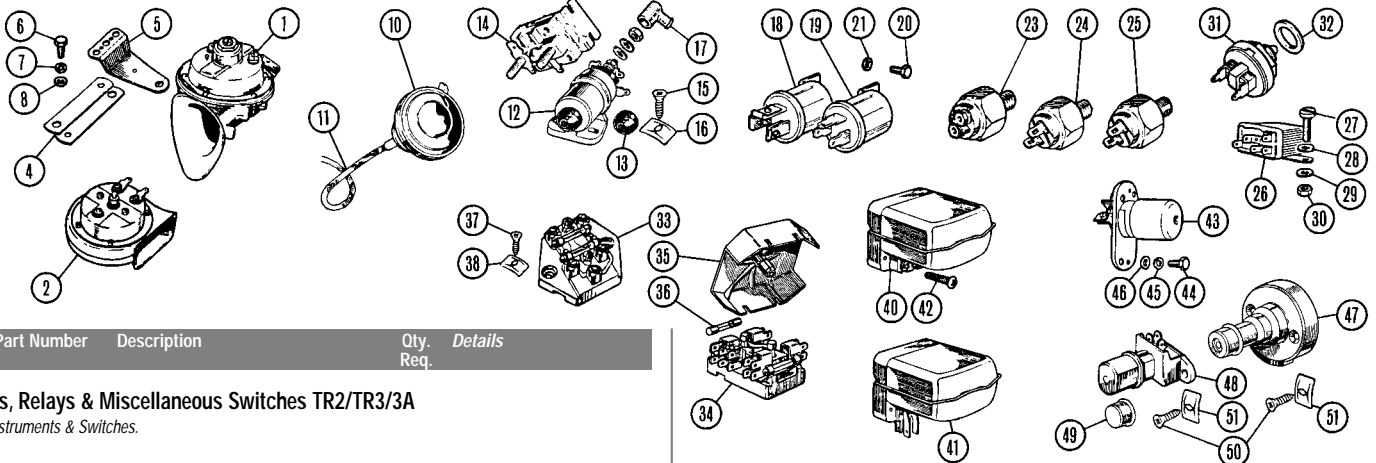
TR3 from TS13046 to TS18912



TR3 from TS18913, TR3A



RH Drive only illustrated



Ill. No	Part Number	Description	Qty. Req.	Details
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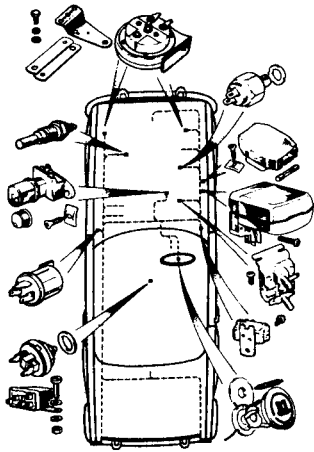
Horns, Relays & Miscellaneous Switches TR2/TR3/3A

See Instruments & Switches.

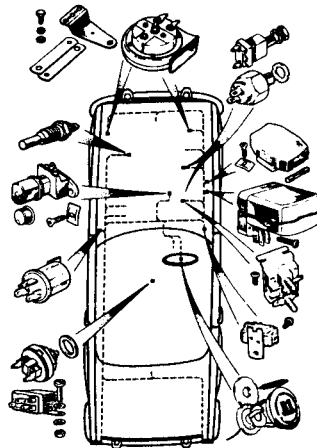
1	1B9007	HORN, low note', RH side	1	marked 'L'	
	1B9008	HORN, high note, LH side	1	marked 'H'	
<i>These horns do not include the domed covers as fitted originally. The original domed cover can be glued on to these horns, but remember to install the wires first.</i>					
2	GGE104	HORN, low note	1	marked 'L'	
	GGE103	HORN, high note	1	marked 'H'	
4	GGE109	BRACKETS, horn, (pair)	2	alternatives	
5	GGE113	BRACKET, horn	2		
<i>These horns are plastic replacements for the original metal Lucas horns and require mounting brackets (items 4 or 5)</i>					
6	GHF101	SCREW, horn	4	both type horns	
7	GHF331	WASHER, locking	4		
8	WM93	WASHER, plain	4		
10	201872	HORN PUSH (Control head)	a/r	fixed steering wheel	
	201872ADJ	CONTROL HEAD (Control head)	a/r	adjustable steering wheel	
<i>The horn push control head assemblies do not include stator tube.</i>					
11	502355	HARNESS, in column	1	solenoid & starter	
12	BCA4501	SOLENOID, round type	1		
NI	AJD8205Z	NUT (cable)	1		
13	27H5576	RUBBER CAP, push button	1		
14	BMK1727	SOLENOID, square type	1		
15	AB610063	SCREW, solenoid	2		
16	FC2805	CLIP NUT, solenoid	2		
17	8G548	CAP, rubber terminal	3		
18	GFU2101	FLASHER UNIT, screwed	1		
19	GFU2103	FLASHER UNIT, Lucar	1		
20	HU706P	SCREW, flasher unit	1	TR2/3 with Lockheed brakes	
21	WM57	WASHER, plain	1		
23	13H2303	SWITCH, brake lamp screw type connections	1		
24	C16062A	SWITCH, brake lamp Lucar type connections	1		
<i>Switches 13H2303 & C16062A are BSP threaded.</i>					
25	21B291	SWITCH, brake lamp, Lucar type connections	1		TR3/3A, TR4 with Girling brakes
<i>Switch 21B291 is 3/8"x24 UNF threaded. No screwed terminal type is currently available.</i>					

Ill. No	Part Number	Description	Qty. Req.	Details	
26	142169A	RELAY, overdrive, (Lucar)	1	if overdrive fitted	
27	PT505	SET SCREW, relay attachment	2		
28	PWZ203	WASHER, plain	2		
29	WL700101	WASHER, locking	2		
30	HN2005	NUT, plain	2		
31	BAU1074A	SWITCH, overdrive isolator, Lucar type connections	1/2		
32	502146	WASHER, switch adjusting/sealing	a/r		
33	1G2613	FUSE BOX, screw type	1		TR2/3, TR3A to TS60000
34	606253A	FUSE BOX, Lucar type	1		TR3A
35	505158A	LID, for fuse box	1		from TS60001
36	GFS35X	FUSE, 35 amp	2/4	17 amp continuous	
	GFS50X	FUSE, 50 amp	2	25 amp continuous	
<i>TR2/3/3A were fitted with one 35amp and one 50amp fuse. The fuse box has the facility to carry two spare fuses, which is why the double quantities are shown, two fitted plus two spare.</i>					
37	AB610063	SCREW, fuse box	2	TR2/3, TR3A to TS60000	
38	FC2805	CLIP NUT, fuse box	2		
40	3H1835	CONTROL BOX, dynamo screw type connections	1		
41	GEU6603	CONTROL BOX, dynamo Lucar type connections	1		TR3A from TS60001
42	YJ2552	SCREW, control box	2		
43	11G2007	DIP SWITCH, headlamp screw type connections	1		TR2/3, TR3A to TS60000
44	TR6504	SCREW, dip switch	2		
45	WL700101	WASHER, locking	2		
46	WC702101	WASHER, plain	2		
47	502087A	DIP SWITCH, headlamp	1		
48	RTC432A	DIP SWITCH, headlamp (alternative)	1	TR3A from TS60001	
49	RTC432CAP	RUBBER CAP, for RTC432	1		
50	AD610073	SCREW, dip switch attachment	2		
51	GHF702	CLIP NUT	2		

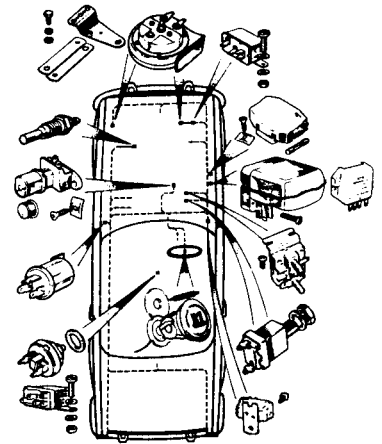
TR4 to CT14913



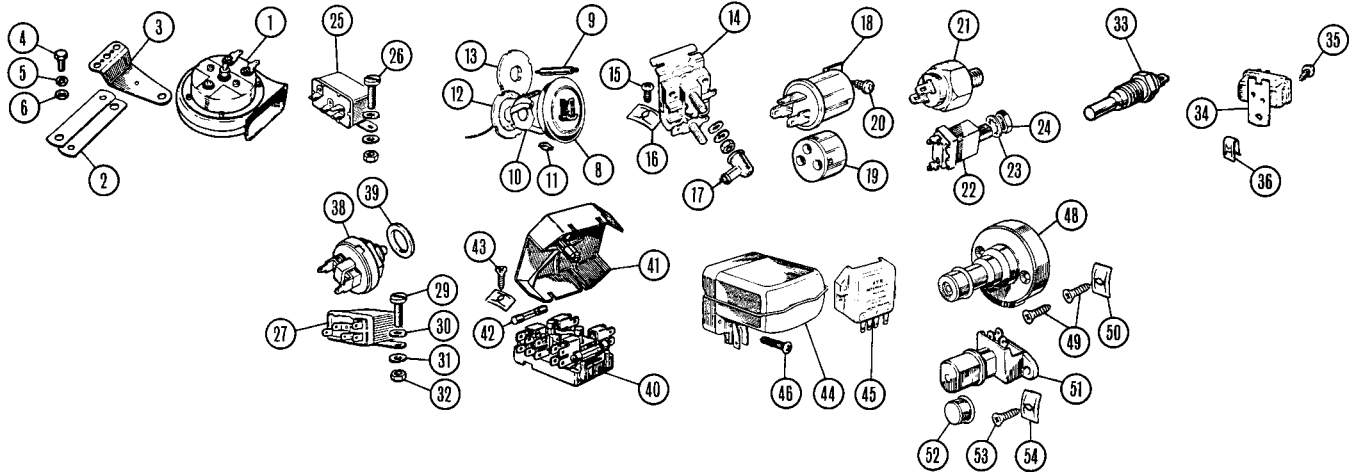
TR4 from CT14914



TR4A

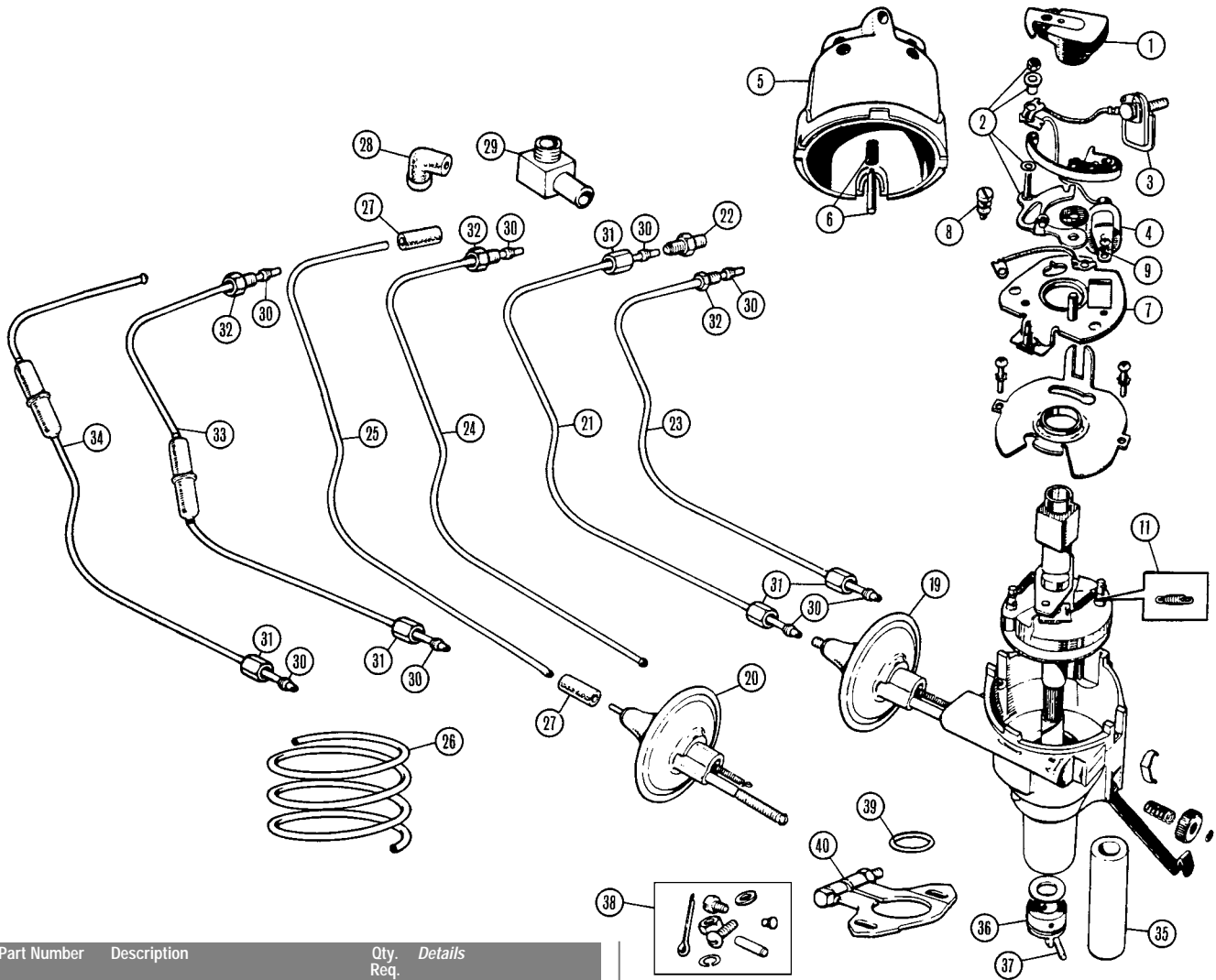


RH Drive only illustrated



Ill. No	Part Number	Description	Qty. Req.	Details
Horns, Relays & Miscellaneous Switches TR4 & TR4A				
<i>See Instruments & Switches.</i>				
1	GGE104	HORN, low note	1	marked 'L'
	GGE103	HORN, high note	1	marked 'H'
<i>These horns are plastic replacements for the original metal Lucas horns and require mounting brackets (items 4 or 5)</i>				
	GGE164K	HORN KIT, replacement Inc. 2 horns, brackets & fixings.	1	high/low
2	GGE109	BRACKETS, horn	1pr	} alternatives
3	GGE113	BRACKET, horn	2	
4	GHF101	SCREW, horn attaching	4	
5	GHF331	WASHER, locking	4	
6	WM93	WASHER, plain	4	
<i>These horns are plastic replacements for the original metal Lucas horns and require mounting brackets (items 4 or 5)</i>				
8	150277	HORN PUSH	1	
9	142534	BRUSH CONTACT, horn push	1	(2.6" long)
	142534X	BRUSH CONTACT, horn push	1	(3.4" long)
<i>The longer horn brush contact may be needed if a non-original steering wheel is fitted</i>				
10	204741	CLIP, horn push retaining	1	
11	613766	CLIP, horn push retaining	1	alternative
12	608462	SLIP RING & INSULATOR	1	
13	608139	INSULATOR ONLY	1	
14	BMK1727	SOLENOID, square type	1	
15	AB610063	SCREW, solenoid	2	
16	FC2805	CLIP NUT, solenoid	2	
17	8G548	RUBBER CAP	3	solenoid & starter
18	GFU2103	FLASHER UNIT, Lucar	1	
19	600226A	ADAPTOR, flasher unit	1	
20	AB606082	SCREW, flasher unit	1	
21	21B291	SWITCH, brake lamp	1	hydraulic, 1961 to 1963

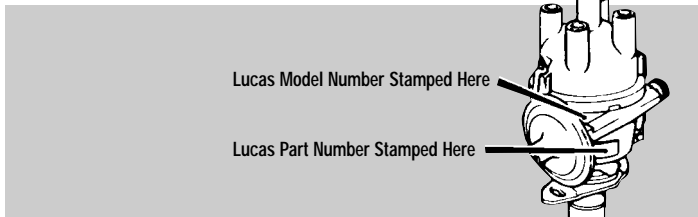
Ill. No	Part Number	Description	Qty. Req.	Details
22	134529	SWITCH, brake lamp	1	mechanical, 1964 to '67
23	WF600081	WASHER, locking	1	
24	NT608041	NUT	1	
25	1377471	RELAY, horn	1	} TR4A
26	GHF425	SCREW, relay attachment	2	
27	142169A	RELAY, overdrive, Lucar type	1	} if overdrive fitted
29	PT505	SET SCREW	2	
30	PWZ203	WASHER, plain	2	
31	WL700101	WASHER, locking	2	
32	HN2005	NUT, plain	2	
33	GTR104	TEMPERATURE SENDER	1	
34	128484	VOLTAGE STABILISER	1	
35	GHF423	SCREW, stabiliser	1	
36	GHF712	SPIRE CLIP	1	
38	BAU1074A	SWITCH, overdrive inhibitor	2	} if overdrive fitted
	BAU1074A	SWITCH, reverse lamp inhibitor	1	
39	502146	WASHER, switch adjusting/sealing	a/r	
40	606253A	FUSE BOX, Lucar connectors	1	
41	505158A	LID, for fuse box	1	
42	GFS35X	FUSE, 35 amp,	a/r	17 amp continuous
43	AB610063	SCREW, fuse box	2	
44	GEU6603	CONTROL BOX	1	cars with Dynamo
45	GEU6609	CONTROL BOX	1	cars with Alternator
46	PX510	SCREW, control box	2	
48	502087A	DIP SWITCH, headlamp	1	early TR4
49	VX8509	SCREW, dip switch	2	early TR4 RHD
	TR6504	SCREW, dip switch	2	early TR4 LHD
50	GHF702	SPIRE CLIP	2	
51	RTC432A	DIP SWITCH, headlamp	1	
52	RTC432CAP	RUBBER CAP, 'non slip'	1	Late TR4, TR4A
53	AD610073	SCREW, dip switch	2	
54	GHF702	SPIRE CLIP	2	



iii. No	Part Number	Description	Qty. Req.	Details
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Identifying Your Distributor

Triumph used a number of different calibration distributors to meet the alternative engine specifications throughout the production range. The diagram below shows how to identify the Lucas distributor type and specification you have fitted. What is found to be fitted should be compared with the table showing what should be fitted and to what engine specification. All those shown can be exchanged against your repairable similar model distributor.



Moss No	Lucas No	Model No	Fits	For
LU40403R	40403	DM2P4	TR2	83mm engine
LU40480R	40480	DM2P4	TR3/3A	83mm engine
LU40698R	40698	DM2P4	TR3A	83mm engine
LU40735R	40735	DM2P4	TR3A/TR4	86mm engine
LU40783R	40783	25D4	TR2/3/3A, TR4	83mm (replacement)
LU40795R	40795	25D4	TR4/TR4A	86mm engine
LU40842R	40842	25D4	TR4A	Low comp' engine
LU40850R	40850	25D4	TR4/TR4A	83mm engine

If you have not got, or cannot supply us with a repairable DM2P4 distributor, we suggest that you choose either:-
 LU40783R 25D4 type distributor for 83mm engines
 LU40795R 25D4 type distributor for 86mm engines
 Both with push-on vacuum fitting.

All distributors are matched for original profile camshafts & carburettors. If you have something non-standard, don't moan when it doesn't work!! (See also Performance & Tuning section for uprated distributors)

iii. No	Part Number	Description	Qty. Req.	Details
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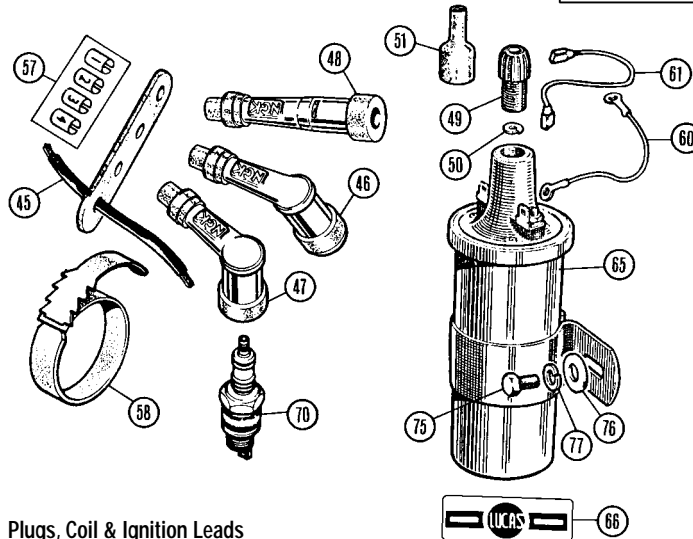
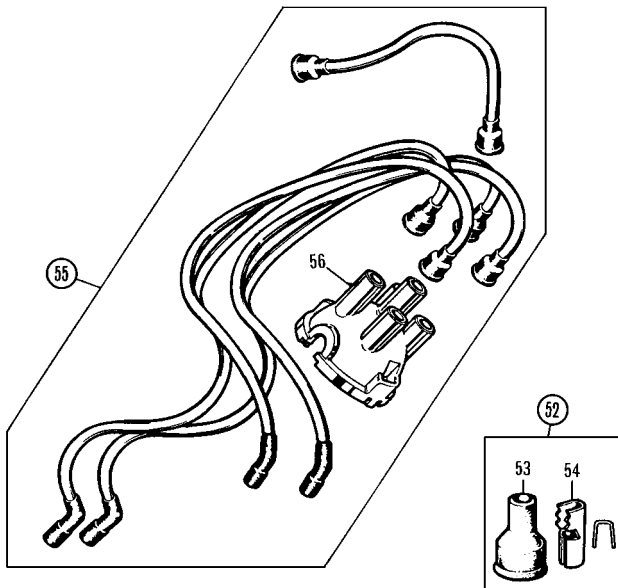
Distributor Service Parts

NI	201623ALI	PEDESTAL, distributor	1	Aluminium
1	GRA101	ROTOR ARM	1	
2	501466	POINTS, contact breakers	1	TR2 only (40403)
	GCS101	POINTS, contact breakers	1	TR3/3A, TR4/4A
	GCS111	POINTS, contact breakers	1	TR3/3A, TR4/4A
		(competition 32oz spring)		
3	502283	LT LEAD AND BUSH	1	DM2P4 types
		(screwed post terminal)		
	57H5346	LT LEAD & BUSH, Lucar terminal	1	DM2P4 types
	600329A	LT LEAD & BUSH, Lucar terminal	1	25D4 types
	37H2981	LT LEAD & BUSH, Lucar terminal	1	alternative
4	GCS111	CONDENSER & LEAD	1	
5	GDC114	DISTRIBUTOR CAP	1	
6	262703A	CARBON BRUSH & SPRING	1	
7	17H5469	BASE PLATE	1	TR3/3A, TR4/4A (not 40403)
8	GCS1001S	SCREW, for points	1	
9	GSC1001S	SCREW, for condenser	1	
11	TT1903	SPRING PACK, advance/retard	1	(5 pieces)
19	502346	VACUUM UNIT	1	DM2P4, 40403
	503697	VACUUM UNIT	1	DM2P4, 40480
20	510890	VACUUM UNIT	1	25D4, 40735, 40795
	517251	VACUUM UNIT	1	25D4, 40698, 40783, 40842, 40850
21	201875	VACUUM PIPE, two female fittings	1	H4 carburettors
22	AUC4490	ADAPTOR, vacuum line to carburettor	1	
23	509167	VACUUM PIPE, (1 female, 1 male)	1	H6 carburettors
24	305997	VACUUM PIPE, (1 male, 1 slip-on)	1	

Ill. No	Part Number	Description	Qty. Req.	Details
25	307724	VACUUM PIPE, (2 slip-on fittings)	1	Zenith Stromberg & HS6 carburettors
26	37H4229M	VACUUM PIPE, nylon,	1	(per metre) alternative
27	12B2095	CONNECTOR, rubber, straight	a/r	Zenith Stromberg carb's
28	128262	CONNECTOR, rubber, right angled	1	HS6 carburettor's
29	512328	CONNECTOR, nylon, right angled	1	Zenith Stromberg carb's
30	6K649	COMPRESSION OLIVE	a/r	
31	6K650	FEMALE FITTING, distributor end	a/r	
32	2A459	MALE FITTING, carburettor end	a/r	

At the time of writing we have an intermittent supply of rigid vacuum pipes. To this end, and, during the famine, use the MG (!) items, either 1H919 (H4 & H6 carb's) or 12H733 (HS6 & Zenith Stromberg carb's). Neither of these items are correct as they have a vapour trap in the pipe, but are better than nothing.

33	1H919	VACUUM PIPE (with one female one male fitting)	1	H4 & H6 carburettor's
34	12H733	VACUUM PIPE, (with one female one slip-on fitting)	1	HS6 & Zenith Stromberg carburettor's
35	606895	BUSH, supporting shaft	1	
36	513679A	DRIVING DOG	1	
37	057992	PIN, driving dog retaining	1	
38	245015	SUNDRIES KIT (nuts, washers, seals)	1	
39	513682A	SEAL, distributor shank to engine	1	(if fitted)
40	3H2138	CLAMP PLATE	1	



Plugs, Coil & Ignition Leads

See also Accessories

45	AAA5981M	HT LEAD, copper (PVC bound)	a/r	black with stripe
	TT2982M*	HT CABLE, copper (PVC bound)	a/r	yellow/black

*Lucas (period) competition HT cable

Ignition leads are sold by the metre length. You will need 2 metres to renew your 4 cylinder TR engine HT leads.

46	NYB5	SUPPRESSOR CAP, 60° angled	a/r	
47	NLB5	SUPPRESSOR CAP, 90° angled	a/r	
48	NSB5	SUPPRESSOR CAP, straight	a/r	

Ill. No	Part Number	Description	Qty. Req.	Details
49	105036	ACORN NUT, coil, (if fitted)	1	use for screw-in
50	214279A	SPLIT WASHER, coil, (if fitted)	1	coil leads
51	LUC4B306	RUBBER COVER, acorn nut	1	
52	GCL1110	END KIT, for HT lead into coil	1	use for push-in
53	LUC4B354	COVER, HT lead coil end	1	coil leads
54	LUC4B310	TERMINAL, HT lead coil end	1	

... And for those who do not wish to make their own -

55	TT1172	HT LEAD SET & DISTRIBUTOR CAP	1	Blue silicone leads with push-in coil cap ends. Not original but functional.
56	GDC103	REPLACEMENT CAP	1	for TT1172 lead set
57	CRST255	LABEL SET, (lead numbering)	1	
58	240431A	RUBBER TIE, for leads	1	
60	509347	LT WIRE, ring terminals	1	coil to distributor
61	125957	LT WIRE, Lucar terminals	1	alternatives
65	GCL110B	COIL, screw-in HT lead	1	ring or Lucar LT leads
	GCL110	COIL, push-in HT lead	1	Lucar LT leads
	TT2981	COIL, sports type	1	Lucar LT leads
66	CRST156	'LUCAS' DECAL, for coil	1	
70	L87YCC	SPARK PLUG, Champion copper cored	4	alternatives
	BP6HS	SPARK PLUG, NGK	4	

Although there are many alternatives, the above spark plugs represent the best available at the moment. Owners running a modified engine should refer to the Accessories section (Performance & Tuning)

75	SH504051	SCREW, coil to cylinder block	2	
76	WM57	WASHER, plain	2	
77	GHF331	WASHER, locking	2	

Ignition Tech Tips

Engine 'Misfire' ?

If your engine begins to misfire, cuts off intermittently and finally won't run at all, the cause could be a broken low tension lead (the thin wire from the ignition coil to the side of the distributor). The wire conductors in these tend to break under the insulation, just above the clip, so they appear to be in good condition when in fact they won't work at all.

Setting Ignition Timing

Setting the ignition timing after a tune-up is simply done. With the engine running at fast idle speed, adjust the distributor for maximum RPM, and then retard the timing to give a drop of 100 RPM in engine speed.

Engine develops a will of its own!

If you are driving down the road and the engine suddenly dies on you and in desperation, you call your best friend who knows about TR's and ask him to come out and rescue you. He arrives and says "Now, what's wrong with this car?" He turns the key and presses the button and it fires up. You:-

- develop a red face,
- are frustrated to hell, and
- wish you could sell the car because you know it died on you.

You happily drive down the road to find within the next 15 miles or so the same thing happens again. There is a good chance that this sequence of events is caused by the condenser failing to work when it warms up.

For the sake of a couple of pounds we recommend you keep a spare one in the car.

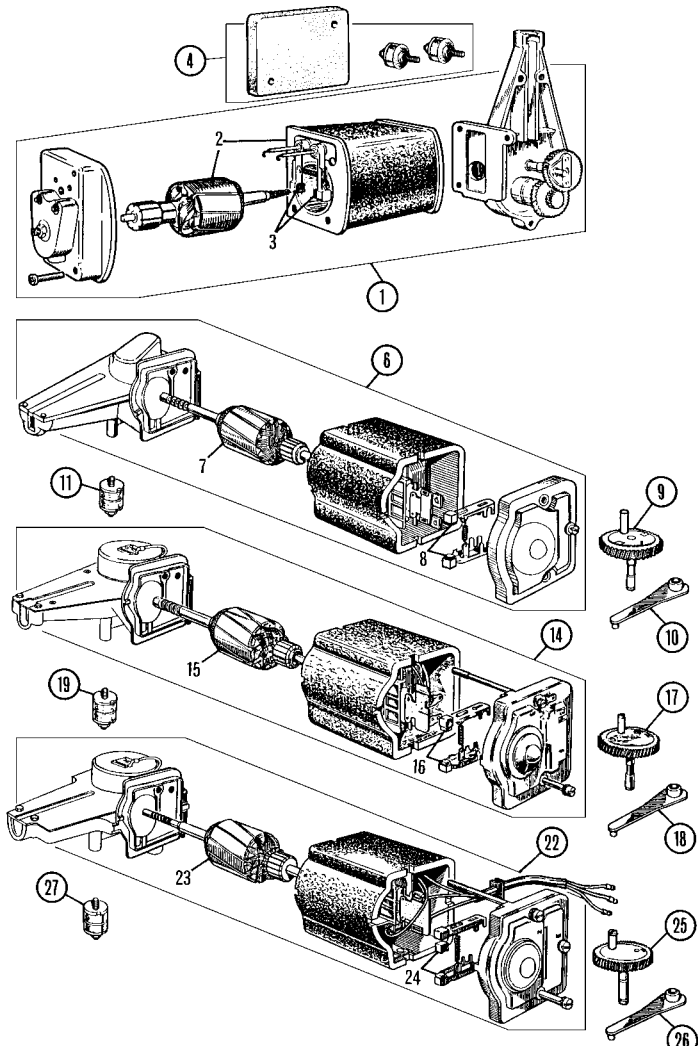
Spare Contact Breaker Assembly

Having your points or condenser fail is a problem at the best of times. But when you are on a tour, and it's raining and dark, the task of installing new ones is even more difficult.

One way to make the job easier is to obtain a spare contact breaker plate assembly from an old distributor, and fit it with new points & condenser.

The points can be set by installing this plate on your distributor (good practice for changing the plates!), then put the original plate back on, and carry the spare plate in your cars tool kit or glove compartment.

Should the need ever arise, you have the correct parts ready to hand, and they will be much easier to install than the individual components.



iii. Part No	Part Number	Description	Qty. Req.	Details
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Wiper Motor

Single Speed Wiper Motor, CRT Type

TR2, TR3 to TS12567

1	501684R	WIPER MOTOR	1	recon/exchange
2	MM145-390	MOTOR ONLY	1	
3	508170	CARBON BRUSHES, (1 pair)	1	
4	501684FK	MOUNTING KIT	1	

Kit includes 2 studs, 2 nuts, 2 washers, 2 special rubber ferrules & 1 rubber pad

Single Speed Wiper Motor, DR2 Type

TR3 from TS12568, TR3A,

TR4 to CT7783 (RHD) & to CT30 (LHD)

6	LULRW113R	WIPER MOTOR	1	recon/exchange
7	17H5255	ARMATURE	1	
8	508170	CARBON BRUSHES, (1 pair)	1	
9	520939	GEAR & SHAFT	1	
10	503601	CONNECTING LINK	1	
11	17H5431	MOUNTING KIT,	3	

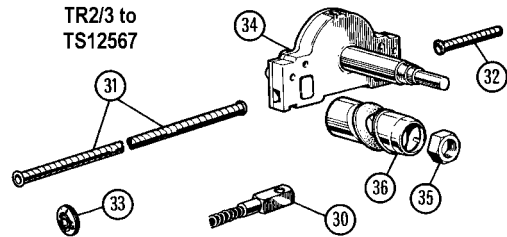
Kit includes 1 stud, 1 nut, 2 washers, 1 grommet

Single Speed Wiper Motor, DR3A Type

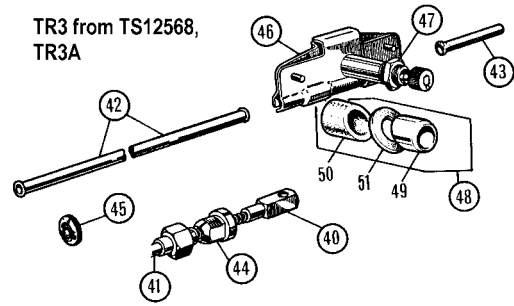
TR4 from CT7784 (RHD) & from CT31 (LHD)

14	GXE7714	WIPER MOTOR	1	recon/exchange
15	511003	ARMATURE	1	
16	508170	CARBON BRUSHES, (1 pair)	1	
17	511078	GEAR & SHAFT	1	
18	511096	CONNECTING LINK	1	
19	17H5431	MOUNTING KIT,)	3	

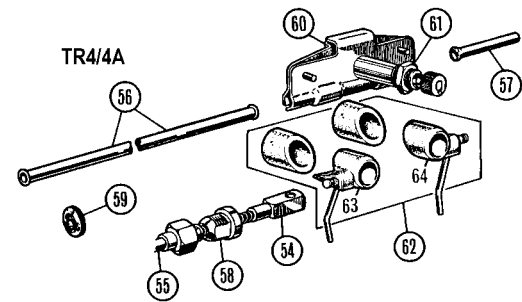
Kit includes 1 stud, 1 nut, 2 washers, 1 grommet



TR3 from TS12568, TR3A



TR4/4A



iii. Part No	Part Number	Description	Qty. Req.	Details
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Two Speed Wiper Motor, DR3 Type

Standard Equipment for TR4A

(Optional Equipment for TR3 from TS12568, TR3A & TR4)

22	514821R	WIPER MOTOR	1	recon/exchange
23	511003	ARMATURE	1	
24	508170	CARBON BRUSHES, (1 pair)	1	
25	511078	GEAR & SHAFT	1	
26	511096	CONNECTING LINK	1	
27	17H5431	MOUNTING KIT,	3	

Kit includes 1 stud, 1 nut, 2 washers, 1 grommet

Wiper Racks & Wheel-boxes

TR2, TR3 to TS12567

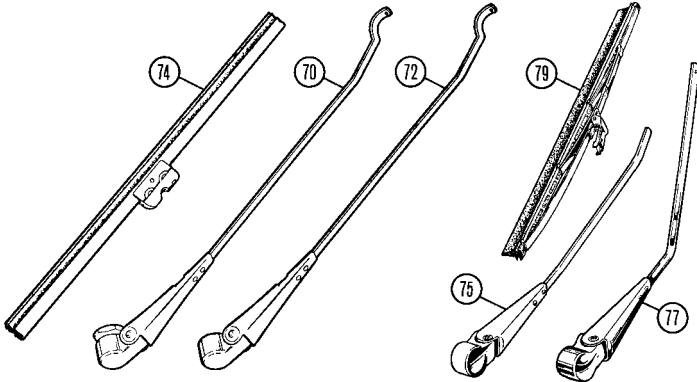
30	501730	RACK, wheel box driving	1	TR2 to TS996 (31 15/16") TR2, TR3 from TS997 to TS12567 (34 15/16")
		requires cutting to correct length		
31	502254	RACK CASING	1	motor to wheel box
32	502255	RACK CASING	1	wheel box to wheel box
33	RFN305	GROMMET	1	rack through bulkhead
34	502005	WHEEL BOX	2	
35	502005NT	NUT, 6 sided	2	
36	502005CB	CHROME BEZEL	2	

TR3 from TS12568, TR3A

40	37H5208	RACK, wheel box driving	1	cut to correct length (38 29/32")
41	114483	RACK TUBING	1	motor to 1st wheel box
42	203473	RACK TUBING	1	wheel box to wheel box
43	575047A	RACK TUBING	1	short to wheel box
44	37H5282	FERRULE	1	rack outer tube to motor
45	C5574A	GROMMET	1	rack through bulkhead
46	37H6316	WHEEL BOX	2	
47	ANK3459	NUT (6 sided)	2	
48	37H6316FK	BEZEL KIT	2	
49	ADB826	CHROME BEZEL	2	
50	AHH5414	RUBBER SPACER	2	
51	ADC560X	RUBBER GASKET	2	

(Continued)

Ill. No	Part Number	Description	Qty. Req.	Details
(Wiper Motor) TR4/4A				
54	37H5208	RACK, wheel box driving	1	cut to correct length, (28 11/32")
55	625614	TUBING, rack	1	motor to 1st wheelbox
56	131151	TUBING, rack	1	wheel box to wheelbox
57	575047A	TUBING, rack	1	short to wheel box
58	37H5282	FERRULE	1	rack outer tube to motor
59	600395	GROMMET	1	rack through bulkhead
60	37H6316	WHEEL BOX	2	
61	ANK3459	NUT, 6 sided	2	
62	JET & BUSH KIT, car set		1	
63	511070	JET & BUSH, RH	1	
64	511071	JET & BUSH, LH	1	

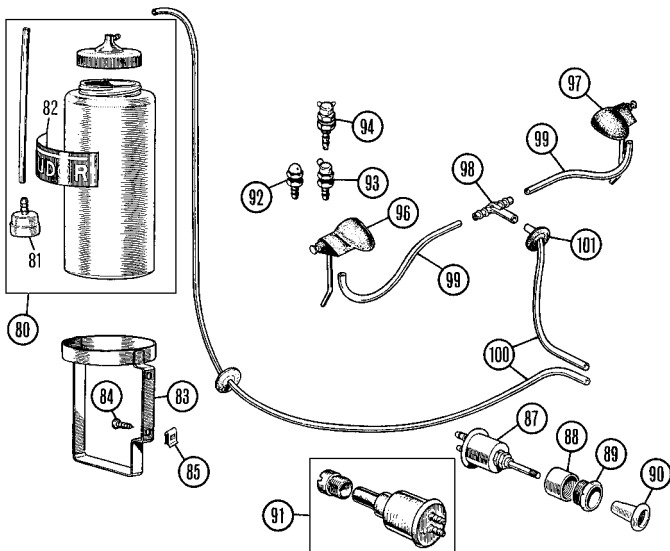


Wiper Arms & Blades

TR2/3/3A				
70	107963	WIPER ARM, RHD	2	TR2, TR3 to TS12567
	107965	WIPER ARM, LHD	2	collet fitment
72	114485	WIPER ARM, RHD	2	TR3 from TS12568, TR3A
	114488	WIPER ARM, LHD	2	spline fitment
74	114486	WIPER BLADE, chrome	2	

TR4/4A

75	131105	WIPER ARM, RH (RHD)	1	straight arm
	131108	WIPER ARM, LH (LHD)	1	
77	131106	WIPER ARM, LH (RHD)	1	cranked arm
	131107	WIPER ARM, RH(LHD)	1	
79	GWB219B	WIPER BLADE, chrome	2	



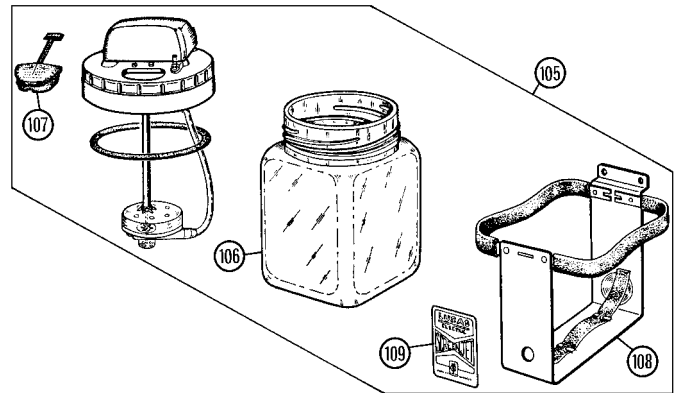
Windscreen Washer System

TR2/3/3A models did not have a screen washer system as standard, but it was listed in the back of the parts book as an accessory. The original (optional) factory kit is no longer available, but we can supply some components that are close copies of the original. The same goes for the replacement of parts as originally fitted to TR4's & TR4A's.

TR2/3/3A, TR4/4A

Replacement for Original (Optional) Type				
80	GW918K	WASHER BOTTLE	1	includes bottle, cap, pipe & valve
	GW506	NON-RETURN VALVE	1	
82	CRST124	LABEL, 'Tudor'	1	

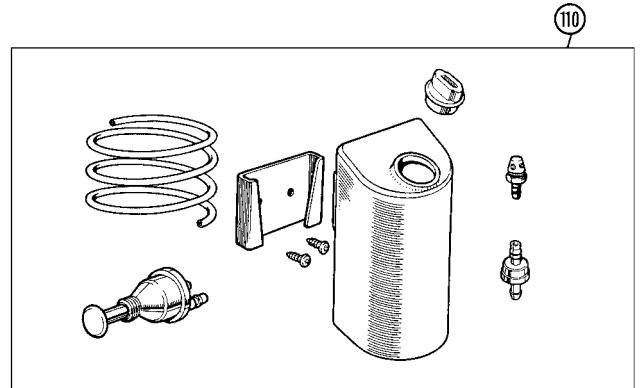
Ill. No	Part Number	Description	Qty. Req.	Details
83	13H232	BRACKET	1	
84	AB606051	SCREW, bracket to inner wing	2	
85	FC2803	SPIRE NUT (in front inner wing)	2	
87	GW110	PUMP, original	1	
88	609526	HOUSING	1	
89	609919	BEZEL	1	
90	609946	KNOB (for pump GW110)	1	
91	GW102	PUMP & PLUNGER	1	replacement
92	MM802-805	JET, chrome, single (original)	2	TR2/3/3A
93	GW802	JET, chrome, single (Lucas)	2	
94	GW801	JET, chrome, twin (Lucas)	2	TR4/4A
	JET & BUSH KIT, (car set)		1	
96	511070	JET & BUSH, RH	1	
97	511071	JET & BUSH, LH	1	
98	GW404	'T' PIECE	1	
99	GW201M	TUBING, 3mm bore	a/r	'T' piece to jets
100	GW202M	TUBING, 4mm bore	a/r	bottle to pump/to 'T' piece
101	061917	GROMMET, around tubing	a/r	



TR2/3/3A, TR4/4A (Optional Equipment)

This screen washer is a reproduction of the electric screen washer that was also offered as optional equipment. It is a beautifully reproduced period accessory. It does not include any wiring, tubing jets or switch. This type was commonly used as an accessory on TR2/3/3A's, some TR4/4A's may have been fitted retrospectively.

105	GAC9211X	ELECTRIC SCREEN WASHER	1	glass bottle type
106	553757	GLASS JAR	1	
107	503786	FILLER PLUG	1	
108	553758	BRACKET	1	
109	CRST169	DECAL, Lucas screen jet	1	



TR2/3/3A, TR4/4A (Aftermarket Replacement)

If your TR2/3/3A has no screen washer at all, the complete kit (GAC9212X) will fit and keep it legal in the eyes of the UK MOT tester.

Most owners however prefer to replace the supplied plastic jets with the original chrome jets listed above.

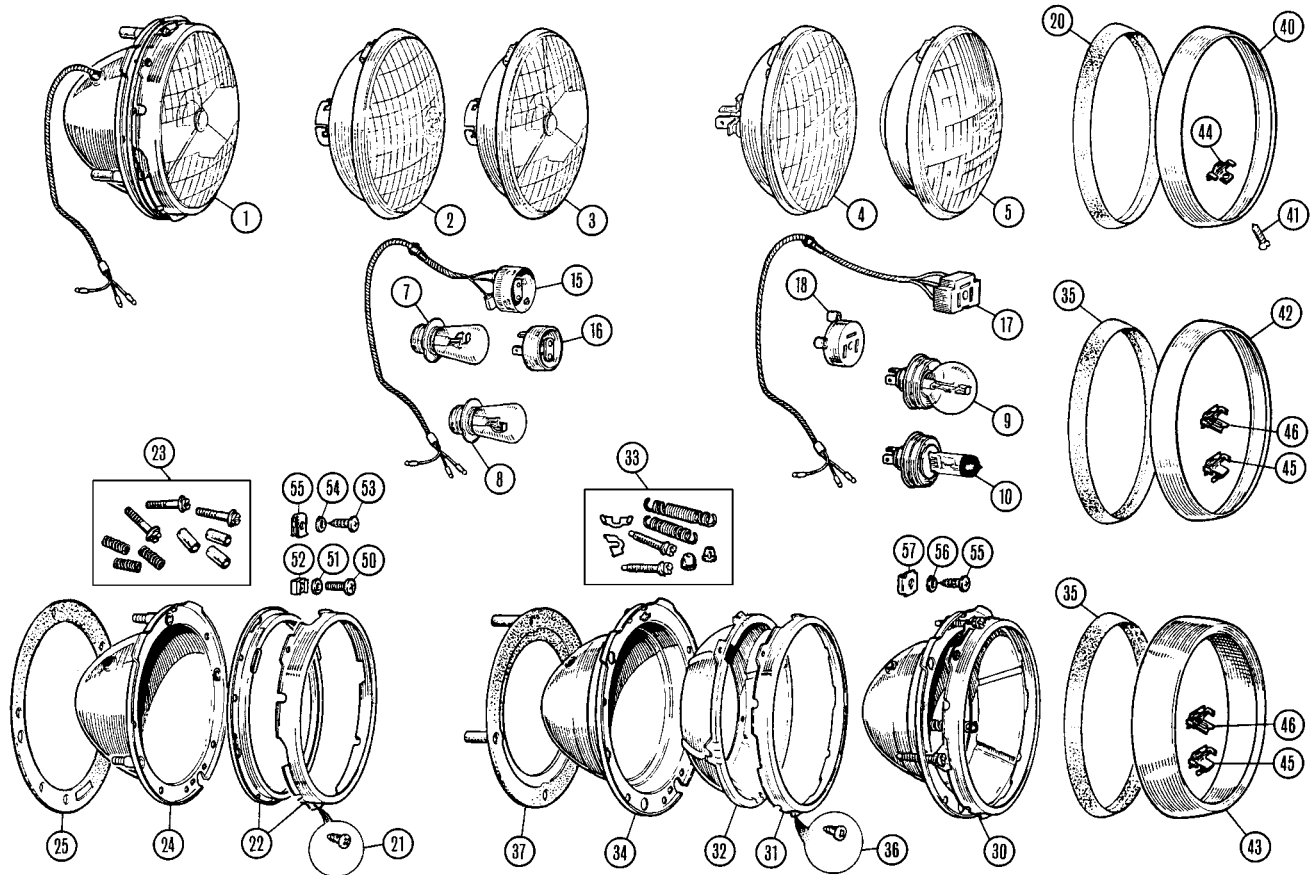
110	GAC9212X	SCREEN WASHER KIT	1	inc. container, bracket, tubing, manual pump, & jet.
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So, the conclusions:

TR2/3/3A with no screen washer system:

buy GAC9212X or select the components as required from the optional equipment listings.

TR4/4A with no screen washer system: select the components as required.



Ill. No	Part Number	Description	Qty. Req.	Details
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TR2/3/3A, TR4/4A Headlamps

The various designs and types of headlamps originally fitted are too numerous to mention. In addition they are now generally not available. The favourite headlamp type amongst owners the world over is the 'Tripod' design. We have reproduced this item in both RHD and LHD formats to accept British Pre-Focus (BPF) bulbs of either RHD or LHD to match the lens pattern. Customers wishing to install 'Tripod' type lamps, but have nothing fitted should buy:- Bucket & Bowl 27H8263X, Seal 512222, Chrome Rim 500929, Cable 27H2333 and either LU554308 with GLB414 (RHD lamp & bulb), or LU555296 with GLB415 (LHD lamp & bulb), depending on which side of the road you intend to drive on!

We also offer a selection of Halogen conversion headlamps for TR's, see Accessories for details.

Headlamp Units

1	506370X	HEADLAMP, 'tripod', RHD (for this headlamp assembly use 119072 or 124020 rim)	2	
	506372X	HEADLAMP, 'tripod', LHD (for this headlamp assembly use 119072 or 124020 rim)	2	
	BHM7196	HEADLAMP, sealed beam, RHD (for this headlamp assembly use 500929 rim)	2	
	512223X	HEADLAMP, sealed beam, RHD (for this headlamp assembly use 119072 or 124020 rim)	2	
	514579	HEADLAMP, sealed beam, LHD (for this headlamp assembly use 119072 or 124020 rim)	2	
	27H8495	HEADLAMP, BPF lamp, RHD (for this headlamp assembly use 500929 rim)	2	
	AEU1061A	HEADLAMP, P45T asymmetric, LHD (for this headlamp assembly use 500929 rim)	2	
	512224X	HEADLAMP, P45T asymmetric, LHD (for this headlamp assembly use 119072 or 124020 rim)	2	

Replacement Parts

2	GLU501	LIGHT UNIT, BPF	2	RHD, LH dipping
3	LU554308	LIGHT UNIT, BPF 'tripod'	2	RHD, LH dipping
	LU555296	LIGHT UNIT, BPF 'tripod'	2	LHD, RH dipping
4	GLU101	LIGHT UNIT, sealed beam	2	RHD, LH dipping
	BMK2508	LIGHT UNIT, sealed beam	2	LHD, RH dipping
5	27H4146A	LIGHT UNIT, P45T asymmetric	2	LHD, RH dipping
7	GLB414	BULB, BPF, clear	2	RHD, LH dipping
8	GLB415	BULB, BPF, clear	2	LHD, RH dipping
	GLB409X	BULB, BPF, cadmium yellow	2	LHD, RH dipping
9	GLB410	BULB, P45T, clear	2	
	GLB411	BULB, P45T, cadmium yellow	2	France

Ill. No	Part Number	Description	Qty. Req.	Details
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10	GLB2983	BULB, P45T, halogen, clear	2	
15	27H2333	ADAPTOR & CABLES	2	for BPF lamp unit
16	501473	ADAPTOR, Lucar terminals	2	for BPF lamp
17	BAU2110	ADAPTOR, Lucar	2	plug connector & cables
18	600226A	ADAPTOR only	2	(for Lucar terminals)

Type 'A' Bucket (3 Adjusters)

20	3H2962	DUST EXCLUDER, rubber	2	
21	AB606021	SCREW, rim retaining	6	
22	17H5205	MOUNTING RIM, h/lamp	2	(2 pieces)
23	17H5394K	ADJUSTER KIT (includes 3 screws, 3 springs, 3 sleeves)	2	
24	7H6838	BUCKET, headlamp	2	3 adjuster type
25	3H1031	SEAL, bucket to body	2	

Type 'B' Bucket (2 Adjusters)

30	27H8263X	BUCKET, BOWL & RIM UNIT	2	
31	515218A	RING, outer mounting, chrome	2	
32	SML4	RING, inner mounting	2	
33	BHM7058	ADJUSTER KIT (includes 2 screws, 2 ferrules, 2 springs & 2 clips)	2	
34	SML3	BUCKET, headlamp	2	2 adjuster type
35	3H2962	DUST EXCLUDER, rubber	2	
36	AB606021	SCREW, rim retaining	6	
37	512222	SEAL, bucket to body	2	
	13H565	SEAL, bucket to body	2	alternative
	009403	SEAL, bucket to body	2	fit in pairs

Headlamp Rims

See also Accessories

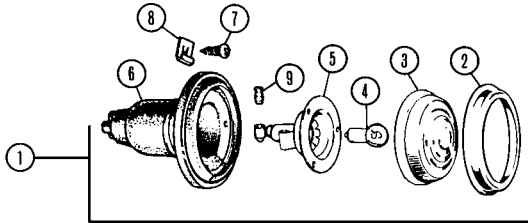
40	500929	RIM, headlamp, screw-on type	2	TR2/3
41	RTC465	SCREW, rim retaining	2	
42	119072	RIM, headlamp, clip-on type	2	TR3A, TR4/4A
43	124020	RIM, headlamp, wide/clip-on type	2	TR3A, from TS32585 USA
44	37H7421A	CLIP, rim retaining (use with rim 500929)	2	TR2/3
45	BAU1460TR	CLIP, rim retaining, original (use with rims 119072 & 124020)	2	TR3A/4/4A
46	BAU1460	CLIP, rim retaining, clip, repro (use with rims 119072 & 124020)	2	TR3A/4/4A

Ill. No	Part Number	Description	Qty. Req.	Details
Fittings - Headlamp to Body				
50	PMZ312	SCREW	6	TR2/3/3A original fitment must be used in sets, fits 9/32" square hole
51	WL700101	WASHER, locking	6	
52	FS2701	NUT & RETAINER	6	
53	GHF424	SCREW	6	TR2/3/3A alternative
54	WP4	WASHER, plain	6	
55	GHF1000	SPIRE NUT	6	
55	GHF424	SCREW	8	TR4/4A fits 7/16" square hole
56	WP4	WASHER, plain	8	
57	FC2804	SPIRE NUT	8	

Headlamp Control Relay Kit

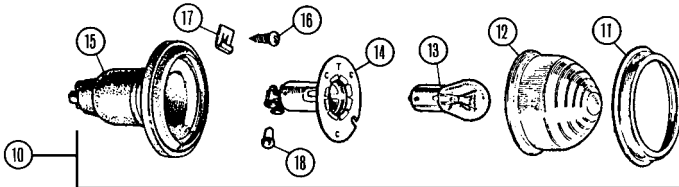
The Triumph TR4/4A electrical system does not include relays in the headlamp dip or main beam circuits. The omission of relays from these circuits means that the high electrical currents required to power the lamps runs through the switch gear when the lamps are used. This is contributory to the burning & subsequent failure of light and dip switch contact points. This situation is aggravated if the original equipment headlamps are uprated to a higher wattage or supplemented with additional lights, as this increases the current load on the existing circuit. Another benefit to the installation of operating relays is that of brighter headlamps without uprating their wattage. All TR's from TR2 to TR6 easily lend themselves to the installation of relays to control headlamp operating power without having to do any butchery to the wiring loom that is non reversible. It also pays back by not involuntarily melting the dip, flash or main lighting switch. The additional wiring and relays can be easily tucked out of sight so as not to inflame the wrath of the purists.

