# **4210, 4310, AND 4410 COMPACT UTILITY TRACTORS**



4210 (28 gross engine horsepower) with 420 Loader, 550 Tiller, and R3 Tires



4310 (32 gross engine horsepower) with 430 Loader, iMatch<sup>TM</sup>Quick Hitch, Ballast Box, R4 Tires, and Umbrella



4410 (35 gross horsepower) with Standard ROPS Front Blade and R4 Tires

# FEATURE/BENEFIT PROFILE



#### YANMAR DIESEL ENGINES

- All tractors feature 3-cylinder diesel engines that meet EPA emission standards through the year 2003.
- · Self-bleeding fuel system; engine will self-prime the injection pump, lines and injectors, for fast fuel recovery.
- · Underhood muffler and horizontal exhaust reduce sound levels and provide for excellent visibility.

#### **TRANSMISSION**

- · Three transmission options are available to match customer needs.
- 9F/3R SyncShift<sup>TM</sup> allows operator to shift gear lever without bringing tractor to a standstill.
- 12F/12R ePowrReverser<sup>TM</sup> reverser lever allows operator to change directions quickly and easily.
- eHydro<sup>TM</sup> infinite speed selection; no clutching or shifting required.

# **FOUR WHEEL DRIVE (Optional)**

- · Increases traction and pulling power.
- Shift on-the-go for greater productivity.

## **INDEPENDENT PTO**

- Operation of PTO, both mid and rear, is totally independent of the tractor transmission. This allows the PTO to be manually engaged and disengaged on-the-go.
- Allows operator to select mid and/or rear PTO usage from tractor seat.

#### **540 RPM REAR PTO**

Allows operating a wide variety of rear-mounted implements.

# MID PTO (Optional)

Provides shaft-driven power to mid-mower and front implement.

## **FINAL DRIVES**

· Spur gear final drives.

# DIFFERENTIAL LOCK

· Increases traction and pulling power.

# **WET DISK BRAKES**

· For positive stopping power and long life.

# HYDROSTATIC POWER STEERING

- Standard on all 4210, 4310, and 4410 Tractors—2WD and 4WD models.
- · Provides optimum performance in all operating conditions.

# **OPERATOR STATION**

- Clean, uncluttered design. Operator controls are located on either side of the operator.
- Flat operator platform provides for easy entry to/exit from the tractor.
- · Suspended clutch and brake pedals for clean, unobstructed design.
- · Electronic instrument panel accurately monitors nine key tractor functions and features backlighting for excellent night visibility.

# ROLL-GARD™ ROPS AND RETRACTABLE SEAT BELT

· Helps ensure operator safety in the event of an accident.

## CONTOURED, COMFORTABLE SEAT

· High-backed seat and scissor-type suspension enhance operator comfort.

#### IMPLEMENT ATTACHABILITY COMPATIBILITY

- · Implement attachment and removal is quick and easy.
- · Mower, loader, and backhoe compatibility.

# PRODUCT STORY

## **MARKETS**

The 4210, 4310, and 4410 Mid-Chassis Compact Utility Tractors are assembled in the USA at John Deere's Augusta, Georgia, factory (JDCP, John Deere Commercial Products).

These tractors offer the customer a high-quality, cost-efficient tractor in the "mid-size" chassis compact utility tractor market (20 to 29.5 PTO horsepower).

Model	Transmission	Gross HP*	PTO HP*
4210	SyncShift	28	23
4210	eHydro	28	22
4310	SyncShift	32	27
4310	ePowrReverser	32	27
4310	eHydro	32	25
4410	ePowrReverser	35	29
4410	eHydro	35	28

<sup>\*</sup> Horsepower is manufacturers estimate

The 4210 and 4310 are available in both 2WD and 4WD models. The 4410 is available in 4WD only.

These tractors can be matched with a variety of implements to meet the growing needs of today's customers.

Potential customers include:

- Commercial customers such as landscapers and contractors
- · Golf courses
- · Rental yards
- · Life-style farmers
- Estate owners
- · Municipalities
- Governmental units
- Parks
- Farmers

Typical applications would include:

- · Loader usage.
- PTO work—mowing (both grooming and rough cut), tilling, and blowing snow.
- 3-point hitch—box scraping and rear blade work.
- Backhoe usage—commercial contractors and rental yards.

#### **KEY NEW FEATURES**

The following list identifies key new features of the 4210, 4310, and 4410 Tractors. These and other features are covered in greater detail in the following pages of the Product Story.

# **Horsepower Power Increase**

The 4210 Tractor (4200 replacement) has an increase of two horsepower for 28 gross engine horsepower.

#### **New Transmissions**

Two new, innovative transmissions have been added to the 4000 TEN Series lineup.

The new  $eHydro^{TM}$  is an electronically controlled hydrostatic transmission available on 4210, 4310, and 4410 Tractors.

The new **ePowrReverser**<sup>TM</sup> is an electronically controlled reverser transmission (replacing the current SyncReverser<sup>TM</sup> transmission) and is available on the 4310 and 4410 models. The ePowrReverser is exclusive in the market by being the only power reverser available on a mid-chassis tractor.



Both the eHydro and ePowrReverser are controlled with an electronic controller, shown in the picture above.

# **New Controls**

New 4000 TEN Series tractors equipped with **eHydro** electronically controlled hydrostatic drive transmissions also feature a new operator control system called **eTouch**<sup>TM</sup> **controls**. This system provides for easy electronic engagement of PTO, MFWD, and hydrostatic drive pedal functions.

The **eMatch**<sup>TM</sup> **Operating System**, an enhanced electronic operating system, allows the tractor operator to "custom tailor" the tractor transmission responses to the job at hand. These new features include:

- SpeedMatch  $^{\text{TM}}$  the ability to preset a maximum speed.
- MotionMatch<sup>TM</sup> the ability to select rate of deceleration.
- LoadMatch<sup>TM</sup> the ability to prevents engine stalls.
- Automotive-style cruise control, allowing on-the-go acceleration or deceleration, with a resume feature, is available as an option to this system.

# **New Hydraulic Options**

Third selective control valves will now be available as factory installed equipment in the same manner as dual selective control valves. Control for this popular option has been conveniently relocated next to the operator seat.

All rear hydraulic couplers have been increased to half-inch size and relocated on the rear accessory bar. A new electronic diverter valve, controlled with a button located on the seat closeout, is also available to provide 3rd and 4th or 4th and 5th SCV functions.

# New iMatch<sup>TM</sup> Quick-Attach System

The new iMatch Quick-Attach System provides easy hookup and a guaranteed fit for all Category I implements that are designed to meet the ASAE Category I Standard S278.6 for quick-attach hitches.

#### **IMPLEMENT COMPATIBILITY**

Easy-on and easy-off implements for the