NI	GAC40252	HEADLAMP RELAY KIT includes fittings & 2 (Lucas) relays	1	See also Accessories (page 19) for kits with 4 relays
NI	GAC40262	HEADLAMP RELAY KIT includes fittings & 2 (Aftermarket) relays	1	



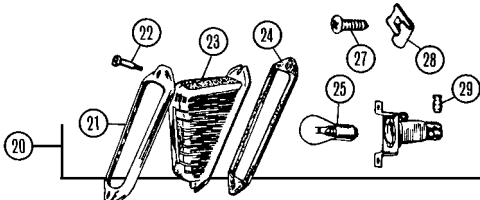
Front Side & Flasher Lamp TR2, TR3 to TS17340

1	3H3055	FRONT SIDE & FLASHER LAMP	2
2	7H5182	RIM, chrome, lens retaining	2
3	AJA5076	LENS, clear, (flat type)	2
4	GLB380	BULB	2
5	17H5426	BULB HOLDER	2
6	37H5481	BODY (rubber)	2
7	GHF421	SCREW, lamp attaching	6
8	AK606021	SPIRE NUT, lamp attaching	6
9	27H6713	BULLET CONNECTOR	3



Front Side & Flasher Lamp TR3 from TS17341, TR3A

10	1B9100	FRONT SIDE & FLASHER	2
11	7H5182	RIM, chrome, lens retaining	2
12	37H6928	LENS, clear (bee-hive type)	2
13	GLB380	BULB, 21/5 watt	2
14	27H5545	BULB HOLDER	2
15	508162	BODY (rubber)	2
16	GHF421	SCREW, lamp	6
17	AK606021	SPIRE NUT, lamp	6
18	27H6713	BULLET CONNECTOR	3

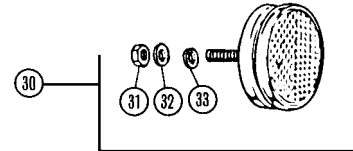


Tail Lamp TR2 to TS1306

20	107592B	TAIL LAMP, reproduction	2
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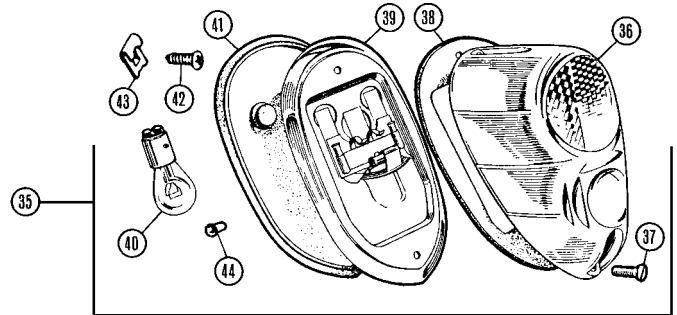
Ill. No	Part Number	Description	Qty. Req.	Details
21	502347	RIM, tail lamp lens	2	
22	502348	SCREW, tail lamp rim	4	
23	501934X	LENS, glass	2	
	501934	LENS, plastic	2	
24	502332	GASKET, tail lamp lens	2	
25	GLB380	BULB	2	
27	GHF424	SCREW	4	
28	GHF712	SPIRE NUT	4	
29	27H6713	BULLET CONNECTOR	3	

The lamp that we supply is a reproduction of the original lamp fitted on the MG 'T' series and early Morris Minors. It differs in the construction of the backplate only; a very minor modification to the rear apron will be required in fitting. Externally, once fitted, the lamp is visually indistinguishable from the original



Reflector TR2 to TS1306

30	501485	REFLECTOR	2
31	AJD8012Z	NUT, plain (2BA)	26
32	WL700101	WASHER, locking	4
33	PWZ203	WASHER, plain	4

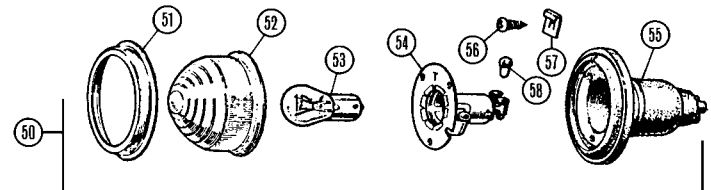


Tail Lamp

TR2 from TS1307, TR3/3A

35	13H23*	TAIL LAMP	2
36	AJA5069	LENS, original Lucas	2
37	57H5569	SCREW, lens to base	4
38	AJA5071	GASKET, lens to base	2
39	AJA5072	BASE	2
40	GLB380	BULB	2
41	AJA5073	GASKET, lamp mounting	2
42	GHF424	SCREW	4
43	GHF712	SPIRE NUT	4
44	27H6713	BULLET CONNECTOR	3

*Note: This lamp was a 'tail & flasher' lamp up to TS15601, after which it was used as a stop & tail lamp.

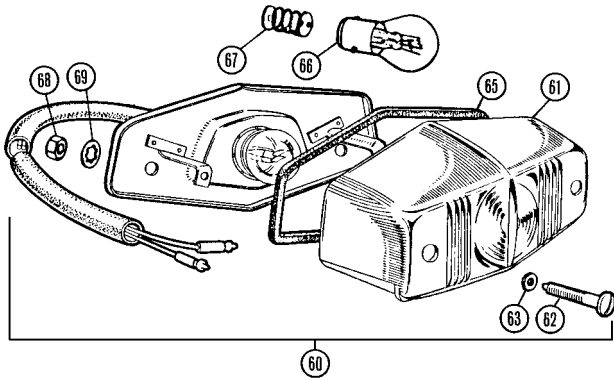


Rear Flasher Lamp

TR3 from TS15601, TR3A

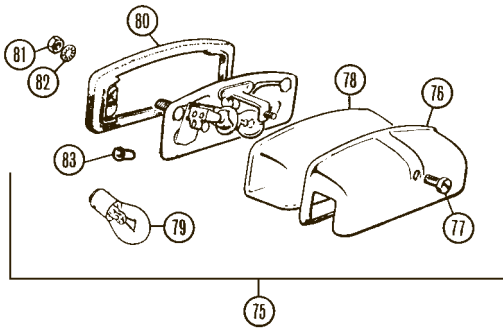
50	2A9013	REAR FLASHER LAMP, amber	2
	2A9040	REAR FLASHER LAMP, red	2
51	7H5182	RIM, flasher lamp lens	2
52	37H5520	LENS, amber	2
	37H5531	LENS, red	2
53	GLB382	BULB	2
54	37H5528	BULB HOLDER	2
55	508162	BODY, rubber	2
56	GHF421	SCREW	6
57	AK606021	SPIRE NUT	6
58	27H6713	BULLET CONNECTOR	2

Ill. Part Number Description Qty. Details
No No Req.



Stop & Number Plate Lamp TR2, TR3 to TS18912

Ill. No	Part Number	Description	Qty.
60	109497	STOP & NUMBER PLATE	1
61	501798	LENS	1
62	501799	SCREW	2
63	21G9057	WASHER, screw	2
65	502351	GASKET, lens seating	1
66	GLB380	BULB	1
67	37H5459	CONTACT & SPRING	1
68	AJD8012Z	NUT	2
69	WL700101	WASHER, locking	2

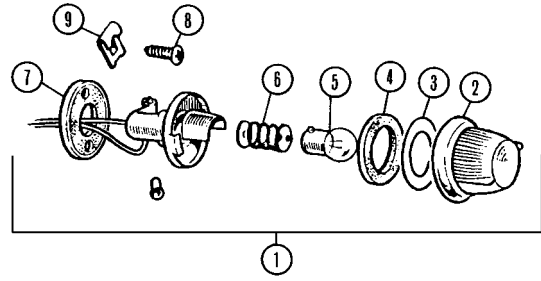


Number Plate Lamp TR3 from TS18913, TR3A

Ill. No	Part Number	Description	Qty.
75	127916	NUMBER PLATE LAMP	1
76	502264	COVER, chrome	1
77	17H5385	SCREW	1
78	601721A	LENS	1
79	GLB989*	BULB	1/2
80	57H5368	GASKET	1
81	AJD8012Z	NUT	2
82	WL700101	WASHER, locking	2
83	27H6713	BULLET CONNECTOR	2

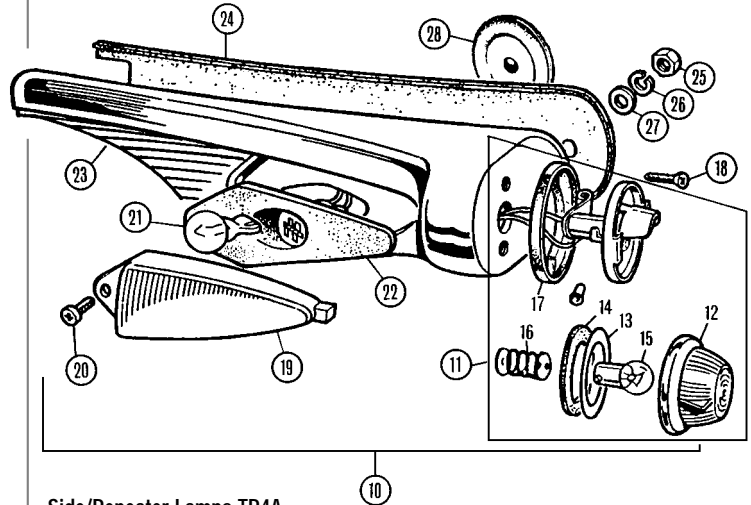
*Note: The early single bulb number plate lamp has been replaced by a lamp which appears identical, except that it uses two bulbs.

Ill. Part Number Description Qty. Details
No No Req.



Side Lamp TR4

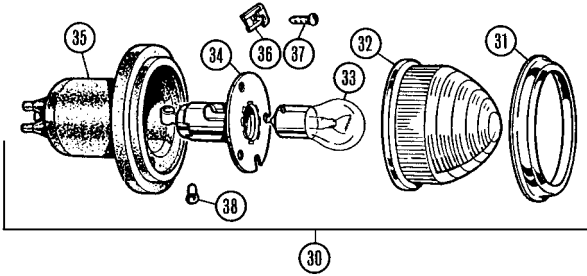
Ill. No	Part Number	Description	Qty.
1	514805	SIDE LAMP	2
2	510897	LENS & RIM, clear	2
3	510898	WASHER, plastic (sliding ring)	2
4	510899	GASKET, lens seating	2
5	GLB233	BULB	2
6	244700A	CONTACT & SPRING	2
7	510900	GASKET, assembly seating	2
8	AT606042	SCREW, lamp retaining	4
9	AK606021	SPIRE NUT	4



Side/Repeater Lamps TR4A

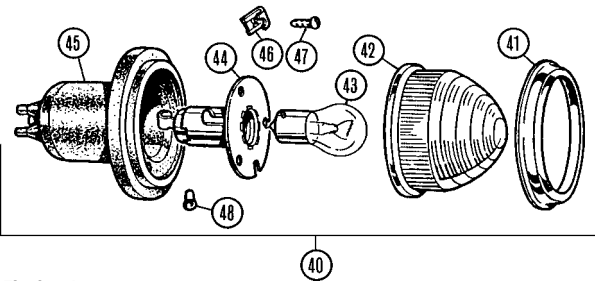
Ill. No	Part Number	Description	Qty.
10	212486	SIDE/REPEATER LAMP, RH	1
	212488	SIDE/REPEATER LAMP, LH	1
11	514805	SIDE LAMP	2
12	510897	LENS & RIM, clear	2
13	510898	WASHER, plastic (sliding ring)	2
14	510899	GASKET, lens seating	2
15	GLB233	BULB	2
16	244700A	CONTACT & SPRING	2
17	510900	GASKET, seating	2
18	AT606042	SCREW, base to housing	4
19	616648	LENS, side-marker (amber)	2
20	514807	SCREW, lens retaining	2
21	GLB6501	BULB	2
22	616628	GASKET, with bulb holder	2
23	808677	BASE, lamp unit, RH	1
	808678	BASE, lamp unit, LH	1
24	514808	GASKET, lamp to wing, RH	1
	514809	GASKET, lamp to wing, LH	1
25	GHF200	NUT, assembly to wing	4
26	GHF331	WASHER, locking	4
27	GHF300	WASHER, plain	4
28	061917	GROMMET, wires/inner wing	2

Ill. Part Number Description Qty. Details
No Req.



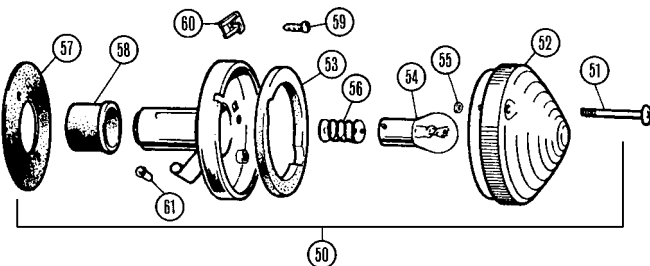
Front Flasher Lamps TR4/4A UK Models

30	2A9013	FLASHER LAMP, amber	2
31	7H5182	RIM	2
32	37H5520	LENS, amber	2
33	GLB382	BULB	2
34	37H5528	BULB HOLDER	2
35	508162	BODY, rubber	2
36	AK606021	SPIRE NUT	6
37	GHF421	SCREW	6
38	27H6713	BULLET CONNECTOR	2



Front Flasher Lamps TR4/4A USA Models to Body no. 30348CT

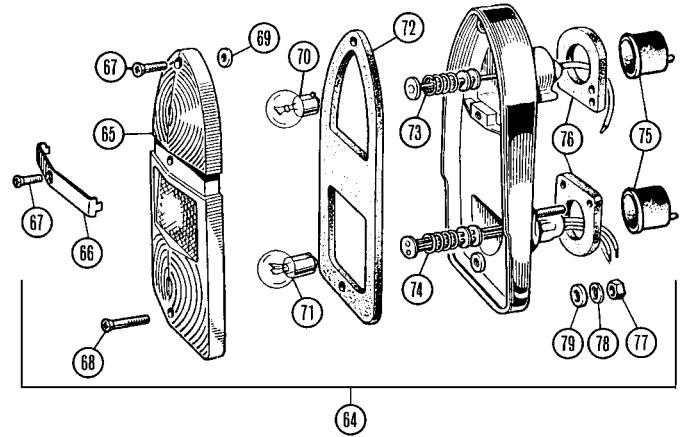
40	532806	FLASHER LAMP, clear	2
41	7H5182	RIM	2
42	37H6928	LENS, clear	2
43	GLB382	BULB	2
44	37H5528	BULB HOLDER	2
45	508162	BODY, rubber	2
46	AK606021	SPIRE NUT	6
47	GHF421	SCREW	6
48	27H6713	BULLET CONNECTOR	2



Flasher Lamps TR4/4A USA Models from Body no. 30349CT

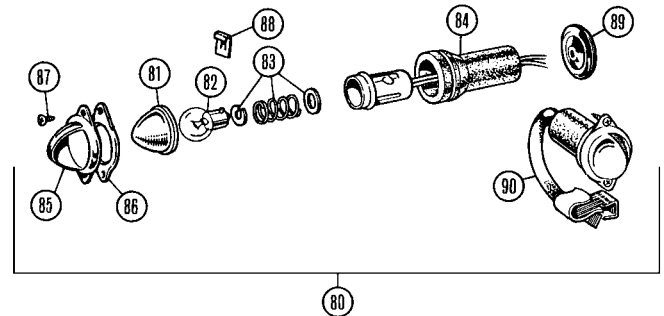
50	BHA4476	FLASHER LAMP	2
51	518868	SCREW, lens retaining	4
52	17H6763	LENS, clear	2
53	17H6765	GASKET, lens seating	2
54	GLB382	BULB	2
55	21G9057	WASHER, fibre	2
56	37H5452	CONTACT & SPRING	2
57	27H2724	GASKET, lamp seating	2
58	17H5216	BOOT, flasher wires	2
59	AB606051	SCREW	6
60	AK606021	SPIRE NUT	6
61	27H6713	BULLET CONNECTOR	2

Ill. Part Number Description Qty. Details
No Req.



Stop/Tail Lamp TR4/4A

64	208208	TAIL LAMP, red/amber lens	2	UK models
	208207	TAIL LAMP, all red lens	2	USA models
65	516040	LENS, red with amber flasher	2	UK models
	516061	LENS, all red	2	USA models
66	510903	CHROME STRIP	2	
67	510904	SCREW, top & centre	4	
68	510905	SCREW, bottom	2	
69	21G9057	WASHER, screw retaining	6	
70	GLB382	BULB, flasher lamp	2	
71	GLB380	BULB, stop/tail lamp	2	
72	510906	GASKET, lens seating	2	
73	37H5452	CONTACT & SPRING	2	flasher lamp
74	37H5459	CONTACT & SPRING	2	stop/tail lamp
75	17H5216	GROMMET, flasher lamp wires	4	
76	133364	GASKET, lamp to body	4	
77	GHF206	NUT, lamp retaining	8	
78	WL700101	WASHER, locking	8	
79	PWZ203	WASHER, plain	8	

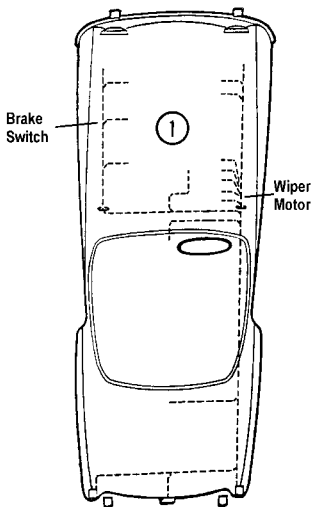


Number Plate Lamps TR4/4A

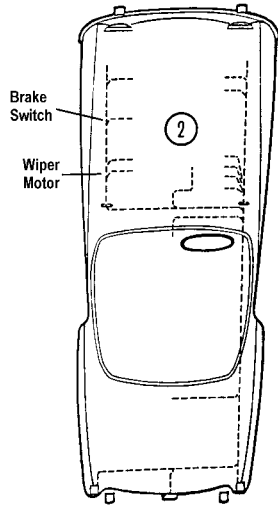
80	128881	NUMBER PLATE LAMP	2	
81	510875A	LENS	2	
82	GLB207	BULB	2	
83	37H5452	CONTACT & SPRING	2	
84	510912	BODY, rubber	2	
85	131465A	RIM	2	
86	612189	PLINTH, chrome	2	TR4 to CT6402
87	AR606052	SCREW, rim retaining	4	
88	AK606021	SPIRE NUT	4	
89	600395	GROMMET, No plate lamp wires	2	
90	611406	CLIP, lead to bumper bracket	2	

At an unknown change point during the production of the TR4A, German market cars switched from this type of number plate lamp (mounted on the rear over-riders) to the earlier type lamp used on the TR3's & TR3A's (mounted on the boot lid).

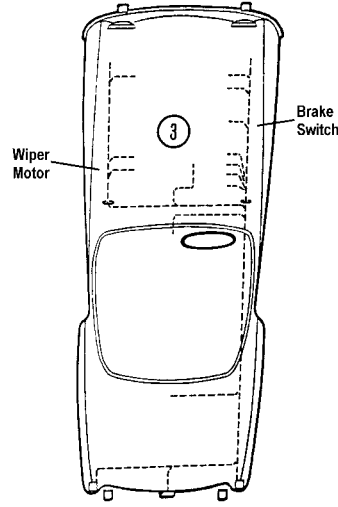
The part number for this earlier lamp is 127916, it is illustrated on the opposite page.



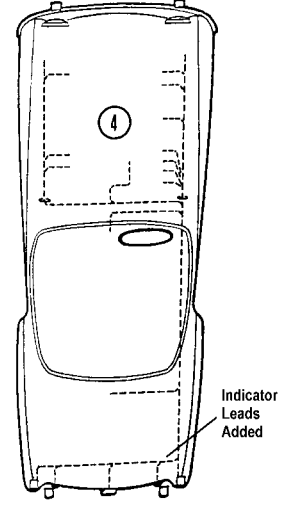
TR2/3 to TS12568



TR3 TS12569 to TS13045



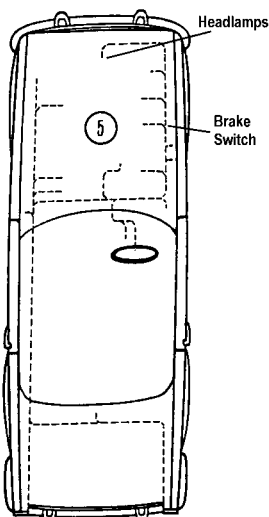
TR3 TS13046 to TS18912



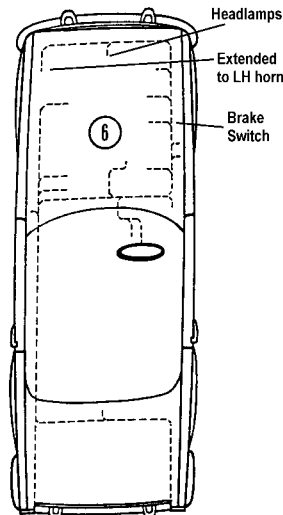
TR3 TS18913, TR3A

RHD models only illustrated

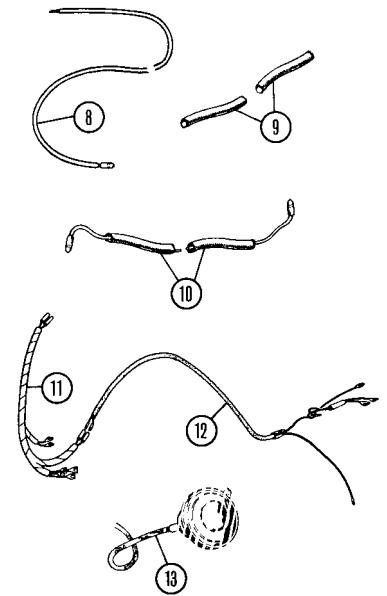
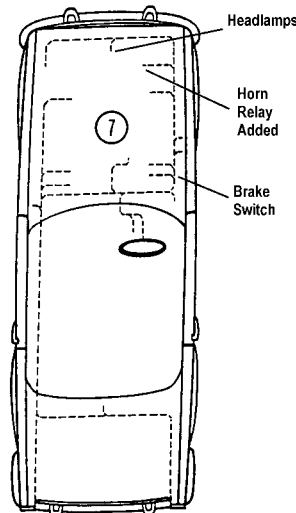
TR4 to CT14913



TR4 CT14914 on



TR4A



Ill. No	Part Number	Description	Qty. Req.	Details
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Wiring Harness (Looms)

1	501493CL	MAIN LOOM, Cloth bound	1	TR2, TR3 to TS12568
	501493PVC	MAIN LOOM, PVC bound		
2	504803CL	MAIN LOOM, Cloth bound	1	TR3 from TS12569
	504803PVC	MAIN LOOM, PVC bound		
3	505137CL	MAIN LOOM, Cloth bound	1	TR3 from TS13046
	505137PVC	MAIN LOOM, PVC bound		
4	303004CL	MAIN LOOM, Cloth bound	1	TR3 from TS18913
	303004PVC	MAIN LOOM, PVC bound		
	207162CL	MAIN LOOM, Cloth bound	1	TR3A from TS600001
	207162PVC	MAIN LOOM, PVC bound		
5	305321CL	MAIN LOOM, Cloth bound	1	TR4 RHD
	305321	MAIN LOOM, PVC bound		
6	305610CL	MAIN LOOM, Cloth bound	1	TR4 RHD
	305610	MAIN LOOM, PVC bound		
	305281CL	MAIN LOOM, Cloth bound	1	TR4 LHD
	305281	MAIN LOOM, PVC bound		

Ill. No	Part Number	Description	Qty. Req.	Details
	305611CL	MAIN LOOM, Cloth bound	1	TR4 LHD from CT9984
	305611	MAIN LOOM, PVC bound		
	306645CL	MAIN LOOM, Cloth bound	1	TR4 LHD
	306645	MAIN LOOM, PVC bound		
7	307235CL	MAIN LOOM, Cloth bound	1	TR4A RHD
	307235	MAIN LOOM, PVC bound		
	307234CL	MAIN LOOM, Cloth bound	1	TR4A LHD
	307234	MAIN LOOM, PVC bound		
8	108647	CABLE, red (cut to fit)	a/r	side lamp to main loom
	108648	CABLE, green (cut to fit)	a/r	flasher to main loom
	108649	CABLE, black (cut to fit)	a/r	lamp unit body earth
	108650	CABLE, horn to loom	a/r	
9	504806	PVC SLEEVING, cut to length	a/r	
10	139033	EXTENSION HARNESS (brake switch)	1	TR4 LHD from CT27000
11	131338	HARNESS, o/drive	1	switch to relay
12	131339	HARNESS, o/drive	1	gearbox top cover
13	502355	HARNESS, in column	1	TR2/3/3A

Ill. No	Part Number	Description	Qty. Req.	Details
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Loom Descriptions & Change Points

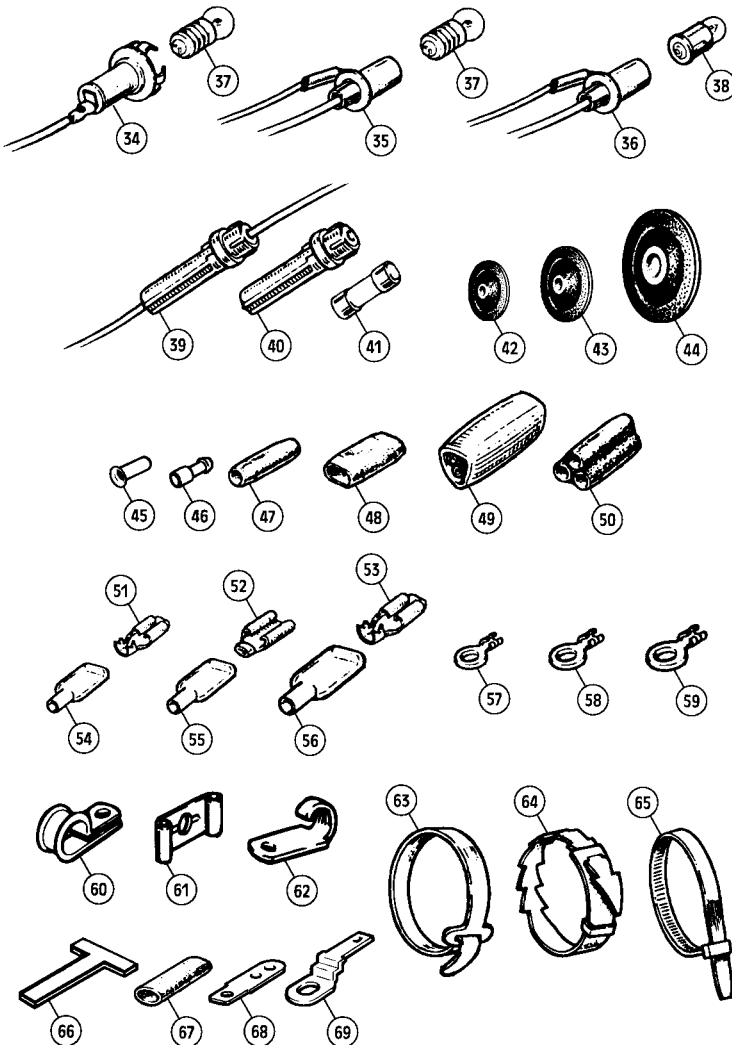
The following looms were originally Cloth bound

TR2, TR3 up to TS12568		Hydraulic switch on LH side, wiper motor on RH side, centre stop lamp.		
TR3 from TS12569 to TS13045		Hydraulic switch on LH side, wiper motor (self parking) on LH side, centre stop lamp.		
TR3 from TS13046 to TS18912		Hydraulic switch on RH side, wiper motor (self parking) on LH side, centre stop lamp.		
TR3 from TS18913, TR3A to TS60000		Hydraulic switch on RH side, separate rear flasher, stop lamps in tail lamps.		

By the clever design of placing the hole for the loom in the centre of the bulkhead, TR2/3/3A looms were not handed for RH or LH drive.

The following looms were originally PVC bound

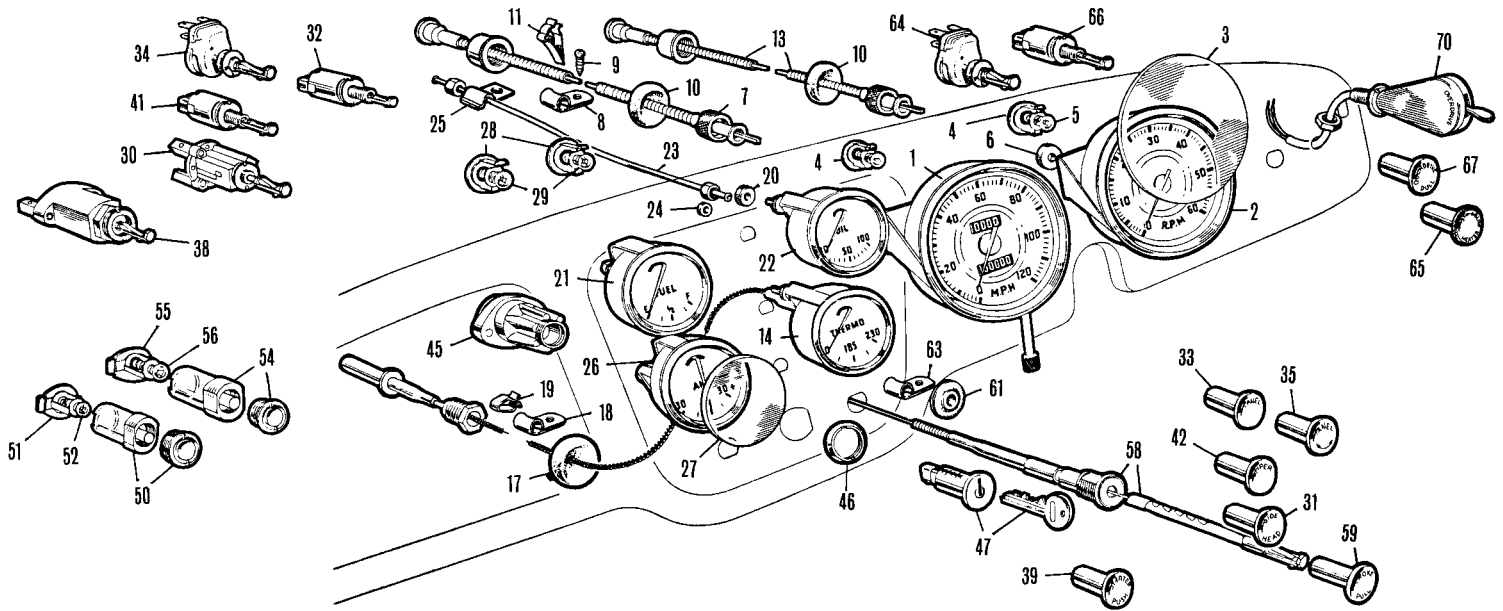
TR3A from TS60001		As TS18913 to TS60000 but with Lucar connectors, not screwed connectors.		
TR4 RHD to CT14913 TR4 LHD to CT9983		Coil and temperature sender cables fed from the LH side of under bonnet loom, hydraulic brake switch on RH side.		
TR4 RHD from CT14914 TR4 LHD from CT9984 to CT26999		Coil and temperature sender and LH horn fed from the RH side of under bonnet loom after feeding front lights, hydraulic brake switch on RH side.		
TR4 LHD from CT27000		Brake switch cables on RH side with extension wires to LH pedal box. Loom probably bound in blue PVC		
TR4A RHD or LHD		One for either hand of drive.		



Ill. No	Part Number	Description	Qty. Req.	Details
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Connectors & Fittings

34	515412	BULB HOLDER, claw type, screw-in bulb	a/r	MES type, self earthing
	37H5181	BULB HOLDER, claw type, screw-in bulb (glove box & key lamp)	a/r	MES type, separate earth
35	507799	BULB HOLDER, sleeve type (screw-in bulb)	a/r	MES type
36	UKC4187	BULB HOLDER, sleeve type (bayonet bulb) (footwell lamp)	a/r	BA7 type
37	GLB987	BULB, 2.2W, screw-in type (glove box lamp)	a/r	fits MES type bulb holder
38	GLB281	BULB, 2.0W, bayonet type, (footwell lamp)	a/r	fits BA7 type bulb holder
39	UKC4446	IN-LINE FUSE HOLDER (includes wires, terminals and spring)	a/r	
40	27H3588	FUSE HOLDER ONLY	a/r	
41	GFS3005	FUSE, 5 Amp., pack of five fuses	a/r	
	GFS3010	FUSE, 10 Amp., pack of five fuses	a/r	
	GFS3015	FUSE, 15 Amp., pack of five fuses	a/r	in line headlamp main beam
	GFS3020	FUSE, 20 Amp., pack of five fuses	a/r	
	GFS3025	FUSE, 25 Amp., pack of five fuses	a/r	in line cigar lighter.
	GFS3035	FUSE, 35 Amp., pack of five fuses	a/r	
	GFS3050	FUSE, 50 Amp., pack of five fuses	a/r	
42	061917	GROMMET (harness to front side repeater lamps)	2	
	061917	GROMMET (harness to number plate lamp, outer valance)	1	
	061917	GROMMET, screen washer tubing	1	
43	600395	GROMMET (harness to rear side repeater lamps)	2	
	600395	GROMMET (harness to front side repeater lamps)	2	
	600395	GROMMET (harness to number plate lamp, inner valance)	2	
	600395	GROMMET (harness to number plate lamp, inner valance)	1	
	612715	GROMMET, gearbox harness	1	through tunnel
44	600400W	GROMMET, main harness	1	through dash
45	003632	BULLET CONNECTOR, male	a/r	soldered type
	GHF2200	BULLET CONNECTOR, male	a/r	soldered type alternative.
46	605953	BULLET CONNECTOR, male	a/r	push-on type
47	104618	CONNECTOR, female, single line	a/r	2 way
48	RTC603A	CONNECTOR, female, double line	a/r	4 way common contacts.
49	570513A	CONNECTOR, female, triple line	a/r	6 way
50	2H4992	CONNECTOR, female, triple line	a/r	6 way Insulated contacts.
51	13H2050	CONNECTOR, Lucar, 3/16" wide	a/r	6 Amp.
52	RTC220A	CONNECTOR, Lucar, 1/4" wide	a/r	17.5 Amp.
53	47H5419	CONNECTOR, Lucar, 3/8" wide	a/r	35 Amp.
54	BMK449	INSULATOR, for 3/16" Lucar connector	a/r	
55	511269	INSULATOR, for 1/4" Lucar connector	a/r	
56	515399	INSULATOR, for 3/8" Lucar connector	a/r	
57	17H5287	EYELET, 3/16" hole	a/r	
58	2H4528	EYELET, 1/4" hole	a/r	
59	13H625	EYELET, 3/16" hole	a/r	
60	PCR709	'P' CLIP, fuse holder attaching	a/r	
61	551490	CLIP, holding fuse holder to edge	a/r	
62	102137	CLIP, earthing lead (head, side and flasher lamps)	a/r	
63	AHH7108	CLIP, aluminium band type	a/r	
64	145891	CABLE TIE, 'fir tree' type	a/r	
65	GHF1265	CABLE TIE, 9 cm. long	a/r	ratchet type
	GHF1266	CABLE TIE, 13 cm. long	a/r	
	GHF1267	CABLE TIE, 22 cm. long	a/r	
	GHF1268	CABLE TIE, 31 cm. long	a/r	
66	603559	LOOM TAG, welded to bodywork	a/r	
67	503213	INSULATING SLEEVE, on loom tag	a/r	
68	147382	EARTH TAG, Lucar,	a/r	welded to body panels
69	123759	EARTH TAG, Lucar (screwed to wiper motor mount)	1	



Ill. No	Part Number	Description	Qty. Req.	Details
Instruments, Cables & Dash Switches TR2/TR3/3A				
1	108192R	SPEEDOMETER, exchange (S628 or SN6307/04 or SN6319/00, 1180 turns)	1	} 3.7:1 axle, MPH
	113637R	SPEEDOMETER, exchange (SN6307 or SN6319, 1300 turns)	1	
	108193R	SPEEDOMETER, exchange (S628K or SN6307/05 or SN6319/02, 740 turns)	1	
	113632R	SPEEDOMETER, exchange (SN6307/09 or SN6319/03, 820 turns)	1	
NI	108192BEZ	BEZEL, large	1	
NI	502268G	SEAL, bezel	a/r	
<i>Speedometers are calibrated for 5.60x15 tyres which, luckily, are pretty close to what most TR's now wear, 165x15. If your TR is shod with something drastically different, or has non-standard wheel rim width, you should consider re-calibration but allow a generous time for this process.</i>				
2	106970R	REV COUNTER, (RC163 or RN1402/09 or RN1411/00)	1	
3	502268	GLASS, domed, large	2	
NI	108192BEZ	BEZEL, large	1	
NI	502268G	SEAL	2	
4	070066	BULB HOLDER, lamp	2	speedo* & rev counter
5	GLB987	BULB	2	
6	MM361-020	KNURLED NUT, large, brass	4	(fits 5mm. stud)
	MM361-035	KNURLED NUT, large, aluminium	4	(fits 4mm. stud)
NI	WE604	WASHER, shakeproof	a/r	
7	504611	CABLE, speedometer, 84"	1	RHD, all models
	GSD169	CABLE, speedometer, 69"	1	LHD, non-overdrive
	504609	CABLE, speedometer, 96"	1	LHD, with overdrive
8	CP105081	CLIP, speedo cable to dash	a/r	
9	GHF425	SCREW, for clip	a/r	
10	600395	GROMMET, speedo/rev cables	2	
11	059191	CLIP, speedo cable to chassis	1	
13	GSD113	CABLE, rev counter	1	51" RHD
	504619	CABLE, rev counter	1	36" LHD

Ill. No	Part Number	Description	Qty. Req.	Details
14	106965R	TEMPERATURE GAUGE, F°	1	(RT70 or TL2561/01)
	110895R	TEMPERATURE GAUGE, C°	1	(51-312-561-03 or TL2561/03)
17	600395	GROMMET	1	
18	PCR307	CLIP, tube to fascia stays	2	
19	138892	CLIP, tube to fuel pipe	2	
20	MM361-025	KNURLED NUT, small	8	(fits 4mm. stud)
21	106964R	FUEL GAUGE	1	(PG163 or FG2530/20)
2	106966R	OIL PRESSURE GAUGE (X8051612 or PL2561/00)	1	lbs. Per Sq. inch
NI	110896R	OIL PRESSURE GAUGE (X8051613 or PL2561/01)	1	kilograms per square centimetre
23	202973	RIGID PIPE, on bulkhead to gauge	1	
24	2K4936	WASHER, leather	1	oil pressure pipe to gauge
25	059380	CLIP, oil pressure pipe to bulkhead	2	
6	106967R	AMMETER, screw type	1	(36174B)
	125111R	AMMETER, with spade terminal	1	(36264A/D) alternative
27	502269	GLASS, domed, small	4	
NI	106964BEZ	BEZEL, small	4	
NI	17H1642	SEAL, bezel	4	
28	070066	BULB HOLDER	2	auxiliary instrument panel
29	GLB987	BULB	2	
30	3H3098	SWITCH, side & headlamp	1	
31	106685 *†	KNOB, side & headlamp switch	1	
32	2H4841	SWITCH, panel lights, pull type	1	
33	107680 *	KNOB	1	
34	BHA4278	RHEOSTAT SWITCH, panel lights	1	
35	125677 *†	KNOB	1	
38	501777	STARTER SWITCH	1	
39	109311 *†	KNOB	1	
4				
1	2H4841	SWITCH, windscreen wiper	1	single speed
42	106689 *†	KNOB	1	

We do not anticipate being able to offer the two speed wiper switch in the near future.

Ill. No	Part Number	Description	Qty. Req.	Details
45	107936	BODY, ignition switch	1	
46	107937	BEZEL	1	
47	24G1345	BARREL, with key	1	
50	501347	WARNING LAMP, ignition, red	1	
51	502342	SOCKET, for bulb	1	
52	GLB987	BULB	1	
54	501348	FLASHER WARNING LAMP	1	amber, TR2/3/3A
	128378	FLASHER WARNING LAMP	1	green, late TR3A
55	502342	SOCKET, for bulb	1	
56	GLB987	BULB	1	
58	400627	CHOKE CABLE, inner & outer	1	
59	107764 †	KNOB	1	
61	061917	GROMMET (for choke cable)	1	
63	CP105081	CLIP, choke cable to bulkhead	1	
64	57H5260	SWITCH, rheostat, heater	1	
65	509735	KNOB, retained by stud	1	
	500513	KNOB, retained by screw	1	alternative
66	BHA4280	SWITCH, overdrive, push-pull	1	} TR2 to TS6266
67	108437	KNOB, overdrive switch	1	
70	112474	SWITCH, overdrive, egg-shaped	1	} TR2 from TS6266, TR3/3A
	109122	SWITCH MECHANISM	1	

The early push-pull overdrive switch (item 66) can be used as an alternative to 112474 on TR3's & TR3A's.

Dash Knob Sets

NI	GKS6001X	DASH KNOB SET, (inc. items *)	1	} TR2/3, early TR3A
31	106685 *	KNOB, side & head lamp switch	1	
33	107680 *	KNOB, panel light switch	1	
39	109311 *	KNOB, starter switch	1	
42	106689 *	KNOB, wiper switch	1	
59	107764 *	KNOB, choke cable	1	
NI	GKS6002X	DASH KNOB SET, (inc. items †)	1	} late TR3A
31	106685 †	KNOB, side & head lamp switch	1	
35	125677 †	KNOB, panel light switch	1	
39	109311 †	KNOB, starter switch	1	
42	106689 †	KNOB, wiper switch	1	
59	107764 †	KNOB, choke cable	1	

Beware the Engine Earthing Strap

To enable any flow of electricity to occur, a complete loop must be maintained from one connection of the battery to the other. To enable a greater flow of electricity, a more substantial link is required between connections. Starting the engine (especially in cold conditions), requires a massive surge of battery power – up to 200 amperes of current, which flows from the battery terminal to the starter motor – and then to the other terminal any way it can.

To make this flow easier, an electrical 'motorway' is provided in the form of the engine earth strap, allowing current to flow from the engine to the body shell and back to the battery with ease. A frayed, damaged or badly corroded earth connecting strap causes the electrical equivalent of a traffic jam, then the current just looks for some other way of returning to battery.

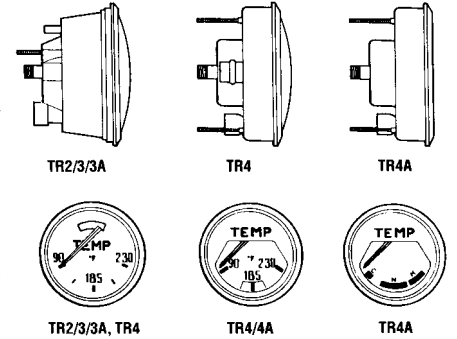
The choke cable seems especially popular, its wire wound casing turning rapidly to a heater element, providing extra assistance in cold weather!

If normal heating is insufficient, now is a good time to check the engine earth strap.

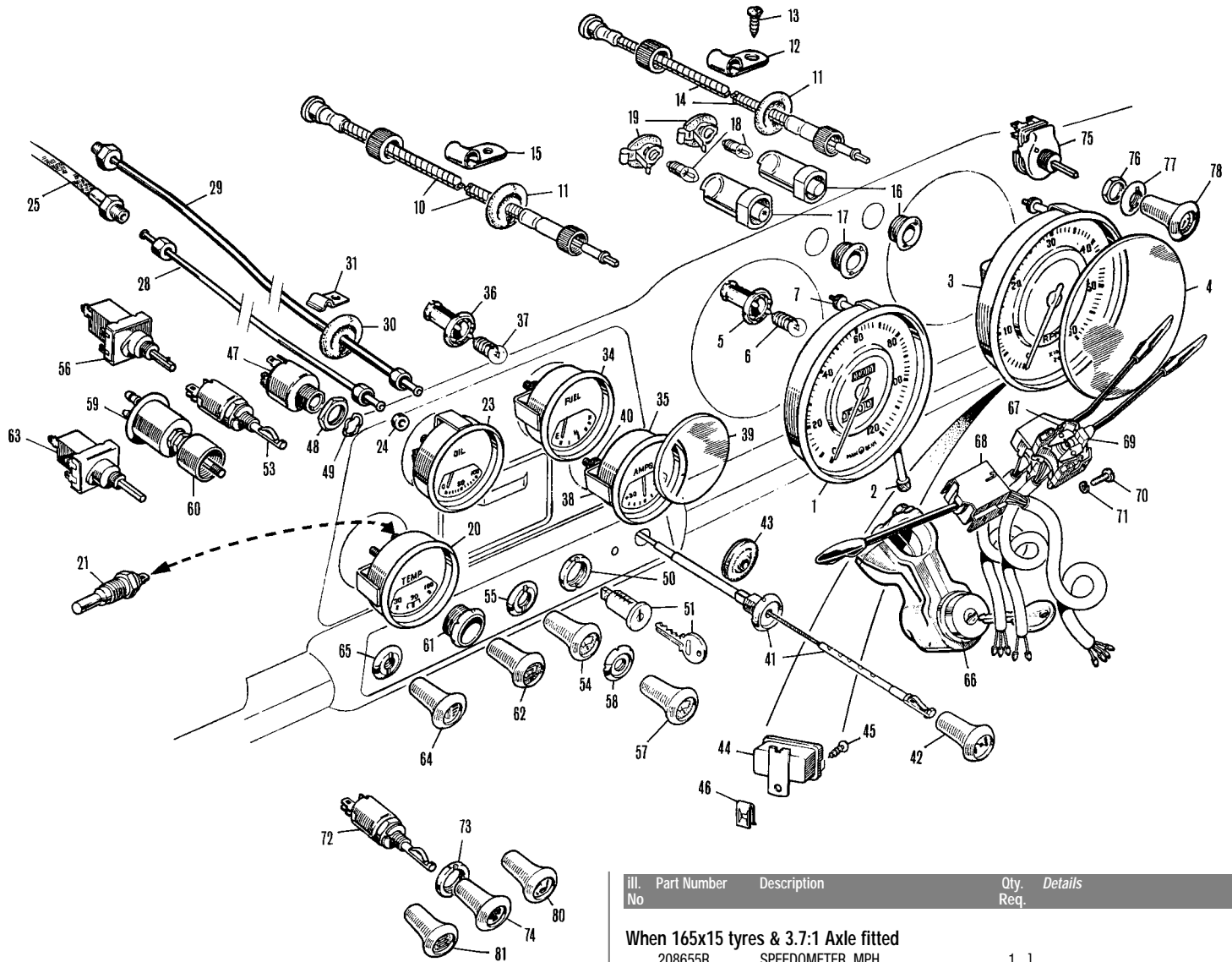
Ill. No	Part Number	Description	Qty. Req.	Details
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Instrument Identification (All Models)

Instruments from the TR2 to the TR4 range appear basically similar. There are however, several important differences which make their interchange hazardous, but compared to the problem of their scarcity, this is minor. It is not recommended to interchange the two basic types of 5" instruments. Not only is the clamping arrangement different, the fascia wiring would also require drastic alteration. Due to this, the best consideration would be to get a matching set of the six instruments that were originally fitted to your car.



We have listed the Smiths reference numbers that are stamped on the face of the instruments to help you determine which ones are fitted to your car. We adopt a 'one-for-one' and 'like-for-like' exchange. We have illustrated here a side view of the 5" gauges and a frontal view of the different temperature gauges to help in identifying the different castings and facings for the 4 cylinder TR Range.



Ill. No	Part Number	Description	Qty. Req.	Details
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Instruments, Cables & Dash Switches TR4 & TR4A

Although the list of part numbers relating to speedometers looks daunting, in reality there are only two types: The early TR4 one (facially similar to the TR2/3/3A type, including the use of domed glass), and the flat glass type used for the rest of the TR4's and all TR4As. We have listed the Smiths reference numbers that are stamped on the face of the instruments, to help you determine what is fitted to your car.

Speedo's were calibrated differently for all the tyre sizes supplied as O.E. on both models, and then as many again for the two O.E. axle ratios. Over the years, these instruments may have been swapped about, and flat/domed glass mismatched. Modern, low profile tyres can be another complication.

This instrument is available on an exchange basis and can be re-calibrated to suit the tyres and axle ratio fitted.

When 6.95x15 (550/590x15) tyres & 3.7:1 Axle fitted

Ill. No	Part Number	Description	Qty. Req.	Details
1	208062R	SPEEDOMETER, MPH (SN6313/09, 1184 turns)	1	TR4 to CT15053 (RHD) & CT11307 (LHD)
	208063R	SPEEDOMETER, KPH (SN6313/10, 740 turns)	1	
	209182R	SPEEDOMETER, MPH (SN6325/00A, 1184 turns)	1	TR4 from CT15054 (RHD) & CT11308 (LHD), TR4A
	209183R	SPEEDOMETER, KPH (SN6325/01A, 740 turns)	1	

When 6.95x15 (550/590x15) tyres & 4.1:1 Axle fitted

Ill. No	Part Number	Description	Qty. Req.	Details
	208066R	SPEEDOMETER, MPH (SN6313/11, 1312 turns)	1	TR4 to CT15053 (RHD) & CT11307 (LHD)
	208067R	SPEEDOMETER, KPH (SN6313/12, 820 turns)	1	
	209184R	SPEEDOMETER, MPH	1	TR4 from CT15054 (RHD) & CT11308 (LHD), TR4A
	209185R	SPEEDOMETER, KPH	1	

Ill. No	Part Number	Description	Qty. Req.	Details
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When 165x15 tyres & 3.7:1 Axle fitted

	208655R	SPEEDOMETER, MPH (SN6313/19, 1152 turns)	1	TR4 to CT15053 (RHD) & CT11307 (LHD)
	208656R	SPEEDOMETER, KPH (SN6313/20, 720 turns)	1	
	209188R	SPEEDOMETER, MPH (SN6325/02A, 1152 turns)	1	TR4 from CT15054 (RHD) & CT11308 (LHD), TR4A
	209189R	SPEEDOMETER, KPH (SN6325/03A, 720 turns)	1	

When 165x15 tyres & 4.1:1 Axle fitted

	208657R	SPEEDOMETER, MPH (SN6313/17, 1280 turns)	1	TR4 to CT15053 (RHD) & CT11307 (LHD)
	208658R	SPEEDOMETER, KPH (SN6313/18, 800 turns)	1	
	209186R	SPEEDOMETER, MPH	1	TR4 from CT15054 (RHD) & CT11308 (LHD), TR4A
	209187R	SPEEDOMETER, KPH	1	

All Types/Models

2	503465	TRIP, flexible	1	
3	208090R	REV COUNTER (RN1409/02, domed glass)	1	TR4 to CT15053 (RHD) & CT11307 (LHD)
	209194R	REV COUNTER (RN1417/00, flat glass)	1	
4	502268	GLASS, domed, large	2	
	502268F	GLASS, flat, large	2	
5	508139	BULB HOLDER, illumination	2	speedometer & rev counter
6	GLB987	BULB, illumination	2	
7	MM361-035	KNURLED NUT, large	4	
10	504607	CABLE, speedometer, 78"	1	RHD standard gearbox
	GSD169	CABLE, speedometer, 69"	1	LHD standard gearbox
	GSD169	CABLE, speedometer, 69"	1	all models with overdrive
11	602037	GROMMET	2	

Ill. No	Part Number	Description	Qty. Req.	Details
12	CP105081	CLIP	1	speedo' cable to bulkhead RHD
	CP105081	CLIP	1	speedo' cable, to valance LHD
13	GHF425	SCREW, securing clip	1	
14	GSD111	CABLE, rev counter, 48"	1	RHD
	504619	CABLE, rev counter, 36"	1	LHD
15	AEU1581A	CLIP, cable to battery carrier hook	1	
16	128378	WARNING LAMP, indicator	1	green
17	501347	WARNING LAMP, ignition	1	red
18	GLB987	BULB	2	
19	502342	BULB HOLDER, warning lamps	2	
20	131060R	TEMPERATURE GAUGE, F° (BT2300/00, domed glass)	1	TR4 to CT15053 (RHD) & to CT11307 (LHD)
	131061R	TEMPERATURE GAUGE, C° (BT2300/01, domed glass)	1	TR4 to CT15053 (RHD) & to CT11307 (LHD)
	133124R	TEMPERATURE GAUGE, F° (BT2203/00, flat glass)	1	TR4 /4A from CT15054 (RHD) & CT11308 (LHD) to CTC62636
	133119R	TEMPERATURE GAUGE, C° (BT2203/01, flat glass)	1	TR4/4A from CT15054 (RHD) & CT11308 (LHD) to CTC62636
	145594R	TEMPERATURE GAUGE, CNH (BT2203/03, flat glass)	1	TR4A from CT62637
21	GTR104	TEMPERATURE TRANSMITTER	1	
23	106966R	OIL PRESSURE GAUGE, lbs. (PL2561/00, domed glass)	1	TR4 to CT15053 (RHD) CT11307 (LHD)
	133120R	OIL PRESSURE GAUGE, lbs. (PL2302/22, flat glass)	1	TR4 from CT15054 (RHD) & CT11308 (LHD), TR4A
	110896R	OIL PRESSURE GAUGE, kilo's (PL2561/01, domed glass)	1	TR4 to CT15053 (RHD) & CT11307 (LHD)
	113121R	OIL PRESSURE GAUGE, kilo's (PL2302/23, flat glass)	1	TR4 from CT15054 (RHD) & CT11308 (LHD), TR4A
24	2K4936	WASHER, leather, sealing	1	pipe to gauge
25	102238	FLEXIBLE HOSE, stainless steel braided	1	early TR4
<i>The above hose links the oil pressure gauge pipe on the engine to the one on the bulkhead.</i>				
28	202973	RIGID PIPE, on bulkhead to gauge	1	early TR4
29	138308	NYLON PIPE	1	TR4/4A
<i>This replaces the flexible and rigid pipes listed above, in that it goes direct from the oil pipe (see page 6, item 20) leading from the oil filter head to the bulkhead, to the oil pressure gauge. Listed as an 'alternative' to 202793 in the Triumph parts book, but standard on all TR4's.</i>				
30	600395	GROMMET	1	
31	059380	CLIP, oil pressure pipe to bulkhead	2	
34	130539R	FUEL GAUGE (BF2301/00, domed glass)	1	TR4 to CT15053 (RHD) & CT11307 (LHD)
	133118R	FUEL GAUGE (BF2206/00, flat glass)	1	TR4 from CT15054 (RHD) & CT11308 (LHD), TR4A
35	125111R	AMMETER, Lucas (36264A/D, domed glass)	1	TR4 to CT15053 (RHD) & CT11307 (LHD)
	133117R	AMMETER, Lucas (26313B, flat glass)	1	TR4 from CT15054 (RHD) & CT11308 (LHD), TR4A
36	508139	BULB HOLDER, illumination	4	auxiliary gauges
37	GLB987	BULB, illumination	4	
38	136643	BRACKET, ammeter	1	metal fascia
	136642	BRACKET, ammeter	1	veneered fascia
39	502269	GLASS, domed, small	4	
	502269F	GLASS, flat, small	4	
40	MM361-025	KNURLED NUT, small	1	
41	401894	CHOKE CABLE	1	TR4 fitted with H6 carb's TR4A fitted with HS6 carb's
	401900/1	CHOKE CABLE	1	TR4/4A fitted with Zenith Stromberg 175CD carb's
42	704873 †	KNOB, choke cable	1	
43	061917	GROMMET, in bulkhead	1	
44	128484	VOLTAGE STABILISER	1	
<i>The voltage stabiliser supplies power to the fuel and water temperature gauges. Apparent high water temperature, or unbelievably low fuel consumption is often attributable to stabiliser failure. It's usually tucked in a particularly inaccessible place on the bulkhead sides, partially hidden by carpeting.</i>				
45	GHF423	SCREW, voltage stabiliser	1	
46	GHF712	SPIRE CLIP	1	
47	127651	IGNITION SWITCH	1	
48	510369	NUT	1	
49	128087	WASHER	1	
50	609793	BEZEL	1	
51	24G1345	LOCK BARREL, with key	1	

Ill. No	Part Number	Description	Qty. Req.	Details
53	BHA4280	WIPER SWITCH, single speed	1	
54	704875 †	KNOB, wiper switch	1	TR4
55	609933	BEZEL	1	
56	BCA4294	WIPER SWITCH, two speed	1	
57	704875	KNOB, wiper switch	1	TR4 (optional), TR4A (all)
58	609795	BEZEL	1	
59	GWW110	PUMP, screen washer	1	
60	609526	SPACER	1	
61	609919	BEZEL	1	
62	609946 †	KNOB	1	
63	BCA4294	SWITCH, side and headlamps	1	
64	704885 †	KNOB, side and headlamps	1	TR4
65	609795	BEZEL	1	
66	132135	IGNITION SWITCH & LOCK	1	Germany only
67	142579	LIGHTING SWITCH	1	TR4A RHD
	159358	LIGHTING SWITCH	1	TR4A LHD
68	158966	INDICATOR SWITCH	1	
69	132424	SWITCH, overdrive, chrome	1	TR4/4A
	147281	SWITCH, o/drive, black stalk, RHD	1	alternative switches
	147280	SWITCH, o/drive, black stalk, LHD	1	
70	TP402	SCREW, switch	1	
71	WE604	WASHER, shake-proof	1	
72	BHA4280	SWITCH, heater fan	1	
73	609933	BEZEL, fan switch	1	
74	704883 †	KNOB, for heater fan	1	
75	BHA4278	RHEOSTAT, panel illumination	1	
76	510368	NUT	1	
77	609795	BEZEL	1	

Dash Knob Set

Ni	GKS6003X	DASH KNOB SET	1	(inc. items marked †)
78	704879 †	KNOB, rheostat	1	
42	704873 †	KNOB, choke cable	1	
54	704875 †	KNOB, wiper switch	1	
62	609946 †	KNOB, screen washer	1	
64	704885 †	KNOB, side and headlamps	1	
74	704883 †	KNOB, heater fan	1	
78	704879 †	KNOB, rheostat	1	
80	704881 †	KNOB, heater, air distribution	1	
81	704884 †	KNOB, heater valve	1	

Beware the Engine Earthing Strap

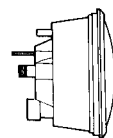
To enable any flow of electricity to occur, a complete loop must be maintained from one connection of the battery to the other.

To enable a greater flow of electricity, a more substantial link is required between connections. Starting the engine (especially in cold conditions), requires a massive surge of battery power (up to 200 amperes of current, which flows from the battery terminal to the starter motor) and then to the other terminal any way it can.

To make this flow easier, an electrical 'motorway' is provided in the form of the engine earth strap, allowing current to flow from the engine to the body shell and back to the battery with ease. A frayed, damaged or badly corroded earth connecting strap causes the electrical equivalent of a traffic jam, then the current just looks for some other way of returning to battery.

The choke cable seems especially popular, its wire wound casing turning rapidly to a heater element, providing extra assistance in cold weather!

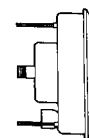
If normal heating is insufficient, now is a good time to check the engine earth strap.



TR2/3/3A, TR4



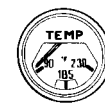
TR4



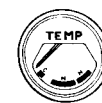
TR4A



TR2/3/3A, TR4



TR4/4A



TR4A

Instrument Identification (All Models)

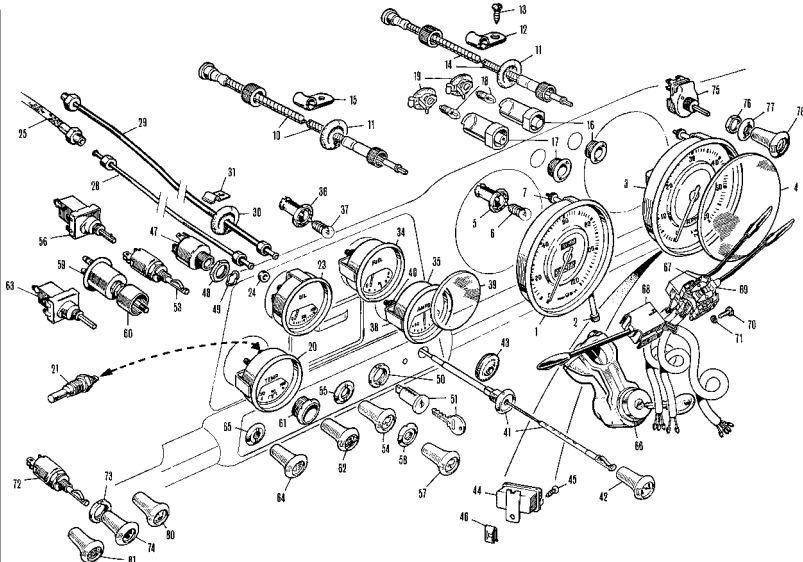
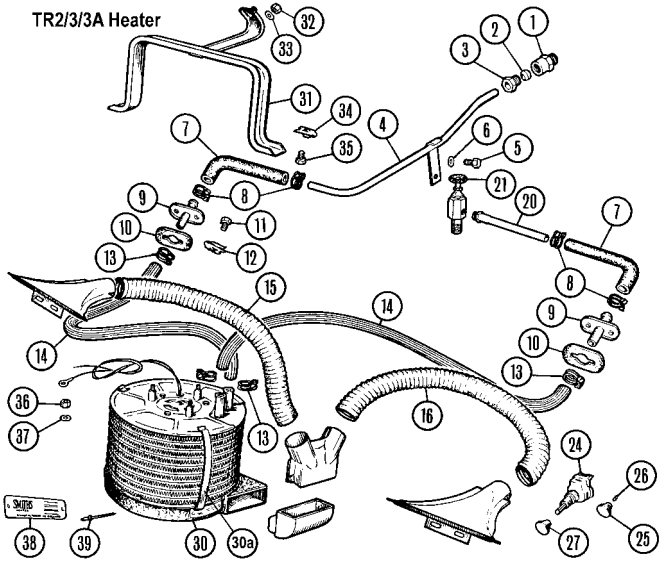
Instruments from the TR2 to the TR4 range appear basically similar.

There are however, several important differences which make their interchange hazardous, but compared to the problem of their scarcity, this is minor. It is not recommended to interchange the two basic types of 5" instruments. Not only is the clamping arrangement different, the fascia

wiring would also require drastic alteration. Due to this, the best consideration would be to get a matching set of the six instruments that were originally fitted to your car.

We have listed the Smiths reference numbers that are stamped on the face of the instruments to help you determine which ones are fitted to your car. We adopt a 'one-for-one' and 'like-for-like' exchange.

We have illustrated here a side view of the 5" gauges and a frontal view of the different temperature gauges to help in identifying the different castings and facings for the 4 cylinder TR Range.



Ill. No	Part Number	Description	Qty. Req.	Details
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TR2/3/3A Models

1	101343	ADAPTOR, water pump housing	1	
2	TL11	OLIVE brass	1	
3	101302	NUT	1	
4	201947	PIPE, from w/pump housing	1	
5	SH504051	SCREW, pipe to engine	1	
6	GHF331	WASHER, locking	1	
7	105176	HOSE, bulkhead to engine	2	
8	CS4011	CLIP, engine compartment hoses	4	
9	601950	ADAPTOR, bulkhead	2	
10	601951	PAD, rubber	2	
11	GHF405	SCREW, adaptor to bulkhead	4	
12	FU2585	SPIRE NUT	4	
13	CS4013	CLIP, 'under dash' hoses	4	
14	602057	HOSE, heater inlet & outlet	2	standard
	602057X	HOSE, heater inlet & outlet	2	Silicone
15	602056	HOSE, demister, LH	1	
16	602055	HOSE, demister, RH	1	
20	107994	PIPE, heater valve extension	1	
21	100399	VALVE, heater control	1	
24	57H5260	SWITCH, rheostat (heater fan)	1	

Two different switches were originally fitted: the earlier used a knob retained by a screw, the later type used a push-on knob retained by a spring-loaded stud. Switches supplied are the later type.

25	500513	KNOB, screw retained	1	
26	500513S	SCREW, for knob	1	
27	509735	KNOB, push-on	1	
30	700899	HEATER ASSEMBLY	1	
	700899M	MATRIX, in heater (3" deep)	1	
	700899M/4	MATRIX, in heater (4" deep)	1	
30a	17H1595	CLIPS (3")	2	
	17H1595B	CLIPS (4")	2	
31	700855	BRACKET, heater support	1	
32	GHF200	NUT, plain	1	
33	GHF331	WASHER, locking	1	
34	FJ24074	SPIRE CLIP	2	
35	UL2706	ACME SCREW	2	heater to support fixing
36	GHF200	NUT, plain	3	
37	GHF331	WASHER, locking	3	
38	CRCP302	NAME PLATE, 'Smiths'	1	
39	RU608123	RIVET, name plate	2	

Dash Knob Sets

NI	GKS6001X	DASH KNOB SET	1	
	106685	KNOB, side & h/lamp switch	1	TR2/3, early TR3A
	107680	KNOB, panel light switch	1	
	109311	KNOB, starter switch	1	
	106689	KNOB, wiper switch	1	
	107764	KNOB, choke cable	1	
NI	GKS6002X	DASH KNOB SET	1	
	106685	KNOB, side & h/lamp switch	1	late TR3A
	125677	KNOB, panel light switch	1	
	109311	KNOB, starter switch	1	
	106689	KNOB, wiper switch	1	
	107764	KNOB, choke cable	1	

Ill. No	Part Number	Description	Qty. Req.	Details
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TR4/4A Models

45	101343	ADAPTOR, water pump housing	1	
46	208606	PIPE, pump housing to bulkhead	1	
47	TL11	OLIVE, brass	1	
48	101302	NUT	1	
49	CS4011	CLIP, water hoses	8	
50	GZA1336	HOSE, pipe to bulkhead	1	
51	611043	ADAPTOR, through bulkhead	1	
52	611040	PAD, rubber	1	
53	GHF403	SCREW, adaptor to bulkhead	2	
54	GHF712	SPIRE NUT	2	
55	623285	HOSE, heater outlet	1	
58	623284	HOSE, heater inlet	1	
59	627310	HOSE, bulkhead to valve	1	standard
	627310X	HOSE, bulkhead to valve	1	silicone
60	565755	VALVE, heater control	1	
61	133061	ADAPTOR, valve to cyl head	1	
62	24G1482	TRUNNION, cable clamp	2	
63	53K1016	SCREW, in trunnion	2	
64	611825	HOSE, demister, RH	1	
65	611826	HOSE, demister, LH	1	
66	CS4025	CLIP, demister hoses	4	
67	610181	OUTLET, demister	2	
68	806740	DUCT, demister, LH	1	
69	806741	DUCT, demister, RH	1	
70	611284	CABLE ASSEMBLY, heater control	1	
71	566407	BEZEL	1	
72	704884*	KNOB, heater control	1	
73	600395	GROMMET, cable	1	
74	BHA4280	SWITCH, heater fan	1	plain knob & bezel
75	609933	BEZEL, (original type)	1	
76	704883*	KNOB, fan switch	1	
79	612262	CABLE ASSEMBLY	1	air duct control
80	566407	BEZEL	1	
81	704881*	KNOB, air duct control	1	
*These knobs are included in dash knob set, part no. GKS6003X				
82	812301	HEATER ASSEMBLY	1	
	812301M	MATRIX, in heater	1	
	812301MTR	MOTOR, in heater	1	
	812301FAN	FAN, on motor	1	
NI	812301X	HEATER KIT, uprated	1	
Kit has a uprated motor & high(er) volume fan.				
NI	812301XM	FAN MOTOR	1	
NI	812301XF	FAN	1	
83	GHF101	SCREW, heater to bulkhead	3	
84	WP167	WASHER, plain	3	
85	566375	WASHER, locating	3	
86	566374	SPACER	3	
87	GHF200	NUT, plain	1	
88	WM57	WASHER, plain	1	
89	612241	WASHER, rubber	1	
90	CRCP302	NAME PLATE, 'Smiths'	1	
91	CRCP303	INFORMATION PLATE	1	'Drain Warning'
92	RU608123	RIVET (name plate)	4	

Ill. No	Part Number	Description	Qty. Req.	Details
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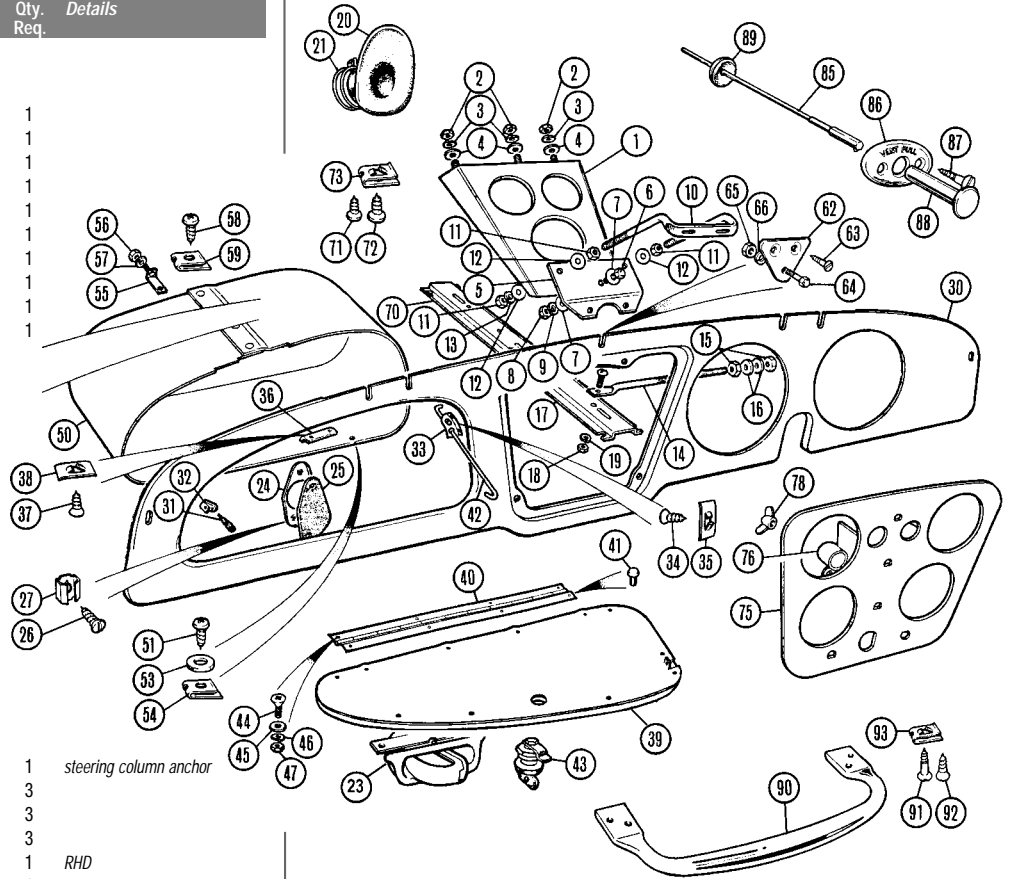
Dash Knob Set

NI	GKS6003X	DASH KNOB SET	1	
	704879	KNOB, rheostat	1	
	704873	KNOB, choke cable	1	
	704875	KNOB, wiper switch	1	
	609946	KNOB, screen washer	1	
	704885	KNOB, side and headlamps	1	
	704883	KNOB, heater fan	1	
	704879	KNOB, rheostat	1	
	704881	KNOB, heater, air distribution	1	
	704884	KNOB, heater valve	1	

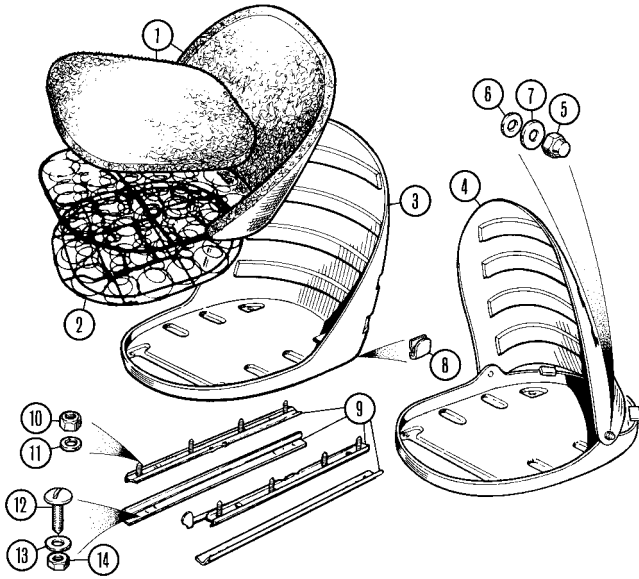
Dash (Fascia) TR2/TR3/3A

This section has been included in detail to assist TR builders whose vehicles arrived in buckets. Under fascia fittings are often unrecognisable as to their true destination, especially when converting a LHD donor car to RHD. Correct fitment will go some way to removing that 'quivering jelly' feeling at the wheel and hold the instruments still long enough to you read them.

1	701160	BRACKET	1	steering column anchor
2	GHF200	NUT, bracket to fascia panel	3	
3	GHF331	WASHER, locking	3	
4	GHF300	WASHER, plain	3	
5	701158	BRACKET & STIFFENER	1	RHD
	701157	BRACKET & STIFFENER	1	LHD
6	SH605071	SCREW	5	bracket & stiffener to anchor
7	WP17	WASHER, plain, on screw	2	
8	GHF201	NUT, locking screw	1	
9	GHF332	WASHER, locking	1	
10	602860	SUPPORT, steering column	1	
11	GHF201	NUT, support	4	to stiffener & anchor bkt
12	WP17	WASHER, plain	4	
13	GHF332	WASHER, locking	2	
14	602790	ROD, tie	1	steering column to fascia stay
15	GHF201	NUT	2	
16	GHF301	WASHER, plain	2	
17	HU706P	SCREW, tie rod to fascia stay	1	
18	GHF201	NUT	1	
19	GHF331	WASHER, locking	1	
20	701106	GROMMET	1	steering column sealing
21	CS4025	CLIP, grommet attachment	1	
23	701019	ASHTRAY	1	one of many styles!
<i>Please choose fixings required from General Hardware & Fittings on page 216.</i>				
24	601961	PLATE, retaining sealing pad	1	RHD
	601962	PLATE, retaining sealing pad	1	LHD
25	603346	PAD, sealing steering	1	column aperture
26	YJ2565	SCREW, retaining plate	2	
27	FC2805	NUT, spire	2	
30	900381	FASCIA PANEL	1	RHD
	900382	FASCIA PANEL	1	LHD
31	CD28789	BUFFER, cubby box lid	1	
32	601967	BRACKET, for buffer	1	
33	601968	BRACKET, buffer and check rod	1	RHD
	601969	BRACKET, buffer and check rod	1	LHD
34	GHF400	SCREW, bracket to fascia panel	3	
35	PFS103	NUT, spire	3	
36	601972	STRIKER PLATE, cubby box lock	1	
37	GHF400	SCREW	2	
38	PFS103	SPIRE NUT	2	
39	601985	CUBBY BOX LID	1	RHD
	601986	CUBBY BOX LID	1	LHD
40	601971	HINGE, cubby box	1	
41	RU608123	RIVET, round head	4	
42	601973	CHECK ROD, cubby box lid	1	
43	602139	CUBBY BOX LOCK	1	
44	501555	SCREW	4	(cubby box lid hinge to fascia panel)



Ill. No	Part Number	Description	Qty. Req.	Details
45	WP3	WASHER	4	
46	HN2003	NUT	4	
47	WL203	WASHER, locking	4	
50	800537BBY	CUBBY BOX, Black	1	RHD
	800537RED	CUBBY BOX, Red	1	
	800538BBY	CUBBY BOX, Black	1	LHD
51	GHF423	SCREW, cubby box to fascia	2	
	GHF424	SCREW, cubby box to fascia	1	
	WP127	WASHER, plain	1	
53	GHF712	SPIRE NUT, for above screws	3	
55	602048	BRACKET ASSEMBLY	1	rear cubby box support
56	HN2005	NUT, bracket attachment	1	
57	WL700101	WASHER	1	
58	GHF424	SCREW	1	
59	GHF712	SPIRE NUT	1	
62	601984	BRACKET, fascia	1	centre fixing
	601964	BRACKET, fascia	2	outer fixing
63	SP87K5	SCREW, fascia	4	outer bracket to scuttle rim
64	HU706P	SCREW, fascia	5	fascia panel to scuttle rim
65	GHF200	NUT, fascia	7	
66	GHF331	WASHER, locking, under nut	7	
70	601939	STAY, fascia panel to battery box	2	
71	GHF425	SCREW, stay	4	
72	GHF426	SCREW, stay	4	
73	FU2585	SPIRE NUT, for GHF425/6 screws	8	
75	608613	INSTRUMENT PANEL	1	
76	601979	SUPPORT, panel light, RH	1	
	601978	SUPPORT, panel light, LH	1	
78	V242	WING NUT	4	instrument panel to fascia
85	112019	VENT PULL	1	
86	603416	ESCUTCHEON	1	
87	SP87K5	SCREW, escutcheon	2	
88	111258	KNOB	1	
89	061917	GROMMET, for cable	1	
90	603088	GRAB HANDLE, chrome	1	
<i>TR2's originally had a grab handle finished in Black.</i>				
<i>We supply the later all chrome type, which is a direct replacement.</i>				
91	SP87K7CP	SCREW, countersunk, chrome	2	TR2/3, TR3A to TS60000
92	AD610063	SCREW, self tapping, chrome	2	TR3A from TS60001
93	GHF713	SPIRE NUT	2	



Ill. No	Part Number	Description	Qty. Req.	Details
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Seat Frame & General Seat Fittings TR2/TR3/3A

See page 06, for TR2/TR3 Trim.

1	SFK6111	SEAT PADDING KIT	1	
2	700969	SEAT SPRING	2	TR2/3
	555439	SEAT SPRING	2	TR3A
3	900427	SEAT FRAME, fixed back	2	TR2, both seats TR3, driver side
	901208	SEAT FRAME, fixed back	1	
4	900913	SEAT FRAME, tilt back	1	TR3, passenger side
	901209	SEAT FRAME, tilt back	1	TR3A, passenger side
5	14B1981	ACORN NUT, chromed	2	passenger seat
6	GHF315	WASHER, packing	2	TR3/3A
7	WA108052	WASHER, chrome	2	
8	ANK5046A	CLIP, seat cover	a/r	
9	MM801-400	SEAT RAIL SET, RH seat	1	(4 piece)
	MM801-405	SEAT RAIL SET, LH seat	1	
10	GHF200	NUT, plain, seat pan to slides	16	
11	GHF331	WASHER, locking	16	
12	552433	SCREW, seat slide to floor	12	
13	GHF300	WASHER, plain	12	
14	GHF200	NUT, plain, seat slide to floor	12	(use in place of captive nuts)

Our replacement floors (see pages 186), do not come with captive nuts and cages.

Fitment of the captive nuts and cages make seat installation much easier.

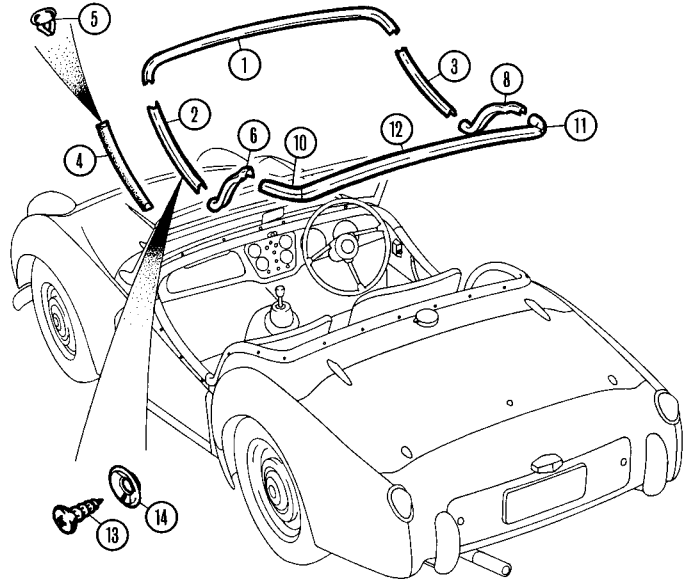
NI	CN1	NUT, square	a/r	
NI	CN2	CAGE for square nut	a/r	
NI	CN3	CAGE for square nut	a/r	elongated type

INTERIOR TRIM & FITTINGS

We not only stock High Quality interior trim for Classic TR's, we also manufacture it in our own upholstery shop.

So whether you are planning a complete restoration or just wish to renew your seat covers, we really do have everything you need.

For full detailed listings please refer to 'Interior Trim' (pages 3 to 13) in the Accessory section.

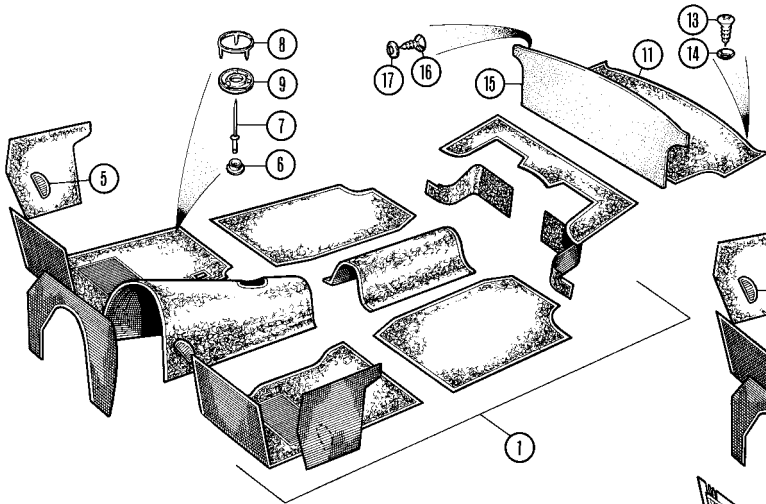


Ill. No	Part Number	Description	Qty. Req.	Details
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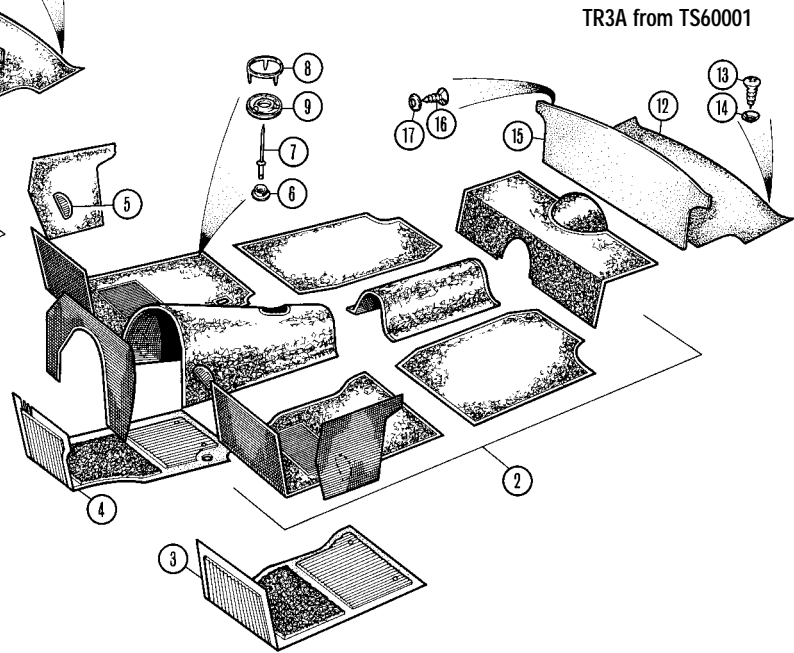
Cockpit Cappings TR2/TR3/3A

The cockpit of the TR was surrounded by trimmed aluminium pressings, which covered up a variety of unsightly welded joints, such as: like the top bulkhead and rear quarter panels. Although we have embarked on an extensive hunt to find someone to tool these and to produce them in the original aluminium, we have been unsuccessful – although TR3A's did have steel door and quarter panel covers. A few items have become available, largely fabricated in steel rather than aluminium, and we offer these as part of our range. To compliment these correct specification products, we have added a range made in fibreglass. Normally one would be extremely reluctant to replace an original metal fitment with fibreglass, but in this case, when correctly covered, no one need ever know. (When one considers the modern technologies available, it is almost certain that this item, if it were fitted today, would be either fibreglass or injection moulded plastic.) The vinyl used to cover these items comes in all our trim kits in strip form, and we believe that these fibreglass 'look-a-likes' will be sufficient for all but the absolute purists. In our descriptions (below), we use the part numbers of the original aluminium (or steel) components with an FG at the end to indicate they are of fibreglass construction.

1	900490FG	FASCIA CAPPING,	1	fibreglass
	703212	DOOR CAPPING, LH	1	steel
	800588FG	DOOR CAPPING, LH	1	fibreglass
3	703213	DOOR CAPPING, RH	1	steel
	800589FG	DOOR CAPPING, RH	1	fibreglass
4	559365	SPONGE CORE, door edge roll	2	
5	606848	BUTTON, door edge roll end	4	TR3A
6	700936FG	ELBOW CAPPING, LH	1	fibreglass, TR2/3
	703214FG	ELBOW CAPPING, LH	1	fibreglass, TR3A
8	700937FG	ELBOW CAPPING, RH	1	fibreglass, TR2/3
	703215FG	ELBOW CAPPING, RH	1	fibreglass, TR3A
10	602131FG	TONNEAU CAPPING, side, LH	1	fibreglass
11	602132FG	TONNEAU CAPPING, side, RH	1	
12	900389FG	TONNEAU CAPPING,	1	
13	AB604062	SCREW, capping	10	
14	SP132BCP	CUP WASHER	10	



TR2/TR3 & TR3A to TS60000



TR3A from TS60001

Ill. No	Part Number	Description	Qty. Req.	Details
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Carpet Sets TR2/TR3/3A

1 & 2		CARPET SET, Wool	1	For full details/listings please refer to 'Interior' section. (Pages 3 to 13)
1 & 2		CARPET SET, Standard	1	

TR3A Rubber Floor mats

(See also 'Interior' section in Accessories)

We offer the correct rubber mats for the TR3A floors, including the durable 'dot' fasteners to secure the rubber mats to the floor and front bulkhead area; these mats can also be fitted to TR2/3.

3	701237	RUBBER FLOOR MAT, LH	1
4	701238	RUBBER FLOOR MAT, RH	1

Carpet Hardware & Consumables

5	602221	TOE PAD, carpet protection	4
6	610624	STUD	a/r
7	RU608123	RIVET, for use with stud	a/r
8	14G8736	SPIKE RING	a/r
9	CD23803	FASTENER	a/r
NI	UBS110	ADHESIVE, tin (500ml)	a/r
NI	UBS203	ADHESIVE, aerosol (200ml)	a/r

Boot Carpet & Trim

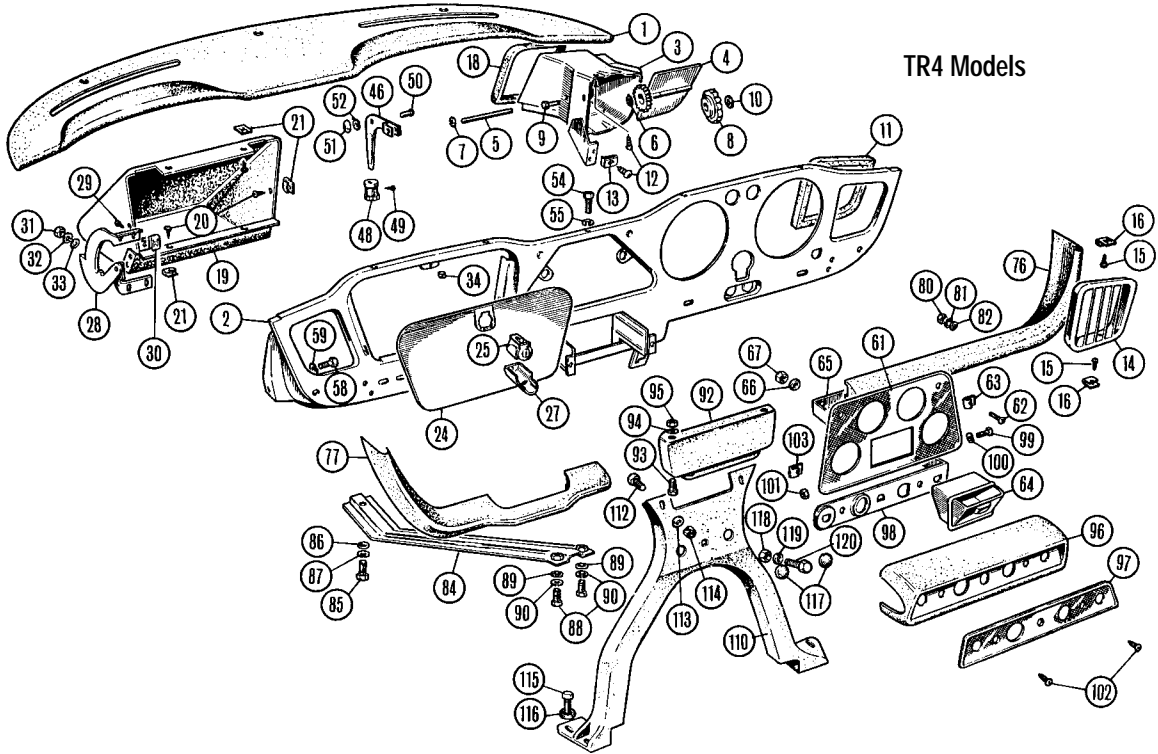
The original boot floor covering for TR2/3 models was a piece of carpet material cut to the exact shape of the floor. TR3A's were fitted with a Black Hardura boot mat, also cut to fill out the boot area.

11	552259	BOOT CARPET, Black	1	TR2/3
12	556900	BOOT MAT, hardura	1	TR3A
13	AD604062	SCREW	4	
14	SP132BCP	CUP WASHER	4	
15	950058	COVER PANEL, fuel tank	1	
16	AD604062	SCREW, cover	10	
17	SP132BCP	CUP WASHER	10	

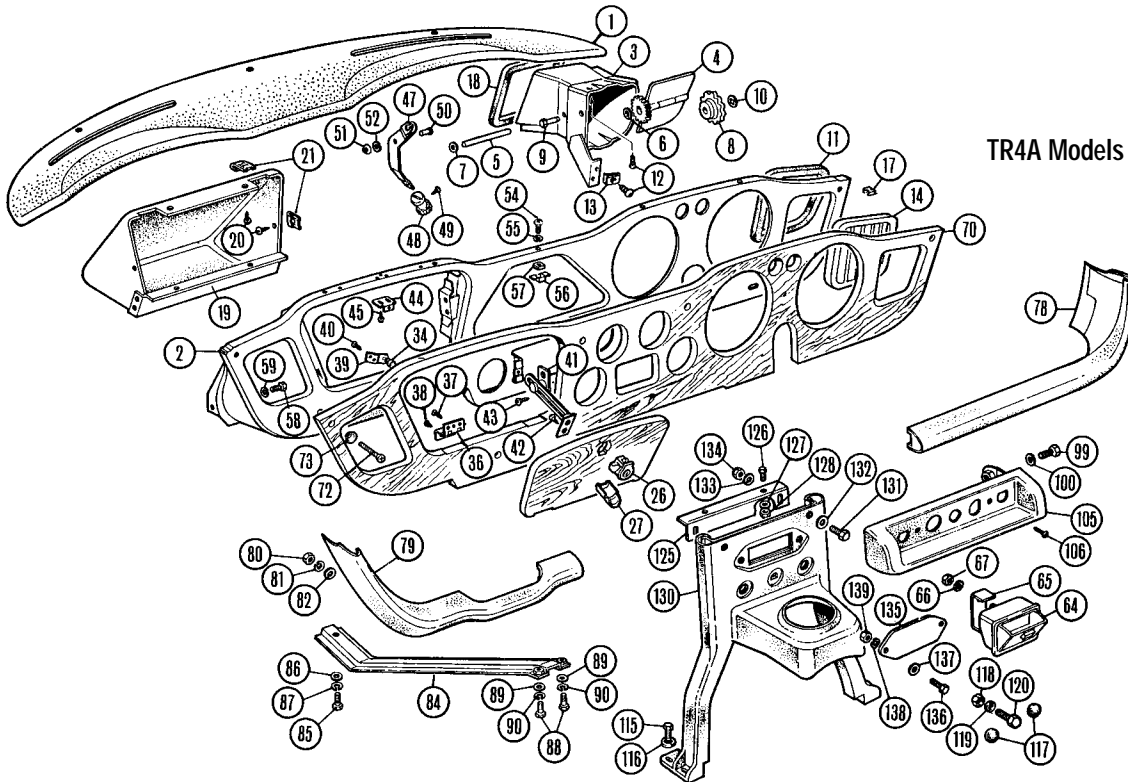
Ill. No	Part Number	Description	Qty. Req.	Details
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Trim Fixings & Fittings All Models

552964		'TENAX' FASTENER	a/r	
551684		NUT, for Tenax fastener	a/r	
553827		'TENAX' PEG, threaded	a/r	3/32" long
TFP1006		'TENAX' PEG, threaded	a/r	7/16" long
TFP1010		'TENAX' PEG, threaded	a/r	5/8" long
WL700101		WASHER, locking, peg to nut	a/r	
GHF206		NUT, for 'Tenax' peg	a/r	
552391		'TENAX' PEG	a/r	wood screw
552392		'TENAX' PEG	a/r	self tapping, metal
2K4936		LEATHER WASHER	a/r	'Tenax' peg
97H717X		PEG, 'lift-the-dot', threaded	a/r	original
97H717		PEG, 'lift-the-dot', threaded	a/r	aftermarket
WL700101		WASHER, locking	a/r	peg to nut
GHF206		NUT, for 'lift-the-dot' peg	a/r	
552667		PEG, 'lift-the-dot'	a/r	wood screw
552670		PEG, 'lift-the-dot'	a/r	self tapping, metal
2K4936		LEATHER WASHER,	a/r	'Tenax' peg
LFP116		PEG & PLATE, 'lift-the-dot'	a/r	short
611670		PEG & PLATE, 'lift-the-dot'	a/r	long
552650		SOCKET, 'lift-the-dot'	a/r	
552651		CLINCH PLATE, 'lift-the-dot',	a/r	for socket
610624		'DURABLE DOT' & 'Veltex' stud	a/r	
GHF400		SCREW, for stud	a/r	
RU608123		BLIND RIVET, for stud	a/r	
GHF600		POP RIVET, for stud	a/r	
7H9864		'DURABLE DOT' BUTTON	a/r	
7H9866		'DURABLE DOT' SOCKET	a/r	
7H9868		'DURABLE DOT' BASE	a/r	
14G8736		'VELTEX' SPIKED RING	a/r	
CD23803		'VELTEX' CLIP RING	a/r	
554021		VELTEX' STUD, long	a/r	carpet to floor
GHF1230		CLIP, door panel attachment	a/r	
AD604062		SCREW, chrome, self tapping	a/r	countersunk, no.4 x 3/4"
AD606063		SCREW, chrome, self tapping	a/r	countersunk, no.6 x 3/4"
AD608063		SCREW, chrome, self tapping	a/r	countersunk, no.8 x 3/4"
SP132BCP		CUP WASHER, chrome, no.4	a/r	
CD24152		CUP WASHER, chrome, no.6	a/r	
CD24153		CUP WASHER, chrome, no.8	a/r	
GHF1560		CLIP, outer window weather strip	a/r	
GHF1582		CLIP, inner window weather strip	a/r	
UBS110		ADHESIVE, tin (500ml)	a/r	
UBS203		ADHESIVE, aerosol (200ml)	a/r	



TR4 Models



TR4A Models

Ill. No	Part Number	Description	Qty. Req.	Details
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**Dash (Fascia)
TR4 & TR4A**

1	904115	PAD, dash top	1	
2	903997	FASCIA PANEL - METAL	1	TR4A RHD
	903996	FASCIA PANEL - METAL	1	TR4A LHD

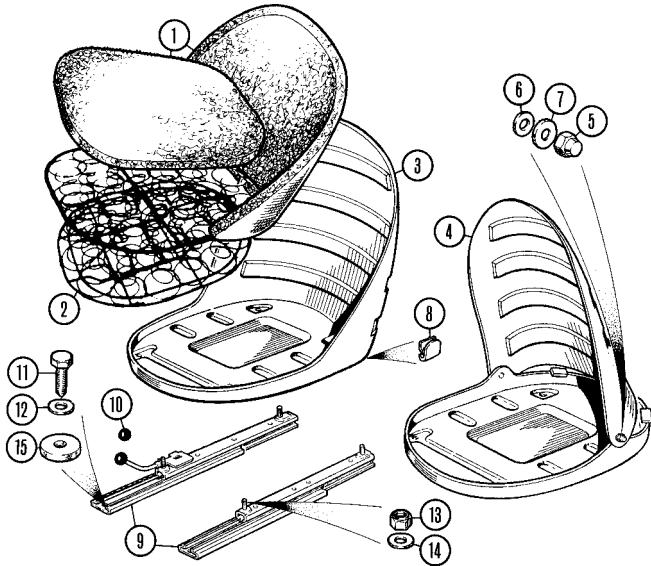
Can be used for the TR4 with very minor alterations to the area where the support bracket (item 110) is attached. If a wooden veneered fascia is to be fitted, again, the area above the support bracket may need slight 're-carpentering'. The wooden fascia was a factory option for the TR4.

Ill. No	Part Number	Description	Qty. Req.	Details
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3	705217	DUCT, fresh air control, RH	1	
	705216	DUCT, fresh air control, LH	1	
4	610415	VALVE, air control, RH	1	
	610414	VALVE, air control, LH	1	
5	610416	SPINDLE, air control valve	2	
6	WP167	WASHER, plain	2	
7	FX3203	SPIRE FIXING, retaining spindle	4	
8	610418	KNOB, control	2	
9	610513	PIVOT PIN, for control knob	2	
10	GHF704	SPIRE CLIP	2	
11	610777	SEAL, fresh air control	2	

Ill. No	Part Number	Description	Qty. Req.	Details	
12	AB606031	SCREW,	2	<i>air control bracket to fascia duct to fascia bracket</i>	
	AB606031	SCREW,	4		
13	GHF700	SPIRE CLIP	4		
14	705002	GRILLE, vent, RH	1		
	705001	GRILLE, vent, LH	1		
15	AB606031	SCREW, grille to fascia	4	TR4	
16	GHF711	SPIRE CLIP	4		
17	613018	CLIP, grille to fascia	8	TR4A	
18	610639	SEAL, duct to plenum chamber	2		
19	815747	CUBBY BOX	1		
20	AB606031	SCREW, cubby box to fascia	6		
21	GHF711	SPIRE CLIP	6		
24	705087	LID, cubby box	1	TR4 to CT21267	
	569482	LID, cubby box	1	TR4 from CT21268	
<i>Cubby box lids and hinges for the TR4 are not needed when the optional wooden fascia is fitted. These are supplied as part of the assembly.</i>					
25	609748	LOCK, cubby box	1	TR4	
26	611584	LOCK, cubby box	1	TR4A	
27	609463	FINGER PULL, cubby box lock	1	TR4/4A	
28	610259	HINGE, cubby box, LH	1	TR4	
	610260	HINGE, cubby box, RH	1		
29	AD606033	SCREW, hinge to cubby box	4		
30	GHF711	SPIRE NUT, hinge to cubby box	4		
31	HN2005	NUT, hinges to fascia panel	2		
32	WL700101	WASHER, locking	2		
33	PWZ203	WASHER, plain	2		
34	613863	BUFFER, cubby box lid	1		
36	611565	HINGE, cubby box lid	2	TR4A	
37	511668	SCREW, wood, hinge to lid	10		
38	511669	SCREW, wood, hinge to fascia	4		
39	612988	BRACKET, cubby box lid buffer	2		
40	TW402	SCREW, wood, bracket to fascia	4		
41	609745	LINK, check, cubby box lid	1		
42	510995	SCREW, wood, link to lid	2		
43	511670	SCREW, wood, link to fascia	2		
44	616275	BRACKET, striker, cubby box lock	1		
45	AB606031	SCREW, striker bracket to fascia	2		
46	601656	LEVER, vent	1		TR4
47	616333	LEVER, vent	1		TR4A
48	601678	KNOB, on lever	1		
49	AB608031	SCREW, knob to handle	1		
50	RR606	RIVET, lever to fascia	1		
51	FH3155	RETAINER	1		
52	AJD7722	WASHER, Thackery	1		
54	SE604041	SCREW, fascia to scuttle rail	5		
55	GHF331	WASHER, locking	5	TR4A	
56	CN1	NUT, square	5		
57	CN2	CAGE	5		
58	HU706P	SCREW, fascia to 'A' post	2		
59	GHF331	WASHER, locking	2		
61	610302	INSTRUMENT PANEL	1	TR4 to CT4398	
	612233	INSTRUMENT PANEL	1	TR4 from CT4399	
62	GHF423	SCREW, instrument panel to fascia	2	TR4	
63	FU25648	SPIRE NUT	2		
64	627503	ASH TRAY	1	TR4/4A	
<i>Ashtrays on TR4's were an optional extra.</i>					
65	612430	RETAINER, for ashtray	1		
66	WL700101	WASHER, locking	1		
67	HN2005	NUT	1		
70	903504BG	VENEERED DASH	1	TR4 RHD	
	903508BG	VENEERED DASH	1	TR4 LHD	
	904154BG	VENEERED DASH	1	TR4A RHD	
	904153BG	VENEERED DASH	1	TR4A LHD	
<i>The wooden dashboards used in Triumph sports cars of the sixties and seventies tend to suffer from exposure to the elements which can lead to cracking varnish and lifting veneer. Damaged dash boards can be easily replaced with one of our high quality, real wood veneer panels. See 'Interior' section in Accessories.</i>					
72	AD608103	SCREW, veneered fascia	5		

Ill. No	Part Number	Description	Qty. Req.	Details
73	CD24153	CUP WASHER	5	TR4A
76	804912	CRASH PAD, RH	1	TR4 RHD
	805758	CRASH PAD, RH	1	TR4 LHD
77	805757	CRASH PAD, LH	1	TR4 RHD
	804911	CRASH PAD, LH	1	TR4 LHD
78	808730	CRASH PAD, RH	1	TR4A RHD
	808733	CRASH PAD, RH	1	TR4A LHD
79	808732	CRASH PAD, LH	1	TR4A RHD
	808729	CRASH PAD, LH	1	TR4A LHD
80	HN2005	NUT, crash pads to fascia panel	6	
81	WL700101	WASHER, locking	6	
82	PWZ203	WASHER, plain	6	
84	610592	SUPPORT CHANNEL	1	fascia to dash, cubby box
85	SH604041	SCREW, channel support to dash	1	
86	GHF300	WASHER, plain	1	
87	GHF331	WASHER, locking	1	
88	PMZ308	SCREW, channel support to fascia	2	
89	PWZ203	WASHER, plain	2	
90	WL700101	WASHER, locking	2	
92	612237	BRACKET, lower fascia board	1	TR4
	612246	BRACKET, lower fascia board	1	TR4 to CT8379 USA only
	612488	BRACKET, lower fascia board	1	TR4 from CT8380 USA only
93	SH606061	SCREW, bracket to fascia	2	TR4
94	GHF301	WASHER, plain	2	
95	GHF222	NUT, nyloc	2	
96	705206	SWITCH PLINTH, trimmed	1	TR4 to CT25934
	706882	SWITCH PLINTH, trimmed	1	TR4 from CT25935
97	569927	PLATE, switch mounting	1	TR4 to CT25934
	610817	PLATE, switch mounting	1	TR4 to CT25935
98	569926	REINFORCEMENT, switch mtg.	1	TR4 to CT25934
	610818	REINFORCEMENT, switch mtg.	1	TR4 from CT25935
99	SH604041	SCREW, reinforcement to fascia	1	TR4/4A
100	GHF331	WASHER, locking	1	TR4/4A
101	GHF200	NUT	1	TR4
102	GHF402	SCREW	2	
103	GHF712	SPIRE NUT	2	
105	809003	SWITCH PLINTH, trimmed	1	TR4/4A
106	GHF423	SCREW	1	
110	566108	BRACKET, support, fascia to floor	1	TR4 to CT1527
	806506	BRACKET, support, fascia to floor	1	TR4 from CT1528
112	624818	SET SCREW, chrome	2	TR4
113	WA108052	WASHER, chrome plated	2	
114	GHF272	NUT, nyloc	2	
115	GHF101	SCREW, bracket to chassis	4	TR4/4A
116	GHF300	WASHER, plain, under screw	4	
<i>Items 117 to 120, were fitted on TR4/4A's to blank the heater control hole on the switch plinth when a heater was not fitted.</i>				
117	600398	PLUG	2	
118	GHF201	NUT	1	
119	GHF332	WASHER, locking	1	
120	SH605051	SCREW	1	
125	616193	BRACKET	1	TR4
126	SH605061	SCREW, bracket to fascia	2	
127	GHF301	WASHER, plain	2	
128	GHF222	NUT, nyloc	2	
130	808682	BRACKET, support, fascia to floor	1	
131	624818	SCREW	2	
132	WA108052	WASHER, chrome plated	2	
133	GHF301	WASHER, plain	2	
134	GHF222	NUT, nyloc	2	
135	617069	COVER PLATE, radio mounting	1	
136	RMP2312	SCREW, black finish	2	
137	WP31	WASHER, plain	2	
138	WL700101	WASHER, locking	2	
139	HN2005	NUT, plain	2	

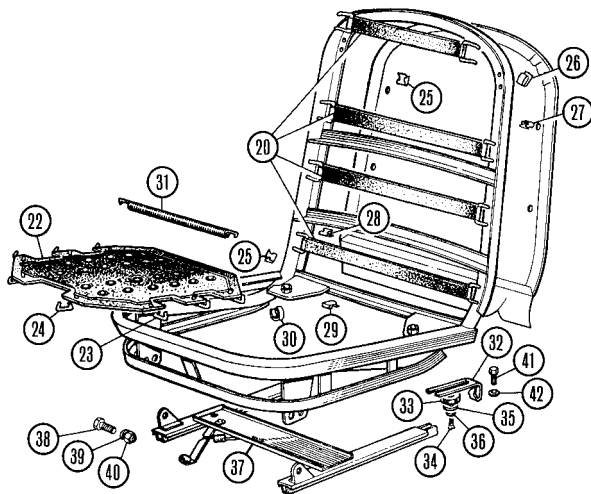


Ill. No	Part Number	Description	Qty. Req.	Details
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Seat Frame & Fittings - TR4 Seat Types 1 & 2

See also Accessories for Original Seat Cover kits.

1	SFK6211	SEAT PADDING KIT	1	
2	806222	SEAT SPRING	2	
3	564763NF	SEAT FRAME, fixed back	2	Driver Side
4	564769NF	SEAT FRAME, tilt back	1	Passenger side
5	14B1981	ACORN NUT, chromed	2	Passenger seat
6	GHF315	WASHER, packing	2	
7	WA108052	WASHER, chrome	2	
8	ANK5046A	CLIP, rear squab board	12	finisher to frame
9	MM801-410	SEAT RAIL SET, RH seat	1] (4 piece)
	MM801-420	SEAT RAIL SET, LH seat	1	
10	24K6809	KNOB, seat adjustment	2	
11	GHF101	SCREW, seat slides to floor	8	
12	GHF300	WASHER, plain	8	
13	GHF271	NUT, nyloc, seat slides to seat	8	
14	GHF300	WASHER, plain	8	
15	AHH6939	SPACER	8	between seat slides & carpet



Seat Frame & Fittings - TR4 Seat Type 3, TR4A

See also Accessories for Original Seat Cover kits, and Moss Classic Seats for TR4A.

20	GAC6120X	SEAT WEBBING KIT	2	
22	566592	DIAPHRAGM	2	
23	612261	HOOK, SIDE	12	
24	613776	HOOK, front & rear	8	
25	GHF1500	CLIP, cover to frame	76	
26	613770	CLIP	6	rear squab board to frame
27	BD21133	CLIP	12	rear squab board to frame
28	613869	CLIP	10	rear squab board
29	ANK5046A	CLIP	12	finisher to frame
30	BHA4339	CLIP, tubular, cushion border	4	

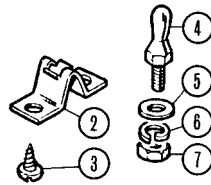
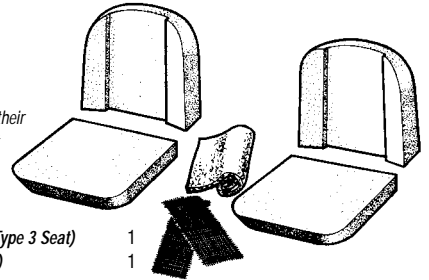
Ill. No	Part Number	Description	Qty. Req.	Details
31	612273	SPRING, cushion tension	2	
32	613303	SPRING, seat retaining	2	
33	613746	BUFFER	4	
34	YL6512	SCREW, spring & buffer	4	to seat frame
35	WP163	WASHER, plain	6	
36	613745	WASHER, countersunk	4	
37	MM801-430	SEAT RAIL SET, (3 piece)	2	
38	SH605061	SCREW,	4	hinges seat slides to seat
39	WP125	WASHER, plain	8	
40	GHF272	NUT, nyloc	4	
41	GHF101	SCREW, seat slides to floor	8	
42	GHF300	WASHER, plain	8	

Seat Foam Sets (Front)

See also Accessories for Classic Seats.

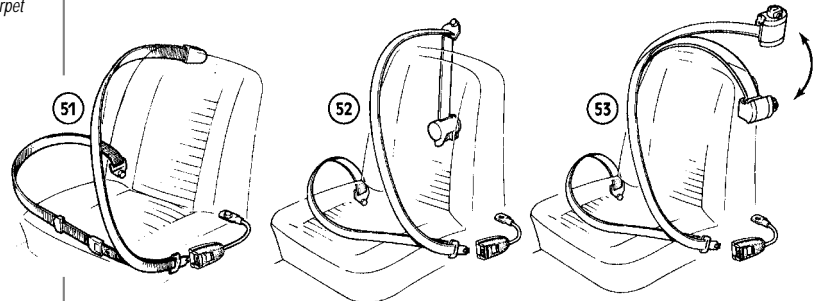
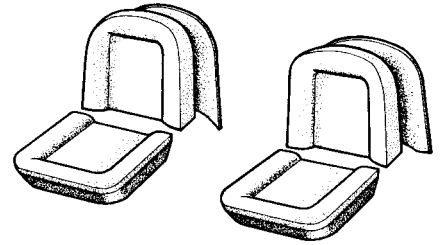
For the person carrying out a full refurbishment of their seat, we are able to offer a complete car set of seat foams. Re-using old foams really is a challenge. We do recommend that you use a new set of foams when you fit new seat covers.

a	SFK6231	SEAT FOAM SET (TR4 Type 3 Seat)	1	
b	SFK6311	SEAT FOAM SET (TR4A)	1	



Rear Seat Hardware - TR4/4A

1	562604	SPRING LATCH, seat	2	TR4
2	618429	SPRING LATCH, seat	2	TR4A
3	TH4603	SCREW, latch to seat	4	
4	618953	STUD, seat to seat pan	2	
5	PWZ203	WASHER, plain	2	
6	WL700101	WASHER, locking	2	
7	HN2005	NUT	2	



Replacement (Front) Seat Belts TR4 & TR4A

Securon belts are available in three stalk lengths. The preferred position for the seat(s) make selection of which length an individual choice, so it is suggested that with the occupant seated, measure from the tunnel fixing point to where you would like the buckle to be and select the seat belt nearest to that measurement.

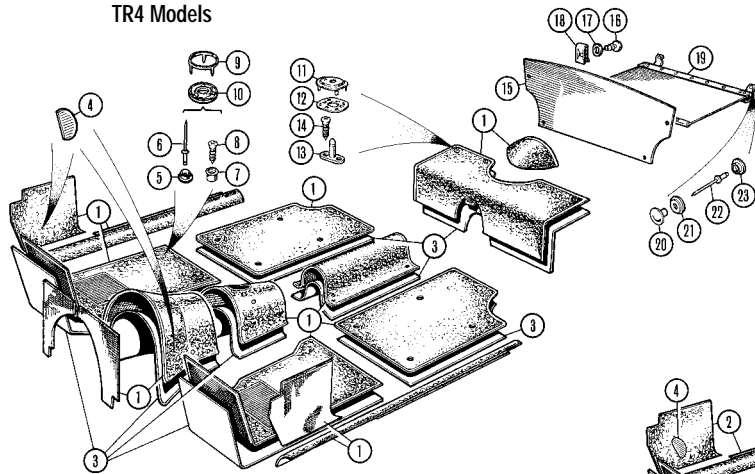
LH and RH can be the same, or different, as you prefer.

See also Accessories

51	SBS300/30	SEAT BELT, 'static', (30 cm. stalk, includes all fittings)	2	Attaches to original 3 mounting points.
	SBS300/45	SEAT BELT, 'static', (45 cm. stalk, includes all fittings)	2	
52	SBS500/30	SEAT BELT, 'inertia reel', (30 cm. stalk, includes all fittings)	2	
	SBS500/45	SEAT BELT, 'inertia reel', (45 cm. stalk, includes all fittings)	2	
53	SBS514/30	SEAT BELT, 'inertia reel', (angle-adjustable, 30 cm. stalk, with fittings)	2	
	SBS514/45	SEAT BELT, 'inertia reel', (angle-adjustable, 45 cm. stalk, with fittings)	2	

Attaches to original 3 mounting points but features angle-adjustable reel eliminating pivot/guide on top of wheel arch. It offers a solution to problems encountered where mounting points may be unsuitable because of non-standard seats or where there is a roll bar fitted.

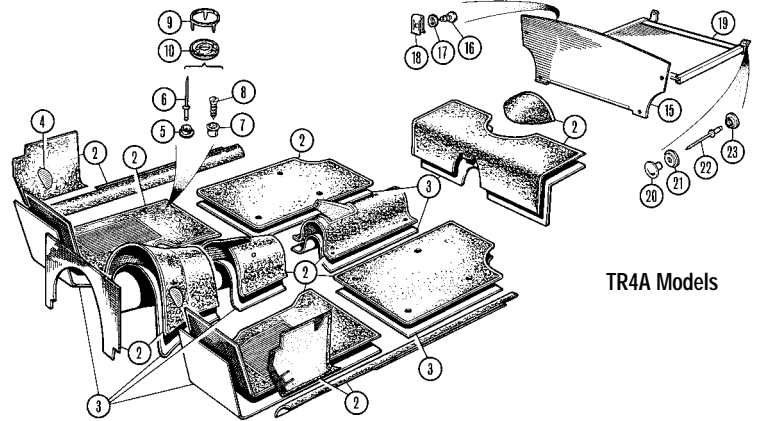
TR4 Models



INTERIOR TRIM & FITTINGS

We not only stock High Quality interior trim for Classic TR's, we also manufacture it in our own upholstery shop. So whether you are planning a complete restoration or just wish to renew your seat covers, we really do have everything you need.

For full detailed listings please refer to 'Interior Trim' (pages 3 to 13) in the Accessory section.



TR4A Models

Ill. No	Part Number	Description	Qty. Req.	Details
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Carpet Sets

1 & 2	CSA6441	CARPET SET, Wool	1	For full details/listings please refer to 'Interior' section. (Pages 3 to 13)
1 & 2		CARPET SET, Standard	1	
3		UNDER-FELT SET (TR4/4A)	1	

Footwell Over-Carpets

Manufactured exclusively for Moss, these high quality replacement footwell carpets have sewn-in heel mats. Supplied in pairs. (See also 'Interior' section in Accessories)

NI	CSA6441	FOOTWELL CARPETS, Nylon	1pr	Black
	CSB6441	FOOTWELL CARPETS, Wool	1pr	

Footwell Over Carpets & Mats

See also Accessories

These high products will keep your carpet wear to a minimum.

NI	AM6819-2	FLOOR MATS, Rubber	1pr	'TR Shield'
	AM6819-LW	FLOOR MATS, Carpet	1pr	'Laurel'

Carpet Hardware & Consumables

4	602221	TOE PAD, carpet protection	a/r	
5	610624	'DURABLE DOT' stud	a/r	
6	RU608123	RIVET, (use with 610624)	a/r	
7	554021	'VELTEX' STUD	a/r	when under-felt fitted
8	GHF401	SCREW, (use with 554021)	a/r	
9	14G8736	SPIKE RING	a/r	
10	CD23803	FASTENER	a/r	
11	552650	SOCKET, 'lift-the-dot'	4	carpet to seat pan TR4
12	552651	CLINCH PLATE, 'lift-the-dot'	4	
13	611670	PEG & PLATE, 'lift-the-dot'	4	
14	YA364	SCREW, self-tapping	8	
NI	UBS110	ADHESIVE, tin (500ml)	a/r	
NI	UBS203	ADHESIVE, aerosol (200ml)	a/r	

Boot Trim

15	806135	BOARD, fuel tank casing	1	
16	GHF425	SCREW	8	
17	WP124	WASHER	8	
18	GHF712	SPIRE NUT	8	
19	806837	COVER, spare wheel	1	
20	7H9866	SOCKET, on strap	2	
21	7H9868	BUTTON, on strap	2	
22	GHF600	RIVET	2	
23	610624	STUD	2	

Ill. No	Part Number	Description	Qty. Req.	Details
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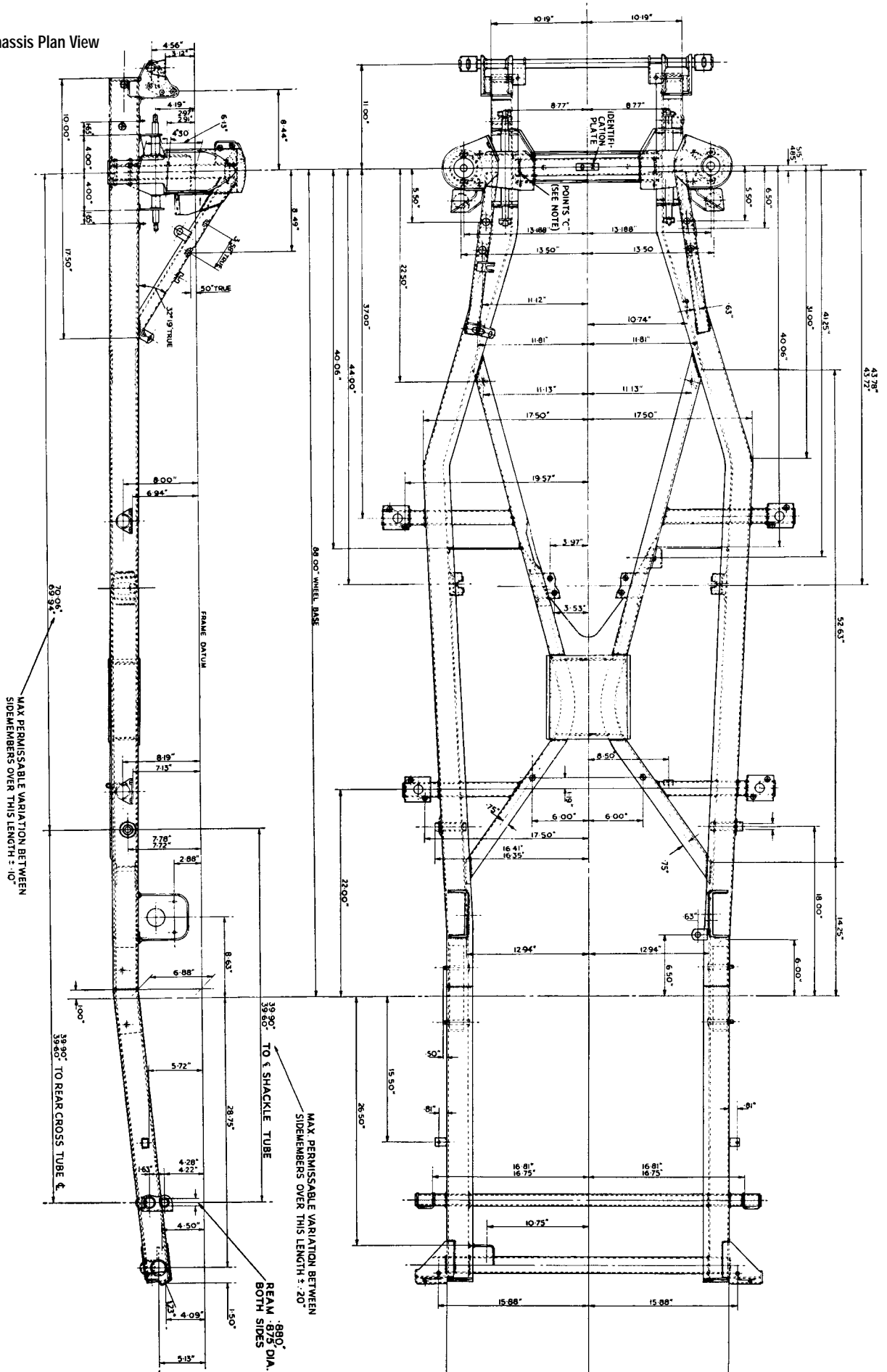
Trim Fixings & Fittings

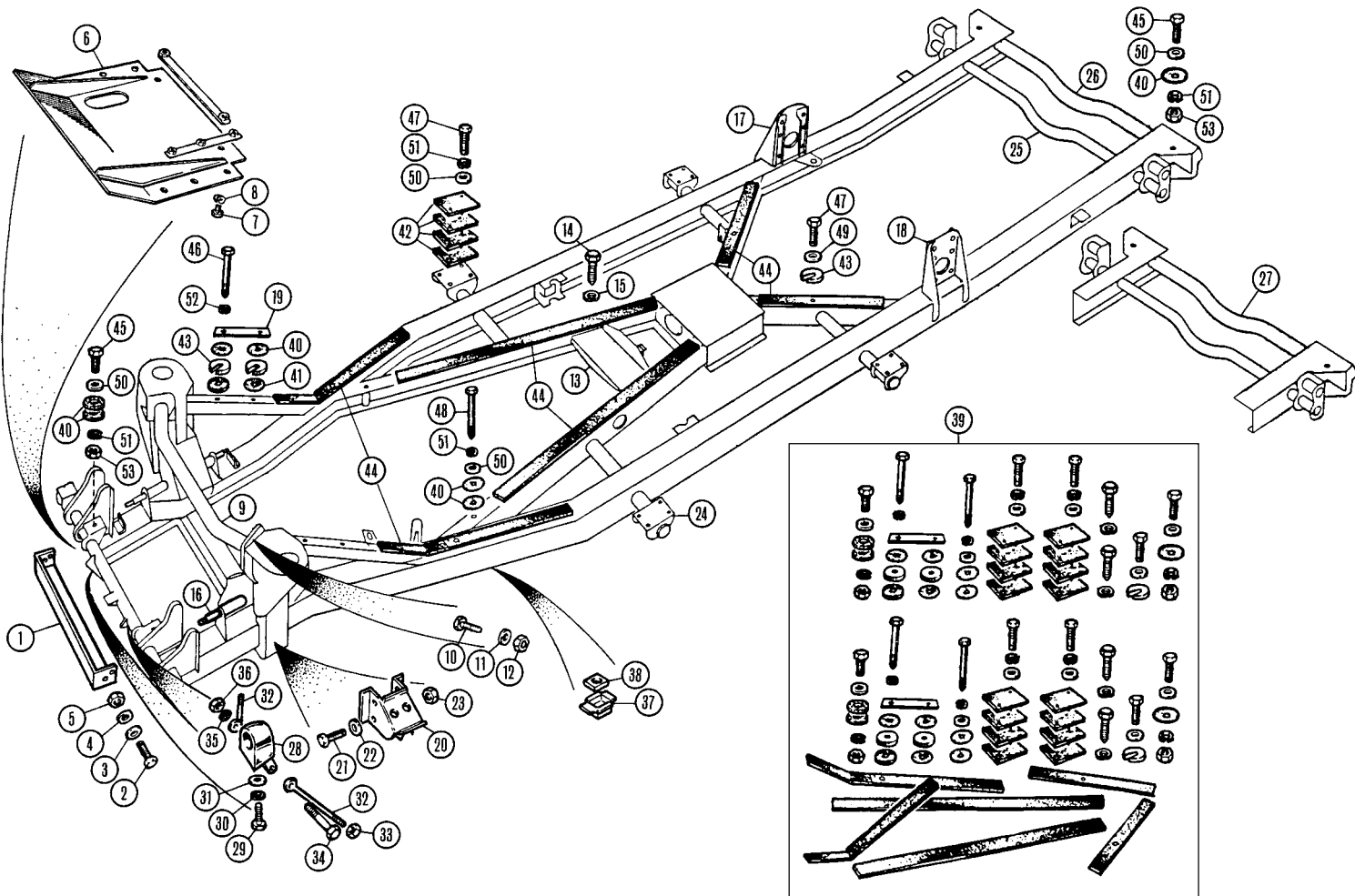
All Models

552964		'TENAX' FASTENER	a/r	
551684		NUT, for Tenax fastener	a/r	
553827		'TENAX' PEG, threaded	a/r	3/32" long
TFP1006		'TENAX' PEG, threaded	a/r	7/16" long
TFP1010		'TENAX' PEG, threaded	a/r	5/8" long
WL700101		WASHER, locking, peg to nut	a/r	
GHF206		NUT, for 'Tenax' peg	a/r	
552391		'TENAX' PEG	a/r	wood screw
552392		'TENAX' PEG	a/r	self tapping, metal
2K4936		LEATHER WASHER	a/r	'Tenax' peg
97H717X		PEG, 'lift-the-dot', threaded	a/r	original
97H717		PEG, 'lift-the-dot', threaded	a/r	aftermarket
WL700101		WASHER, locking	a/r	peg to nut
GHF206		NUT, for 'lift-the-dot' peg	a/r	
552667		PEG, 'lift-the-dot'	a/r	wood screw
552670		PEG, 'lift-the-dot'	a/r	self tapping, metal
2K4936		LEATHER WASHER,	a/r	'Tenax' peg
LFP116		PEG & PLATE, 'lift-the-dot'	a/r	short
611670		PEG & PLATE, 'lift-the-dot'	a/r	long
552650		SOCKET, 'lift-the-dot'	a/r	
552651		CLINCH PLATE, 'lift-the-dot',	a/r	for socket
610624		'DURABLE DOT' & 'Veltext' stud	a/r	
GHF400		SCREW, for stud	a/r	
RU608123		BLIND RIVET, for stud	a/r	
GHF600		POP RIVET, for stud	a/r	
7H9864		'DURABLE DOT' BUTTON	a/r	
7H9866		'DURABLE DOT' SOCKET	a/r	
7H9868		'DURABLE DOT' BASE	a/r	
14G8736		'VELTEX' SPIKED RING	a/r	
CD23803		'VELTEX' CLIP RING	a/r	
554021		VELTEX' STUD, long	a/r	carpet to floor
GHF1230		CLIP, door panel attachment	a/r	
AD604062		SCREW, chrome, self tapping	a/r	countersunk, no.4 x 3/4"
AD606063		SCREW, chrome, self tapping	a/r	countersunk, no.6 x 3/4"
AD608063		SCREW, chrome, self tapping	a/r	countersunk, no.8 x 3/4"
SP132BCP		CUP WASHER, chrome, no.4	a/r	
CD24152		CUP WASHER, chrome, no.6	a/r	
CD24153		CUP WASHER, chrome, no.8	a/r	
GHF1560		CLIP, outer window weather strip	a/r	
GHF1582		CLIP, inner window weather strip	a/r	
UBS110		ADHESIVE, tin (500ml)	a/r	
UBS203		ADHESIVE, aerosol (200ml)	a/r	

180 | Chassis Frame Unit Plan View

TR2/3B Chassis Plan View





Chassis & Fittings TR2/TR3/3A

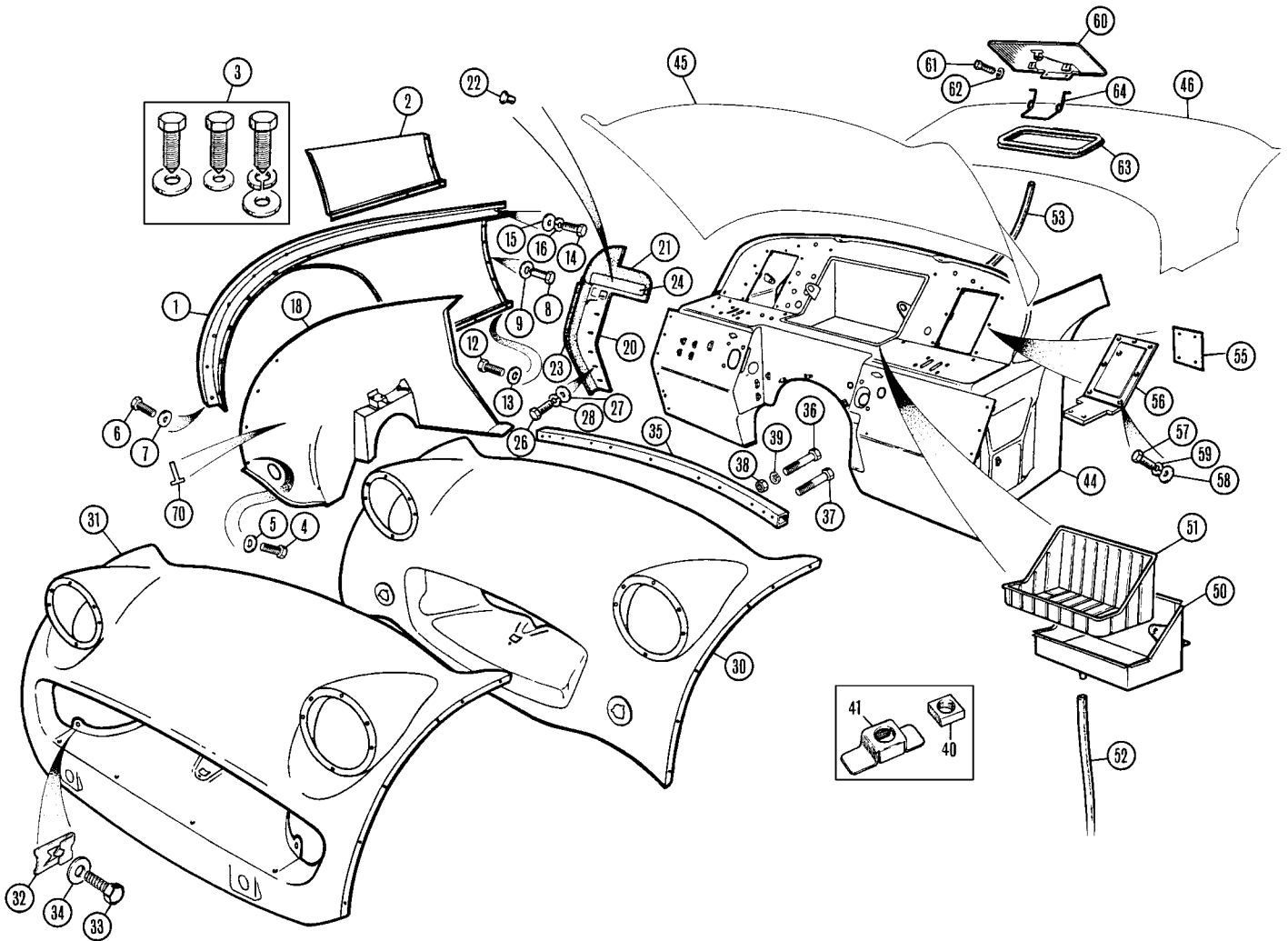
Ill. No	Part Number	Description	Qty. Req.	Details
1	109487	SHIELD, radiator protection	1	original type
2	BH606301	BOLT, shield to chassis	2	TR2/3
	BH606261	BOLT, shield to chassis	2	TR3A
3	WM59	WASHER, plain	2	
4	GHF333	WASHER, locking	2	
5	GHF202	NUT, plain	2	
6	301644	SUMP SHIELD, rally type	1	
7	HU706P	SCREW, securing shield	8	
8	GHF331	WASHER, locking	8	
9	106191	CROSS-TUBE	1	
10	HU906	BOLT, cross-tube attachment	6	
11	GHF333	WASHER, locking	6	
12	GHF202	NUT	6	
13	128055	CROSSMEMBER	1	gearbox mounting
<i>The cross member may require the gearbox mounting holes to be altered depending upon the type of gearbox used.</i>				
14	SH606051	SCREW <i>(cross-member to chassis cruciform)</i>	4	
15	GHF333	WASHER, locking	4	
16	106196	FULCRUM PIN, lower 'A' arms	1	
17	110788	BRACKET, shock absorber, RH	1	<i>(later reinforced type)</i>
18	110789	BRACKET, shock absorber LH	1	<i>(later reinforced type)</i>
19	602443	PLATE, inner front wing mounting	2	
20	109281	BRACKET, rebound	2	
21	BH605281	BOLT, rebound bracket to chassis	4	
22	GHF332	WASHER, locking	4	
23	GHF201	NUT, plain	4	
24	CHAS1	OUTRIGGER, outrigger	4	
25	CHAS2	CROSS TUBE, rear	1	
26	CHAS6	CROSS TUBE, rear spring hangers	1	

Ill. No	Part Number	Description	Qty. Req.	Details
27	CHAS8	CHASSIS REPAIR SECTION, rear <i>(Repair section includes Cross tubes CHAS2 & CHAS6)</i>	1	
28	506721	GUIDE, starting handle	1	
29	HU706P	SCREW, securing guide	1	
30	GHF331	WASHER, locking	1	
31	WM57	WASHER, plain	1	
32	107934	STAY-ROD, guide	2	
33	NT605041	NUT, stay to cross-tube	4	on chassis
34	BH605151	BOLT, stay to guide bracket	1	
35	GHF332	WASHER, locking	1	
36	GHF201	NUT, plain	1	
37	600032	NUT, (retainer nut)	2	
38	NQ2708	NUT, square	2	

Body Mounting Pad Set

Due to the adjustments necessary in mounting the body square to the chassis, a greater number of pads are included in each kit than are shown in the parts book. More pads may be ordered separately to further 'shim' the mounting points.

39	GFK6001X	PAD SET, body mounting	1	
40	601994	PAD, rubber/canvas, thin	14	
41	608836	PAD, rubber/canvas, thick	4	
42	611732	PAD, rubber/canvas, square	16	
43	CD26326	PAD, aluminium, notched	6	
44	601995M	STRIP, protection, (sold per metre)	4	cut to suit
45	GHF103	SCREW	4	
46	SH606101	SCREW	4	
47	SH605101	SCREW	8	
48	BH605301	BOLT	2	
49	CD14056	WASHER, cup	2	
50	WP185	WASHER, plain	14	
51	GHF332	WASHER, locking	14	
52	GHF333	WASHER, locking	4	
53	GHF201	NUT, plain	4	
54	SF605101	SCREW, countersunk	2	



iii. Part Number No	Description	Qty. Req.	Details
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An Introduction to TR2/TR3 Body Panels

When Peter Cox and I first went into business together, supplying the first hundred or so members of the TR Register with parts for their cars, the position on TR3 body panels had already become fairly dire. This was in 1971, and of course at that time the TR Register basically only comprised TR2/3/3A owners, and I remember at the early meetings of the TR Register the cry for the supply of quarter panels (850043/4) was immense. Already the cars had begun to go rusty and these 'three dimensionally' curved items were extremely difficult to hand fabricate. In fact, the only panels that were available from Triumph were rear wings and outer sills

It became a personal quest of mine to attempt to provide the fullest possible range of body panels for the TR2/3/3A, and to enable enthusiasts to rebuild their cars to a high standard. There was a problem in those days with the fact that the cars were owned by people who would frequently complain that £17.10.6d for a rear wing was a ludicrous price when they could buy a fibreglass rear wing for £6.2.6d. There was also a large number of hand fabrication shops that were making panels which, quite frankly, were at best not very good and at worst terrible. The real danger with hand made panels is that, in general, the consistency is highly suspect and the number of people who have the skills to do these jobs is now very few and reducing.

The answer to these problems is fairly clear. What is required is tooling to produce consistent & accurate panels where the tooling has been developed and checked against original components. The problem that I faced in 1973/74 was to find a manufacturer who could produce tooling at a price that I could afford. I estimate that a set of proper production, hardened steel tools to produce a TR3A rear valance would cost, in 1992, around £200,000. If we were selling thousands of these items a year this would be an investment which would be worth considering, but the demand for all TR2/3/3A panel work is in the order of tens per month, or a hundred per year. Clearly it is not viable to spend £200,000.00 to produce a hundred of anything a year.

So the search was on for a method of providing cheap tooling. I made contact with a former Triumph employee in Coventry who remains a supplier to us to this day, and he recommended contacting John Down. John was Managing Director of a company who produced prototype and production panels for, among others, Rolls Royce and Aston Martin. Although it may seem ironic, Rolls Royce and Aston Martin suffer from the same problems as Cox & Buckles (now Moss Europe) did, in that some of their models, in the case of Rolls Royce, the Corniche and Carmarque are produced in extremely small numbers, maybe only 20 a month, and despite the price of the cars you may be surprised to know that they cannot afford to lay down millions of pounds in tooling to produce

iii. Part Number No	Description	Qty. Req.	Details
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the body shells. For this reason they use low cost 'soft tooling' and, I think the quality of these two cars shows that there is nothing wrong with the basic process. This is the first process we used in 1975 to produce TR3 floor panels, and we have refurbished the tooling for the floor panels at a cost which was 60% higher than the total purchase price in 1975.

We added to our range of TR3 panel work between 1975 & 1980, and were in a position in 1980 to supply almost everything on the car. I made a journey to Los Angeles to meet with Gene Golling and Joe Stix, who had in their possession tooling that they built to manufacture TR3 front wings and TR3 front aprons. These two gentlemen are currently rivals in different companies, but in those days were working together and, I will never forget Joe Stix driving into a fuel station in Los Angeles (in a 500 series Mercedes) and, realising he had left his credit card at home, managed to amaze everyone by going to the self-serve section, and putting \$1.00 worth of fuel into the car. He continued to do this twice more before I returned to my hotel. The tooling that Gene Golling had built was extremely unusual, but unfortunately it did not do us much good as it ended up with Vickers, who despite definite confirmation by independent witnesses, lost the tooling and denied ever having it. The up-shot of this is that, with demand for these panels declining, we have had to resort to hand-made substitutes for the pressed items and indeed, our range of pressed panels is complemented by a number of hand-made items where the demand is between, for example, 5 and 10 pieces per year.

Due to the low volume sales of almost all these items and the methods used to produce them, they appear a relatively high produced product range. I can assure you that the enthusiasm and commitment from all our R & D team here at Moss Europe means that the owners of TR2/3A models have always had a product which represents good value for money. We could improve the panels but they will be much more expensive, or we could also decrease the quality and make them cheaper. We hope we have found the right balance.

I think it is worth pointing out that the production line techniques in the 1950's are not those of the 1990's and, even new factory panels do not necessarily fit as well as you might expect. I have original factory TR3 rear wings and rear quarter panels which, when screwed together have a 1" gap at the high point between the outer edge of the wing and the quarter panel that it should match. You should be prepared for a large amount of work, probably more than you expect, when fitting all these panels. It is also worth observing that, although there are some notable exceptions, most of these cars have had a hard tough life, and have rarely escaped being nudged and knocked in what is over 40 years of use. I mention this because the fitting of all parts for cars over 30+ years of age can be a long drawn out process. It is not unusual to take a day or two to make a wing fit perfectly.

(Continued)

Ill. No	Part Number	Description	Qty. Req.	Details
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When you are doing this in your garage it can drive you to distraction, but, when you are paying a professional to carry out the work it can drive you to bankruptcy. It is always worth drawing any garages attention to the hand-made nature of the original cars before you accept a quotation for the rebuild of a car. I recommend that you always deal with a specialist who has carried out the job before, and has already encountered the problems.

Despite this 'health warning', I believe that the position of supply of body panels for the TR2/3/3A series is first rate, and considering the age of the cars you should have relatively no problem in rebuilding your car to the highest standards. The point I am really making is, think yourself lucky that you are not the owner of a Ford or Vauxhall from the same era as your TR. What do they do when they want body panels ?!!!

We are justifiably proud of the range of panels that we can offer and hope that you will understand our commitment to providing you with the ways and means whereby your car can be restored to its former glory.

Pete Buckles

Front Body Panels

TR2/TR3/3A

See also: 'EXTERIOR TRIM & BADGES - Front/Side Body Fittings, Grille & Bumper' on page 202.

1	901271*	WING, RH front	1	
	901270*	WING, LH front	1	
2	901271RP	REPAIR PANEL, lower 12", RH	1	
	901270RP	REPAIR PANEL, lower 12", LH	1	

*Note: Please try these panels on your car before painting or installing permanently, as we cannot under any circumstances accept these as returns after they have been painted, 'tweaked' or modified in any way.

3	901270FK	FITTING KIT, front wing (kit includes all fittings for 1 wing)	2	
4	HU706P	SCREW, wing to inner wing	22	
5	WM57	WASHER, plain	22	
6	HU706P	SCREW, wing to front apron	12	
7	WM57	WASHER, plain	12	
8	HU706P	SCREW, wing to 'A' post	12	
9	WM57	WASHER, plain	12	
12	HU706P	SCREW, wing to inner sill	6	
13	GHF300	WASHER	6	
14	HU706P*	SCREW, wing to scuttle panel	2	
15	WM57*	WASHER, plain, on screw	2	
16	GHF331*	WASHER, locking	2	

*Note: these are nearly impossible to fit. On certain models there was a radio speaker hole which was at least hand size. On the left hand wing there was no reasonable access. Peter Wigglesworth's tip is to fit this screw to the wing first before final fix, lots of luck with this. One of the wing to inner mountings is the CD24540 bonnet stop, which is not included in the fitting kit, and requires adjustment of the lock nuts when fitting. It screws into the captive nut and the inner front wing, and is then locked with GHF200 (and WM57) when adjustment is completed.

18	900691	INNER FRONT WING, RH	1	TR2/3
	900690	INNER FRONT WING, LH	1	
	901213	INNER FRONT WING, RH	1	TR3A
	901212	INNER FRONT WING, LH	1	

Our inner front wings are assembled from several hand rolled pieces. They do not include any captive nuts or wiring tags, and do not have any holes drilled. They really should only be purchased when your original panel cannot be repaired. They are not for the faint hearted, and I would expect a minimum of two days work to drill all the holes, fit the captive nuts, check alignment, and fit the wing. They are not cheap; so consider carefully the cost of repairing your own panel before buying them.

As usual, the rule applies that when you 'adjust or improve' this panel by cutting or piercing, etc.,

... you then irrevocably own it.

20	900410	PLATE, bulkhead sealer	2	
21	602079	TOP SEAL	2	
22	552522	RIVET, top seal to plate	8	
23	650172	SIDE SEAL	2	
24	602080	TOP STRIP, sealer plate	2	
26	HU706P	SCREW, plate securing	10	
27	WM57	WASHER, plain	10	
28	GHF331	WASHER, locking	10	

Failure to fit a pair of bulkhead sealer plates and associated fittings will result in mud and general road muck filling up the back of the wing and rusting your 'A' post, inner sill, bulkhead and wing.

So coat all these surfaces liberally with rust protector and paint, and 'seal for life'.

We recommend the use of clip (606389) to the sealer plate to help secure the side seal (item 23) to the bulkhead sealer plate (item 20). This was not used on TR2/3A, but was later used on TR4/4A, TR5/250 and TR6.

The side seal (item 23) may be a touch too long (1" to 2"), simply 'cut to fit'. The correct factory method of locating the sealer plate (item 20) to the bulkhead was to put the screw (item 26) through the slot into a flange on the bulkhead containing a captive nut. The chances of this flange surviving 40 years are approximately nil (except in California). The captive nuts chances of survival are even less.

For this reason, we have made the inner flange of the seal plate slightly wider so that you can cheat and secure the plate to the main bulkhead with a self tapping screw.

Ill. No	Part Number	Description	Qty. Req.	Details
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30	901006	FRONT APRON ASSEMBLY	1	TR2/3
31	508841	FRONT APRON ASSEMBLY	1	
32	FJ24074	CLIP, platform to inner wing	4	TR3A
33	UL2706	ACME SCREW	4	
34	WP120	WASHER, plain	4	

As with the front inner wings the aprons are assembled from a multiplicity of bits & pieces.

They have no holes pierced and will need considerable effort to obtain a perfect fit. The apron part no. 901006 as supplied is designed for both TR2 & TR3 models even though the originals were different.

TR3 owners will need to pierce holes for the reveal mouldings, if they are lucky enough to have them.

On the TR3A apron - the raised inner lip that is part of the lower face of the air duct, has a couple of small holes on each side to mount a spire clip (item 32) which was used to receive the same screw (item 33), which was screwed from the wheel side of the inner front wing to stop the lower platform from 'flapping'.

I know you are bored but I'll repeat it, if you adjust it - **You own it irrevocably.**

35	900396	TIE MEMBER	1	
36	SH604111	SCREW	8	tie member to front apron
37	GHF102	BOLT	4	tie member to inner front wing
38	GHF200	NUT, plain	12	
39	GHF321	WASHER, shake proof	12	
40	CN1	NUT, square	a/r	
41	CN2	CAGE for square nut	a/r	
44	901273	BULKHEAD ASSEMBLY	1	
45	Please Phone	BONNET	1	
46	Please Phone	SCUTTLE PANEL	1	

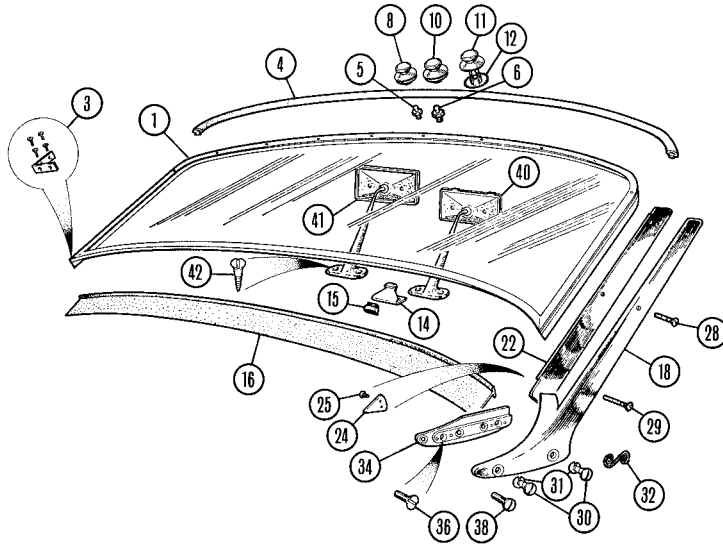
Bonnets

TS1 to TS550	Aluminium construction.
TS551 to TS4228	Steel construction. Fittings to accept cable operated bonnet release mechanism. 4 rear slits.
TS4229 to TS60000	Holes to accept Dzus fasteners. 2 rear slits.
TS60001 on	Raised rear position to mount hinges. 2 rear slits.

Scuttle Panels

TS1 to TS994	No vent lid, 10 1/2" between wiper spindle outlets
TS995 to TS6156	No vent lid, 14 1/2" between wiper spindle outlets
TS6157 to TS12569	Vent lid fitted, 14 1/2" between wiper spindle outlets.
TS12570 to TS32833	Vent lid fitted, 14 1/2" between wiper spindle outlets, but spindle holes enlarged.
TS32834 to TS60000	Aero screen mounting holes removed.
TS60001 on	Raised hinge mounting points.

50	BOD1	BATTERY BOX, steel, replacement	1	
51	AM7300	BATTERY LINER, hard plastic	1	
52	552365	TUBE, rubber	1	
The 552365 is a rubber tube draining fluid out of the battery box, through the passenger compartment through the metal gearbox tunnel cover, to drop nasty battery acid fluid over the top of your nicely reconditioned gearbox.				
53	602947	TUBE, drain (vent tray to steering column hole in bulkhead)	1	
55	553129	PLATE, back	1	master cylinder pocket
56	708049	PLATE, blanking	1	m/cyl pocket aperture
57	HU706P	SCREW (pocket & blanking plate to bulkhead)	14	
58	WM57	WASHER, plain	14	
59	GHF331	WASHER, locking	14	
60	800912	VENT LID, including mechanism	1	
61	HU503	SCREW, vent lid to bulkhead	4	
62	WL700101	WASHER, locking	4	
63	600597	SEAL, vent lid	1	
64	600549	SPRING, for vent lid	1	
70	603559	TAG, securing wiring loom	a/r	



Ill. No	Part Number	Description	Qty. Req.	Details
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Windscreen, Fittings & Rear View Mirror TR2/TR3/3A

See also Accessories (Page 20) for Side 'Wind Wings', 'Aero-Screens & Sun Visors'.

1	800592	GLASS, windscreen, laminated	1	
	CD31407	GLAZING STRIP, glass to frame	1	
3	TR3WSCB	BRACKET SET, windscreen corner	2	(per side)
4	554339	SEALING RUBBER, hood	1	
5	551866 †	PEG, top fastener, 'baby Tenax'	10	TR2 to TS5513
6	553827	PEG, top fastener, std. 'Tenax'	10	TR2 from TS5514, TR3/3A
8	551683 †	FASTENER, 'baby Tenax'	10	TR2 to TS5513
10	TFS106	FASTENER, std. 'Tenax'	10	
11	552964	FASTENER	10	TR2 from TS5514, TR3/3A
12	551684	NUT	10	

† Note: The 'baby Tenax' pegs and fasteners have been unavailable for many years.

Use the slightly larger fittings as a set.

Please also note that we cannot supply fasteners for cars with aluminium screen frames.

14	602229	BRACKET, centre windscreen	1	
15	602246	BUFFER, in bracket	1	
16	704126	SEALING RUBBER, lower	1	
18	552181	STANCHION, LH windscreen	1	TR2/3, TR3A to TS60000
	552182	STANCHION, RH windscreen	1	(Dzus fixing)
	804511	STANCHION, LH windscreen	1	TR3A from TS60001
	804512	STANCHION, RH windscreen	1	(screw fixing)
22	560630	TENON PLATE	2	
		(between windscreen & stanchion)		
24	562605	CORNER FINISHER	2	
25	AB604023	SCREW	4	
28	552662	SCREW, short, stanchion to frame	4	
29	CD31441	SCREW, long, stanchion to frame	2	
30	554720	DZUS fastener (stanchion to plate)	4	
31	554721	WASHER, Dzus fastener retaining	4	
32	7H9828	SPRING, Dzus fastening	4	TR2/3, TR3A to TS60000
34	552818	PLATE, LH, stanchion guide	1	(Dzus fixing)
	552819	PLATE, RH, stanchion guide	1	
36	TK4708P	SCREW, guide plate to body	4	
38	609108	BOLT, stanchion to plate & body	4	TR3A from TS60001
40	601999 *	MIRROR	1	(early)
41	609317 *	MIRROR	1	(late)
42	SP87K5	SCREW, mirror mounting	2	

*Early mirrors have 'bare' edges, while later mirrors are slightly larger and have a rubber covering around the edges. The exact change point is not known, but is believed to be during TR3A production.

Aero screen

The original Aero screen is no longer available, we suggest using our excellent reproduction accessory that comes with feet.

700896	AERO SCREEN KIT	2	(per side)
700896FK	FEET, Aero screen mounting	1	(car set)
AD608063	SCREW, self tapping	4	feet to scuttle
602078	SCREW, Aero screen	4	for mounting
WA108052	WASHER, (under screw)	4	original Aero screen

Ill. No	Part Number	Description	Qty. Req.	Details
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Doors & Fittings TR2/TR3/3A

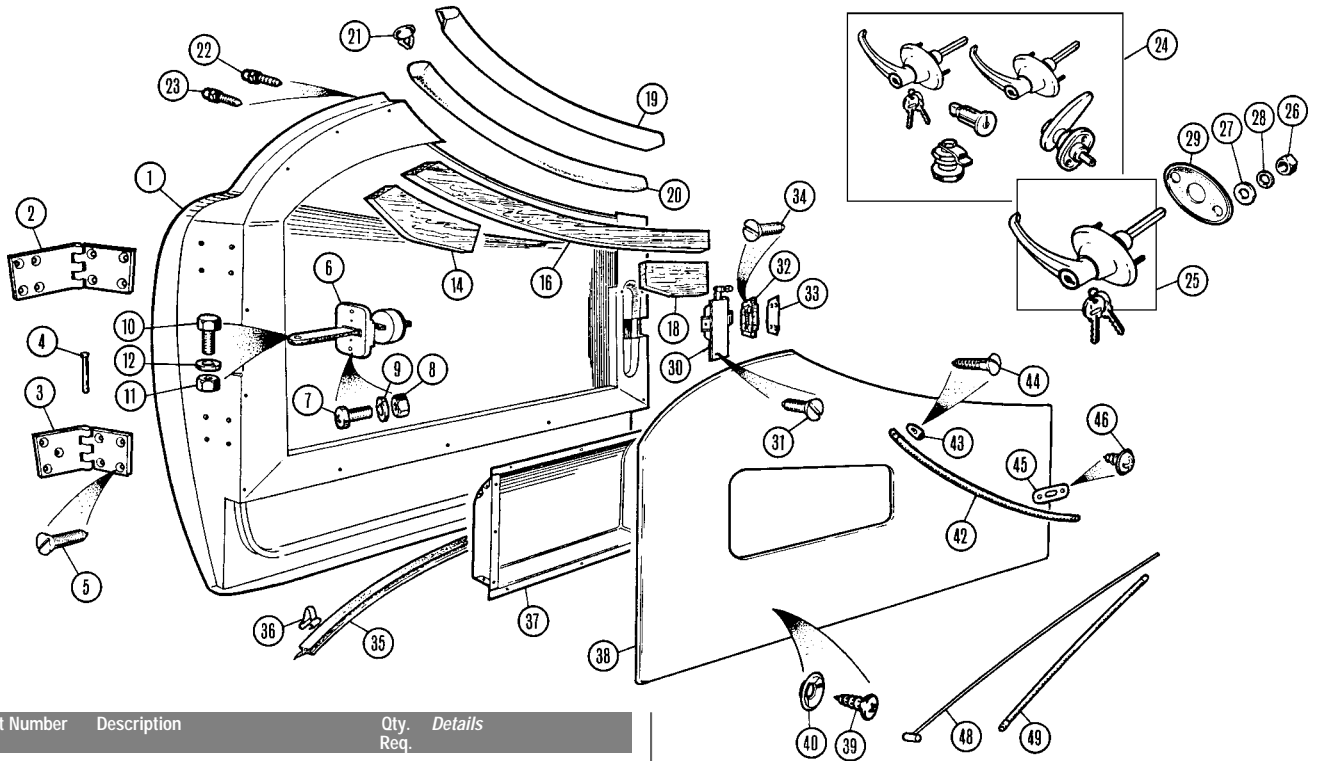
There were four different kinds of doors fitted. The main identifiers are:

Long Door	}	TR2 to TS4001
As drawn (right) to wing bottoms		
Short Door	}	TR2 from TS4002, TR3
To top of outer sill, no external handles*		
External handles	}	TR3A to TS60000
Wooden top rail		
All metal door	}	TR3A from TS60001
Metal top rail		

*Door handles were part of the rare factory optional GT kit for this range of cars.

Door Fittings

1	900492RP	DOOR SKIN, RH, outer	1	TR2 to TS4001
	900491RP	DOOR SKIN, LH, outer	1	
	553036RP	DOOR SKIN, RH, outer	1	TR2 from TS4002, TR3
	553035RP	DOOR SKIN, LH, outer	1	
	901211RP	DOOR SKIN, RH, outer	1	TR3A from TS60001
	901210RP	DOOR SKIN, LH, outer	1	
2	602066	HINGE, upper, RH door	1	TR2/3, TR3A to TS60000
	602065	HINGE, upper, LH door	1	
	650028	HINGE, upper, RH door	1	TR3A from TS60001
	650027	HINGE, upper, LH door	1	
3	602068	HINGE, lower, RH door	1	TR2/3, TR3A to TS60000
	602067	HINGE, lower, LH door	1	
	650026	HINGE, lower, RH door	1	TR3A from TS60001
	650025	HINGE, lower, LH door	1	
4	602065X	HINGE PIN	4	
5	TK4705P	SCREW, door hinge	30	
6	650129	DOOR CHECK	2	
7	PMZ312	SCREW, door check to door	4	
8	HN2005	NUT, plain	4	
9	WL700101	WASHER, shakeproof	4	
10	HU706P	SCREW, door check to 'A' post	2	
11	GHF200	NUT, plain	2	
12	GHF331	WASHER, locking	2	
14	602180	BLOCK, side screen support, front	2	TR2/3, TR3A to TS60000
	650088	BLOCK, side screen support, front	2	TR3A from TS60001
16	802890	RAIL, RH door top	1	TR2/3, TR3A to TS60000
	802889	RAIL, LH door top	1	
18	602181	BLOCK, side screen support, rear	2	TR2/3, TR3A to TS60000
	650089	BLOCK, side screen support, rear	2	TR3A from TS60001
19	703212	DOOR CAPPING, steel, LH	1	
	703213	DOOR CAPPING, steel, RH	1	
TR2's and TR3's were originally fitted with aluminium door cappings. The cappings listed here are the later TR3A type, but will fit the earlier doors. For fibreglass replacements see page 174.				
20	559365	RUBBER CORE, door edge trim	2	
21	606848	BUTTON, door edge trim end	4	TR3A
22	551865	STUD, on door, 'baby Tenax'	8	TR2 to TS5255
23	552667	STUD, on door, 'Lift-the-Dot'	8	TR2 from TS5256, TR3/3A
24	TR3ADLS	LOCK SET, (5 piece set)	1	TR3A
(includes door handles, boot lock, cubby box lock, ignition switch tumbler & 2 keys)				
25	604991	DOOR HANDLE & LOCK	2	
(Handle & lock assembly comes with keys)				
26	HN2005	NUT, securing handle	4	TR3A
27	PWZ203	WASHER, plain	4	
28	WL700101	WASHER, locking	4	
29	554355	GASKET, door handle	2	
30	602090 †	DOOR LATCH ASSEMBLY, RH	1	TR2/3
	602089 †	DOOR LATCH ASSEMBLY, LH	1	
	606960 †	DOOR LATCH ASSEMBLY, RH	1	TR3 to TS600000
	606959 †	DOOR LATCH ASSEMBLY, LH	1	
	650104 †	DOOR LATCH ASSEMBLY, RH	1	TR3 from TS60001
	650103 †	DOOR LATCH ASSEMBLY, LH	1	
31	500166	SCREW, door latch to door	8	
† Note: Door latch changes reflect the different fittings on the ends of the upright levers to accommodate the different pull-cables. Part numbers 650104/3 are supplied for all applications, and are correct when used with your original cable end fittings.				
32	602075	STRIKER PLATE, door latch	2	
33	602248	PACKING, striker plate	a/r	
34	500166	SCREW, striker plate	8	



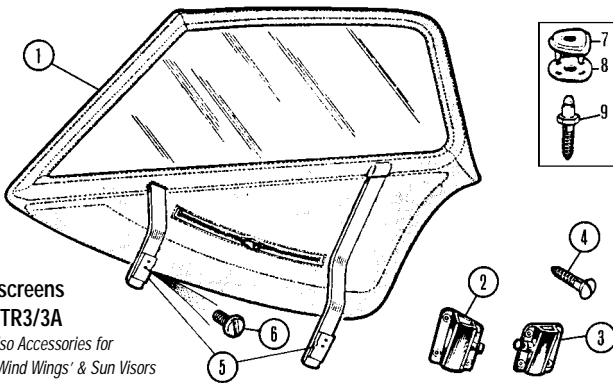
iii. Part Number Description Qty. Details
No Req.

Door Fittings cont...

35	605301	SEAL, door bottom	2	
36	552901	CLIP, retaining seal	28	
37		DOOR POCKET	2	} see 'Interior' section on pages 6 & 8
38		DOOR PANEL	2	
39	AD604062	SCREW, interior panel	60	
40	SP132BCP	CUP WASHER	60	
42	552227	DOOR PULL, Black	2	
43	602064	FINISHER, door pull end	2	
44	SP89C4CP	SCREW, finisher	2	TR2/3
45	602072	ESCUTCHEON, latch lever slot	2	
46	AB604023	SCREW, escutcheon	4	
48	557211	CABLE, inner, door pull	2	TR3A
49	557212	CABLE, outer, door pull	2	

iii. Part Number Description Qty. Details
No Req.

5	MM803-255	WEDGE, sidescreen mount	4	
				<i>These were not drilled or tapped, so that they may be fitted to any sidescreen.</i>
6	TP703	SCREW, wedge attachment	4	
7	552650	SOCKET FASTENER	8	} 'Lift-the-Dot' type
8	552651	CLINCH PLATE	8	
9	552667	STUD	8	



Sidescreens TR2/TR3/3A

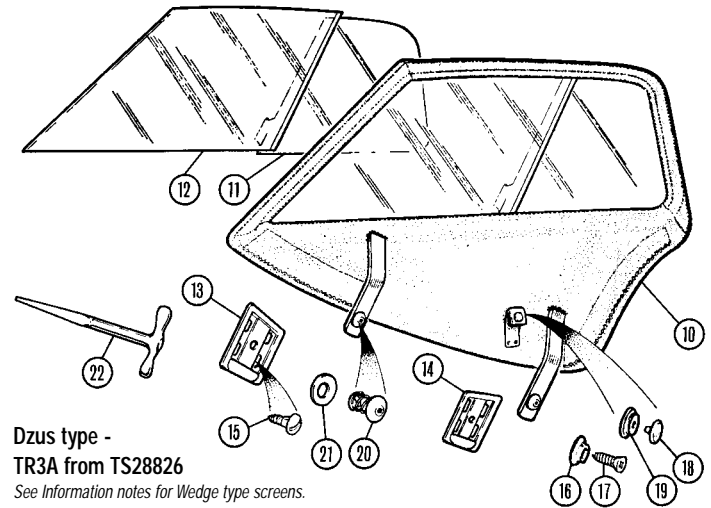
See also Accessories for Side 'Wind Wings' & Sun Visors

Wedge type - TR2/3, TR3A to TS28825

1	900386BLK	SIDESCREEN, RH, Black	1	} TR2 type - fixed windows, with flap and zip opening
	900385BLK	SIDESCREEN, LH, Black	1	
	900386WHT	SIDESCREEN, RH, White	1	
	900385WHT	SIDESCREEN, LH, White	1	

The Sidescreens supplied under part numbers 900385 LH and 900386 RH are of the early TR2 design and have one-piece fixed window. They have a 'flapping' curtain with a zip in it to allow access to the door opening mechanism - which was inside the car. The TR3, TR3A to TS2885 were of the same design, but had sliding windows.

	900683	SIDESCREEN, RH, Black	1	} TR3/3A to TS28825 sliding windows with flap and zip opening
	900682	SIDESCREEN, LH, Back	1	
	553934	SIDESCREEN, RH, White	1	
	553933	SIDESCREEN, LH, White	1	
2	602040	SOCKET, sidescreen	2	RH front/LH rear
3	602041	SOCKET, sidescreen	2	LH front/RH rear
4	SP89E4	SCREW, sidescreen socket	16	

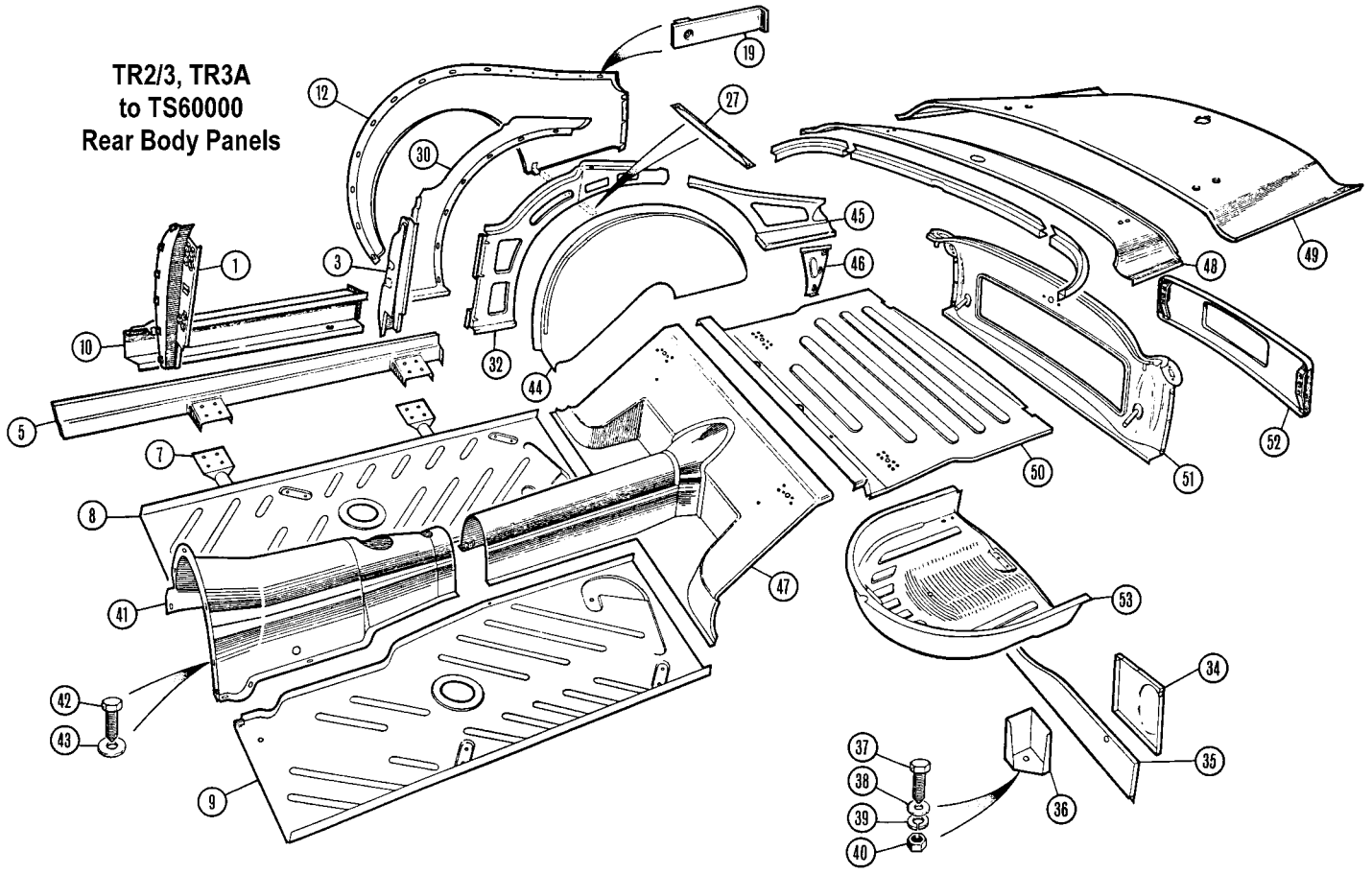


Dzus type - TR3A from TS28826

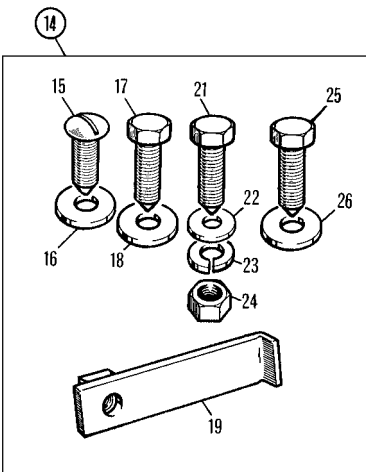
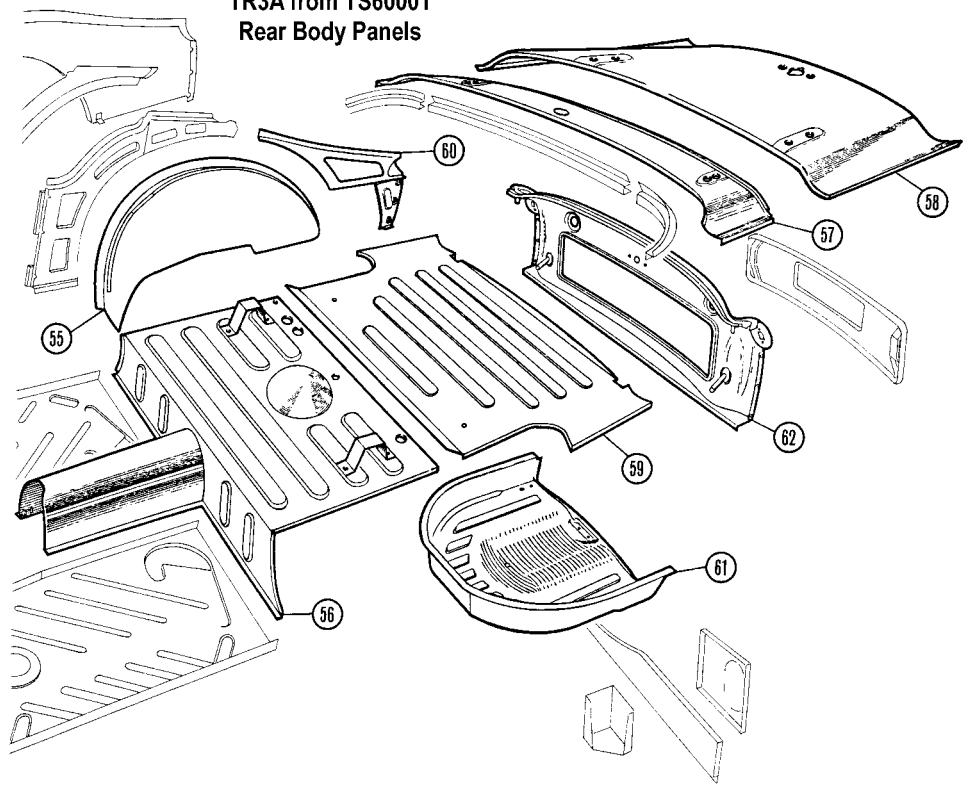
See Information notes for Wedge type screens.

10	901287	SIDESCREEN, RH, Black	1	
	901286	SIDESCREEN, LH, Black	1	
	901291	SIDESCREEN, RH, White	1	
	901290	SIDESCREEN, LH, White	1	
11	508177	SLIDING WINDOW, RH	1	
	508176	SLIDING WINDOW, LH	1	
12	559748	COBEX FIXED WINDOW	2	
13	607106	BRACKET, Sidescreen	2	RH front/LH rear
14	607105	BRACKET, Sidescreen	2	LH front/RH rear
15	SP88H7	SCREW, Sidescreen plate	16	
16	610624	STUD, door to Sidescreen strap	2	
17	AD606063	WOOD-SCREW, stud	2	
18	7H9864	BUTTON, strap to stud	2	
19	7H9866	SOCKET, strap to stud	2	
20	556023	DZUS FASTENER, with spring	4	
21	556022	WASHER, Dzus fastener	4	
22	650161	'T' KEY (for Dzus fasteners)	1	

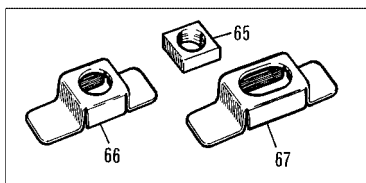
TR2/3, TR3A
to TS60000
Rear Body Panels



TR3A from TS60001
Rear Body Panels



Rear Wing Fitting Kit



Captive Nuts

Ill. No	Part Number	Description	Qty. Req.	Details
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Rear Body & Floor Panels

TR2/TR3/3A

See also: 'EXTERIOR TRIM & BADGES - Rear/Side Body Fittings & Over-riders' on page 204.

1	800574	A' POST ASSEMBLY, RH	1	
	800573	A' POST ASSEMBLY, LH	1	
3	850119	B' POST ASSEMBLY, RH	1	
	850118	B' POST ASSEMBLY, LH	1	
5	900391	SILL, inner assembly, RH	1	
	900390	SILL, inner assembly, LH	1	
7	CHAS1	OUTRIGGER, chassis	2	for body mounting
8	950054	FLOOR, RH	1	
9	950053	FLOOR, LH	1	
10	850038	SILL, outer, RH	1	TR2 from TS4002, TR3/3A
	850037	SILL, outer, LH	1	
12	900613	WING, RH rear	1	
	900612	WING, LH rear	1	

The TR2 had different rear wings (900485/6), but ours will do the job. The rear wing had elongated cage & nuts (CN3 for the cage & CN1 for the nut) to accept the mushroom screw through the boot liner panel.

14	900612FK	FITTING KIT, rear wing (fitting kit includes all fittings for 1 wing)	2	
15	552433	SCREW (mushroom headed) (rear wing to boot liner panel)	10	
16	WM57	WASHER, on mushroom screw	10	
17	HU706P	SET SCREW, rear wing to chassis	6	
18	WM57	WASHER, on screw	6	
19	602167	CLAMP, rear wing fixing	2	
21	HU706P	SET SCREW, rear wing to chassis	4	
22	GHF300	WASHER, plain	4	
23	GHF331	WASHER, locking	4	
24	GHF200	NUT, plain	4	
25	HU706P	SET SCREW, rear wing to qtr panel	18	
26	WM57	WASHER, on screw	18	
27	601937	STAY, rear wing to chassis	2	
30	850044	QUARTER PANEL, RH	1	
	850043	QUARTER PANEL, LH	1	

When we were tooling these quarter panels we could not find a pair of O.E. samples, and those we tooled are both early & late. We continue to produce them to those specifications to this day. We use the late part numbers to describe them. The difference is the way the quarter panel joins the rear deck, see illustration.

Quarter Panel/Rear Deck Joint:



32	900416	QUARTER PANEL, inner, RH	1	
	900415	QUARTER PANEL, inner, LH	1	
34	900421	CLOSING PANEL, LH	1	
	900422	CLOSING PANEL, RH	1	
35	900402	PANEL, inner rear bottom	1	
36	900419	BRACKET, body to chassis, LH	1	
	900420	BRACKET, body to chassis, RH	1	
37	GHF103	SET SCREW	2	rear body bracket to chassis
38	WP17	WASHER, plain	2	
39	GHF332	WASHER, locking	2	
40	GHF201	NUT, plain	2	
41		COVER, gearbox, steel	1	

The TR2/3/3A gearbox tunnel covers were made in steel and have usually survived very well: especially as they were usually continuously sprayed with oil. To secure them to the body requires the following:

42	HU706P	SET SCREW	16	
43	WM57	WASHER, plain	16	

The works rally cars had these screws replaced by Dzus fasteners for speedy removal.

TR2/3, TR3A to TS60000

44	552909	WHEEL ARCH ASSEMBLY, RH	1	
	552908	WHEEL ARCH ASSEMBLY, LH	1	

The rear wheel arch had 9 elongated 'cage with nuts' fitted to receive the bolts through the rear wing and quarter panel. The square nut is CN1 (item 65) and the elongated cage is CN3 (item 67). This concept allowed adjustment to achieve an acceptable fit.

45	900614	LINING PANEL, boot, RH	1	
	900615	LINING PANEL, boot, LH	1	
46	800640	STIFFENER, RH	1	
	800639	STIFFENER, LH	1	
47	900449	PANEL, rear floor	1	

Ill. No	Part Number	Description	Qty. Req.	Details
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48	900475	PANEL, tonneau saddle	1	
49	900479	BOOT LID	1	TR2/3
	802637	BOOT LID	1	TR3A
50	900412	FLOOR, boot	1	
51	900477	REAR APRON	1	TR2, TR3 to TS18912
	901299	REAR APRON	1	TR3 from TS18913, TR3A
52	900483	LID, spare wheel compartment	1	
53	900401	PAN, spare wheel compartment	1	

TR3A from TS60001

There was a major re-tooling of body panels at TS60001; the obvious signs are plinths pressed in the bonnet, scuttle, boot lid and rear tonneau saddle to seat the hinges. Inside the body, the boot floor assembly was changed; the main panel being extended to the full width of the boot area (previously the outer 4" of the floor area on either side were part of the boot lining panel assemblies - item 45). The re-tooled boot lining panels (item 60 in the lower illustration opposite) are now available.



All of the components which changed at TS60001 are listed here and illustrated in the lower half on the opposite page. The remainder of the rear body components follow the 'all model' listing.

55	850052	WHEEL ARCH ASSEMBLY, RH	1	
	850051	WHEEL ARCH ASSEMBLY, LH	1	
56	850117	PANEL, rear floor	1	
57	850124	PANEL, tonneau saddle	1	
58	803780	BOOT LID	1	
59	803767	FLOOR, boot	1	
60	901648	BOOT LINING PANEL, RH	1	
	901647	BOOT LINING PANEL, LH	1	
61	950046	PAN, spare wheel compartment	1	
62	901299	REAR APRON	1	

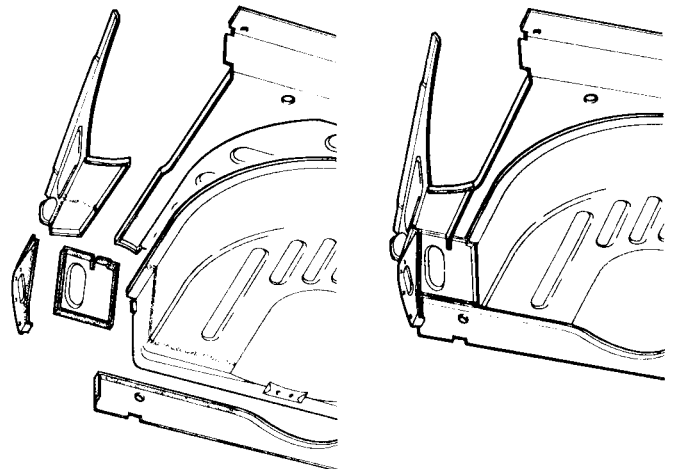
Captive Nuts

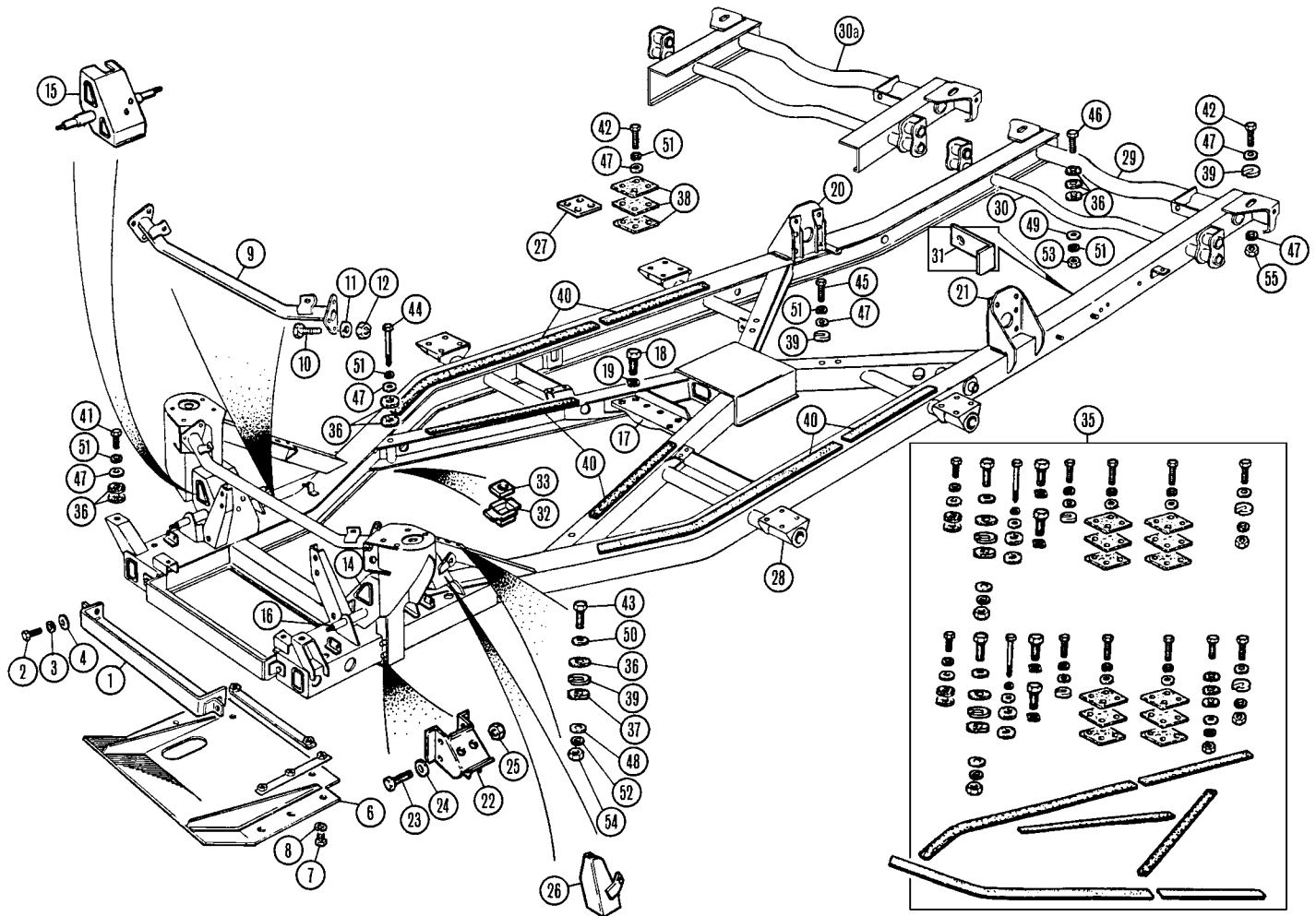
Throughout the TR, there are captive nuts which comprise a cage & square nut. We can supply these individually under the unimpressive CN range of part numbers.

65	CN1	NUT, square	a/r	
66	CN2	CAGE, for nut	a/r	
67	CN3	CAGE, elongated type, for nut	a/r	

Boot Floor Construction

It's not easy to see how the panels shown opposite could be assembled on the car - even less if your example has corroded to the extent whereby, typically, the closing panels (item 34) have virtually disappeared altogether! Here is a visual guide to the construction on the pre TS60000 cars: post TS60001 cars are of course very similar (see heading 'TR3A from TS60001' for differences on this page).





iii. Part Number No	Description	Qty. Req.	Details
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Chassis Frame & Fittings TR4

We are aware that there were variations in the method of building TR4 chassis, which can cause slight changes in the hardware requirements. Some TR4 chassis' had outrigger 'extensions' bolted on for instance. Unfortunately, there is no useful way of predicting where these variations will 'pop-up'.

1	208639	SHIELD, radiator protection	1	original type
2	SH606061	SCREW, shield to chassis	2	
3	GHF333	WASHER, locking	2	
4	GHF302	WASHER, plain	2	
6	301644	SUMP SHIELD, rally type	1	
7	HU706P	SCREW, shield to chassis	8	
8	GHF331	WASHER, locking	8	
9	208604	CROSS-TUBE	1	
10	HU906	BOLT, cross-tube to chassis	6	
11	GHF333	WASHER, locking	6	
12	GHF202	NUT	4	
14	208114	BRACKET, engine mounting, RH	1] include fulcrum pin
	208113	BRACKET, engine mounting, LH	1	
16	106196	FULCRUM PIN,	2	lower inner wishbone
17	128055	CROSS-MEMBER	1	gearbox mounting
18	SH606051	SCREW	4	
		(cross-member to chassis cruciform)		
19	GHF333	WASHER, locking	4	
20	110788	BRACKET, shock absorber, RH	1	
21	110789	BRACKET, shock absorber, LH	1	
22	109281	BRACKET, rebound	2	
23	BH605281	BOLT, rebound bracket to chassis	4	
24	GHF332	WASHER, locking	4	
25	GHF201	NUT, plain	4	
26	133638	BRACKET, bump stop, LH	1	
	133637	BRACKET, bump stop, RH	1	
27	619395	PACKING PLATE	a/r] 'A' & 'B' post mounting to sill bracket

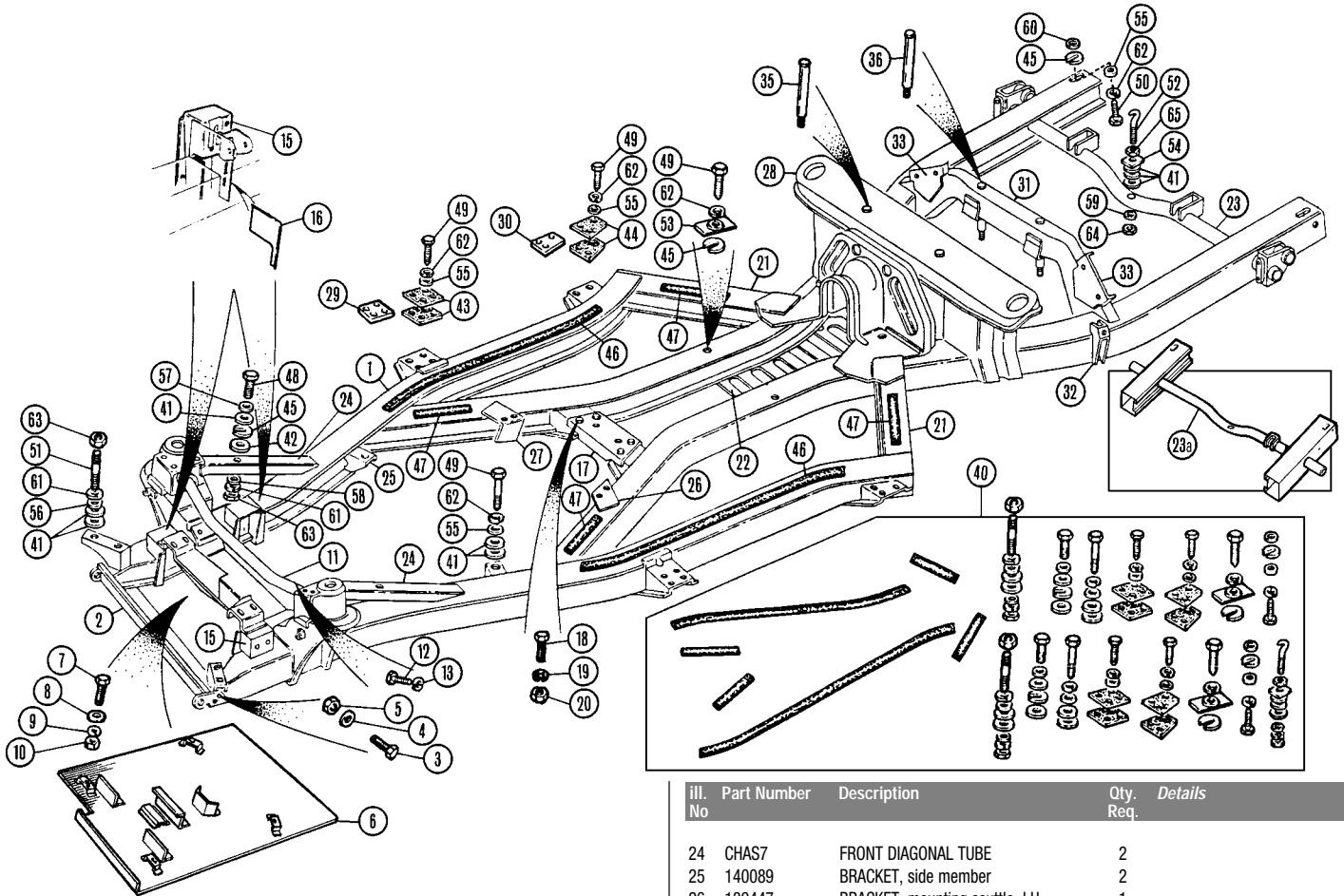
iii. Part Number No	Description	Qty. Req.	Details
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28	CHAS1	CHASSIS OUTRIGGER	4	
29	CHAS2	CROSS TUBE, rear	1	
30	CHAS6	CROSS TUBE, rear spring hangers	1	
30A	CHAS8	CHASSIS REPAIR SECTION, rear	1	
		Repair section includes Cross tubes CHAS2 & CHAS6.		
31	132933	BRACKET, exhaust mounting	1	under axle
32	600032	NUT, (retainer nut)	2	
33	NQ2708	NUT, square	2	

Body Mounting Pad Set

Due to the adjustments necessary in mounting the body square to the chassis, a greater number of pads are included in each kit than are shown in the parts book. More pads may be ordered separately to further 'shim' the mounting points.

35	GFK6002X	PAD SET, body mounting	1	
36	601994	PAD, rubber/canvas, thin	13	
37	608836	PAD, rubber/canvas, thick	2	
38	611732	PAD, rubber/canvas, square	12	
39	CD26326	PAD, aluminium, notched	6	
40	601995M	STRIP, protection, (sold per metre)	4	cut to suit
41	GHF103	SCREW	2	
42	SH605101	SCREW	18	
43	SH606201	SCREW	2	
44	BH605321	BOLT	2	
45	SH605111	SCREW	2	
46	BH605181	BOLT	1	
47	WP185	WASHER, plain	26	
48	GHF302	WASHER, plain	2	
49	GHF301	WASHER, plain	1	
50	WM59	WASHER, plain	2	
51	GHF332	WASHER, locking	23	
52	GHF333	WASHER, locking	2	
53	GHF201	NUT, plain	1	
54	GHF202	NUT, plain	1	
55	GHF222	NUT, nylon	2	



Ill. No	Part Number	Description	Qty. Req.	Details
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Chassis Frame & Fittings TR4A

1	402284	CHASSIS	1	TR4A IRS
2	213021	SHIELD, radiator protection	1	original type
3	SH606071	SCREW, shield to chassis	4	
4	GHF333	WASHER, locking	4	
5	GHF202	NUT	4	
6	308208	SUMP SHIELD, (rally type)	1	
7	SH606061	SCREW, securing shield	4	
8	GHF302	WASHER, plain	4	
9	GHF333	WASHER, locking	4	
10	GHF202	NUT, plain	4	
11	211419	CROSS-TUBE	1	
12	SH606071	SCREW, cross-tube to chassis	2	
13	GHF333	WASHER, locking	2	

The lower front inner wishbone brackets which are welded to the chassis are considered weak points of the front suspension, as they are often found top be cracked or even broken away. These brackets are easily replaced by a competent chassis repair workshop, and represent a considerable improvement to the earlier TR2/3/3A and TR4 design. On these earlier cars, instead of breaking a bracket, the entire spring tower twists & cracks - much more difficult and expensive to repair than a bracket! It's a good idea to periodically check your front inner wishbone brackets and have them replaced if they are cracked or broken, as this condition represents a severe safety hazard.

15	139580	BRACKET	4	
<i>(lower inner wishbone mounting)</i>				
We have followed a design from Triumph themselves and produced a strengthening kit (item 15), which comprises three plates which are welded to the bracket 139580 (item 15) and the chassis.				
16	TT3259R	STRENGTHENING KIT, RH	1	} 3 plates per kit
	TT3259L	STRENGTHENING KIT, LH	1	
17	211361	CROSS-MEMBER	1	gearbox mounting
18	SH606051	SCREW, cross-member	4	
19	GHF333	WASHER, locking	4	
20	GHF202	NUT, plain	4	
21	CHAS3	OUTRIGGER, trailing arm	1	
22	CHAS4	BREASTPLATE	1	
23	CHAS6	CROSS-TUBE	1	<i>(brackets not included)</i>
23A	CHAS10	CHASSIS REPAIR SECTION, rear	1	
<i>(Repair section includes Cross tube CHAS6)</i>				

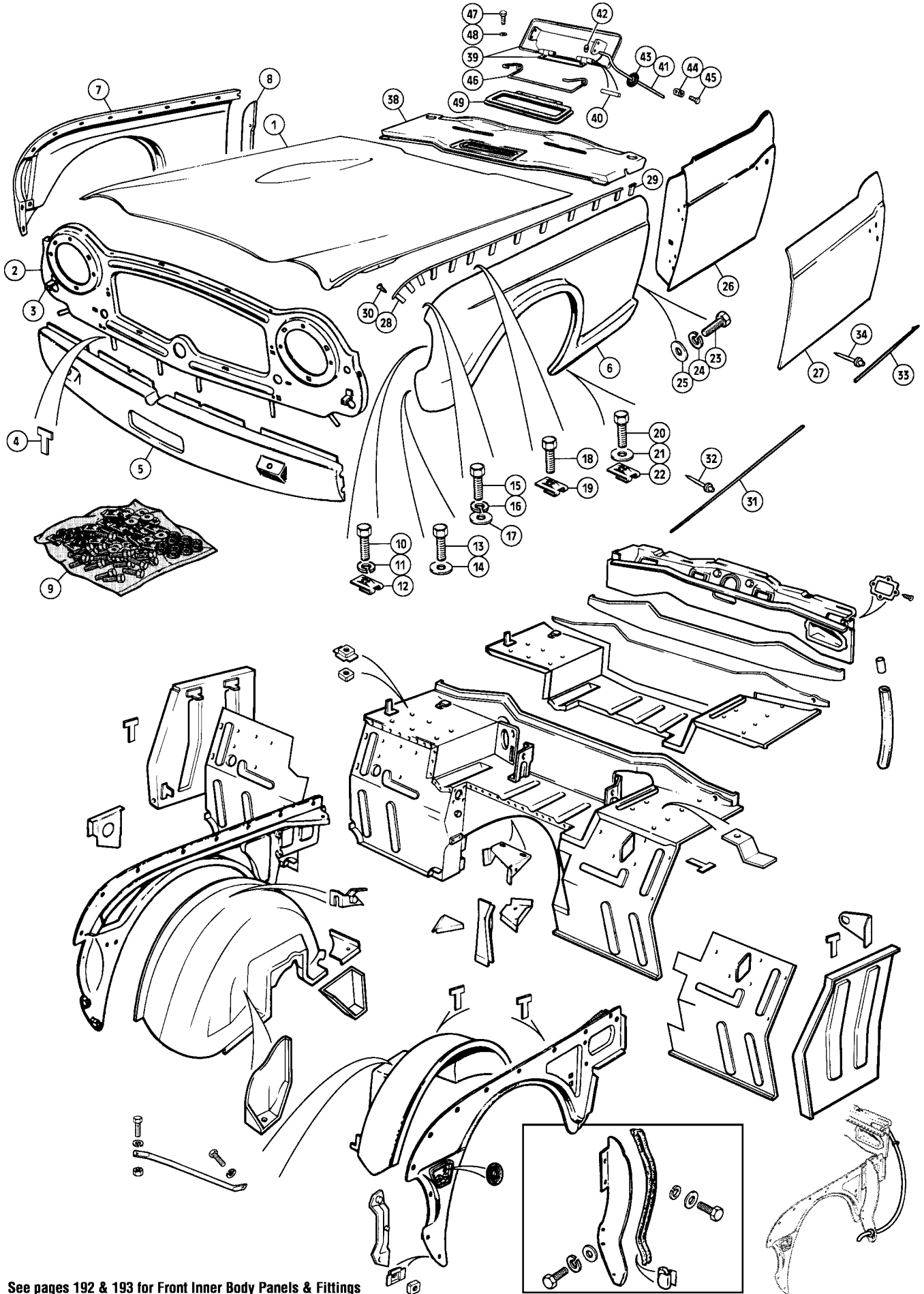
24	CHAS7	FRONT DIAGONAL TUBE	2	
25	140089	BRACKET, side member	2	
26	139447	BRACKET, mounting scuttle, LH	1	
27	139448	BRACKET, mounting scuttle, RH	1	
28	214107	BRACKET, front diff' mounting	1	
29	619395	PACKING PLATE	a/r	A' post mounting to sill bracket
30	619396	PACKING PLATE	a/r	B' post mounting to sill bracket
31	214031	CROSS-MEMBER, rear diff'	1	IRS models
32	140194	BRACKET, rebound, LH	1	
	140195	BRACKET, rebound, RH	1	
33	147947	BRACKET (rear shock abs' mounting)	2	
35	147671	STUD, front diff' mounting	2	
36	147400	STUD, rear diff' mounting	2	

Body Mounting Pad Set

Due to the adjustments necessary in mounting the body square to the chassis, a greater number of pads are included in each kit than are shown in the parts book. More pads may be ordered separately to further 'shim' the mounting points.

40	574244	PAD SET, body mounting	1	
41	601994	PAD, rubber/canvas, thin	13	
42	608836	PAD, rubber/canvas, thick	2	
43	611732	PAD, rubber/canvas, front mounting	4	
44	616613	PAD, rubber/canvas, rear mounting	4	
45	CD26326	PAD, aluminium, notched	6	
46	6019953	STRIP, protection	2	
47	6019954	STRIP, protection	4	
48	SH606201	SCREW	2	
49	SH605111	SCREW	18	
50	SH605101	SCREW	2	
51	143712	STUD	2	
52	650017	HOOK BOLT, spare wheel pan	1	
53	619585	PLATE, reinforcing	2	
54	611875	PLATE, reinforcing	1	
55	WP185	WASHER, plain	18	
56	WD110061	WASHER, plain	2	
57	WC110061	WASHER, plain	2	
58	GHF302	WASHER, plain	2	
59	GHF301	WASHER, plain	1	
60	WP19	WASHER, plain	2	
61	GHF333	WASHER, locking	4	
62	GHF332	WASHER, locking	20	
63	GHF202	NUT, plain	4	
64	GHF272	NUT, nyloc	1	
65	GHF201	NUT, plain	1	

190 | Front Outer Body Panels TR4/4A



See pages 192 & 193 for Front Inner Body Panels & Fittings

Ill. No	Part Number	Description	Qty. Req.	Details
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Front Outer Body Panels/Fittings & Door Panels

TR4/4A

See also: 'EXTERIOR TRIM & BADGES - Front/Side Body Fittings, Grille & Bumper' on page 206.

Owners of TR4/4A models are really very lucky in terms of availability of body panels.

Unlike the TR2/3/3As which were designed to have flowing curves with difficult to construct three-dimensionally directed panels, the TR4 was a relatively simple car to tool in the sense that with the exception of the boot lid and four wheel arches, very few panels had extremely deep draws. This has been a 'godsend' when we come to re-tool the panel work for the car.

You may, or may not be aware that the centre section of the TR4 body shell was continued through for use on the TR5 & TR6, thus items such as floors, inner and outer sills, front door posts, door skins etc., are still available because British Motor Heritage was around in time to rescue the TR6 tooling, which usually was the same tooling as had been used to produce the TR4 item. They were not around to rescue the TR4 tooling which I remember being scrapped in 1977. I could do nothing to prevent this very depressing state of affairs.

When Pete Cox and I went into partnership in the amateur business of Spare Secretaries to the TR Register, it was late 1970 and the TR5 had barely finished production. The TR6 was the car of the moment, but availability of sheet metal for the TR4/4A and TR5 was very good. When I say very good you will note that I do not use 100%, because even by then things like boot floor sides & boot floors were not available. In their wisdom, Triumph believed that there would be very little call for these items and hence, no provision was made to hand over the production tooling to the spares department. Incidentally, they did the same with the similar panels on the TR6. However, almost all outer panels were available & supply was just 14 days away via the Triumph delivery service.

Our endeavours had been to supply as much of the TR2/3/3A sheet metal as possible, and it was a relatively easy task to add TR4 to the range of panels we re-manufactured because, rather conveniently, they were discontinued in a gradual fashion as they ran out. Thus, we could be tooling the left inner front wing of the TR4 whilst still supplying genuine right hand TR4 front wings, due to the fact that we could get those from the factory. When they ran out, we re-tooled them, so the continuity of supply of these panels has been quite reasonable. The general shape of the panels has also made them easier to re-tool, with the exception of the front & rear wings. These panels have proved to be extremely difficult to make accurately, and in the last few years we have spent a substantial number of thousands of pounds building and improving jigs and fixtures for final finishing on these components. The high content of hand work on these panels means that they will never be cheap, but I think it is fair to say that there are very few vehicles manufactured in 1963 for which you can buy virtually every single item to assemble a body shell 'off the shelf' at your local Moss branch.

We are particularly proud of the body panel range we offer the TR4/4A, and feel that there is almost no rebuild job that should be prevented from being carried out on a TR4 or TR4A body due to a lack of availability of parts.
Peter Buckles

Bonnet & Valances

1	950121	BONNET	1	TR4 to CT6429
1	903178	BONNET	1	TR4 CT6430 to CT37689
1	904130	BONNET	1	TR4 from CT37690 & TR4A
<i>For bonnet fitting details please see page 206.</i>				
2	850618	UPPER VALANCE, front	1	TR4
	808801	UPPER VALANCE, front	1	TR4A
3	616886	BRACKET (grille & lamp attachment)	2	
4	603559	WIRING LOOM TAG	a/r	
5	850406	LOWER VALANCE, front	1	without oil cooler aperture
	812030	LOWER VALANCE, front	1	with oil cooler aperture

Front Wings

6	950109	FRONT WING, LH	1	} Steel
7	950110	FRONT WING, RH	1	
	950109AL	FRONT WING, LH (Lightweight)	1	} aluminium
	950110AL	FRONT WING, RH (Lightweight)	1	
	850455	GUSSET, wing to A post, LH	1	(See also page 35)
8	850456	GUSSET, wing to A post, RH	1	
9	950109FK	FITTING KIT, front wing	2	
10	650307	SCREW, special, wing forward edge	2	
11	WQ307	WASHER, locking	6	
12	FN2059	SPIRE NUT	2	
13	HU706P	SCREW, set, wing to lower valance	4	
14	WM57	WASHER, plain	4	
15	HU706P	SCREW, (wing to upper valance)	4	
16	WQ307	WASHER, locking	4	
17	WM57	WASHER, plain	4	
18	650307	SCREW, special (wing to inner wing)	14	

Ill. No	Part Number	Description	Qty. Req.	Details
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19	FA3058	SPIRE NUT	14	
20	UL2705	BOLT, Acme type, wing to sill	6	
21	WM57	WASHER, plain	6	
22	FA3058	SPIRE NUT	6	
23	HU706P	SCREW (wing to 'A' post)	6	
24	WQ307	WASHER, locking	6	
25	WM57	WASHER, plain	6	

Doors & Door Skins*

26	634829	DOOR, LH	1	} steel
27	812775	DOOR SKIN, LH	1	
	812775AL	DOOR SKIN, LH (Lightweight)	1	} aluminium
	638830	DOOR, RH	1	
	812776	DOOR SKIN, RH	1	} steel
	812776AL	DOOR SKIN, RH (Lightweight)	1	

*To be accurate, these doors (and skins) are TR5/250 & TR6. The skins can be easily fitted to TR4/4A door shells, but require minor alterations to the door handle and lock apertures. To fit these doors to TR4/4A all the components of the later cars doors must be fitted, as must the TR5/250 & TR6 rear door-posts, and their locking & latching mechanisms.

If the idea is to fit new parts throughout, during the rebuild, this probably represents the only accessible route and worthwhile consideration - even for the purist.

Skins will require the handle & lock apertures to be re-positioned.

Wing Beading & Body Mouldings

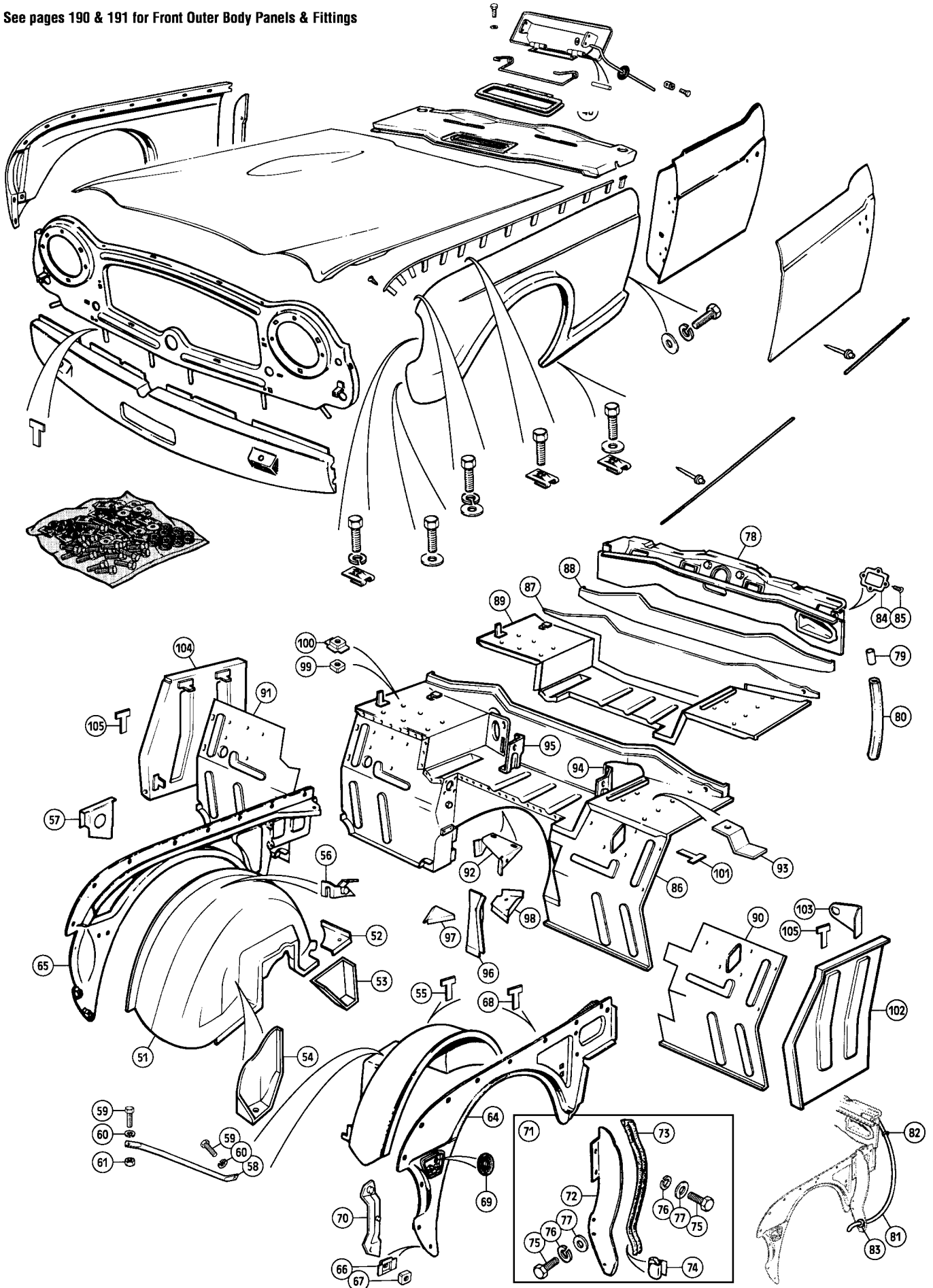
	TR45WBS	WING BEADING SET, 6 pieces	1	
28	850479	WING BEADING, front wing, LH	1	
	850480	WING BEADING, front wing, RH	1	
	750126	WING BEADING, upper rear wings	2	
	750187	WING BEADING, lower rear wing, LH	1	
	750188	WING BEADING, lower rear wing, RH	1	
29	553926	LOCATING TAB	52	
30	YZ3304	SCREW, self tapping, beading	2	
31	708477	MOULDING, front wing, LH	1	
	708478	MOULDING, front wing, RH	1	
32	621943	RIVET CLIP, wing moulding	14	
33	708487	MOULDING, door, RH & LH	2	
34	GHF1461	RIVET CLIP, door moulding	12	

Scuttle Top

38	850352	SCUTTLE TOP PANEL	1	
39	705242	VENT LID	1	
40	563040	PIN, hinge	2	
41	611117	ROD, vent lid operating	1	
42	FR1202	NUT, fix round	1	
43	061917	GROMMET, vent lid operating rod	1	
44	604844	CABLE CLAMP, rod to vent lever	1	
45	564832	SCREW, for clamp	1	
46	611145	SPRING, vent lid	1	
47	HU503	SCREW, vent lid to scuttle	3	
48	WL205	WASHER, locking	3	
49	611118	SEAL, vent lid	1	

192 | Front Inner Body Panels TR4/4A

See pages 190 & 191 for Front Outer Body Panels & Fittings



Ill. No	Part Number	Description	Qty. Req.	Details
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Front & Inner Body Panels and Fittings

Wheel Arch Assembly

51	850453	WHEEL ARCH ASSEMBLY, RH	1	
	850452	WHEEL ARCH ASSEMBLY, LH	1	
52	811485	REINFORCEMENT, arch, upper, RH	1	
	811480	REINFORCEMENT, arch, upper, LH	1	
53	811494	REINFORCEMENT, arch, lower, RH	1	
	811493	REINFORCEMENT, arch, lower, LH	1	
54	811704	BRACKET, mounting to chassis, RH	1	
	811703	BRACKET, mounting to chassis, LH	1	
55	603559	WIRING LOOM TAG	9	8 on LH, 1 on RH.
56	750229	BRACKET, bonnet stay rod	1	not included with part of RH wheel arch.
	623588	BRACKET, body lifting, LH	1	
57	623589	BRACKET, body lifting, RH	1	
58	750205	STAY ROD, valance to wheel arch, LH	1	
	750206	STAY ROD, valance to wheel arch, RH	1	
59	HU706P	SCREW, upper valance & wheel arch	4	
60	WQ307	WASHER, locking	4	
61	HN2007	NUT, plain	2	

Front Inner Wings

64	811944	INNER WING, LH	1	
65	811945	INNER WING, RH	1	
66	600669	RETAINER, nut cage	4	
67	NQ2707	NUT, square, captive	4	
68	603559	TAG, securing wiring loom	a/r	
69	061917	GROMMET, side lamp lead	2	
70	850457	FILLER, LH, front wing	1	
	850458	FILLER, RH, front wing	1	
71	750150K	BAFFLE PLATE KIT, LH	1	
	750151K	BAFFLE PLATE KIT, RH	1	
72	750150	BAFFLE PLATE, LH	1	
	750151	BAFFLE PLATE, RH	1	
73	650172	SEAL, baffle plate	2	
74	606389	CLIP, seal to baffle plate	6	
75	HU706P	SCREW, baffle plate	12	
	HU706SS	SCREW, baffle plate, (Stainless steel)	12	alternative
76	GHF331	WASHER, locking	12	
77	WM57	WASHER, plain	12	

Corrosion occurring in the lower edges of front wings can be minimised by ensuring that sealer plates and seals are in good condition, and do not allow the passage of water and/or dirt. The lower edge of the wing is crimped to provide for 'vertical' drainage (dream on!), and require very frequent un-blocking with soft wire to achieve even the remotest success. A build-up of dirt here will rapidly have a destructive effect on the front portions of the outer sills, (as sales people perhaps we shouldn't mention this!)

Plenum & Bulkhead Assemblies

78	811989	PLENUM ASSEMBLY	1	
79	650162	DRAIN TUBE, plenum	2	
80	650308	HOSE, rubber	2	plenum water drainage

Water drainage from the plenum is very important if wet carpets and feet are to be avoided. Regular clearing of the drain hoses with a flexible rod will dislodge any congealing rain soaked leaves or small furry fauna which might otherwise block the system. A longer water drain hose can be fitted to take the water out of the wing/sill/bulkhead box section.

The hole should provide a snug fit for the hose, (see illustrations 81 to 83 opposite).

81	602057	HOSE, longer with elbow end	2	
82	CS4013	CLIP, hose	2	
83	AHA8401	GROMMET, hose	2	
84	650159	PLATE, wheel box access	2	Refit using suitable, pliable water sealant
85	YZ3403	SCREW, plate to plenum	8	

Ill. No	Part Number	Description	Qty. Req.	Details
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86	812252	BULKHEAD ASSEMBLY, RHD	1	
	812253	BULKHEAD ASSEMBLY, LHD	1	
87	812120	REPAIR PANEL, vertical (behind battery)	1	RHD
	812121	REPAIR PANEL, vertical (behind battery)	1	LHD
88	812122	REPAIR PANEL, vertical section	1	to plenum
89	907418	REPAIR PANEL (horizontal section below battery)	1	RHD
	907419	REPAIR PANEL (horizontal section below battery)	1	
90	815836	FOOTWELL FRONT PANEL, LH	1	RHD
91	811979	FOOTWELL FRONT PANEL, RH	1	
	815837	FOOTWELL FRONT PANEL, LH	1	LHD
	811981	FOOTWELL FRONT PANEL, RH	1	
92	705219	BRACKET, steering column strap	1	RHD
	705218	BRACKET, steering column strap	1	LHD
93	611152	BRACKET, wiper motor mount	2	
94	611048	BRACKET, battery stay LH	1	
95	610796	BRACKET, battery stay RH	1	
96	750058	POCKET, bulkhead	1	
97	612283	GUSSET, bulkhead pocket	1	
98	706313	GUSSET, dash, LH	1	
99	NQ2708	NUT, square, pedals to bulkhead	a/r	
100	600032	RETAINER, square nut	a/r	
101	603559	TAG, wiring loom	a/r	

Wiring Loom Tags

These little tinkers have caused many heated discussions over the years. The long thin tag used on the inner front wings and wheel arches was part number 603559. Fact: It was 'T' shaped.

Fact: The item was redesigned 13th January 1978 and was then no longer shaped.

102	811985	BULKHEAD END PANEL, LH	1	
	811985Z	BULKHEAD END PANEL, LH	1	reproduction
103	615901	BRACKET, bonnet release cable	1	
104	811986	BULKHEAD END PANEL, RH	1	
	811986Z	BULKHEAD END PANEL, RH	1	reproduction
105	650290	TAG, wiring loom	a/r	

194 | Body Paints & Codes (All Models)

Ill. No	Part Number	Description	Qty. Req.	Details
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Moss Classic Car Colours

Moss Europe has a division (called 'Classic Car Colours') that specialises in the production of spray & touch-up paints.
If there is sufficient demand to 're-instate' a colour, we will do our utmost to include it in our range

It is fair to say that Triumph experimented a great deal in the early TR days before settling on 6 basic colours for the TR4/4A paint work range. Not only that, but in addition to the colours listed here, practically anything could also be arranged to special order.

The control of paint & trim colours in those pre-computer days was no doubt very time consuming. It is believed that Triumph actually tried to play down their hard won (and deserved) sporting image by re-naming 'British Racing Green' with the anonymous sounding 'Conifer', still, as the competition department had painted their rally TR4's 'Wedgwood Blue' by then, maybe there were plans for a new colour; 'British Racing Wedgwood'!

The colours here are carefully blended to be an exact match to the original paint as used by the factory, but it is worth observing that your car may well have faded from its original colour over the years. For this reason before you start, we recommend that you do a test spray of any aerosol on a piece of old metal or a carefully selected area of the car where a mis-match will not be noticed.

We can supply paint in either aerosol or brush-on format.

The aerosols come in 300ml cans and the brush-on paints are available in 125ml cans with a brush in the cap (except for engine and chassis paints, which are supplied in 500ml tins).

Colour	TR Code	Year	Aerosol	Touch-up
Matador Red	12	Special order	CCRD12	CCRD12TU
New White	19	3/1963 on	CCWT19	CCWT19TU
Triumph Racing Green (Conifer)	25	1/1963 on	CCGN25	CCGN25TU
Wedgwood Blue	26	3/1963 on	CCBU26	CCBU26TU
Signal Red	32	7/1953 on	CCRD32	CCRD32TU
Royal Blue	56	3/1963	CCBU56	CCBU56TU
British Racing Green	75	7/1953 to 1/1963	CCGN75	CCGN75TU
Beige	74	10/1955 to 11/1957		
Spa White		6/1960 to 3/1963		
Powder Blue		9/1957 to 3/1963		
Velasquez Cream	61			
Geranium		to 7/1954		
Ice Blue		to 7/1953		
Olive Yellow		to 7/1953		
Pearl White		to 9/1958		
Salvador Blue		10/1955 to 9/1956		
Apple Green		10/55 to 9/1958		
Winchester Blue		9/1956 to 11/1957		
Pearl Grey		9/1957 to 9/1958		
Primrose Yellow		9/1957 to 9/1958		
Pale Yellow		9/1958		
Sebring White		9/1958		
Silverstone Grey		9/1958		

General Paints

Wheel Silver	CCWP1	CCWP1TU
'Crackle Black'	MRD1048A	
Super Black Gloss	CCSB1	CCSB1TU
Satin Black	CCSB2	CCSB2TU
Matt Black	CCMB1	
Primer (High Build)	CCP1	CCP1TU
Engine Paint (Black)	CCEP4	CCEP4BR
Chassis Paint (Black) (Supplied in 500ml tins)	CCCB1BR	

Engine Paints

Maroon	CCEP1	CCEP1BR
Metallic Green	CCEP2	CCEP2BR
Green	CCEP3	CCEP3BR
Engine Black	CCEP4	CCEP4BR
Gold	CCEP6	CCEP6BR
Yellow	CCEP11	CCEP11BR
Bright Red	CCEP10	

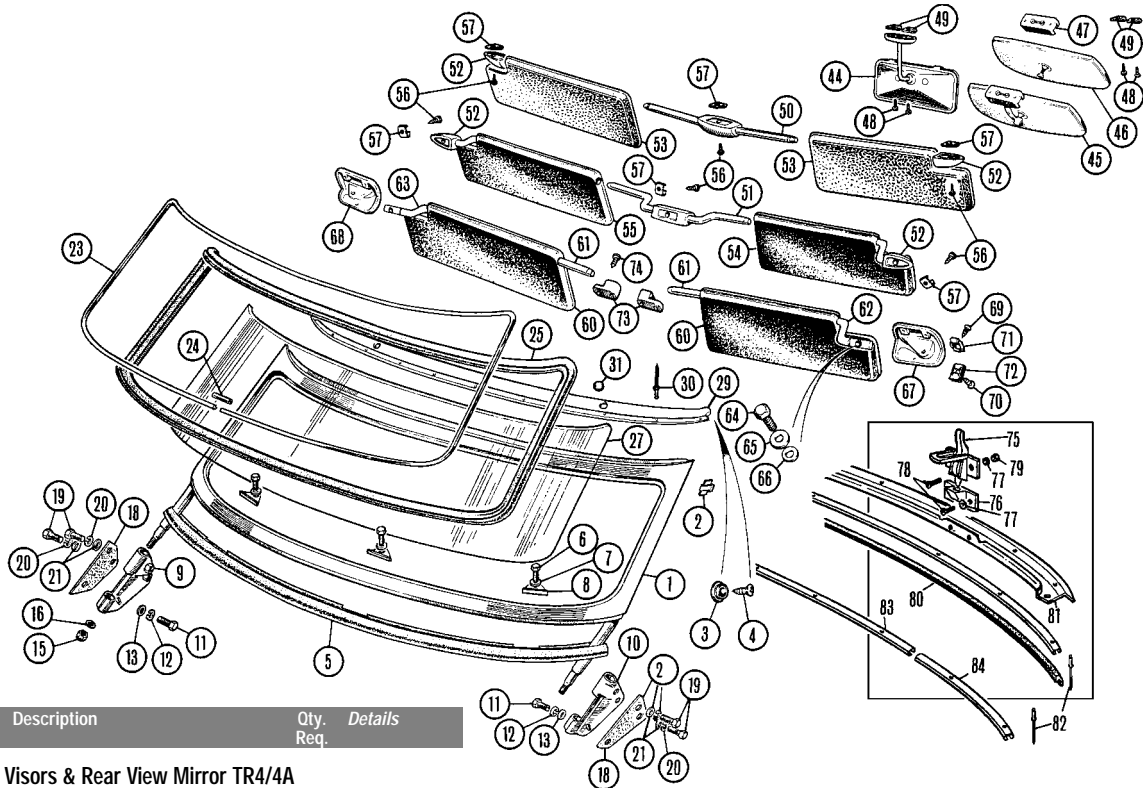
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Grommets (by size)

061917	GROMMET, rubber	a/r	fits 1/2" hole
600395	GROMMET, rubber, very small hole	a/r	fits 1" hole
600396	GROMMET, rubber, small hole	a/r	fits 1" hole
600397	GROMMET, rubber, medium hole	a/r	fits 1" hole
602037	GROMMET, rubber, large hole	a/r	fits 1" hole
612715	GROMMET, rubber (as 602037 but to fit thicker panel section)	a/r	fits 1" hole
131155	GROMMET, rubber	a/r	fits 1 1/4" hole
600400W	GROMMET, rubber	a/r	fits 1 1/2" hole
622683	GROMMET, rubber	a/r	fits 2 3/8" hole TR250 only
650247	GROMMET, rubber	a/r	fits 2 3/8" hole TR5 only
610608	GROMMET, rubber	a/r	fits 2 3/8" hole

Plugs (by size)

CD22869	PLUG, rubber	a/r	fits 1/4" hole
603790	PLUG, rubber	a/r	fits 5/16" hole
CD27769	PLUG, rubber	a/r	fits 3/8" hole
RFR208	PLUG, rubber	a/r	fits 1/2" hole
CD25672	PLUG, rubber	a/r	fits 5/8" hole
612235	PLUG, rubber	a/r	fits 7/8" hole
600399	PLUG, rubber	a/r	fits 1" hole
623176	PLUG, rubber	a/r	fits 1 3/8" hole
600400	PLUG, rubber	a/r	fits 1 1/2" hole
605602	PLUG, rubber	a/r	fits 2 1/2" hole
603384	PLUG, rubber	a/r	fits 3 1/4" hole



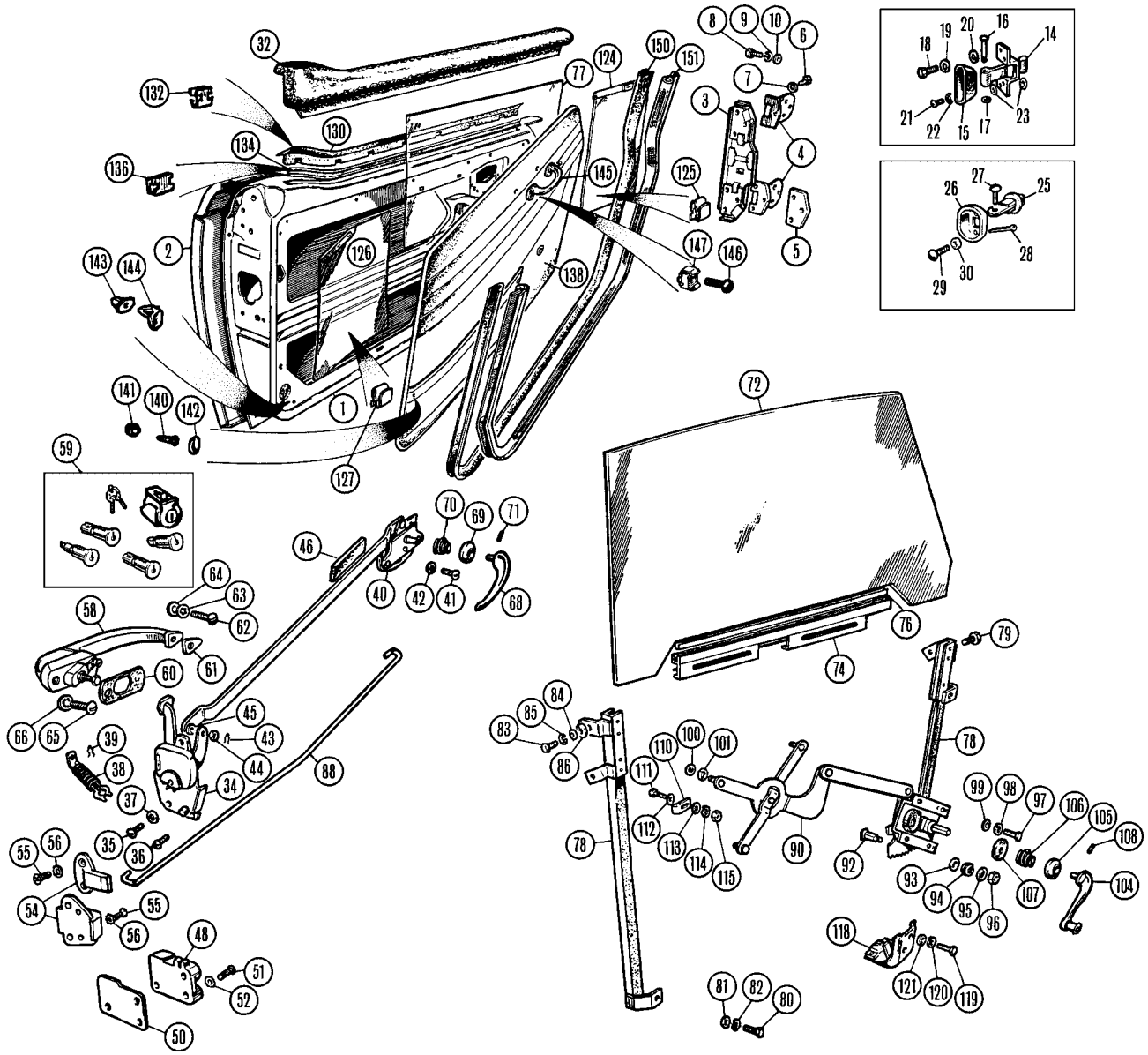
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Windscreen, Sun Visors & Rear View Mirror TR4/4A

See also Accessories (Page 20) for plexiglass Sun Visors.

Ill. No	Part Number	Description	Qty. Req.	Details
1	714771	FRAME, windscreen	1	
2	611895	BRACKET, soft top to frame	2	TR4
3	610624	FASTENER, for soft top	2	
4	AD606071	SCREW	2	
<p>(TR4s fitted with Surrey soft tops will also need items 3 & 4)</p>				
5	650130	SEAL, frame to body	1	
6	624818	BOLT, frame to body	3	
7	WA108052	WASHER, chrome	3	
8	611669	COVER PLATE	3	
9	750158	BRACKET, frame mounting, RH	1	
10	750157	BRACKET, frame mounting, LH	1	
11	GHF101	SCREW, bracket to 'A' post	2	
12	GHF331	WASHER, locking	2	
13	WM93	WASHER, plain	2	
15	GHF272	NUT, nyloc	2	
16	WP139	WASHER, plain	2	
18	650313	PACKING, bracket to 'A' post	2	
19	GHF117	SCREW, bracket to 'A' post	4	
20	GHF331	WASHER, locking	4	
21	WM93	WASHER, plain	4	
23	613954	FINISHER, glazing rubber	1	
<p>This one piece finisher may be substituted for the (early) TR4 two piece type. It can even be cut and an additional joining clip (item 24) used to make it look like the early type.</p>				
24	611437	CLIP, finisher	1/2	
25	913442	RUBBER, glazing	1	
27	906707	WINDSCREEN GLASS (laminated)	1	clear
	906707TT	WINDSCREEN GLASS (laminated)	1	top tinted
29	806189	CAPPING STRIP	1	TR4 and TR4A
				with Surrey Top
				TR4A soft top
	808231	CAPPING STRIP	1	
30	RU608123	RIVET, capping strip to frame	11	
31	612976	PLUG, capping strip	2	
44	614090	MIRROR ASSEMBLY, metal	1	TR4/4A
45	632095	MIRROR ASSEMBLY, plastic	1	alternative
46	632091	MIRROR HEAD	1	
47	RTC1006	MOUNTING	1	
48	AD608063	SCREW, mirror	2	both types of mirrors
49	GHF711	SPIRE CLIP	2	
50	611103	CENTRE MOUNTING, sun visor	1	TR4
51	616317	CENTRE MOUNTING, sun visor	1	TR4A
52	611104	OUTER MOUNTING, sun visor	2	TR4
	616318	OUTER MOUNTING, sun visor	2	TR4A
53	705754	SUN VISOR, white	2	TR4
54	708288	SUN VISOR, L/H	1	TR4A
55	708289	SUN VISOR, R/H	1	

Ill. No	Part Number	Description	Qty. Req.	Details
56	AD608083	SCREW, sun visor mounting	3	
57	GHF711	SPIRE FIXING	3	
<p>Many of the items comprising the mounting of the TR4/4A sun visors are not currently available. While not original, we can offer a complete range of the TR5/250 & TR6 parts as alternatives if all the mounting brackets & hardware are replaced as a set. (see items 60 to 74 listed here)</p>				
60	812719	SUN VISOR, driver, White	1	
	823421	SUN VISOR, driver, Black	1	
	812749	*SUN VISOR, passenger, White	1	RHD
	812759	*SUN VISOR, passenger, White	1	LHD
	823461	*SUN VISOR, passenger, Black	1	RHD
	823471	*SUN VISOR, passenger, Black	1	LHD
<p>*with mirror</p>				
61	812760	MOUNTING BAR, inner	2	
62	812761	MOUNTING BAR, LH, outer	1	
63	812762	MOUNTING BAR, RH, outer	1	
64	SH604041	SCREW	2	
<p>(outer mounting bar to windscreen)</p>				
65	WP144	WASHER, plain	2	
66	GHF300	WASHER, plain	2	
67	812684	BRACKET, mounting, LH	1	
68	812685	BRACKET, mounting, RH	1	
69	509556	SCREW	2	
70	512156	SCREW	4	
71	570145	FIX NUT*	2	
<p>*Note: Cars fitted with original TR4/4A windscreen frames will find that screw (item 64), prevents the mounting bars & unions fitting flush with the screen frame. Later frames (TR5 on) have holes opposite the 2 screws. We suggest you countersink the mounting bar bars (812761/812762) and 'loctite' the countersunk screws (SF604041, shortened as required) into the mounting brackets.</p>				
72	FC2804	FIX NUT	4	
73	622431	RETAINER, sun visor	2	
74	AB606051	SCREW, to windscreen frame	4	
75	609331	LATCH, on header rail	2	TR4A
76	609332	SOCKET, for latch	2	
77	WL700101	WASHER, locking	4	
78	RMP310	SCREW	4	
79	HN2005	NUT	4	
80	616187	SEAL, header rail	1	
81	708250	CHANNEL, for header rail	1	
82	RU608123	RIVET, attaching channel	a/r	
<p>The original one-piece header rail channel (item 81) is not currently available. As a replacement we offer the three pieces used on TR5/250, TR6.</p>				
83	713036	CHANNEL, centre	1	
84	713038	CHANNEL, RH side	1	
	713037	CHANNEL, LH side	1	



Ill. No	Part Number	Description	Qty. Req.	Details
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***Doors, Door Skins & Fittings TR4/4A**

1	634829	DOOR, LH	1	steel
2	812775	DOOR SKIN, LH	1	aluminium
	812775AL	DOOR SKIN, LH (Lightweight)	1	
	638830	DOOR, RH	1	
	812776	DOOR SKIN, RH	1	steel
	812776AL	DOOR SKIN, RH (Lightweight)	1	aluminium

*To be accurate, these doors and skins are TR5/250 & TR6. The skins can be easily fitted to TR4/4A door shells, but require minor alterations to the door handle and lock apertures.

To fit these doors to TR4/4A all the components of the later cars doors must be fitted, as must the TR5/250 & TR6 rear door-posts, and their locking & latching mechanisms. If the idea is to fit new parts throughout, during the rebuild, this probably represents the only accessible route and worthwhile consideration even for the purist Skins will require the handle & lock apertures to be re-positioned.

3	750074	REINFORCEMENT, hinge, LH	1	TR4 to CT22343
	750075	REINFORCEMENT, hinge, RH	1	
	707059	REINFORCEMENT, hinge, LH	1	TR4 from CT22344, TR4A
	707060	REINFORCEMENT, hinge, RH	1	

4	650112	HINGE ASSEMBLY	4	
5	610042	PACKING, hinge	a/r	
6	SH605051	SCREW, hinge to door	12	
7	GHF332	WASHER, locking	12	

Ill. No	Part Number	Description	Qty. Req.	Details
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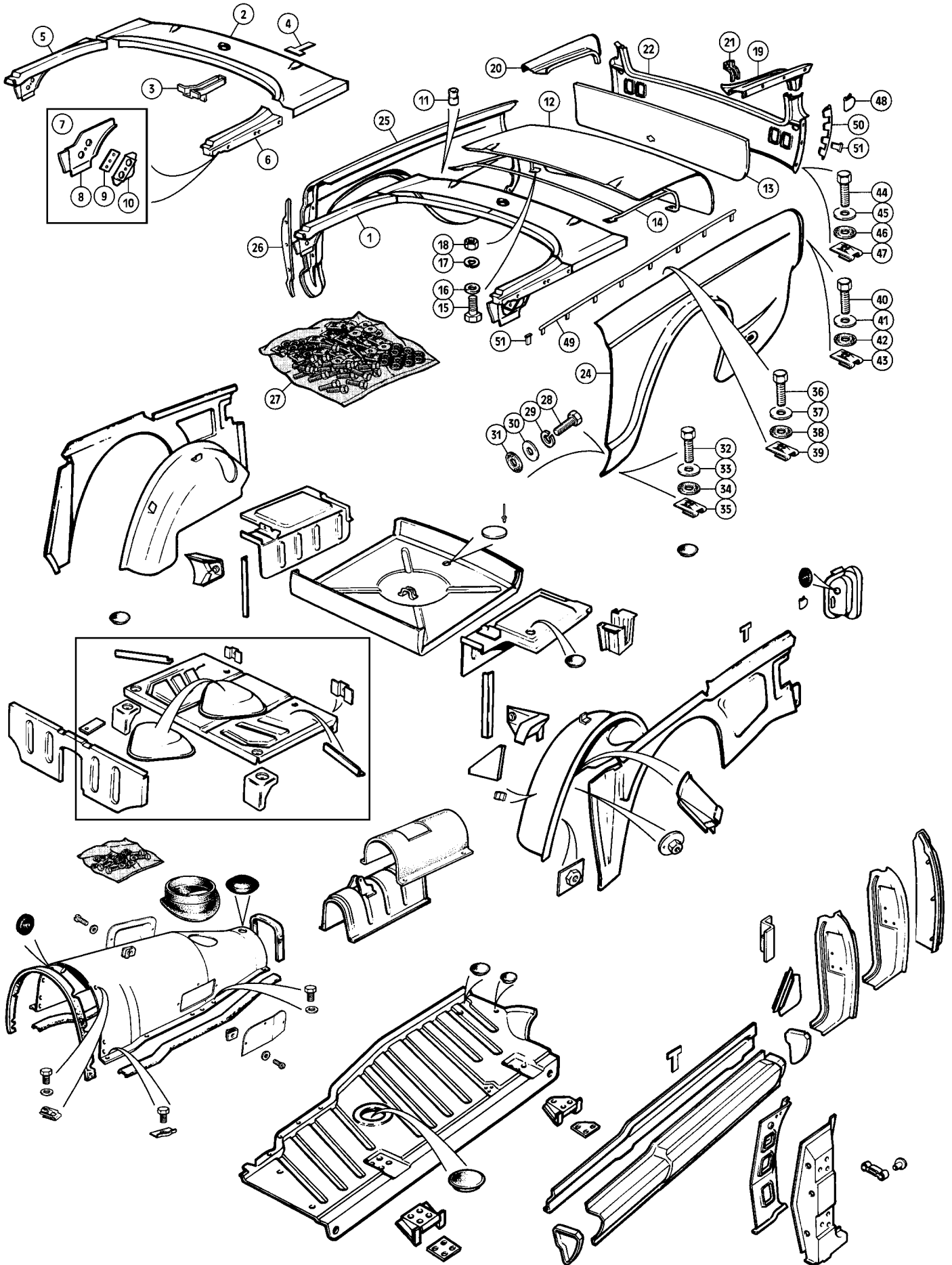
8	SH605061	SCREW, hinge to body	12	
9	GHF332	WASHER, locking	12	
10	PWZ205	WASHER, plain	12	
1				
4	613913	DOOR CHECK STRAP, LH	1	TR4 to CT22343
	613914	DOOR CHECK STRAP, RH	1	
15	650201	CHECK STRAP GAITER	2	
16	650216	PIN, check strap	2	
17	FT2902	CIRCLIP	2	
18	SH604041	SCREW, check strap to 'A' post	6	
19	GHF321	WASHER, shakeproof	6	
20	WP120	WASHER, plain	4	
21	PT504	SCREW, sealing gaiter to 'A' post	4	
22	PWZ203	WASHER, plain	4	
23	PWZ203	WASHER, plain	8	

25	613622	CHECK STRAP	2	TR4 from CT22344, TR4A
26	613623	CHECK STRAP GAITER	2	
27	CLZ410	CLEVIS PIN	2	
28	GHF500	SPLIT PIN	2	
29	AB606031	SCREW	4	
30	WP3	WASHER	4	
32	808228	WAIST RAIL FINISHER, inner, LH	1	TR4A
	808229	WAIST RAIL FINISHER, inner, RH	1	

Ill. No	Part Number	Description	Qty. Req.	Details
34	750169	ROTARY LOCK, LH	1	
	750170	ROTARY LOCK, RH	1	
35	PT504	SCREW	6	lock to inner door panel
36	GHF425	SCREW, self tapping	2	
37	WF702101	WASHER, shakeproof	8	
38	650251	LINK ASSEMBLY	2	
39	604156	SPRING CLIP	2	
40	750171	REMOTE CONTROL, LH	1	
	750172	REMOTE CONTROL, RH	1	
	614146	REMOTE CONTROL, LH	1	alternative to 750171
	614145	REMOTE CONTROL, RH	1	alternative to 750172
41	PT504	SCREW	6	remote control to door inner
42	WF702101	WASHER, shakeproof	6	
43	608703	CLIP, remote control link to lock	2	
44	550924	WASHER, waved	2	
45	GHF300	WASHER, plain	4	
46	608188	FELT PAD, anti-rattle for remote	2	
48	701353	STRIKER, LH	1	
	701354	STRIKER, RH	1	
50	554194	SHIM, striker	a/r	
51	ZKC36	SCREW	6	
52	WK7607	WASHER, locking, cupped	6	
54	703741	RESTRAINT DEVICE, door	2	
55	ZKC38	SCREW	8	
56	WK7607	WASHER, shakeproof	8	
58	701560X	DOOR HANDLE, exterior	2	(inc. lock)
59	TR4DLS	LOCK SET (for the ignition, doors, boot & cubby box)	1	(inc. 2 keys & 5 tumblers)
60	603393	GASKET, large	2	
61	617402	GASKET, small	2	
62	PT504	SCREW	2	
63	WF702101	WASHER, shakeproof	2	
64	WC702101	WASHER, plain	2	
65	PT504	SCREW	2	
66	WF702101	WASHER, shakeproof	2	
68	608454B	DOOR HANDLE, interior (remote)	2	
69	650261	ESCUTCHEON	2	
70	603382	SPRING	2	
71	ALH1527	PIN, handle attachment	2	
72	750135	DOOR GLASS	2	
74	750090	CHANNEL, LH	1	
	750091	CHANNEL, RH	1	
76	617166	STRIP, glazing	2	
77	611812	CURTAIN	2	
78	850430FT	CHANNEL, for glass	4	
We supply only the channel. Each of the four guides are different so care must be taken preserving & replacing the original brackets in their correct relative positions.				
Valium is highly recommended before commencing this task !				
79	SH604041	SCREW, front channel only	2	
80	HU706P	SCREW	4	
81	WM57	WASHER, plain	8	front & rear channel fittings
82	GHF321	WASHER, shakeproof	8	
83	510018	SET SCREW	4	
84	510015	WASHER, plain	4	
85	510016	WASHER, shakeproof	4	
86	WP120	WASHER, spacer	4	
88	750165	TIE ROD, glass channel, LH	1	bottom
	750166	TIE ROD, glass channel, RH	1	
90	850400	WINDER, window lift, LH	1	
	850401	WINDER, window lift, RH	1	
92	650236	PIVOT, window winder	2	
93	WB112081	WASHER, plain	6	
94	AJD7731	WASHER, Thackery	2	
95	GHF332	WASHER, locking	2	TR4 to CT35273
	WP170	WASHER, plain (window winder to door panel)	2	TR4 from CT35274, TR4A
96	NT605041	'HALF' NUT	2	
97	HU706P	SCREW	8	

Ill. No	Part Number	Description	Qty. Req.	Details
98	GHF331	WASHER, locking	8	
99	GHF300	WASHER, plain	8	
100	607867	STUD RETAINER	4	
101	607902	WASHER, leather	8	
104	613017	HANDLE, winder handle	2	
105	650261	ESCUTCHEON	2	
106	603382	SPRING	2	
107	609649	WASHER, sealing	2	
108	ALH1527	PIN, attaching handle	2	
110	610174	STOP BRACKET, widow winder	2	
111	HU706P	SCREW	2	
112	WP144	WASHER, plain	2	
113	WP167	WASHER, plain	4	
114	GHF331	WASHER, locking	2	
115	GHF200	NUT, plain	2	
118	650242	STOP BRACKET, glass	2	
119	PMZ308	SCREW	4	
120	WL700101	WASHER, locking	4	
121	PWZ203	WASHER, plain	4	
124	611818	CURTAIN, water, front	2	
125	BHA4359	CLIP, fixing curtain front	6	
126	611819	CURTAIN, water, rear	2	
127	BHA4359	CLIP, fixing curtain, rear	4	
130	850324	WEATHER STRIP, outer, LH	1	
	850325	WEATHER STRIP, outer, RH	1	
132	GHF1560	CLIP, securing strip, outer	14	
134	850322	WEATHER STRIP, inner, LH	1	
	850323	WEATHER STRIP, inner, RH	1	
136	GHF1582	CLIP, securing strip, inner	14	
138		DOOR TRIM PANEL	1	Available only in Trim Kits, See page 12 in Accessories.
140	GHF403	SCREW, self tapping	4	pocket attachment
141	608586	CUP WASHER	4	
142	621992	CAP, pocket screw, Red	4	
	621997	CAP, pocket screw, Blue	4	
	621991	CAP, pocket screw, Black	4	
143	563589	SNAPSAC	20	
144	GHF1230	CLIP, door trim attachment	30	
145	650306	PULL HANDLE	2	
146	510799	SCREW	4	
147	FS27584	SPIRE NUT	4	
150	650310	SEAL, rubber, (inner)	2	Soft top models
	650311	SEAL, rubber, (inner)	2	Surrey top models
151	611598	*SEAL, (Furflex), Black	2	use when Surrey top fitted
	611597	*SEAL, (Furflex), Red	2	
	611599	*SEAL, (Furflex), Blue	2	
	611587	*SEAL, (Furflex), Red	2	
	611588	*SEAL, (Furflex), Black	1	
	611589	*SEAL, (Furflex), Blue	1	
*Note: Due to current manufacturing restrictions beyond our control, we are currently unable to offer original (Furflex) seals (item 151) for TR4/4A. Please check our latest Price Guide for availability.				
See also Notes on page 201 (sill seal retainer part No 750163)				
As an alternative to the original type of seal (item 151), we offer the TR6 (631321) type that has the rubber seal attached. When using this on TR4/4A you eliminate the need for the door sealing rubber (item 150).				
	631321	SEAL, (felt/rubber), Black	2	(2.5 metre length)
We can also supply the door seal by the metre length.				
	724031M	SEAL, (felt/rubber), Black	a/r	(per metre)

198 | Rear Outer Body Panels TR4/4A



See pages 200 & 201 for Rear Inner Body Panels & Fittings

Ill. No	Part Number	Description	Qty. Req.	Details
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Rear Outer Body Panels & Fittings

See also: 'EXTERIOR TRIM & BADGES - Rear/Side Body Fittings & Bumper' on page 208.

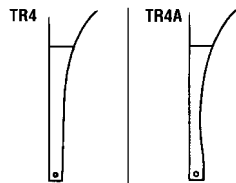
Rear Deck

1	808776	REAR DECK	1	
2	808776RP	CENTRE SECTION, rear deck	1	
3	813958	FRAME, deck section support	1	
4	650290	TAG, wiring loom	4	
	815521	FORWARD SECTION, LH, rear deck	1	
5	815522	FORWARD SECTION, RH, rear deck	1	

Forward Deck Sections

The TR4 forward deck piece was different to the TR4A in that the upper reverse channel was of fixed width. The TR4A is 'waisted' across its length to facilitate the folding of the soft top frame assembly into the bodywork. The TR4 hood was stored in the boot when not in use and so the frame of the TR4 occupied less space. See illustration.

FORWARD DECK SECTIONS



For appearance sake (if rusting hasn't already consumed the parts) they should be changed in pairs. They are also prone to cracking as they absorb much of the door slam impact.

6	813708	REPAIR SKIN, LH, forward section	1	
	813709	REPAIR SKIN, RH, forward section	1	
7	708093	GUSSET, 'B' post (top), LH	1	
	708094	GUSSET, 'B' post (top), RH	1	
8	750179	GUSSET PLATE, LH	1	
	750180	GUSSET PLATE, RH	1	
9	619592	TAPPED PLATE, hood pivot	2	
10	616058	RETAINER, tapped plate	2	
11	617975	NUT, 'rivnut' (soft top to deck)	5	
	GHF200	NUT, 'projection welded' (soft top to deck)	5	alternative

Boot Lid & Rear Valance

12	813650	BOOT LID, steel	1	
	813650A	BOOT LID, alloy	1	
13	813650RP	REPAIR PANEL, boot lid	1	
14	903233	REINFORCEMENT, boot lid	1	
15	HB708	SCREW, reinforcement to boot lid	2	
16	WP7	WASHER, plain	2	
17	WL207	WASHER, locking	2	
18	HN2007	NUT, plain	2	
19	850007	REAR SECTION, LH rear deck	1	
20	850008	REAR SECTION, RH rear deck	1	
21	612487	BRACKET, boot lid stay	1	
22	850379	REAR VALANCE	1	

The lower tonneau side and rain channel set are the four pieces of metal that should stand up from the rear valance on either side of the boot lid. These parts are welded to the rear valance panel assembly.

Rear Wings

24	850475	REAR WING, LH	1	
	850475AL	REAR WING, LH (Lightweight)	1	aluminium
25	850476	REAR WING, RH	1	
	850476AL	REAR WING, RH (Lightweight)	1	aluminium
	850328	BAFFLE, rear wing to 'B' post, LH	1	
26	850329	BAFFLE, rear wing to 'B' post, RH	1	
27	850475FK	FITTING KIT, rear wing	2	(per wing)
28	HU706P	SCREW, wing to 'B' post	6	
29	WQ307	WASHER, locking	6	
30	WM57	WASHER, plain	6	
31	619587	WASHER, Everseal	6	
32	UL2705	SCREW, Acme, wing to sill panel	2	
33	WM57	WASHER, plain	2	
34	619587	WASHER, Everseal	2	
35	FA3058	NUT, spire	2	

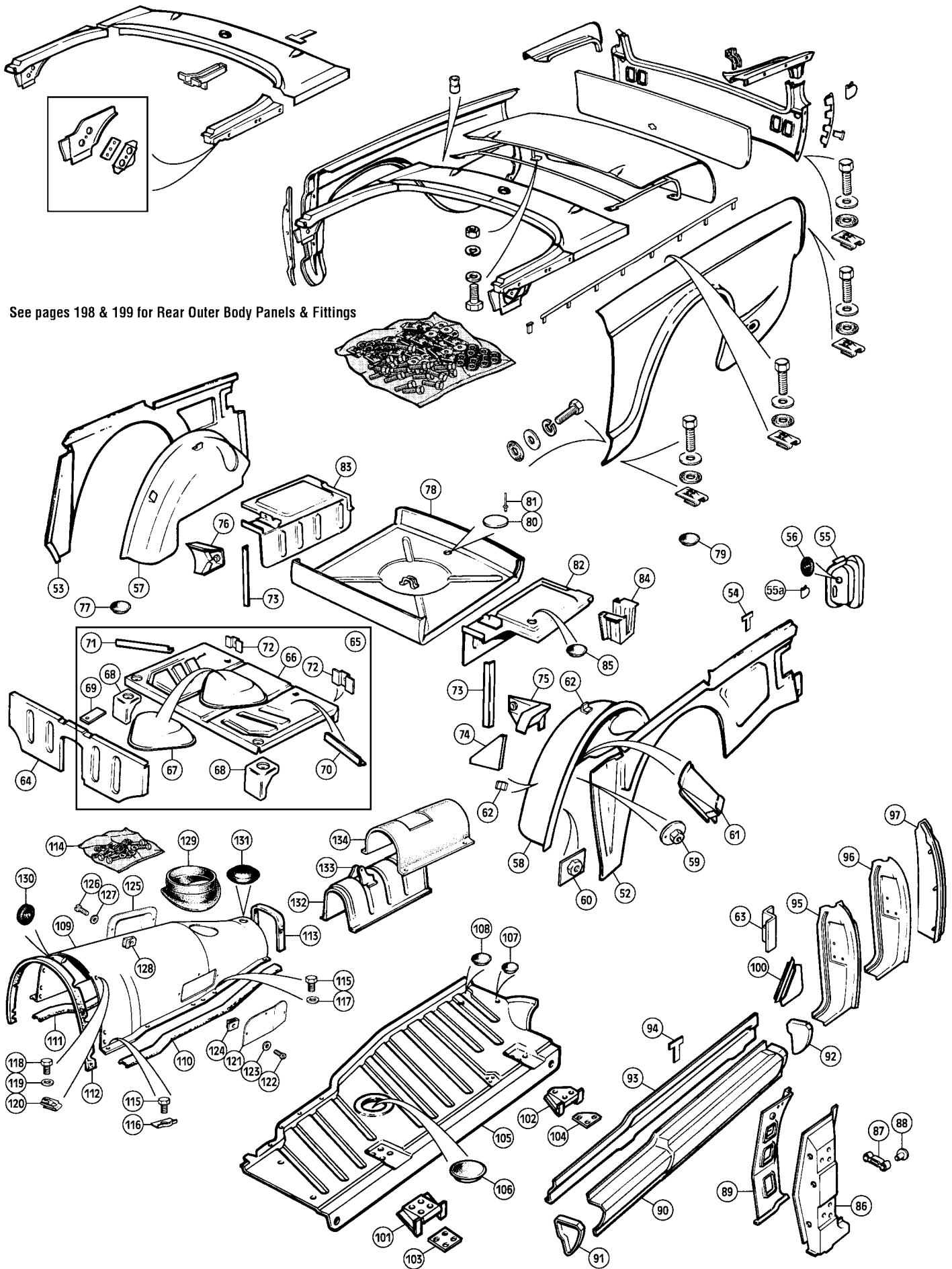
Ill. No	Part Number	Description	Qty. Req.	Details
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36	UL2705	SCREW, Acme (wing to deck and tonneau side)	16	
37	WM57	WASHER, plain	16	
38	619587	WASHER, Everseal	16	
39	FA3058	NUT, spire	16	
40	UL2705	SCREW, Acme (wing to rear valance and inner wing)	2	
41	WM57	WASHER, plain	2	
42	619587	WASHER, Everseal	2	
43	FA3058	NUT, spire	2	
44	UL2705	SCREW, Acme (wing to rear valance)	4	
45	WM57	WASHER, plain	4	
46	619587	WASHER, Everseal	4	
47	FA3058	NUT, spire	4	
48	608522	CLIP, wing to lamp housing	4	

Wing Beading

	TR45WBS	WING BEADING SET, 6 pieces	1	
	850479	WING BEADING, front wing, LH	1	
	850480	WING BEADING, front wing, RH	1	
49	750126	WING BEADING, upper rear wings	2	
50	750187	WING BEADING, lower rear wing, LH	1	
	750188	WING BEADING, lower rear wing, RH	1	
51	553926	LOCATING TAB	52	

200 | Rear Inner Body/Floor Panels TR4/4A



See pages 198 & 199 for Rear Outer Body Panels & Fittings

Ill. No	Part Number	Description	Qty. Req.	Details
Inner Rear Wings & Wheel Arches				
52	850120	INNER REAR WING, LH	1	
53	850121	INNER REAR WING, RH	1	
54	603559	TAG, wiring loom	a/r	
55	850428	TAIL LAMP HOUSING, LH	1	
	850429	TAIL LAMP HOUSING, RH	1	
55a	608522	CLIP, wing to lamp housing	4	
56	600395	GROMMET, in housing for lamp wiring	2	
	815957	WHEEL ARCH ASSEMBLY, LH	1	
57	815958	WHEEL ARCH ASSEMBLY, RH	1	
58	850393	REAR WHEEL ARCH, LH	1	
	850394	REAR WHEEL ARCH, RH	1	
59	615984	REINFORCEMENT, seat belt, upper	2	for static seat belts.
60	616446	REINFORCEMENT, seat belt, lower	2	for inertia reel seat belts.
61	713042	BRACKET, LH suspension bump stop	1	
	713043	BRACKET, RH suspension bump stop	1	
62	650294	BRACKET, millboards support	4	
63	615968	SEAT BELT ANCHOR, LH	1	
	615969	SEAT BELT ANCHOR, RH	1	

Heelboard, Seat Pan and Boot Floor

64	850397	HEELBOARD	1	
65	566601	SEAT PAN ASSEMBLY, rear shelf	1	
66	910065	PANEL and BULGE, seat pan	1	
67	850117X	DIFFERENTIAL COVER	1	
68	950008	BRACKET, seat pan to chassis	2	
69	618376	BRACKET, tunnel cover support	1	
70	650271	SUPPORT, bracket, squab, bottom, LH	1	
71	650272	SUPPORT, bracket squab, bottom, RH	1	
72	612288	NUT PLATE, fuel tank	2	
73	750175	BRACKET, support, squab side, vertical	2	
74	808379	GUSSET, arch to rear floor, LH	1	
	808380	GUSSET, arch to rear floor, RH	1	
75	650165	BRACKET, fuel tank support, LH	1	
76	650166	BRACKET, fuel tank support, RH	1	
77	CD22869	PLUG, rubber, blanking	1	
78	850387	BOOT FLOOR, spare wheel pan	1	
79	600399	PLUG, paint drainage, 1" diameter	1	
80	625944	PLATE, metal, blanking paint drain hole	1	
81	569945	RIVET, imex	2	
82	850470	BOOT FLOOR, side, LH	1	
83	850471	BOOT FLOOR, side, RH	1	
84	750022	MOUNTING BRACKET, boot floor	2	
85	CD22869	PLUG, rubber, blanking	3	

'A' Post, 'B' Post & Sills

86	813100	'A' POST, outer panel, LH	1	
	XKC510	'A' POST, outer panel, LH	1	alternative
	813101	'A' POST, outer panel, RH	1	
87	603344	SPRING GUIDE, check strap	2	
88	556141	RIVET, spring guide attachment	4	
89	850343	'A' POST, inner panel, LH	1	
	850344	'A' POST, inner panel, RH	1	
90	850281	SILL PANEL, outer, LH	1	
	850281Z	SILL PANEL, outer, LH, replacement	1	
	850282	SILL PANEL, outer, RH	1	
	850282Z	SILL PANEL, outer, RH, replacement	1	
91	750086	FILLER, front sill end, LH	1	
	750087	FILLER, front sill end, RH	1	
92	750047	FILLER, rear sill end, LH	1	
	750048	FILLER, rear sill end, RH	1	
93	907912	INNER SILL PANEL, LH	1	with loom tags.
	850122	INNER SILL PANEL, LH	1	without loom tags
	850122Z	INNER SILL PANEL, LH	1	replacement
	564807	INNER SILL PANEL, RH	1	with loom tags.
	850123	INNER SILL PANEL, RH	1	without loom tags
	564807Z	INNER SILL PANEL, RH	1	replacement

Ill. No	Part Number	Description	Qty. Req.	Details
NI	750163	RETAINER, sill seal	a/r	
<i>These should only be fitted (or replaced) IF the original TR4/4A door aperture rubber seals are to be used, with separate draught excluder (furflex). Most non-purists opt for the TR5/250 and TR6 combined seal & draught excluder, see notes on page 197 (items 150/151). This should be planned in advance.</i>				
<i>Surrey top fitted vehicles will require a single piece seal, approximately 7 metres, to do the car.</i>				
<i>Also if the sill seal retainer is to be fitted, it will be necessary to use it on the 'A' and 'B' posts, and cut to suit.</i>				
94	650290	TAG, wiring loom	a/r	
95	808686	'B' POST, LH	1	
	808687	'B' POST, RH	1	
96	817412F	'B' POST, front face only, LH	1	repair sections
	817413F	'B' POST, front face only, RH	1	
97	817412B	'B' POST, rear face only, LH	1	
	817413B	'B' POST, rear face only, RH	1	
	621711	RETAINER, tapped plate, RH	1	
100	621715	REINFORCEMENT, 'B' post, LH	1	
	621716	REINFORCEMENT, 'B' post, RH	1	
101	750027	SILL MOUNTING, front	2	
102	616004	SILL MOUNTING, left rear	1	
	616005	SILL MOUNTING, right rear	1	
103	619395	PLATE, packing, 'A' post mounting	a/r	square shaped plate.
104	619396	PLATE, packing, 'B' post mounting	a/r	triangular shaped plate.

Floor Panels

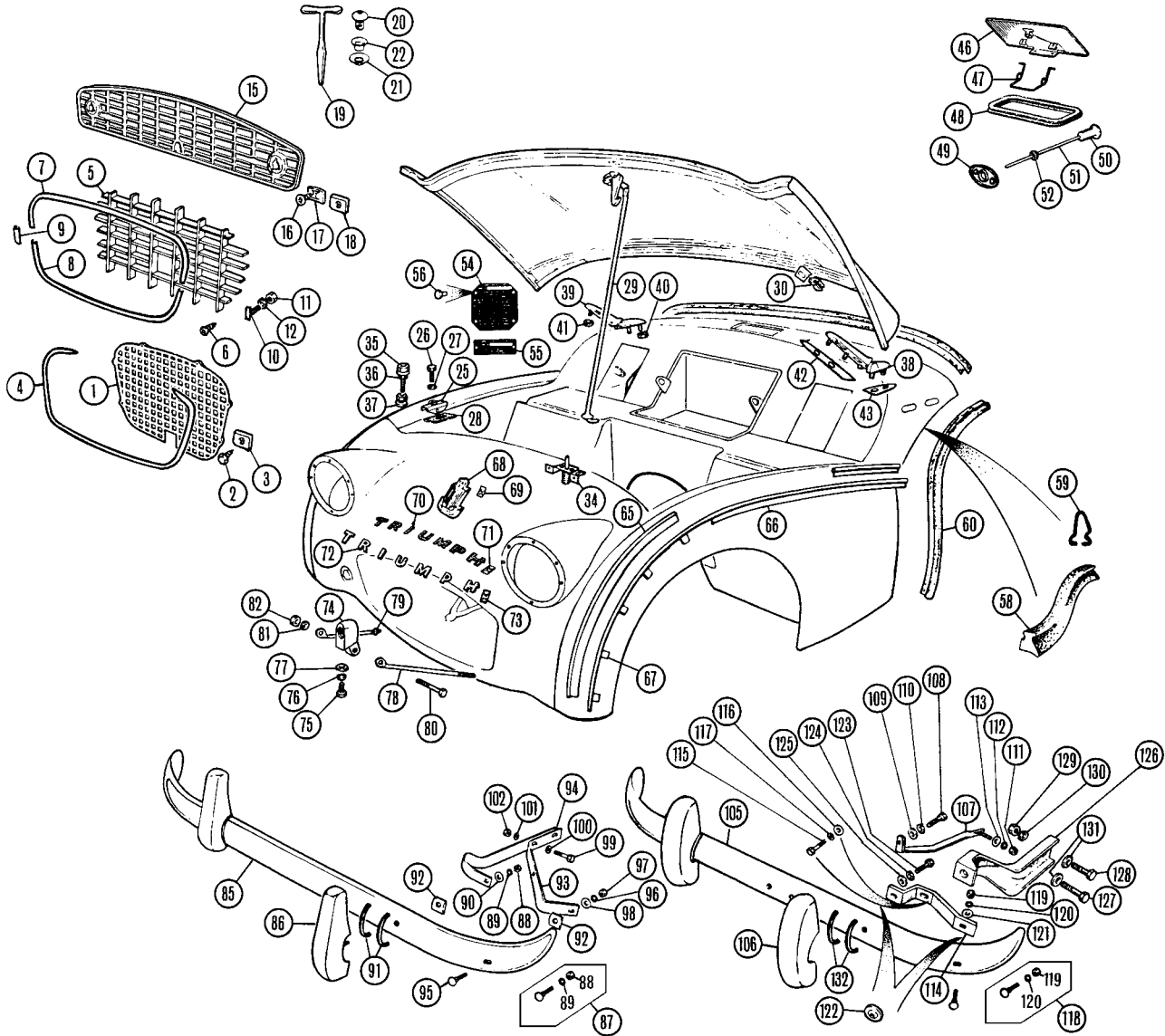
105	904005	MAIN FLOOR PANEL, LH	1	
	904006	MAIN FLOOR PANEL, RH	1	
<i>These floor panels will require drilling to suit the TR4 type rear floor to sill mounting bracket, which has 4 holes set further back. The panels are correctly drilled for the TR4A. Rubber grommet GHF824 (3 req. per side) may be used to blank off these holes for the TR4.</i>				
106	603384	RUBBER PLUG, jack hole	2	
107	CD25672	GROMMET, 5/8", main floor panel	2	
108	600399	GROMMET, 1", main floor panel	2	

Gearbox Cover and Fittings

109	713569	GEARBOX COVER, original fibre board	1	Non overdrive models.
	712929	GEARBOX COVER, original fibre board	1	Overdrive models.
	713569FG	GEARBOX COVER, fibreglass	1	aftermarket products
	713569SAP	GEARBOX COVER, plastic	1	
	713569GS	SEAL SET, gearbox cover	1	
110	805673	SEAL, cover to floor, LH	1	
111	805674	SEAL, cover to floor, RH	1	
112	805684	SEAL, centre	1	cover to bulkhead panel
113	705758	SEAL	1	cover to propshaft tunnel
114	713569FK	GEARBOX COVER FITTING KIT	1	
115	HU706P	SCREW, cover to floor	10	
116	612286	WASHER, plate, tunnel to floor	7	
117	WM57	WASHER, plain	7	
118	HU706P	SCREW, cover to bulkhead	3	
119	WM57	WASHER, plain	7	
120	FQ3405/4	CAPTIVE NUT & RETAINER	7	
121	809271	COVER PLATE, speedo cable access	1	
122	YX5405	SCREW, cover plate attachment	3	
123	WP4	WASHER, plain	3	
124	FU2569/4	SPIRE CLIP	3	
125	705851	COVER PLATE, solenoid access	1	
126	YB1404	SCREW, cover plate attachment	3	
127	WP4	WASHER, plain	3	
128	FU2574/4	SPIRE CLIP	3	
129	612715	GROMMET, loom through tunnel cover	1	
130	605602	PLUG, propshaft lubrication access	1	
131	709329	GROMMET, gear lever gaiter	1	

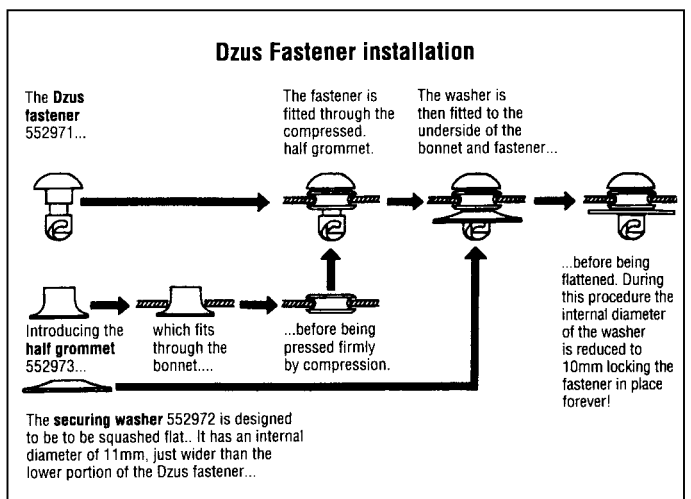
Propshaft Tunnel

132	808230	TUNNEL (propshaft)	1	
133	121765	BRACKET, for anchoring handbrake	1	
134	809046	TUNNEL COVER, fibre	1	
	809046FG	TUNNEL COVER, fibreglass	1	



Ill. No	Part Number	Description	Qty. Req.	Details
Front/Side Body Fittings, Grille & Bumper TR2/TR3/3A				
1	554813	GRILLE, sheet metal, polished	1	TR2
2	YH6505	SCREW, grille to apron	8	
3	FU2585	SPIRE NUT	8	
4	603177	REVEAL MOULDING (lower 1/2 of intake)	1	very late TR2
5	801255	GRILLE	1	TR3
6	AB608053	SCREW, grille to apron	4	
7	604338	REVEAL MOULDING, upper	1	
8	554204	REVEAL MOULDING, lower	1	
9	604340	COVER, moulding joint	2	
10	603267	STUD PLATE, moulding to apron	9	
11	HN2005	NUT, for stud	9	TR3A
12	WL700101	WASHER, locking	9	
15	802174	GRILLE	1	
16	AD608053	SCREW, grille to apron	8	TR3A
17	GHF701	SPIRE NUT	4	
18	FU2585	FIX-NUT	4	
19	650161	'T' KEY, for Dzus fasteners	1	TR2 from TS4229,
20	552971	DZUS FASTENER, bonnet	2	
21	552972	WASHER, securing fastener	2	TR3/3A
22	552973	HALF GROMMET	2	

Ill. No	Part Number	Description	Qty. Req.	Details
25	603079	BRACKET, Dzus anchor	2	TR2 from TS4229, TR3/3A
26	HU706P	SCREW, bracket to inner front wing	4	
27	GHF331	WASHER, locking	4	
28	553001	PACKING, fastener bracket	a/r	
29	602096	STAY ROD, with safety hook	1	
30	ADA896	SAFETY HOOK	1	
31	2H9215	RUBBER, stay rod retaining	1	



Ill. No	Part Number	Description	Qty. Req.	Details
34	603083	BONNET LIFT ASSEMBLY	1	
<i>TR2 prior to TS4229, cars had cable operated bonnet releases. We have no parts available for this early system.</i>				
35	CD24540	BONNET BUFFER	2	
36	GHF200	LOCK NUT, on buffer	2	
37	WM57	WASHER, plain	2	
38	602092	HINGE, bonnet, LH, un-plated	1	TR2 to TS4229
39	602093	HINGE, bonnet, RH, un-plated	1	
38	650021	HINGE, bonnet, LH, chromed	1	TR2 from TS7229, TR3/3A
39	650022	HINGE, bonnet, RH, chromed	1	
<i>TR2 to TS7228 had un-plated bonnet hinges which were painted body colour. Chromed and un-plated hinges are identical in all other respects.</i>				

40	GHF201	NUT, bonnet hinges	4	bulkhead end	
41	GHF200	NUT, bonnet hinges	4	bonnet end	
42	602222	GASKET	2	hinge to bonnet	
43	602223A	GASKET	2	hinge to bulkhead	
46	800912	VENT LID, with mechanism	1	TR2 from TS6157, TR3/3A	
47	600549	SPRING, for vent lid	1		
48	600597	SEALING RUBBER, vent lid	1		
49	603416	ESCUTCHEON, vent pull	1		
50	111258	KNOB, vent control	1		
51	112019	ROD ASSEMBLY, vent control	1		
52	061917	GROMMET, on rod	1		
54	CNPTR2	COMMISSION PLATE	1		TR2
55	CNPTR3	COMMISSION PLATE	1		TR3
	CNPTR3A	COMMISSION PLATE	1		TR3A
56	SP91A2	RIVET, commission plate	2		
58	603257	SEALING RUBBER, on bulkhead	2	TR2 from TS5251, TR3/3A	
59	552901	CLIP, for sealing rubber	14		
60	552877BLK	DRAUGHT EXCLUDER, black	a/r	sold per metre (3 reqd. per car)	
	552877RED	DRAUGHT EXCLUDER, red	a/r		
	552877BLU	DRAUGHT EXCLUDER, blue	a/r		
	552877TAN	DRAUGHT EXCLUDER, tan	a/r		
65	700947	WING PIPING (per metre)	a/r		
	TR23WBS	WING BEADING SET, 6 pieces	1	beading set includes locating tabs	
66	553924	WING BEAD, front	2		
	553925	WING BEAD, rear, long	2		
	554172	WING BEAD, rear, short	2		
67	553926	MOUNTING TAGS	a/r		

The TR2 had a plastic wing piping similar to the MGA and other sports cars of that era. This suffered from the twin problems of melting in hot climates, and cracking up in cold climates. Triumph decided to solve the problem by using a rolled section stainless steel (not chrome).

Wing piping/bead was devised to hide the poor fit of the wings to the main body!

68	601890	MEDALLION, Red/Black	1	'TRIUMPH' (TR2)
	604272	MEDALLION, Red/Black	1	'TRIUMPH' (TR3)
	606422	MEDALLION, Red/Black	1	TR3A to TS41873 (plain bottom)
	608377	MEDALLION, Blue/White	1	TR3A from TS41874
69	PFS106	CLIP, medallion mounting	2	

Letter sets were fitted to all TR3A's. The early ribbed type seem to have been fitted up to around TS72000. After that point the smooth letter set (as fitted to Heralds, Spitfires etc.) was fitted.

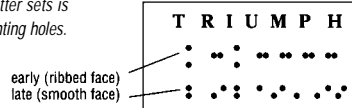
It is easy to tell which of the two front 'TRIUMPH' letter sets is needed for a particular car by the pattern of the mounting holes.

Each letter has two mounting studs on the back.

The 'hole-pairs' for the ribbed face letters are

either vertical or horizontal, while the 'hole-pairs'

for the smooth faced letters are either vertical or angled.



70	703036SET	LETTER SET, ribbed face	1	TR3A early	
	703036	LETTER 'T'	1		
	703037	LETTER 'R'	1		
	703038	LETTER 'I'	1		
	703039	LETTER 'U'	1		
	703040	LETTER 'M'	1		
	703041	LETTER 'P'	1		
	703042	LETTER 'H'	1		
71	PFS104	SPIRE CLIP (for letters)	14		
72	703862SET	LETTER SET, smooth face	1		TR3A late
	703862	LETTER 'T'	1		
	703863	LETTER 'R'	1		
	703864	LETTER 'I'	1		
	703865	LETTER 'U'	1		
	703866	LETTER 'M'	1		
	703867	LETTER 'P'	1		
	703868	LETTER 'H'	1		

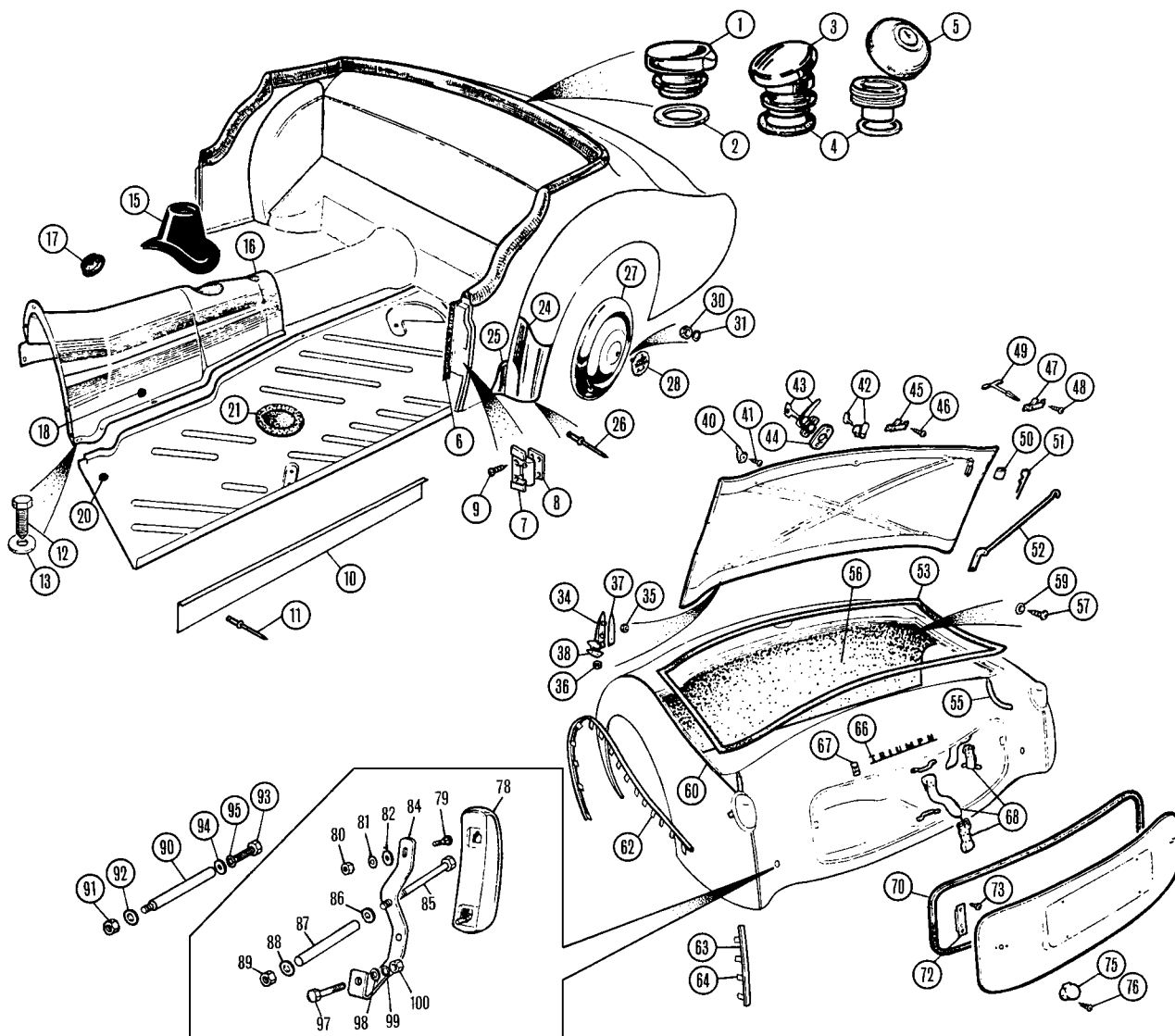
Ill. No	Part Number	Description	Qty. Req.	Details
73	PFS104	SPIRE CLIP, for letters	14	
74	506721	GUIDE, starting handle	1	
75	HU706P	SCREW, securing guide	1	
76	GHF331	WASHER, locking	1	
77	WM57	WASHER, plain	1	
78	107934	STAY ROD, guide	2	
79	NT605041	NUT	4	stay to cross-tube on chassis
80	BH605151	BOLT, stay to guide bracket	1	
81	GHF332	WASHER, locking	1	
82	GHF201	NUT, plain	1	

TR2/3 Bumper & Mountings

85	800561	BUMPER BAR	1	
86	700911	OVER-RIDER, front	2	
87	554700K	BOLT & NUT	2	over-rider to bumper/bracket
	GHF202	NUT	2	
89	GHF333	WASHER, locking	2	
90	WM59	WASHER, plain	2	
91	552218	PACKING, over-rider	4	
92	ACC5811	PACKING, bumper to iron	4	
93	800559	BUMPER IRON, LH outer	1	
	800560	BUMPER IRON, RH outer	1	
94	700907	BUMPER IRON, LH inner	1	
	700908	BUMPER IRON, RH inner	1	
95	554700K	BOLT & NUT, bumper to iron	2	
96	GHF333	WASHER, locking	2	
97	GHF202	NUT	2	
98	WM59	WASHER, plain	2	
99	BH606301	BOLT, bumper iron to chassis	4	
100	WM59	WASHER, plain	4	
101	GHF333	WASHER, locking	4	
102	GHF202	NUT, plain	4	

TR3A Bumper & Mountings

105	802259	BUMPER BAR	1	
NI	805118FK	FITTING KIT, bumper	1	
106	703047	OVER RIDER	2	
107	606450	STAY, over rider, RH	1	
	606449	STAY, over rider, LH	1	
108	GHF105	SCREW, stay to over-rider	2	
109	GHF302	WASHER, plain	2	
110	GHF333	WASHER, locking	2	
111	GHF201	NUT, stay to inner front wing	2	
112	GHF332	WASHER, locking	2	
113	WP139	WASHER, plain	2	
114	606500	BUMPER IRON	2	
115	107960	BOLT (bumper iron to bumper bracket)	2	
116	WM59	WASHER, plain	2	
117	GHF333	WASHER, locking	2	
118	554700K	BOLT & NUT	2	bumper iron to bumper
119	GHF202	NUT, plain	2	
120	GHF333	WASHER, locking	2	
121	WM59	WASHER, plain	2	
122	607085	PACKING PIECE, bumper to iron	4	
123	GHF106	BOLT, (bumper iron to over-rider & bumper)	2	
124	GHF333	WASHER, locking	2	
125	WM59	WASHER, plain	2	
126	606515	BRACKET, bumper, LH	1	to chassis
	606516	BRACKET, bumper, RH	1	
127	HB937	BOLT (bumper bracket to chassis)	1	steering box side
128	BH606261	BOLT (bumper bracket to chassis)	3	
129	GHF202	NUT plain	4	
130	GHF333	WASHER, locking	4	
131	WM59	WASHER, plain	4	
132	552218	PACKING, over rider	4	



Ill. No	Part Number	Description	Qty. Req.	Details
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Rear/Side Body Fittings & Over-riders TR2/TR3/3A

1	704551	CAP, fuel filler	1	original
2	704551W	CHROME WASHER, spacing	1	
3	613506	CAP, fuel filler	1	alternative
4	650247	GROMMET, rubber	1	(use with 613506)
5	571086	CAP, fuel filler, locking	1	
6	552877BLK	DRAUGHT EXCLUDER, Black	a/r	} sold per metre (3 reqd. per car)
	552877RED	DRAUGHT EXCLUDER, Red	a/r	
	552877BLU	DRAUGHT EXCLUDER, Blue	a/r	
	552877TAN	DRAUGHT EXCLUDER, Tan	a/r	
7	602075	STRIKER PLATE, door latch	2	
8	602248	PACKING, striker plate	4	
9	500166	SCREW, striker plate mounting	8	
10	900429	THRESHOLD PLATE, sill edge RH	1	aluminium
	900428	THRESHOLD PLATE, sill edge LH	1	} stainless steel
	900429SS	THRESHOLD PLATE, sill edge RH	1	
	900428SS	THRESHOLD PLATE, sill edge LH	1	

Protect your door sill/floor edge from foot scuffs and other damage with these original equipment style plates. Available in aluminium (as original) or stainless steel.

11	RU608123	RIVET, threshold plate to sill	4	
12	HU706P	SCREW, gearbox cover mounting	16	
13	WM57	WASHER, plain	16	
15	603065	GROMMET, gear lever	1	

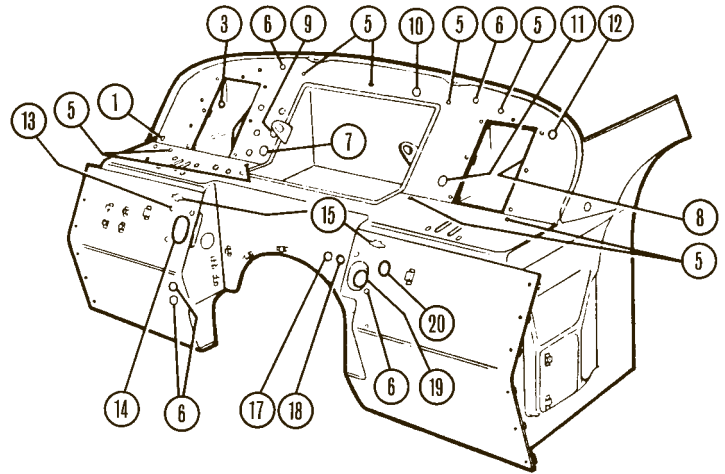
Ill. No	Part Number	Description	Qty. Req.	Details
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16	605602	PLUG, universal joint access	1	
17	605602	PLUG, gearbox dipstick access	1	TR2/3, TR3A to TS50000
18	600399	PLUG, gearbox cover, LH	1	non-overdrive
	600395	GROMMET, gearbox cover, LH	1	overdrive models
20	600399	PLUG, floorboard	2	
21	603384	PLUG, jack hole, rubber	2	
	800539SET	STONE GUARD SET (polished)	1	
24	800539	STONE GUARD, LH (large)	1	
	800540	STONE GUARD, RH (large)	1	
25	601992	STONE GUARD, LH (small)	1	
	601993	STONE GUARD, RH (small)	1	
26	RU608123	RIVET, stone & foot guards	a/r	
27	201870	HUB CAP	4	
28	101042	MEDALLION (enamelled as original)	4	TR2, TR3 to TS13045
	113256	MEDALLION (painted as original)	4	TR3 from TS13046, TR3A
30	HN2005	NUT, medallion attachment	4	
31	WL700101	WASHER, locking	4	
34	602931	BOOT HINGE, RH, (un-plated)	1	} TR2
	602930	BOOT HINGE, LH, (un-plated)	1	
	650023	BOOT HINGE, RH, (chromed)	1	} TR3/3A
	650024	BOOT HINGE, LH, (chromed)	1	
35	GHF200	NUT, hinge to boot lid	4	
36	GHF201	NUT, hinge to tonneau panel	4	
37	602222	GASKET, boot hinge	2	to boot lid
38	602223A	GASKET, boot hinge	2	to tonneau saddle

All TR2's had un-plated boot hinges which were painted to body colour. Chromed hinges will fit TR2's, and are identical in shape & size to un-plated hinges.

Ill. No	Part Number	Description	Qty. Req.	Details
40	CD22284	ESCUTCHEON, on boot lid <i>(teardrop type)</i>	2	TR2/3
41	SP86CO/CP	SCREW, escutcheon	4	
42	607070X	LOCK ASSEMBLY, boot lid, <i>(with 2 keys)</i>	1	
43	607070	HANDLE & LOCK ASSEMBLY <i>(with 2 keys)</i>	1	TR3A
44	607070G	GASKET, boot lock	1	
45	602217	BUDGET LOCK, boot lid centre	1	
46	SP87K5	SCREW, mounting handle	2	
47	602217	BUDGET LOCK, RH, boot lid	1	
	602216LH	BUDGET LOCK, LH, boot lid	1	TR2/3
48	TK4503	SCREW, budget lock securing	4	
49	650166	"T" KEY, for budget locks	1	
50	2H9215	RETAINER, boot lid stay rod	1	TR2/3, TR3A to TS60000 TR3A from TS60001
51	GHF504	SPLIT PIN, retainer	1	
52	700898	STAY ROD, boot lid	1	
53	605810	SEAL, boot lid, channel type	1	
	608434	SEAL, boot lid, lip type	1	
<i>Note: See page 187 for illustration of different boot lid seals.</i>				
55	552365	TUBE, boot edge drain	2	TR2
56	950058	COVER PANEL, fuel tank	1	
57	AD604062	SCREW, attaching fuel tank cover	10	
59	SP132BCP	WASHER, cup	10	
60	700947	WING PIPING, (sold per metre) <i>(to be painted car colour, as original)</i> *Rear wing top, (68 1/2") *Rear wing, below tail lamp, (10 1/8") *Front wing to apron, (27 1/2") *Front wing behind bonnet, (9 5/16")	a/r	TR2
	TR23WBS	WING BEADING SET, 6 pieces <i>(includes locating tabs)</i>	1	
62	553925	WING BEAD, rear, long	2	TR3/3A
63	554172	WING BEAD, rear, short	2	
	553924	WING BEAD, front	2	
64	553926	LOCATING TABS	a/r	
<i>The TR2 had a plastic wing piping similar to the MGA and other sports cars of that era. This suffered from the twin problems of melting in hot climates, and cracking up in cold climates. Triumph decided to solve the problem by using a rolled section stainless steel (not chrome).</i>				
<i>Wing piping/bead was devised to hide the poor fit of the wings to the main body!</i>				
66	605556	'TRIUMPH' NAMEPLATE	1	TR3A
67	PFS104	SPIRE CLIP, for nameplate	3	
68	MM802-845	STRAP SET, spare wheel & tools	1	spare wheel cover
70	552559	SEAL, spare wheel cover	1	
72	602216LH	BUDGET LOCK, L/H	1	
	602217	BUDGET LOCK, R/H	1	
73	TK4503	SCREW, budget locks	4	
75	CD22241	ESCUTCHEON, round style	2	support spring to tube
76	SP86CO/CP	SCREW, escutcheon	4	
78	700913	OVER-RIDER, rear	2	over-rider to support spring
NI	603906	BRIDGE, over-rider	2	
79	554700K	BOLT & NUT	2	
80	GHF202	NUT	2	support spring to tube
81	GHF333	WASHER, locking	2	
82	WM59	WASHER, plain	2	
84	700912	SPRING, over-rider support	2	
85	BH606441	BOLT, support spring	2	
86	GHF302	WASHER	2	
87	602001	DISTANCE TUBE, original type	2	
<i>We cannot supply the original distance tube. It was a non-standard size and the bolt always seized after 2 weeks due to the tight tolerance between the bolt and the tube. Instead our 602001S (item 90) emulates the original with a female thread at the top requiring a combination of GHF1052, GHF333 & GHF302, and a male thread at the bottom requiring a GHF202 & GHF333 to secure it (Items 90 to 95).</i>				
88	GHF333	WASHER, locking	2	alternatives
89	GHF202	NUT	2	

Ill. No	Part Number	Description	Qty. Req.	Details
90	602001S	DISTANCE TUBE, stainless steel	2	replacement
91	GHF202	NUT	2	
92	GHF333	WASHER, locking	2	
93	GHF105	SCREW	2	
94	GHF302	WASHER, flat	2	
95	GHF333	WASHER, locking	2	
97	SH606071	SCREW, support to chassis	2	
98	GHF302	WASHER, flat	2	
99	GHF333	WASHER, locking	2	
100	GHF202	NUT	2	



Grommets & Blanking Plugs

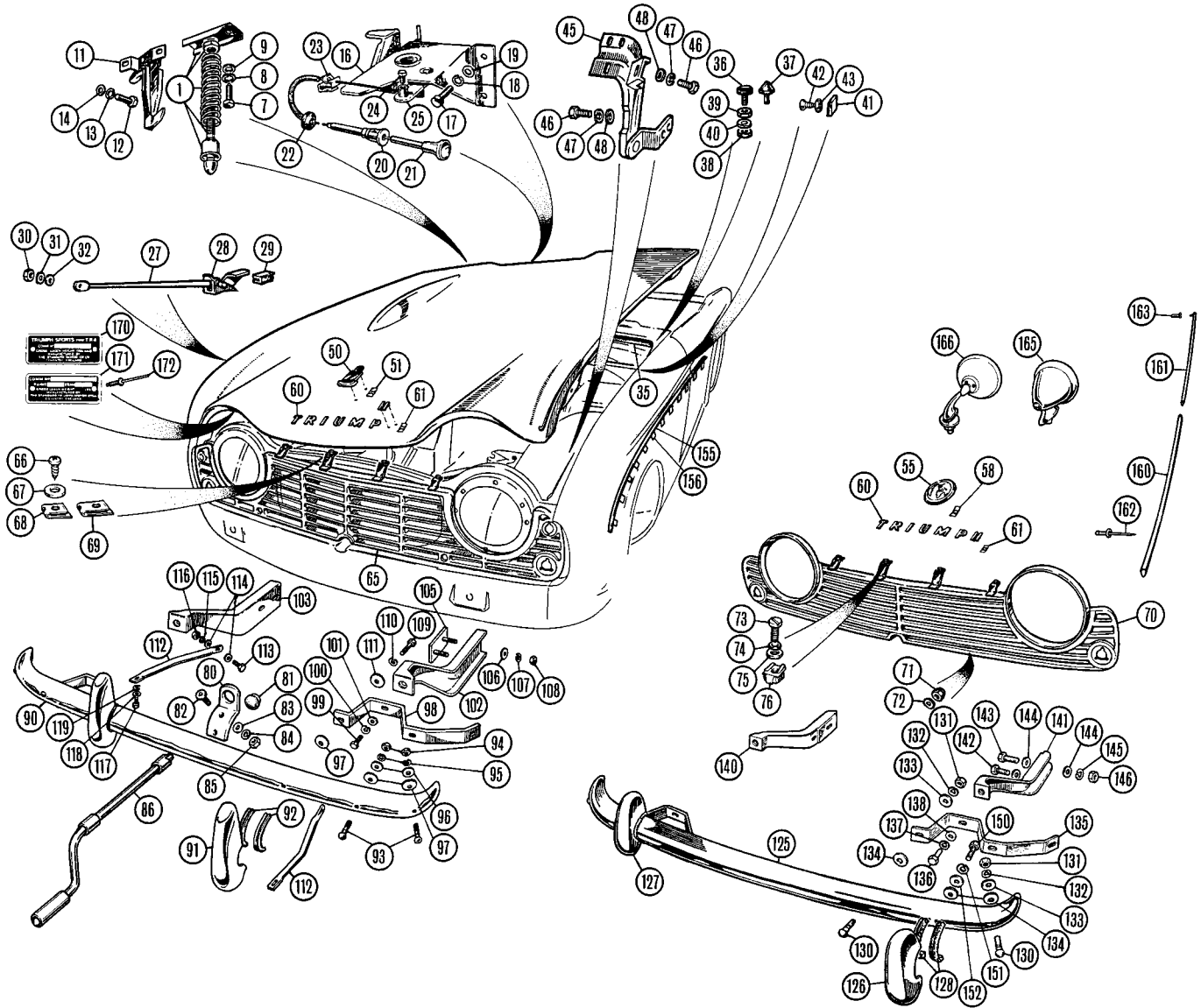
1	061917	GROMMET, bonnet release cable	1	TR2 to TS4228
	CD27769	PLUG, blanking (3/8")	1	TR2 from TS4229
3	GHF800	GROMMET, wiper drive (5/8")	1	TR2, TR3 to TS12568
	RFN210	PLUG, blanking (5/8")	1	TR3 from TS12569, TR3A
5	GHF822	PLUG, blanking (3/8")	a/r	
6	CD27769	PLUG, blanking (3/8")	a/r	
7	600399	PLUG, blanking (1")	1	
8		PLUG, blanking (1 3/16")	1	
9	600400	PLUG, blanking (1 1/2")	1	
10	600395	GROMMET, oil pressure line	1	
11	600395	GROMMET, speedo cable	1	
12	C5574A	GROMMET, wiper drive (1 1/4")	1	TR3 from TS12569, TR3A
13	061917	GROMMET, choke cable	1	
14	603346	BLANKING RUBBER	1	when fitted
15	601951	SEALING RUBBER, hose connector	2	cars with heaters
	601952	SEALING PAD, blanking plate	2	cars without heaters
17	600395	GROMMET, capillary tube	1	
18	600395	GROMMET, tachometer cable	1	
19	701106	GROMMET, steering column	1	
20	600400W	GROMMET, wiring harness	1	

Sizes given are the sizes of the holes in the bulkhead into which these plugs and grommets fit. Locations shown vary from model to model and not all plugs and grommets listed are used on all cars. For your convenience, plugs and 'standard' round grommets are listed by size.

GHF822	PLUG, for 3/8" hole	a/r
CD27769	PLUG, for 3/8" hole	a/r
14A7031	PLUG, for 1/2" hole	a/r
RFN210	PLUG, for 5/8" hole	a/r
600399	PLUG, for 1" hole	a/r
600400	PLUG, for 1 1/2" hole	a/r

The following grommets are diaphragm type with central holes. A grommet is used to prevent the wire or cable that it carries from rubbing on the steel panel that it is routed through. Blanking plugs are used on to fill holes which may carry cables or wire in different model configurations.

061917	GROMMET, for 1/2" hole	a/r
GHF800	GROMMET, for 5/8" hole	a/r
14A7033	GROMMET, for 5/8" hole	a/r
600395	GROMMET, for 1" hole	a/r
C5574A	GROMMET, for 1 1/4" hole	a/r
600400W	GROMMET, for 1 1/2" hole	a/r



III. No	Part Number	Description	Qty. Req.	Details
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Front/Side Body Fittings, Grille & Bumper TR4/TR4A

See also Accessories.

NI	GAC6066X	THRESHOLD PLATE, sill edge (Pr)	1	aluminium
	TT7346	THRESHOLD PLATE, sill edge (Pr)	1	stainless steel

These threshold plates are designed to protect your door sill from foot scuffs and other damage, available in either brushed aluminium or stainless steel with 'Triumph' script.

1	619580	BONNET CATCH	1	
This assembly is the later (TR6) type with a safety hook which will be redundant with an original catch plate. The later 'set' of a 619580 & 710592 is a much better combination, and it's available, which also helps your choice.				
7	GHF117	SCREW, fastener to bonnet	2	TR4
8	GHF331	WASHER, locking	2	
9	GHF300	WASHER, plain	2	
11	611635	SAFETY CATCH	1	
12	HU504	SCREW	1	
13	WL700101	WASHER, locking	2	
14	PWZ203	WASHER, plain	2	
16	710592	CATCH PLATE	1	
17	GHF117	SCREW, catch plate to bulkhead	4	
18	GHF331	WASHER, locking	4	
19	GHF300	WASHER, plain	4	
20	603469	CABLE, outer, bonnet release	1	
21	603468	CABLE, inner, bonnet release	1	
22	061917	GROMMET, bonnet release cable	1	

III. No	Part Number	Description	Qty. Req.	Details
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23	611768	CLIP, bonnet release cable	1	
24	HU504	SCREW, clamping cable	1	
25	611626	LEVER, catch assembly	1	
27	750231	BONNET PROP	1	
28	750229	BRACKET	1	
29	601663	BUFFER, rubber	1	
30	GHF221	NUT, nyloc, stay rod to bonnet	1	
31	AJD7722	WASHER, 'Thackery'	1	
32	WM57	WASHER, plain	1	
35	610675	SEALING RUBBER, bonnet, rear	1	
36	650325	BUFFER, bonnet, flat	2	TR4 up to CT37689
TR4's to CT37689 used a flat top bonnet buffer. 612962 (item 37) is pointed and may easily be modified to look authentic. However, check first to ensure that the rear corners of the bonnet are correctly shaped to accept this. The frequent interchange of panels over the years may have produced a vehicle not as original as you believed.				
37	612962	BUFFER, bonnet, pointed	2	TR4 from CT37690, TR4A
38	GHF201	NUT, buffer attachment	2	
39	NT605041	NUT, locking	2	
40	WP139	WASHER, plain	2	
41	611842	BONNET BUFFER, side	4	
42	AD606063	SCREW, securing bonnet buffer	8	
43	CD24152	CUP WASHER	8	
45	750148	BONNET HINGE, LH	1	
	750149	BONNET HINGE, RH	1	
46	GHF103	SCREW	10	
47	GHF332	WASHER, locking	10	
48	GHF301	WASHER, plain	10	
50	705950	MEDALLION	1	TR4 only
51	ADB509	FIXING, for medallion	2	

Ill. No	Part Number	Description	Qty. Req.	Details
55	708837	MEDALLION ASSEMBLY	1	TR4A only
58	PFS103	FIXING, for medallion	2	
60	703862SET	TRIUMPH LETTER SET	1	(includes clips)
	703862	LETTER 'T'	1	
	703863	LETTER 'R'	1	
	703864	LETTER 'I'	1	
	703865	LETTER 'U'	1	
	703866	LETTER 'M'	1	
	703867	LETTER 'P'	1	
	703868	LETTER 'H'	1	
61	PFS104	CLIPS, for letters	14	

TR4 Grille

65	902687	GRILLE	1	
66	GHF426	SCREW, grille to upper valance	6	
67	WP4	WASHER, plain	6	
68	GHF701	SPIRE NUT	2	
69	FU2554	SPIRE NUT	4	

TR4A Grille

70	904120	GRILLE	1	
71	GHF271	NUT, nylon, grille to valance panel	2	
72	WP124	WASHER, plain	2	
73	PT505	SCREW	2	
74	WL700101	WASHER, locking	2	
75	WP124	WASHER, plain	2	
76	FZ34044	NUT, retained	2	

TR4 Starting Handle

80	706163	GUIDE, starting handle	1	chromed
81	612082	PLUG, for above	1	
82	PMP308	SCREW	2	
83	PWZ203	WASHER, plain	2	
84	WL700101	WASHER, locking	2	
85	HN2005	NUT, plain	2	
86	131818	STARTING HANDLE	1	

Items 80 to 86, comprise the factory optional starting handle kit. Whilst an excellent idea for those with long term storage in mind (or flat batteries), it is wise to ensure that the radiator has the correct aperture. See radiator details on page 92.

TR4 Bumper

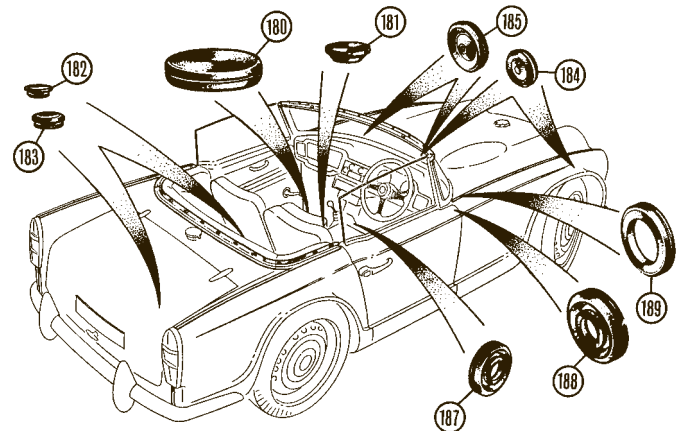
90	805118	BUMPER BAR	1	
	805118FK	FITTING KIT, bumper	1	
91	705920	OVER-RIDER, front	2	
92	552218	PACKING, over-riders	4	
93	554700K	BOLT, chrome	4	supplied with nut & lock washer
94	GHF202	NUT, plain	4	
95	GHF333	WASHER, locking	4	
96	GHF302	WASHER, plain	4	
97	607085	PACKING PIECE	6	bumper bar to mounts
98	706035	SPRING, support	2	
99	SH606101	SCREW	2	
100	GHF333	WASHER, locking	2	
101	GHF302	WASHER, plain	2	
102	610949	BRACKET, bumper support, RH	1	
103	610948	BRACKET, bumper support, LH	1	
105	611455	STUD PLATE, bumper bracket	2	
106	WM59	WASHER, plain	4	
107	GHF333	WASHER, locking	4	
108	GHF202	NUT, plain	4	
109	BH606141	BOLT (spring bracket to bumper)	2	
110	GHF333	WASHER, locking	2	
111	GHF302	WASHER, plain	2	
112	611970	TUBE, support, LH	1	over-rider to wheel arch
	611971	TUBE, support, RH	1	
113	GHF103	SCREW (support to wheel arch)	2	
114	GHF301	WASHER, plain	4	
115	GHF332	WASHER, locking	2	
116	GHF201	NUT, plain	2	
117	SH605051	SCREW (support to over-rider)	2	
118	GHF332	WASHER, locking	2	
119	GHF301	WASHER, plain	2	

Ill. No	Part Number	Description	Qty. Req.	Details
TR4A Bumper				
125	808381	BUMPER BAR	1	
NI	808381FK	FITTING KIT, bumper	1	
126	708282	OVER-RIDER, LH	1	
127	708283	OVER-RIDER, RH	1	
128	552218	PACKING, over-riders	4	
130	554700K	BOLT, chrome	4	supplied with nut & lock washer
131	GHF202	NUT, plain	4	
132	GHF333	WASHER, locking	4	
133	GHF302	WASHER, plain	4	
134	607085	PACKING PIECE	6	bumper bar to mounts
135	708279	SPRING, support	2	
136	SH606101	SCREW	2	
137	GHF333	WASHER, locking	2	
138	GHF302	WASHER, plain	2	
140	808675	BRACKET, bumper support, RH	1	
141	808674	BRACKET, bumper support, LH	1	
142	GHF126	BOLT, bracket to chassis, front	2	
143	BH606221	BOLT, bracket to chassis, rear	2	
144	WM59	WASHER, plain	8	
145	GHF333	WASHER, locking	4	
146	GHF202	NUT, plain	4	
150	BH606151	BOLT	2	Spring bracket and over-rider to bumper
151	GHF333	WASHER, locking	2	
152	GHF302	WASHER, plain	2	

NI	TR45WBS	WING BEADING SET, 6 pieces	1	(includes locating tabs)
155	850479	WING BEADING, front wings	2	
	750126	WING BEADING, upper rear wings	2	
	750187	WING BEADING, lower rear wing	1	LH
	750188	WING BEADING, lower rear wing	1	RH
156	553926	LOCATING TAB	52	

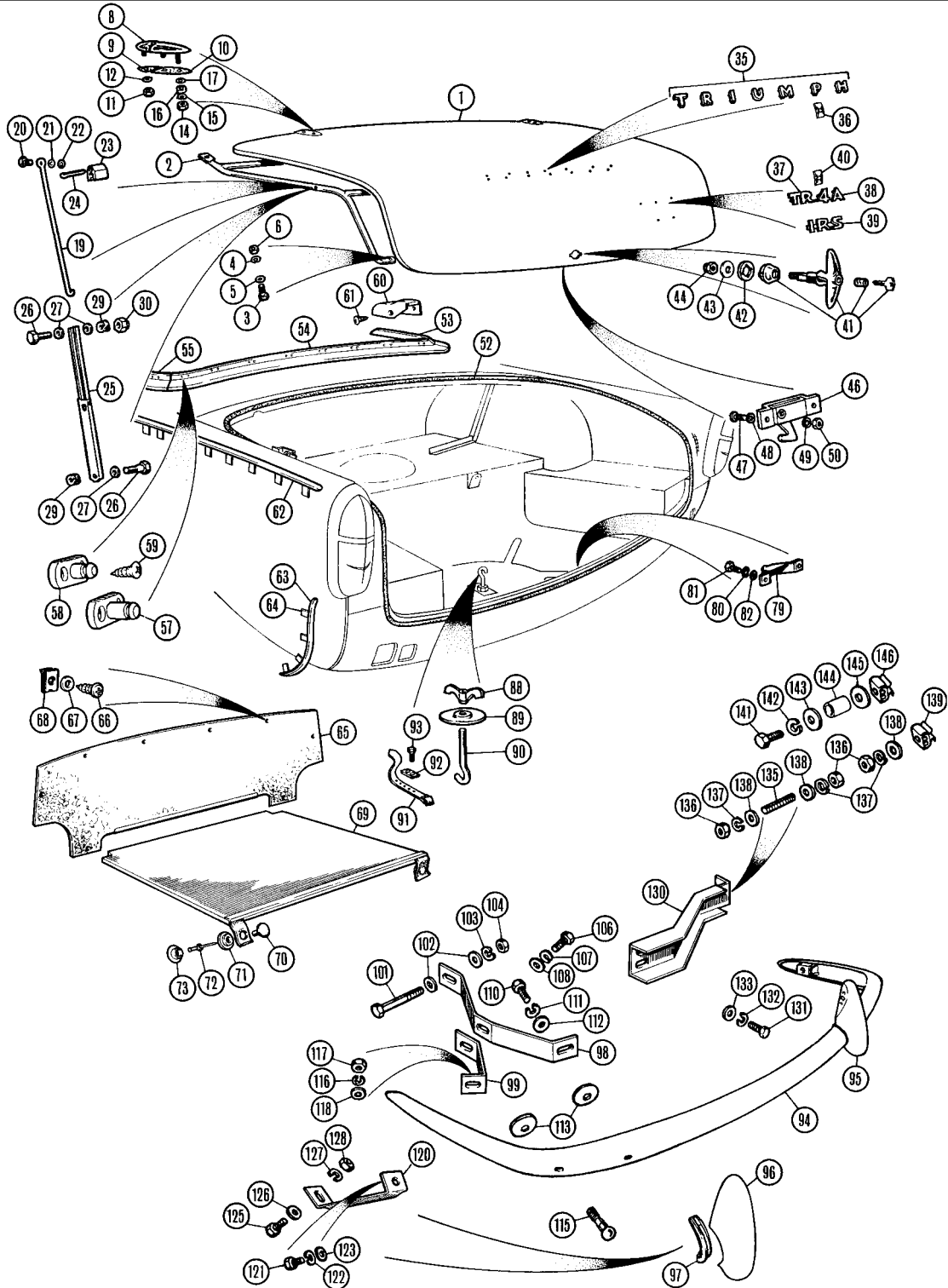
Wing bead is made from stainless steel (not chromed steel)

160	708477	MOULDING, wing, LH	1	TR4A only
	708478	MOULDING, wing, RH	1	
161	708487	MOULDING, door	2	
162	GHF1461	RIVET CLIP, mouldings	26	
163	GHF1532	BARREL CLIP, door moulding, rear	2	
165	GAM105	MIRROR, racing style	a/r	
166	WM1904	MIRROR, convex lens, RH	1	Lucas style
	WM1905	MIRROR, convex lens, LH	1	
	WM1906	MIRROR, flat lens, RH	1	
	WM1907	MIRROR, flat lens, LH	1	
170	CNPTR4	COMMISSION PLATE	1	TR4
171	CNPTR4A	COMMISSION PLATE	1	TR4A
172	RU608123	RIVET, plate attachment	2	



Grommets & Blanking Plugs

180	603384	BLANKING PLUG (3")	2	jack hole in floor
181	605602	BLANKING PLUG, gearbox,	1	universal joint access
182	600399	BLANKING PLUG (1") (drainage)	3	floor, boot, rear seat pan
183	14A7031	BLANKING PLUG (drainage)	2	main floor, boot
184	601917	GROMMET (1/2")	4	side lamp, choke cable, washer hose & bonnet release cable
185	600395	GROMMET (1")	4	
		(wiper drive cable, speedo cable, rev counter cable & heater control cable)		
187	602037	GROMMET (1")	a/r	wiring through gearbox cover
188	600400W	GROMMET (1 1/2")	1	main wiring harness
189	610608	GROMMET	1	steering column



iii. Part Number No	Description	Qty. Req.	Details
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Rear/Side Body Fittings & Bumper

TR4/TR4A

(See also Accessories)

1	813650	BOOT LID, steel	1	} without reinforcement
	813650A	BOOT LID, alloy	1	
	813650REP	REPAIR PANEL, lower/rear	1	
2	903233	TUBULAR REINFORCEMENT	1	
3	GHF101	SCREW, reinforcement to boot lid	2	
4	GHF331	WASHER, locking	2	
5	WC701121	WASHER, plain	2	
6	GHF200	NUT, plain	2	
8	604917/8	BOOT HINGE, pair	1	
9	603213	GASKET, hinge to deck	2	

iii. Part Number No	Description	Qty. Req.	Details
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10	603212	GASKET, hinge to boot lid	2
11	GHF222	NUT, nyloc	2
12	GHF315	WASHER, plain	2
14	GHF200	NUT, plain	4
15	GHF331	WASHER, locking	4
16	WM93	SPACER	2
17	WP167	WASHER	2
19	750154	STAY ROD	1
20	650224	PIN, stay rod pivot	1
21	WP167	WASHER, plain	1
22	FT2906	RETAINER CLIP	1
23	2H9215	RETAINER, stay rod (rubber)	1
24	GHF504	SPLIT PIN	1

TR4 to CT5642

Exterior Trim & Badges (Rear/Side) TR4/4A | 209

Ill. No	Part Number	Description	Qty. Req.	Details
25	612473	STAY ROD, telescopic	1	TR4 from CT5643, TR4A
26	612474	BOLT, upper, stay rod	1	
	612475	BOLT, lower, stay rod	1	
27	GHF300	WASHER, plain	2	
29	AJD7731	WASHER, double coil	2	
30	GHF221	NUT, nyloc	1	

35	703862SET	'TRIUMPH' LETTER SET	1	(includes clips)
	703862	LETTER 'T'	1	
	703863	LETTER 'R'	1	
	703864	LETTER 'I'	1	
	703865	LETTER 'U'	1	
	703866	LETTER 'M'	1	
	703867	LETTER 'P'	1	
	703868	LETTER 'H'	1	

36	PFS104	CLIPS, for letters	28	
37	612276	'TR4' BADGE	1	
38	617820	'A' BADGE	1	TR4A
39	617821	'IRS' BADGE	1	TR4A IRS only
NI	603906	'Overdrive' BADGE	1	
40	PFS104	FIXING, for badges	1	

Remember, not all TR4As were IRS, some USA vehicles retained the solid axle.

41	607978	BOOT HANDLE	1	
	557046	LOCK BARREL & KEY	1	boot handle
42	600949	GASKET, under handle	1	
43	GHF300	WASHER, plain	1	
44	GHF271	NUT, nyloc, thin	1	
46	714485	BUDGET LOCK	1	
47	PMZ308	SCREW, lock to boot lid	2	
48	WL700101	WASHER, locking	2	
49	WL700101	WASHER, locking	2	
50	HN2005	NUT	2	
52	613277	SEAL, boot lid	1	
53	805120	MOULDING, hood fastener, RH	1	TR4 soft top model
54	705421	MOULDING, hood fastener, centre	1	
55	805119	MOULDING, hood fastener, LH	1	

These mouldings are bright anodised aluminium, which cannot be re-chromed.

57	611670	HOOD PEG, male, (long)	2	
58	LFP116	HOOD PEG, male, (short)	14	TR4 soft top model
59	AD606071	SCREW, hood pegs to moulding	32	
60	622748	FINISHER, 'B' post, RH	1	TR4A soft top model
	622747	FINISHER, 'B' post, LH	1	
61	AT606042	SCREW, securing finisher	2	
	TR45WBS	WING BEADING SET, (6 pieces) (includes locating tabs)	1	
	850479	BEADING, front wings	2	
62	750126	BEADING, upper rear wings	2	
63	750187	BEADING, lower rear wing, LH	1	
	750188	BEADING, lower rear wing, RH	1	
64	553926	LOCATING TAB	52	
65	806135	CASING BOARD, fuel tank	1	
66	GHF425	SCREW	8	
67	WP124	WASHER	8	
68	GHF712	SPIRE NUT	8	
69	806837	COVER, spare wheel	1	
70	7H9866	SOCKET, on strap	2	
71	7H9868	BUTTON, on strap	2	
72	GHF600	RIVET	2	
73	610624	STUD	2	

The boot floor, if original, may have several apertures (originally for paint drainage mainly). These may be filled using the following grommets and plugs.

	600395	GROMMET (1")	2	for number plate lamp leads
	600399	PLUG (1") (drainage)	2	boot floor
	14A7031	PLUG (5/8") (drainage)	1	main floor
	600395	GROMMET (1")	1	fuel tank vent hole
	600399	PLUG (1")	1	fuel tank vent access
79	611135	CATCH PLATE, boot latch	1	
80	PMZ308	SCREW, securing catch plate	2	
81	WL700101	WASHER, locking	2	
82	PWZ203	WASHER, plain	2	
88	650019	WING NUT, securing spare wheel	1	
89	650016	DISC, securing spare wheel	1	

Ill. No	Part Number	Description	Qty. Req.	Details
90	650017	HOOK, spare wheel clamp	1	
91	611760	STRAP, for tool roll	1	
92	611763	PLATE, for tool roll strap	1	
93	PT504	SCREW	2	

94	902685	REAR BUMPER BAR	1	
NI	902685FK	FITTING KIT, bumper	1	
95	705906	OVER-RIDER, RH	1	
	619125	OVER-RIDER, RH, no lamp holes	1	German market only
96	705905	OVER-RIDER, LH	1	
	619124	OVER-RIDER, LH, no lamp holes	1	German market only
97	552218	PACKING, over-riders	4	

98	705589	BRACKET, inner	2	TR4
	708171	BRACKET, inner	2	TR4A
99	611112	BRACKET, outer	2	TR4
	616109	BRACKET, outer	2	TR4A
101	BH606261	BOLT	2	
102	GHF302	WASHER, plain	4	
103	GHF333	WASHER, locking	2	
104	GHF202	NUT, plain	2	
106	SH606101	SCREW	2	
107	GHF333	WASHER, locking	2	
108	GHF302	WASHER, plain	2	

110	BH606141	BOLT	2	Spring bracket and over-rider to bumper
111	GHF333	WASHER, locking	2	
112	GHF302	WASHER, plain	2	
113	607085	PACKING, bracket spacer	4	

115	554700K	BOLT, chrome	2	supplied with nut & lock washer
116	GHF333	WASHER, locking	2	
117	GHF202	NUT, plain	2	
118	GHF302	WASHER, plain	2	

120	611642	BRACKET, over-rider support, LH	1	TR4
	611643	BRACKET, over-rider support, RH	1	
	616120	BRACKET, over-rider support, LH	1	TR4A
	616121	BRACKET, over-rider support, RH	1	

121	GHF120	BOLT	2	for over-rider support bracket
122	GHF332	WASHER, locking	2	
123	GHF301	WASHER, plain	2	

125	SH606061	SCREW	2	
126	GHF302	WASHER, plain	2	
127	GHF333	WASHER, locking	2	
128	GHF202	NUT	2	

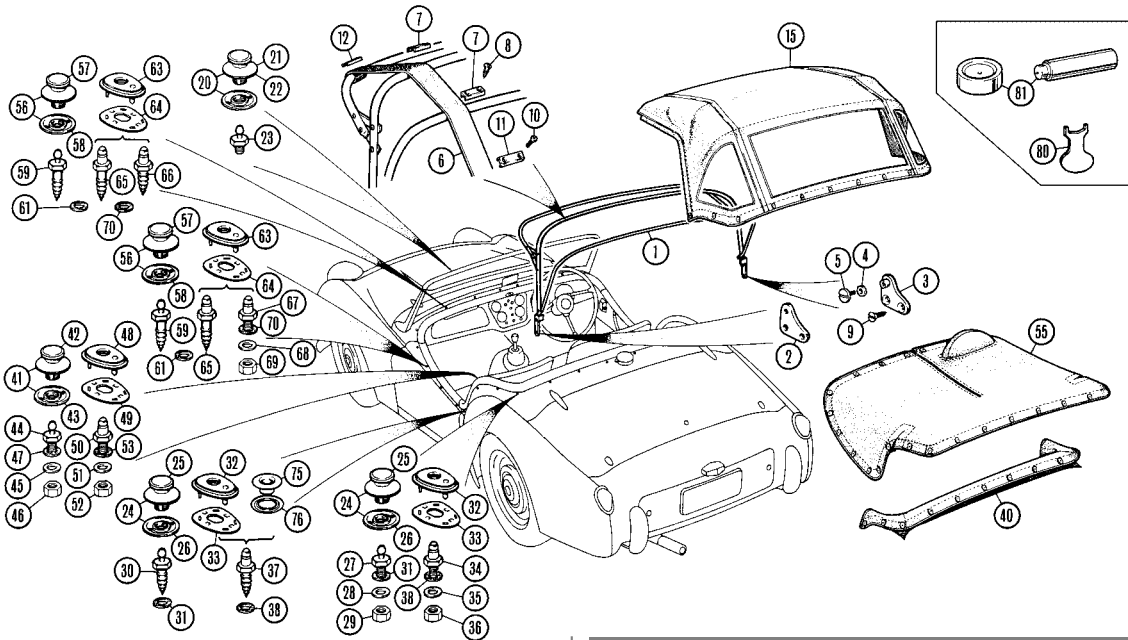
130	705633	OUTRIGGER, bumper support, LH	1	TR4
	705634	OUTRIGGER, bumper support, RH	1	
	708103	OUTRIGGER, bumper support, LH	1	TR4A
	708104	OUTRIGGER, bumper support, RH	1	

131	SH606051	SCREW, outrigger to chassis	4	
132	GHF333	WASHER, locking	4	
133	GHF302	WASHER, plain	4	

Early TR4s had a complex stud/nut/washer locating arrangement for fixing the bumper sides. Thus items 135 to 138 may be replaced with items 141 to 146. It is also recommended for all TRs that a reinforced rubber packing washer (part number 601994) be used to protect the paint work on the rear wings.

135	611134	STUD	2	TR4 to CT3018
136	GHF202	NUT	6	
137	GHF331	WASHER, locking	6	
138	GHF302	WASHER, plain	6	
139	FS2756	RETAINING NUT	2	

141	BH606181	BOLT, bumper to outrigger	2	TR4 from CT3019, TR4A
142	GHF333	WASHER, locking	2	
143	GHF302	WASHER, plain	4	
144	612875	SPACER	2	
145	GHF302	WASHER, plain	2	
146	FS2756	RETAINING NUT	2	



Ill. No	Part Number	Description	Qty. Req.	Details
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Frame & Fittings

1	800542	FRAME ASSEMBLY, hood	1	
<i>NOTE: Hood frame pivots on the Lower End Hole - NOT the centre hole.</i>				
2	602024	PIVOT & BODY BRACKET, LH	1	
3	602025	PIVOT & BODY BRACKET, RH	1	
4	WB110061	WASHER, plain	2	
5	602029	SCREW, main link to body pivot bracket	2	
6	531970	WEBBING, black	2	
7	602030	PLATE (Plate secures webbing to main & rear sticks)	4	
8	YA163	SCREW, plate to sticks	12	
9	TK4708P	SCREW	4	
10	PMZ308	SCREW, plate to tonneau panel	2	
11	602030	PLATE, webbing to tonneau panel	2	
12	602031	PLATE, webbing to front stick, LH	1	
	602032	PLATE, webbing to front stick, RH	1	

Hood & Fittings

If Dzus type sidescreens are fitted to an earlier car it is necessary to fit the later type of hood.

15	703169	HOOD COVER, Black	1	TR2/3, TR3A
	703169DD	HOOD COVER, Black, double duck	1	to TS28825
	703169MH	HOOD COVER, Black, mohair	1	
	703169H	HOOD COVER, Black, harts	1	
	703168	HOOD COVER, White	1	
	704108	HOOD COVER, Black	1	TR3 from TS28826
	704108MH	HOOD COVER, Black, mohair	1	
	704108NMH	HOOD COVER, Blue, mohair	1	
	704108H	HOOD COVER, Black, harts	1	
	704110	HOOD COVER, White	1	

**Note: The 'baby' Tenax pegs & fasteners were used to attach the hood, tonneau and hood stick cover on TR2's up to TS5255. These have been unavailable for many years. We supply the regular sized Tenax fasteners & pegs which must be fitted in sets to replace individual 'baby/Tenax' items.*

20	TFS106*	FASTENER 'Tenax'	10	hood to screen frame
21	552964	FASTENER	10	
22	551684	FASTENER NUT	10	
23	553827*	PEG 'Tenax'	10	
24	TFS106*	FASTENER 'Tenax', hood to body	14	
25	552964	FASTENER	14	
26	551684	FASTENER NUT	14	
27	TFP1006*	PEG 'Tenax', threaded, on body	12	TR2 to TS5255
28	WL700101	WASHER, locking	12	
29	GHF206	NUT, plain	12	
30	552392*	PEG 'Tenax', on body	2	
31	2K4936	WASHER, leather	14	
32	552650	SOCKET 'lift-the-dot', hood to body	14	
33	552651	PLATE, clinch, socket to hood	14	
34	97H717X	PEG 'lift-the-dot', on body	12	TR2 from TS5256,
35	WL700101	WASHER, locking	12	TR3/3A
36	GHF206	NUT, plain	12	

Ill. No	Part Number	Description	Qty. Req.	Details
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37	552670	PEG 'lift-the-dot', on body	2	TR2 from TS5256,
38	2K4936	WASHER, leather	14	TR3/3A

Hood Stick Cover & Fittings

40	559444	HOOD STICK COVER, Black	1	
	559446	HOOD STICK COVER, White	1	
41	TFS106*	FASTENER 'Tenax', cover to body	14	
42	552964	FASTENER	14	
43	551684	FASTENER NUT	14	
44	TFP1006*	PEG 'Tenax', on capping	2	TR2 to TS5255
45	WL700101	WASHER, locking	2	
46	GHF206	NUT, plain	2	
47	2K4936	WASHER, leather	2	
48	552650	SOCKET 'lift-the-dot', cover to body	14	
49	552651	PLATE clinch, socket to cover	14	
50	97H717X	PEG 'lift-the-dot', on body	2	TR2 from TS5256,
51	WL700101	WASHER, locking	2	TR3/3A
52	GHF206	NUT, plain	2	
53	2K4936	WASHER, leather	2	

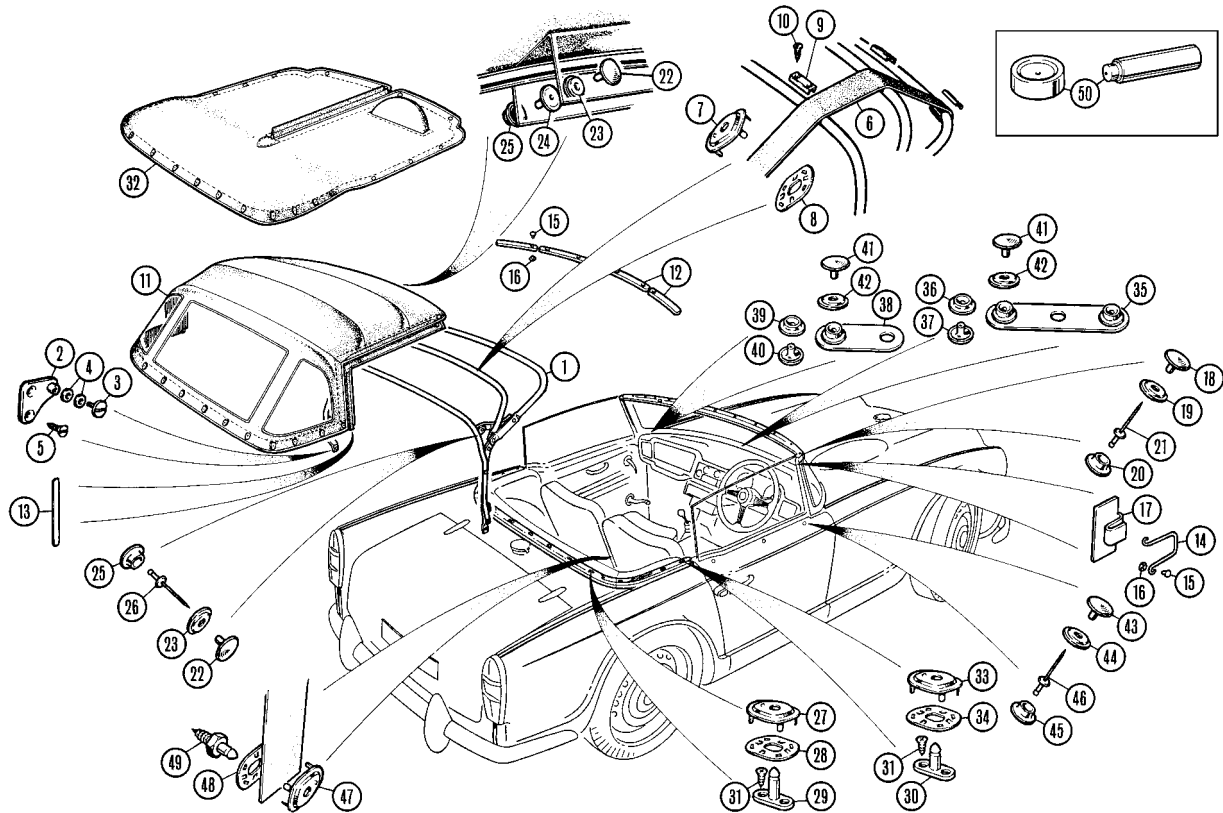
Tonneau Cover & Fittings

All Moss Europe replacement tonneau covers are to the post TS41743 specification and require the sail eyelets (items 75 & 77) on the quarter panel flap.

55	559479	TONNEAU COVER, Black	1	RHD models
	559479DD	HOOD COVER, Black, double duck	1	to TS28825
	559479MH	HOOD COVER, Black, mohair	1	
	559479H	HOOD COVER, Black, harts	1	
	559483	TONNEAU COVER, White	1	
	559478	TONNEAU COVER, Black	1	LHD models
	559482	TONNEAU COVER, White	1	
56	TFS106*	FASTENER 'Tenax' (cover to body)	30	
57	552964	FASTENER	30	
58	551684	FASTENER NUT	30	TR2 to TS5255
59	552391*	PEG 'Tenax', door & scuttle	16	
61	2K4936	WASHER, leather	16	
63	552650	SOCKET 'lift-the-dot' (on cover)	30	TR2 from TS5256,
64	552651	PLATE clinch (socket to cover)	30	TR3/3A
65	552667	PEG 'lift-the-dot' (door & scuttle)	16	TR2 from TS5256,
				TR3, TR3A to TS60000
66	552670	PEG 'lift-the-dot' (on scuttle)	8	
67	97H717X	PEG 'lift-the-dot' (on door skin)	8	TR3 from TS60001
68	WL700101	WASHER, locking	8	
69	GHF206	NUT, plain	8	
70	2K4936	WASHER, leather	16	TR2 from TS5256, TR3/3A
75	618177	SAIL EYELET	2	TR3 from TS41743
76	618178	SAIL EYELET RING	2	

Tools

80	GAC5063X	'TENAX' TOOL	1	
81	GAC5062X	SAIL EYELET TOOL, 2-piece	1	



Ill. No	Part Number	Description	Qty. Req.	Details
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The TR4 hood had a rather interesting method of holding its leading edge to the windscreen. Later cars such as TR4A had 'over centre' clamps and, the TR6 (& Spitfire) had interesting handle arrangements with a 'cam lock peg' system, which gave a very satisfactory seal between the hood and the front edge of the windscreen. TR4's however, relied on steel stripping which was enclosed in the leading edge of the hood and was clipped under an extended top windscreen capping. This meant that it was only the up-force on the underside of the hood (in cockpit) that kept it from flying away. The windscreen capping on TR4's had a pronounced forward extension to take this and, the same method was used to secure the front edge of the Surrey top to the windscreen. Whereas the rear edge was by a bar which was sewn into the Surrey top and secured by two thumb screws, through the rear aluminium Surrey top unit. These items are supplied as a 3 piece set (there were three piece originally) under the part number 806696/MET (item 12). This is the part number for the steel strips on the Surrey top, but they are the same in both the Surrey top and the soft top, so you can use them to replace the worn out rusty ones in your soft top.

For cars fitted with the Surrey hard top (which incidentally was available in both aluminium and steel), the windscreen capping could be changed for a much shorter type, as there was no need to provide an arrangement for holding the soft top on the leading edge of the windscreen.

Frame & Fittings

NOTE: Hood frame pivots on the Lower Centre Hole – NOT the end hole.

1	850405	HOOD FRAME ASSEMBLY	1	
2	602024	BRACKET, body & pivot, LH	1	
	602025	BRACKET, body & pivot, RH	1	
3	602029	SCREW, main link to pivot	2	
4	WB110061	WASHER, plain	4	
5	TK4708P	SCREW, body & pivot to body	4	
6	531970	WEBBING, Black	2	
7	552650	SOCKET, 'lift-the-dot'	2	on webbing
8	552651	CLINCH PLATE, for socket	2	
9	602030	PLATE, webbing to hood sticks	6	
10	YA163	SCREW, plate & webbing	12	to hood sticks

Hood & Fittings

Hoods can be made in a variety of colours and materials (such as Double Duck & Mohair). These hoods are also available with zip out rear windows, please phone.

Please contact your local Moss branch for details & options. Allow extra time for their manufacture.

11	705963	HOOD COVER, Black	1	
	705964	HOOD COVER, White	1	
12	806696/MET	HOOD STIFFENER, front	1	(set of 3)
13	705963/MET	HOOD STIFFENER, side	2	
14	613767	HOOK, side valance	2	
15	563032	TUBULAR RIVET	16	retaining hook & stiffener
16	565756	RIVET CAP	16	
17	611895	BRACKET, hook to screen frame	2	

Ill. No	Part Number	Description	Qty. Req.	Details
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18	7H9864	BUTTON, hood to screen frame	2	
19	7H9866	SOCKET, hood to screen frame	2	
20	610624	STUD, on screen frame capping	2	
21	RU608123	RIVET, stud to capping	2	
22	7H9864	BUTTON, hood to hood frame	6	
23	7H9866	SOCKET, hood to hood frame	6	
24	7H9868	BASE, stud to hood fabric	4	
25	610624	STUD, hood to hood frame	6	
26	RU608123	RIVET, stud to hood frame	2	
27	552650	SOCKET, 'lift-the-dot'	16	hood to body
28	552651	CLINCH PLATE, 'lift-the-dot'	16	
29	611670	HOOD PEG, male, (long)	2	on tonneau capping
30	LFP116	HOOD PEG, male, (short)	14	on tonneau capping
31	AD606063	SCREW, hood pegs	32	to tonneau capping

Tonneau Cover & Fittings

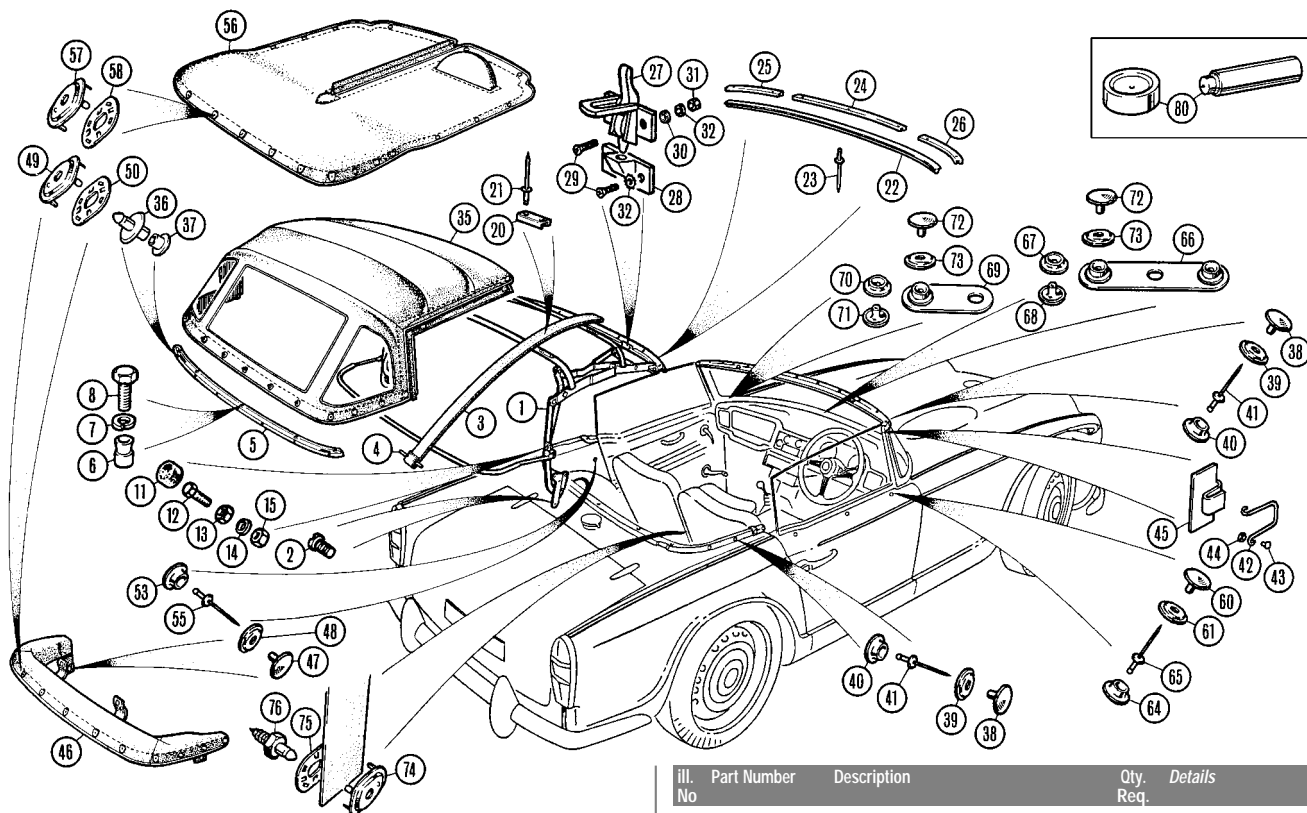
These tonneau covers are also available in a variety of materials and colours, please phone.

32	822051	TONNEAU COVER, Black	1	RHD models
	713889	TONNEAU COVER, White	1	
	822061	TONNEAU COVER, Black	1	LHD models
	713891	TONNEAU COVER, White	1	

Tonneau covers can be made in a variety of colours and materials (such as Double Duck & Mohair).

Please contact your local Moss branch for details & options. Allow extra time for their manufacture.

33	552650	SOCKET, 'lift-the-dot'	16	cover to body
34	552651	CLINCH PLATE, 'lift-the-dot'	16	
35	611707	BRACKET, centre	1	cover to fascia
36	610624	STUD, in bracket	2	
37	7H9868	BASE, stud to bracket	2	
38	611709	BRACKET, outer	2	cover to fascia
39	610624	STUD, in bracket	2	
40	7H9868	BASE, stud to bracket	2	
41	7H9864	BUTTON, cover to fascia	4	
42	7H9866	SOCKET, cover to fascia	4	
43	7H9864	BUTTON, cover to door	6	
44	7H9866	SOCKET, cover to door	6	
45	610624	STUD, cover to door	6	
46	GHF600	RIVET, stud to door	6	
47	552650	SOCKET, 'lift-the-dot'	1	tie strap to passenger seat
48	552651	CLINCH PLATE, 'lift-the-dot'	1	
49	552670	PEG (on passenger seat)	1	
50	GAC5060X	DURABLE DOT TOOL, 2-piece	1	



Ill. No	Part Number	Description	Qty. Req.	Details
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Frame & Fittings

1	904015	FRAME ASSEMBLY, hood	1	
2	516158	SCREW	6	
3	531970	WEBBING	2	
4	571097	RETAINER, wire	2	
5	812832	RETAINER BAR, hood rear	1	
6	617975	RIV-NUT	5	
7	GHF331	WASHER, locking	5	
8	HU706P	SCREW	5	
11	615561	BUFFER	2	
12	GHF101	SCREW	2	
13	JN2107	HALF NUT	2	
14	GHF300	WASHER, plain	2	
15	GHF200	NUT, plain	2	
20	602030	RETAINER, hood webbing	8	
21	RU608123	RIVET, retainer to frame	16	
22	616187	SEAL, header rail	1	
23	RU608123	RIVET	9	
24	713036	CHANNEL, to hold seal, centre	1	
25	713037	CHANNEL, to hold seal, LH	1	
26	713038	CHANNEL, to hold seal, RH	1	
27	609331	CATCH, hood	2	on hood frame
28	609332	CATCH, hood	2	on windscreen frame
29	SP87K5	SCREW	8	
30	WM55	WASHER, plain	4	
31	HN2005	NUT, plain	4	
32	WL700101	WASHER, locking	8	

Hood & Fittings

35	572598	HOOD COVER, Black	1	
	TT71601	HOOD COVER, Black	1	alternative
	572599	HOOD COVER, White	1	
	TT71601W	HOOD COVER, White	1	alternative

Hoods can be made in a variety of colours and materials (such as Double Duck & Mohair). These hoods are also available with zip out rear windows, please phone.

Please contact your local Moss branch for details & options. Allow extra time for their manufacture.

36	565349	PEG, 'lift-the-dot'	7	in hood & rear rail
37	571242	FASTENER, peg	7	to hood & rear rail
38	7H9864	BUTTON, Durable dot,	6	in hood cover
39	7H9866	SOCKET, Durable dot	6	
40	610624	STUD, Durable dot, in body	6	

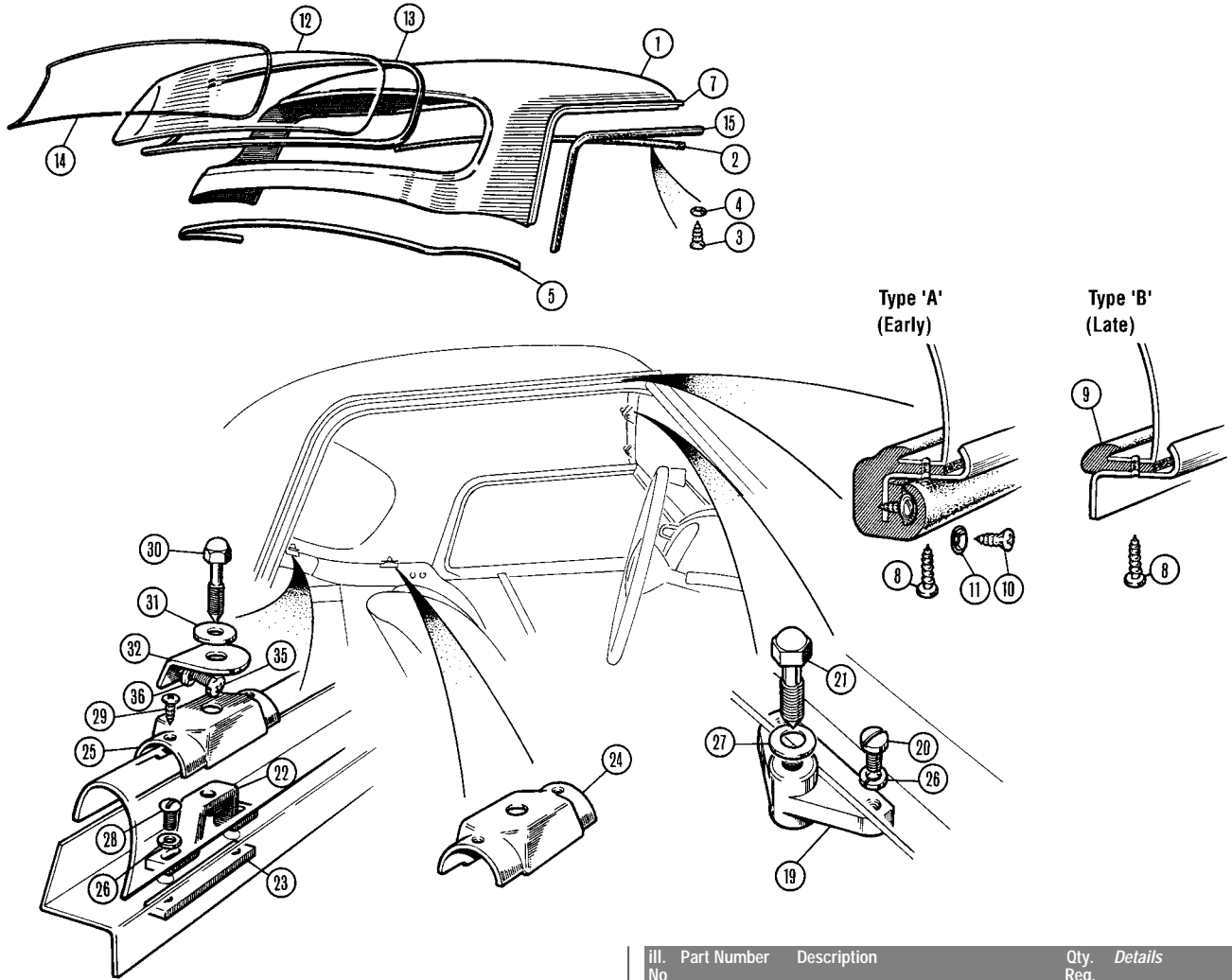
41	RU608123	RIVET, stud to body	6	
42	613767	HOOK, side valance	2	to screen frame
43	563032	TUBULAR RIVET, hook & stiffener	4	
44	565756	RIVET CAP	4	
45	611895	HOOK BRACKET	2	on screen frame

Hood Stowage Cover & Fittings

46	708722	STOWAGE COVER	4	Black with White piping
	726211W	STOWAGE COVER	1	White
	708720	STOWAGE COVER	1	Red with White piping
47	7H9864	BUTTON, Durable dot	10	} (stowage cover to body & trim panel)
48	7H9866	SOCKET, Durable dot	10	
49	552650	SOCKET, 'lift-the-dot'	7	} stowage cover to body
50	552651	CLINCH PLATE, 'lift-the-dot'	7	
53	610624	STUD, Durable dot (on trim panel)	4	
54	RU608123	RIVET, stud to trim panel	4	

Tonneau Cover & Fittings

56	822051	TONNEAU COVER, Black, RHD	1	
	713889	TONNEAU COVER, White, RHD	1	
	822061	TONNEAU COVER, Black, LHD	1	
	713891	TONNEAU COVER, White, LHD	1	
	822051MH	TONNEAU COVER, Black, RHD	1	} Mohair
	822051NMH	TONNEAU COVER, Blue, RHD	1	
	822061NMH	TONNEAU COVER, Blue, LHD	1	} Double Duck
	TDT001	TONNEAU COVER, Black, RHD	1	
	TDT004	TONNEAU COVER, Black, LHD	1	
57	552650	SOCKET, 'lift-the-dot'	7	} cover to body
58	552651	CLINCH PLATE	7	
60	7H9864	BUTTON	12	} (cover to door and forward deck pieces)
61	7H9866	SOCKET	12	
64	610624	STUD, cover to door	6	
65	GHF600	RIVET, stud to door	6	
66	611707	BRACKET	1	centre, cover to fascia
67	610624	STUD, in bracket	2	
68	7H9868	BASE, stud to bracket	2	
69	611709	BRACKET	2	outer, cover to fascia
70	610624	STUD, in bracket	2	
71	7H9868	BASE, stud to bracket	2	
72	7H9864	BUTTON, cover to fascia	4	
73	7H9866	SOCKET, cover to fascia	4	
74	552650	SOCKET, 'lift-the-dot'	1	} cover to body & strap to passenger seat
75	552651	CLINCH PLATE	1	
76	552670	PEG, on passenger seat	1	
80	GAC5060X	DURABLE DOT TOOL, 2-piece	1	



Ill. No	Part Number	Description	Qty. Req.	Details
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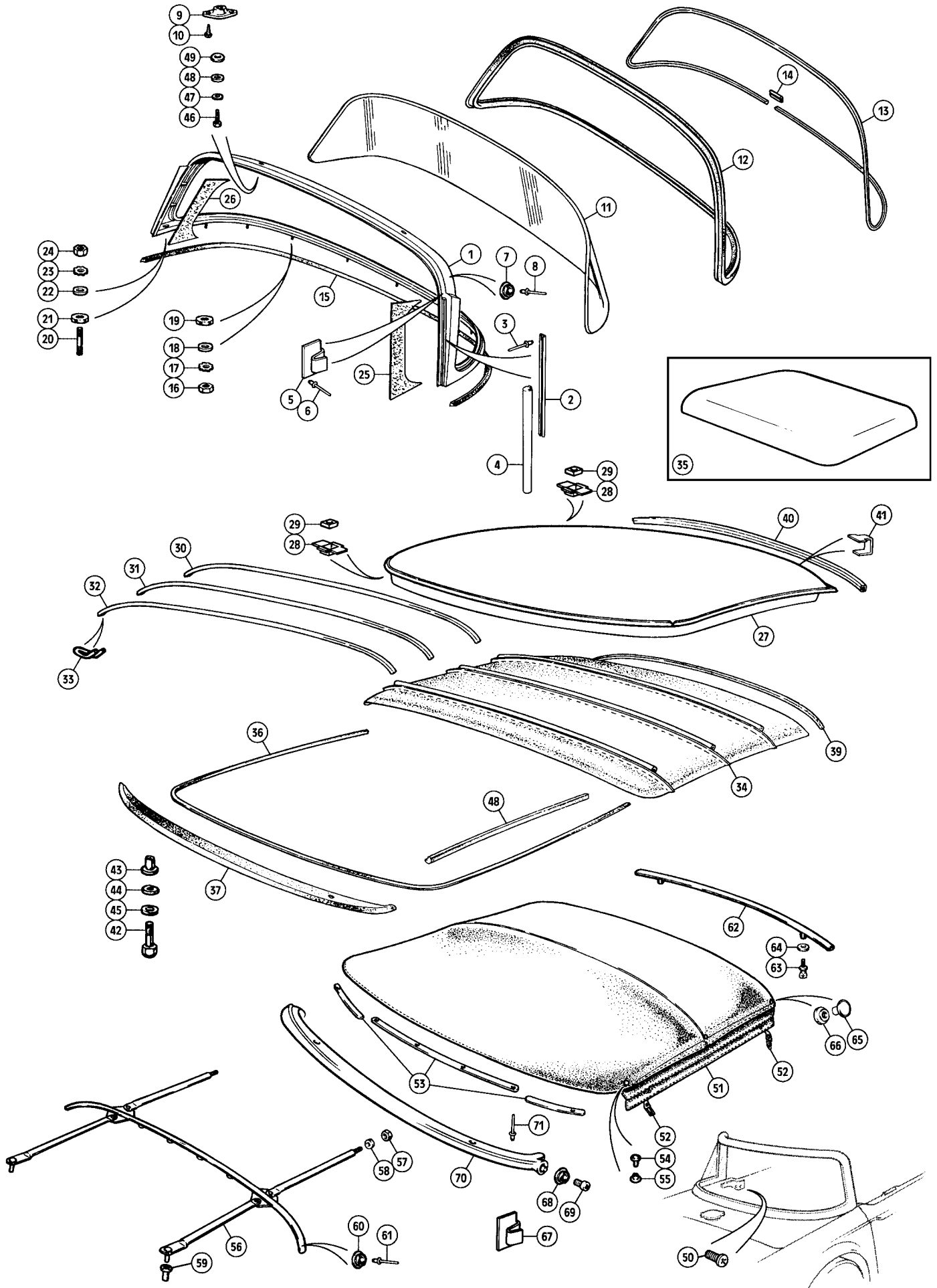
Hard-Top (Factory) TR2/TR3/3A

The hardtop kit was offered as an optional extra quite early on in the life of the TR2. There was a considerable improvement in the car build accuracy from TS6824, when new body jigs were introduced on the assembly line, which made fitting the kit less difficult. The factory fitting instructions more than hinted to leave all the fittings quite loose to allow plenty of 'adjustment scope' - until all was sitting on the car satisfactorily, then start fully tightening the bolts. Somewhat near the end of the process the onset of a 'squeegee' sound usually meant that the rear window wasn't too happy with the new shape it was being asked to come; partly the price paid for hand built cars, but probably more often the result of bodywork re-arrangement. As the windows were made of Perspex, this was really catastrophic, but may explain some strange scratch marks on windows of otherwise good second-hand units. Hard-tops were constructed in both polyester and steel, to identical patterns.

1	553742	HARD-TOP	1	includes backlight & seals only
2	603328	SEAL, rubber, front sealing	1	
3	AD604062	SCREW, sealing rubbers	12	
4	SP132BCP	CUP WASHER, on screw	12	
5	602269	SEALING STRIP, hardtop to saddle	1	
7	802612	DRIP CHANNEL, cantrail, RH	1	
	802611	DRIP CHANNEL, cantrail, LH	1	
8	GHF421	SCREW, drip channel	24	
9	607071	STRIP, sealing cantrail	2	
There were two types of cantrail seal fitted during the production history of the hardtop. Both were supplied under the same part no. (607071) by the same supplier.				
There was the early all rubber type (see ill. 'A') which was superseded to the later 2-piece rubber & furlflex type (see ill. 'B', & item 15). We supply the later 2-piece type.				
10	AD604062	SCREW, sealing strip	14	} type 'A' cantrail sealing strip only
11	SP132BCP	CUP WASHER (under screw)	14	
12	553132	BACKLIGHT	1	
13	559766	SEALING STRIP (backlight)	1	
14	559767	FILLER, sealing (backlight)	1	

15	609450	SEAL, (Furlflex), Black	2	} 'Snap-on' type
	609451	SEAL, (Furlflex), Red	2	
	609452	SEAL, (Furlflex), Blue	2	
	609453	SEAL, (Furlflex), Silverstone grey	2	
	609454	SEAL, (Furlflex), Targo purple	2	
The original items were supplied in a number of different material finishes.				
As original stocks dwindle we will supply modern equivalents in furlflex, woven or plastic finish.				
The modern replacement items are listed here - 2 metres required per hardtop.				
	724031M	SEAL, (felt/rubber), Black	2	
	DER5001M	SEAL, (felt/rubber), Red	2	
	DEG3220M	SEAL, (woven/rubber), Green	2	
	DEL3220M	SEAL, (woven/rubber) Blue	2	
	KGFB17M	SEAL, (plastic/rubber) Grey	2	
NI	556034FK	FITTING KIT (Hard-Top) (kit includes items 19 to 31)	1	
19	603189	BRACKET	3	hardtop to windscreen
20	501434	SCREW	6	w/screen bracket to screen
21	602295	SCREW,	3	hard-top to w/screen bkt
22	602326	BRIDGE PIECE, hard-top rear	5	
23	602299	PLATE, bridge piece	5	(tapping plate)
24	602938	PLATE, tonneau capping	2	(protector plate)
25	602939	PLATE, tonneau capping, rear	3	(protector plate)
26	WL700101	WASHER, locking	16	
27	510524	WASHER, chrome, on screw	3	
28	TR6504	SCREW	10	bridge piece to topping plate
29	AB604023	SCREW	10	protection plates to capping
30	602327	SCREW	5	hard-top to bridge piece
31	WM57	WASHER, plain	5	
32	650195	ANGLE FIXING, rear	2	
	650194	ANGLE FIXING, centre	1	
	650193	ANGLE FIXING, side	2	
35	SE604031	SCREW	5	angles to hard-top stiffener
36	GHF321	WASHER, shakeproof	5	

214 | Hard-Top (Surrey Top) TR4/4A



Ill. No	Part Number	Description	Qty. Req.	Details
Surrey Top				
TR4/TR4A				
<i>(Sometimes also referred to as Targa Top).</i>				
Backlight Assembly				
1	566993	FRAME, backlight, alloy	1	
	566993X	FRAME, backlight, fibreglass	1	<i>alternative</i>
2	612461	RETAINER, seal	2	
3	554407	RIVET, retainer	8	
4	650310/13	SEALING RUBBER	2	
5	612453	BRACKET, canopy	2	
6	568643	RIVET, bracket	4	
	510473	RIVET, bracket	4	<i>alternative</i>
7	565726	STUD, canopy fixing	2	
8	561210	RIVET, Imex	2	
9	611668	COVER PLATE, in frame	2	
10	510481	SCREW, cover plate	4	
11	902343	BACKLIGHT, glass	1	
	902343X	BACKLIGHT, perspex	1	<i>alternative</i>
12	902349	RUBBER, glazing	1	
13	613958	FINISHER, chromed beading	1	
14	611437	COVER, joint finisher	1	
15	610633	SEAL, Surrey frame to rear deck	1	
16	HN2007	NUT, plain	7	
17	WL607	WASHER, shakeproof	7	
18	WP167	WASHER, plain	7	
19	611947	WASHER, rubber	7	
	WF507	WASHER, fibre	7	<i>alternative</i>
20	610080	STUD, backlight frame to body	2	
21	611948	WASHER, rubber	2	
	WF507	WASHER, fibre	2	<i>alternative</i>
22	WP167	WASHER, plain	2	
23	WL607	WASHER, shakeproof	2	
24	HN2007	NUT	2	
25	611936	FINISHER, LH	1	
26	611937	FINISHER, RH	1	
Roof Assembly				
27	903978	ROOF ASSEMBLY	1	
	903979	ROOF ASSEMBLY, alloy	1	
	903978FG	ROOF ASSEMBLY, fibreglass	1	
28	600032	RETAINER	4	
29	NQ2708	NUT, square	4	
30	611583	ROD, listing, rear	1	
31	611582	ROD, listing, centre	1	
32	611581	ROD, listing, front	1	
33	608307	CLIP, locating listing rod	6	
34	713149	HEADLINING, white	1	
35	713149X	HEADLINING, fibreglass <i>(‘pop-in’ type)</i>	1	<i>alternative, replaces items. 30 to 34</i>
36	618021	DRAUGHT EXCLUDER, black	1	
	618022	DRAUGHT EXCLUDER, red	1	
	618023	DRAUGHT EXCLUDER, light tan	1	
	618026	DRAUGHT EXCLUDER, midnight blue	1	
	618027	DRAUGHT EXCLUDER, shadow blue	1	
37	806144	RUBBER, sealing to windscreen top	1	
38	650312	RUBBER, sealing to cantrail	2	
39	611656	RUBBER, sealing roof to backlight	1	
40	806175	CAPPING, rear	1	
41	612211	CLIP, capping	9	
	611662	CLIP, capping	9	<i>alternative</i>
42	611639	BOLT, domed, chrome	2	
	622887	BOLT, domed, blackadised	2	<i>alternative</i>
43	613508	DISTANCE TUBE	2	

Ill. No	Part Number	Description	Qty. Req.	Details
44	500057	WASHER, locking, chromed	2	
	517264	WASHER, locking, blackadised	2	<i>alternative</i>
45	511044	WASHER, plain, chromed	2	
	517263	WASHER, plain, blackadised	2	<i>alternative</i>
46	611637	BOLT, chromed, roof to backlight	2	
47	500037	WASHER, locking	2	
48	511044	WASHER, plain, chromed	2	
49	612417	WASHER, rubber	2	
	WF508	WASHER, fibre	2	<i>alternative</i>
50	PX704	SCREW	4	<i>fitted in body</i>
<i>This screw is fitted to the hood frame fixing tapped plates to prevent rattles when the hard top is fitted.</i>				

Surrey Top Conversion

	566330	SURREY TOP CONVERSION KIT, black	1	
	566458	SURREY TOP CONVERSION KIT, white	1	
51	806696	SOFT TOP CANOPY, black	1	
	806697	SOFT TOP CANOPY, white	1	
52	613767	HOOK, canopy attachment	4	
53	806696/MET	CANOPY STIFFENER, front, (set of 3)	1	
54	565756	CAP RIVET, securing hook & stiffener	4	
55	563032	RIVET BACK	4	
56	806603	FRAMEWORK, soft top canopy	1	
57	JN2109	NUT, tension adjustment	2	
58	WP9	WASHER, plain	2	
59	612092	BUSH, end, rubber	2	
60	610624	STUD, durable dot	6	
61	566352	RIVET, pop	6	
62	706240	RETAINER ASSEMBLY, rear	1	
63	612205	THUMBSCREW, rear retainer	2	
64	511044	WASHER, plain, chromed	2	
65	565747	BUTTON	10	
66	565748	SOCKET	10	
67	611895	BRACKET, hook	2	
68	565746	STUD, durable dot	2	
69	509224	SCREW, self tapping	2	

Windscreen Capping

70	806189	CAPPING, windscreen	1	<i>required when Surrey top is fitted</i>
71	554407	RIVET, Imex	9	

General Hardware & Fixings

Following is a listing of the common fasteners used on MG cars. These fasteners are for general use and are not intended to replace those listed for specific applications elsewhere in this catalogue. To aid identification by terminology, a screw is threaded for its full length. A bolt is only part threaded with a plain unthreaded shank area between the head and the thread. The part number two letter prefix of SH means that the item is a Screw with a Hexagon head. The prefix BH means a Bolt with a Hexagon head. The first number defines the thread type, UNF = 6, UNC = 5. The second and third numbers give the thread diameter in increments of 1/16", e.g. 04 = 1/4", 05 = 5/16", 10 = 5/8". The fourth and fifth digits show the length in increments of 1/8", e.g. 04 = 1/2", 16 = 2", 23 = 2 7/8". The last digit defines finish, 1 = zinc plated.

This coding system is only applicable to bolts/screws; nuts/washers are coded by a similar system that follows some of the above principles.

Bolts and Set Screws

3/16" UNF

Hexagon Headed 3/8" A.F. Spanner Size

Bolt	Length	Set Screw
	3/8"	HU503
	1/2"	HU504
	5/8"	HU505
	3/4"	HU506
	7/8"	HU507
	1"	HU508

1/4" UNF

Hexagon Headed 7/16" A.F. Spanner Size

Bolt	Length	Set Screw
	3/8"	SH604031
	1/2"	SH604041
	5/8"	SH604051
	3/4"	SH604061
	7/8"	SH604071
BH604081	1"	SH604081
BH604091	1 1/8"	SH604091
BH604101	1 1/4"	SH604101
BH604111	1 3/8"	SH604111
BH604121	1 1/2"	SH604121
BH604141	1 3/4"	SH604141
BH604161	2"	SH604161
BH604181	2 1/4"	
BH604201	2 1/2"	
BH604241	3"	

5/16" UNF

Hexagon Headed 1/2" A.F. Spanner Size

Bolt	Length	Set Screw
	3/8"	SH605031
	1/2"	SH605041
	5/8"	SH605051
	3/4"	SH605061
	7/8"	SH605071
	1"	SH605081
BH605091	1 1/8"	SH605091
BH605101	1 1/4"	SH605101
BH605111	1 3/8"	SH605111
BH605121	1 1/2"	SH605121
BH605141	1 3/4"	SH605141
BH605151	1 7/8"	SH605151
BH605161	2"	SH605161
BH605181	2 1/4"	SH605181
BH605201	2 1/2"	SH605201
BH605221	2 3/4"	SH605221
BH605241	3"	SH605241

3/8" UNF

Hexagon Headed 9/16" A.F. Spanner Size

Bolt	Length	Set Screw
	3/8"	SH606031
	1/2"	SH606041
	5/8"	SH606051

3/8" UNF continued

	3/4"	SH606061
	7/8"	SH606071
BH606081	1"	SH606081
BH606091	1 1/8"	SH606091
BH606101	1 1/4"	SH606101
BH606111	1 3/8"	SH606111
BH606121	1 1/2"	SH606121
BH606141	1 3/4"	SH606141
BH606161	2"	SH606161
BH606181	2 1/4"	SH606181
BH606201	2 1/2"	SH606201
BH606221	2 3/4"	
BH606241	3"	
BH606281	3 1/2"	
BH606321	4"	

7/16" UNF

Hexagon Headed 5/8" A.F. Spanner Size

Bolt	Length	Set Screw
	5/8"	SH607051
	3/4"	SH607061
	7/8"	SH607071
	1"	SH607081
	1 1/8"	SH607091
	1 1/4"	SH607101
	1 3/8"	SH607111
BH607121	1 1/2"	SH607121
BH607141	1 3/4"	SH607141
BH607161	2"	SH607161
BH607181	2 1/4"	SH607181
BH607201	2 1/2"	
BH607241	3"	

1/2" UNF

Hexagon Headed 3/4" A.F. Spanner Size

Bolt	Length	Set Screw
	1/2"	SH608041
	5/8"	SH608051
	1"	SH608081
	1 1/2"	SH608121
BH608141	1 3/4"	SH608141
BH608161	2"	
BH608181	2 1/4"	
BH608201	2 1/2"	SH608201
BH608241	3"	

1/4" UNC

Hexagon Headed 7/16" A.F. Spanner Size

Bolt	Length	Set Screw
	3/8"	SH504031
	1/2"	SH504041
	5/8"	SH504051
	3/4"	SH504061
	7/8"	SH504071
	1"	SH504081
BH504091	1 1/8"	SH504091
	1 1/4"	SH504101
BH504111	1 3/8"	SH504111
BH504121	1 1/2"	SH504121
BH504141	1 3/4"	SH504141
BH504161	2"	
BH504181	2 1/4"	SH504181
BH504201	2 1/2"	

5/16" UNC

Hexagon Headed 1/2" A.F. Spanner Size

Bolt	Length	Set Screw
	3/8"	SH505031
	1/2"	SH505041
	5/8"	SH505051
	3/4"	SH505061
	7/8"	SH505071
	1"	SH505081
	1 1/8"	SH505091
BH505101	1 1/4"	SH505101
BH505111	1 3/8"	SH505111

5/16" UNC continued

BH505121	1 1/2"	SH505121
BH505141	1 3/4"	SH505141
BH505161	2"	
BH505181	2 1/4"	
BH505201	2 1/2"	SH505201
BH505241	3"	

3/8" UNC

Hexagon Headed 9/16" A.F. Spanner Size

Bolt	Length	Set Screw
	1/2"	SH506041
	3/4"	SH506061
	7/8"	SH506071
BH506081	1"	SH506081
	1 1/8"	SH506091
	1 1/4"	SH506101
BH506111	1 3/8"	SH506111
BH506121	1 1/2"	SH506121
BH506141	1 3/4"	
BH506161	2"	SH506161
BH506181	2 1/4"	
BH506201	2 1/2"	
BH506241	3"	SH506241

Screws

Self Tapping Screws

Pan Headed	Size	Length	Countersunk Headed
AB604021	No. 4	1/4"	AC604021
AB606021	No. 6	1/4"	
AB606031	No. 6	3/8"	
AB606041	No. 6	1/2"	AC606041
AB606061	No. 6	3/4"	AC606061
AB606081	No. 6	1"	AC606081
AB608041	No. 8	1/2"	AC608041
AB608061	No. 8	3/4"	AC608061
AB608081	No. 8	1"	
AB610041	No. 10	1/2"	AC610041
AB610061	No. 10	3/4"	AC610061
AB610081	No. 10	1"	AC610081
AB612041	No. 12	1/2"	AC612041
AB612061	No. 12	3/4"	
AB612081	No. 12	1"	AC612081
AB614061	No. 14	3/4"	AC614061
AB614081	No. 14	1"	AC614081

B = Pan Head

C = Countersunk Head

1st digit = thread type (coarse or fine)

2nd/3rd digit = diameter

4th/5th = length in 1/8" increments

6th = finish (1 = zinc plated)

Screws (Cross Slot)

Pan Headed	Size	Length	Countersunk Headed
PMZ204	No. 6 UNC	1/4"	CMZ204
PMZ208	No. 6 UNC	1/2"	CMZ208
PMZ304	No. 10 UNF	1/4"	CMZ304
PMZ305	No. 10 UNF	5/16"	CMZ305
PMZ306	No. 10 UNF	3/8"	CMZ306
PMZ307	No. 10 UNF	7/16"	CMZ307
PMZ308	No. 10 UNF	1/2"	CMZ308
PMZ310	No. 10 UNF	5/8"	CMZ310
PMZ312	No. 10 UNF	3/4"	CMZ312
PMZ314	No. 10 UNF	7/8"	
PMZ316	No. 10 UNF	1"	CMZ316

Screws (Cross Slot) continued

SE604041	1/4" UNF	1/2"	SF604041
SE604051	1/4" UNF	5/8"	SF604051
SE604061	1/4" UNF	3/4"	SF604061
SE604071	1/4" UNF	7/8"	SF604071
SE604081	1/4" UNF	1"	SF604081
SE604121	1/4" UNF	1 1/2"	SF604121
	1/4" UNF	1 3/4"	CMZ428
SE605061	5/16" UNF	3/4"	SF605061
SE605081	5/16" UNF	1"	SF605081

Nuts

Nuts: Plain

Full Nut	Thread Size	Spanner Size	Half Nut
HN2003	No. 6 UNF	5/16"	
HN2005	3/16" UNF	3/8"	
GHF206	3/16" UNF	5/16"	
HN2007	1/4" UNF	7/16"	NJ2107
HN2008	5/16" UNF	1/2"	JN2108
HN2009	3/8" UNF	9/16"	JN2109
HN2010	7/16" UNF	5/8"	JN2110
HN2011	1/2" UNF	3/4"	JN2111
HN2012	9/16" UNF	7/8"	JN2112
HN2013	5/8" UNF	15/16"	JN2113
HN2057	1/4" UNC	7/16"	JN2157
HN2058	5/16" UNC	1/2"	JN2158
HN2059	3/8" UNC	9/16"	JN2159

Nuts: Nyloc Self Locking

Full Nut	Thread Size	Spanner Size	Half Nut
YN2905	3/16" UNF	5/16"	
YN2907	1/4" UNF	7/16"	GHF271
YN2908	5/16" UNF	1/2"	TN3208
YN2909	3/8" UNF	9/16"	TN3209
YN2910	7/16" UNF	5/8"	TN3210
YN2911	1/2" UNF	3/4"	TN3211
YN2912	9/16" UNF	7/8"	TN3212
YN2913	5/8" UNF	15/16"	TN3213

Nuts: Self Locking, 'Aero' or all metal, 'Phillidas'

Full Nut	Thread Size	Spanner Size	Half Nut
AN3507	1/4" UNF	7/16"	
AN3508	5/16" UNF	1/2"	
AN3509	3/8" UNF	9/16"	
AN3510	7/16" UNF	5/8"	
AN3511	1/2" UNF	3/4"	

Nuts: Slotted

Full Nut	Thread Size	Spanner Size	Half Nut
ND606041	3/8" UNF	9/16"	LN2209
ND607041	7/16" UNF	5/8"	NL607041
ND608041	1/2" UNF	3/4"	LN2211
ND609041	9/16" UNF	7/8"	LN2212
ND610041	5/8" UNF	15/16"	NL610041

Nuts: Plain Brass - Manifold

Full Nut	Thread Size	Spanner Size
GHF261	5/16" UNF	1/2"
GHF262	3/8" UNF	9/16"
GHF270	5/16" UNC	1/2"
GHF269	3/8" UNC	9/16"

Spring/Spire Nut

Flat Type	Screw Size	U' Type
GHF700	No. 6	GHF711
GHF701	No. 8	GHF712
GHF702	No. 10	GHF713
GHF703	No. 12	GHF714
GHF704	No. 14	

Captive Nuts

Captive nuts consist of a square nut & cage which we supply individually as required. Always match nut & cage A.F. sizes.

Part Number	Description	Thread Size
NQ2707	Nut, 7/16" AF	1/4"
NQ2708	Nut, 5/8" AF	5/16"
CN4	Nut, fits CN3 cage	1/4"
CN5	Nut, 1/2" AF	5/16"

Part Number	Description	Spanner (AF) Size
CN2	Cage, square	7/16"
CN3	Cage, oblong	7/16"
600032	Cage, square	1/2"

Washers

Shake-proof Washers

Internal Star	Hole Size	External Star
WF704061	No. 6	WE704061
WF702101	3/16"	WE702101
WF600041	1/4"	WE600041
WF600051	5/16"	WE600051
WF600061	3/8"	WE600061
WF600071	7/16"	WE600071
WF600081	1/2"	WE600081
WF600091	9/16"	WE600091
WF600101	5/8"	WE600101

Locking Washers

Spring Type

Single Coil	Hole Size	Double Coil
WL700061	No. 6	
WL700081	No. 8	
WL700101	3/16"	AJD7721
GHF331	1/4"	AJD7722
GHF332	5/16"	AJD7731
GHF333	3/8"	AJD7742
GHF334	7/16"	
GHF335	1/2"	
GHF336	5/8"	

Plain Washers

Standard Type	Hole Size	Repair Type
	No. 6	WP3
	No. 8	WP4
GHF306	3/16"	WP5
GHF300	1/4"	WP120
GHF301	5/16"	WP105
GHF302	3/8"	WP130
GHF303	7/16"	WM69
GHF304	1/2"	
	9/16"	WP12
	5/8"	PWZ110

Sealing Washers

Fibre Washer	Hole Size	Copper Washer
WF505	3/16"	
GHF342	1/4"	GHF361
GHF343	5/16"	GHF362
GHF344	3/8"	GHF363
GHF345	7/16"	GHF364
GHF346	1/2"	GHF365
GHF347	9/16"	
GHF348	5/8"	

Studs

Studs- UNF

A stud is a length of round bar threaded at both ends. The length of thread at each end of the stud may vary for specific applications. The following list is of studs have fine (UNF) threads at both ends.

Part Number	Diameter	Overall length
TE604081	1/4"	1"
TE604091	1/4"	1 1/8"
TE604101	1/4"	1 1/4"
TE605101	5/16"	1 1/4"
TE605111	5/16"	1 3/8"
TE605121	5/16"	1 1/2"
TE605131	5/16"	1 5/8"
TE605141	5/16"	1 3/4"
TE605151	5/16"	1 7/8"
TE605181	5/16"	2 1/4"
TE605201	5/16"	2 1/2"
TE605221	5/16"	2 3/4"
TE605251	5/16"	3 1/8"
TE605291	5/16"	3 5/8"
TE606101	3/8"	1 1/4"
TE606111	3/8"	1 3/8"
TE606121	3/8"	1 1/2"
TE606141	3/8"	1 3/4"
TE606151	3/8"	1 7/8"

Studs- UNF/UNC

Fine (UNF) threads at one end and course (UNC) at the other.

Part Number	Diameter	Overall length
TE504081	1/4"	1"
TE504131	1/4"	1 5/8"
TE505091	5/16"	1 1/8"
TE505111	5/16"	1 3/8"
TE505121	5/16"	1 1/2"
TE505131	5/16"	1 5/8"
TE505141	5/16"	1 3/4"
TE505151	5/16"	1 7/8"
TE505161	5/16"	2"
TE505181	5/16"	2 1/4"
TE505201	5/16"	2 1/2"
TE505221	5/16"	2 3/4"
TE505241	5/16"	3"
TE505261	5/16"	3 1/4"
TE505271	5/16"	3 3/8"
TE505281	5/16"	3 1/2"
TE505341	5/16"	4 1/4"
TE506101	3/8"	1 5/16"
TE506131	3/8"	1 5/8"
TE506141	3/8"	1 3/4"
TE506161	3/8"	2"
TE506201	3/8"	2 1/2"
TE506361	3/8"	3 1/2"

The following studs have course (UNC) threads at both ends.

Part Number	Diameter	Overall length
101442	3/8"	1 5/8"
058688	3/8"	1 11/16"
115696	3/8"	1 13/16"
058917	3/8"	1 15/16"
102474	3/8"	2 1/16"
107055	3/8"	2 3/8"

Dowels

Part Number	Dia.	Overall length	Part Number	Dia.	Overall length
DP204	1/8"	1/4"	DP414	1/4"	7/8"
DP205	1/8"	5/16"	DP508	5/16"	1/2"
DP306	3/16"	3/8"	DP514	5/16"	7/8"
DP407	1/4"	7/16"	DP608	3/8"	1/2"
DP408	1/4"	1/2"	DP610	3/8"	5/8"
DP410	1/4"	5/8"	DP610	3/8"	1 3/16"
DP411	1/4"	11/16"			

Clevis Pins

(Measured from under head to end)

Part Number	Length	Dia.	Part Number	Length	Dia.
108326	1/2"	1/8"	CLZ412	3/4"	1/4"
PJ8504	3/8"	3/16"	CLZ413	13/16"	1/4"
CLZ307	7/16"	3/16"	CLZ414	7/8"	1/4"
CLZ308	1/2"	3/16"	CLZ415	15/16"	1/4"
CLZ309	9/16"	3/16"	CLZ416	1"	1/4"
CLZ310	5/8"	3/16"	CLZ417	1 1/16"	1/4"
CLZ311	11/16"	3/16"	CLZ427	1 11/16"	1/4"
CLZ312	3/4"	3/16"		1/2"	5/16"
CLZ313	13/16"	3/16"		9/16"	5/16"
CLZ314	7/8"	3/16"	CLZ510	5/8"	5/16"
CLZ315	15/16"	3/16"	CLZ511	11/16"	5/16"
CLZ316	1"	3/16"	CLZ512	3/4"	5/16"
CLZ317	1 1/16"	3/16"	CLZ513	13/16"	5/16"
	3/8"	1/4"	CLZ514	7/8"	5/16"
	7/16"	1/4"	CLZ515	15/16"	5/16"
CLZ408	1/2"	1/4"	CLZ516	1"	5/16"
CLZ409	9/16"	1/4"	CLZ517	1 1/16"	5/16"
CLZ410	5/8"	1/4"	CLZ518	1 1/8"	5/16"
CLZ411	11/16"	1/4"			

Split Pins

Part Number	Length	Dia.	Part Number	Length	Dia.
GHF500	1 1/2"	1/16"	GHF504	2 1/4"	1/8"
GHF501	1 1/2"	5/64"	GHF505	2 1/4"	9/64"
GHF502	1 1/2"	3/32"	GHF506	2 1/4"	5/32"
GHF503	2 1/4"	7/64"	GHF513	3"	5/16"

Pipes, Hardware and Fittings

Brake & Fuel Pipe

Supplied in 25 foot rolls.

Part Number	Material	Diameter
MPKF125	Cupro-nickel	3/16"
MPKF225	Cupro-nickel	1/4"
MPKF325	Cupro-nickel	5/16"
EF125	Steel	3/16"
EF225	Steel	1/4"
EF325	Steel	5/16"

Male Pipe Nuts

Brass Part Number	Steel Part Number	Thread Size	Pipe Bore
AEHU1	TM606031	3/8" UNF	3/16"
AEHU2	TM110051	10mm x 1mm	3/16"
AEHU3	LK21994	3/8" BSF	3/16"
	BCA4370	7/16" UNF	3/16"
AEHU7	BHA4706	7/16" UNF	1/4"
	AUSU40A	1/2" UNF	5/16"

Female Pipe Nuts

Brass Part Number	Steel Part Number	Thread Size	Pipe Bore
AEHU1A	TN606031	3/8" UNF	3/16"
AEHU2A	SU2A	10mm x 1mm	3/16"
AEHU4A	SU4A	7/16" UNF	1/4"
	HU41A	1/2" UNF	5/16"

Bleed Screws

Part Number	Thread Size
556508A	3/8" UNF
608400A	10mm metric
27H7166	3/8" BSF

Pipe Clips

Part Number	Capacity
GHF1191	SINGLE, 3/16"
GHF1192	SINGLE, 1/4"
624155	DOUBLE, 3/16"

Grease Nipples

Part Number	Thread Size	Angle
UHN400	1/8" BSP	straight, short
UHN445	1/8" BSP	45° angle
LN30041	1/8" BSP	90° angle
144825	1/8" BSP	straight, long
056935	1/4" BSP	straight
125361	1/4" BSP	45° angle
056934	1/4" BSP	90° angle

Hose Clamps

Fuel Pipe Clips (Metric)

(Enots' type)

Part Number	to suit diameter	Part Number	to suit diameter
GGT1108X	8mm	GGT1113X	13mm
GGT1109X	9mm	GGT1114X	14mm
GGT1110X	10mm	GGT1115X	15mm
GGT1111X	11mm	GGT1116X	16mm
GGT1112X	12mm	GGT1117X	17mm

Hose Clips ('Jubilee' type)

Mild Steel (Imperial)

Part Number	to suit diameter	Part Number	to suit diameter
GHC304	3/8" - 1/2"	GHC1015	1 3/8" - 2"
GHC405	7/16" - 5/8"	GHC1217	1 1/2" - 2 1/4"
GHC406	1/2" - 3/4"	GHC1622	2" - 2 3/4"
GHC507	5/8" - 7/8"	GHC2228	2 3/4" - 3 1/2"
GHC608	3/4" - 1"	GHC2632	3 1/4" - 4"
GHC709	5/8" - 1 1/8"	GHC3036	3 3/4" - 4 1/2"
GHC811	1" - 1 3/8"	GHC3340	4 1/8" - 5"
GHC913	1 1/8" - 1 5/8"		

Stainless Steel (Metric)

Part Number	to suit diameter	Part Number	to suit diameter
GHC10408	8 - 12 mm	GHC10416	32 - 50 mm
GHC10410	12 - 18 mm	GHC10417	46 - 60 mm
GHC10411	8 - 16 mm	GHC10418	50 - 70 mm
GHC10412	12 - 20 mm	GHC10419	60 - 80 mm
GHC10413	16 - 25 mm	GHC10420	70 - 90 mm
GHC10414	20 - 32 mm	GHC10421	80 - 100 mm
GHC10415	25 - 40 mm		

Hose Clips ('Supergrip' type)

(with single slotted hexagon head)

Part Number	to suit diameters	Part Number	to suit diameters
CS4009	7/16" - 9/16"	CS4023	1 1/4" - 1 7/16"
CS4011	1/2" - 11/16"	CS4024	1 5/16" - 1 1/2"
CS4012	9/16" - 3/4"	CS4025	1 3/8" - 1 9/16"
CS4013	5/8" - 13/16"	CS4026	1 7/16" - 1 5/8"
CS4014	11/16" - 7/8"	CS4028	1 9/16" - 1 3/4"
CS4016	3/4" - 1"	CS4029	1 5/8" - 1 13/16"
CS4017	13/16" - 1 1/16"	CS4030	1 11/16" - 1 7/8"
CS4018	7/8" - 1 1/8"	CS4032	1 7/8" - 2"
CS4020	1" - 1 1/4"	CS4034	1 15/16" - 2 1/8"
CS4022	1 1/8" - 1 3/8"	CS4036	2 1/16" - 2 1/4"

Hose Clips ('Supergrip' type) continued

(with single slotted hexagon head)

Part Number	to suit diameters	Part Number	to suit diameters
CS4037	2 1/8" - 2 5/16"	CS4041	2 3/8" - 2 9/16"
CS4038	2 3/16" - 2 7/16"	CS4042	2 7/16" - 2 5/8"
CS4039	2 1/4" - 2 7/16"	CS4048	2 13/16" - 3"
CS4040	2 5/16" - 2 1/2"	CS4052	3 1/16" - 3 1/4"

Original "Supergrip" clips were supplied with a with single slotted round-head screw. The modern replacement comes with a hexagon headed screw. For the authentic look we have resourced the original type screw, (sold separately).

CS4099 (round-head screw)

'P' Clips

Imperial

Part Number	Cable Dia.	Hole size	Part Number	Cable Dia.	Hole size
PCR207	1/8"	7/32"	PCR807	1/2"	7/32"
PCR307	3/16"	7/32"	PCR809	1/2"	9/32"
PCR309	3/16"	9/32"	PCR811	1/2"	11/32"
PCR311	3/16"	11/32"	PCR813	1/2"	13/32"
PCR407	1/4"	7/32"	PCR1007	5/8"	7/32"
PCR409	1/4"	9/32"	PCR1009	5/8"	9/32"
PCR411	1/4"	11/32"	PCR1011	5/8"	11/32"
PCR507	5/16"	7/32"	PCR1207	3/4"	7/32"
PCR509	5/16"	9/32"	PCR1209	3/4"	9/32"
PCR511	5/16"	11/32"	PCR1211	3/4"	11/32"
PCR607	3/8"	7/32"	PCR1407	7/8"	7/32"
PCR609	3/8"	9/32"	PCR1409	7/8"	9/32"
PCR611	3/8"	11/32"	PCR1411	7/8"	11/32"
PCR707	7/16"	7/32"	PCR1607	1"	7/32"
PCR709	7/16"	9/32"			
PCR711	7/16"	11/32"			

Metric

Part Number	Cable Diameter	Hole size
CP105081	8mm	5mm
CP108101	10mm	8mm
CP108121	12mm	8mm
CP106161	16mm	6mm
CP108165	16mm	8mm

Steel Balls

Part Number	Diameter
BLS106	3/16"
BLS108	1/4"
BLS110	5/16"
BLS112	3/8"
BLS28	7/16"

Pop Rivets

Open End Type

Part Number	Diameter
RA607096	2.9 x 5mm
RA608126	1/8" x 3/16"
RA608176	1/8" x 1/4"
RA608236	1/8" x 5/16"
RA608253	1/8" x 3/8"

Closed End Type

Part Number	Diameter
RU608123	1/8" x 3/8"
RU608313	1/8" x 1/2"
RU612123	3/16" x 5/16"

Cable Ties

Part Number	Length
GHF1265	3 1/2"
GHF1266	5 1/4"
RTC222A	6"
GHF1267	8 3/4"
GHF1268	11"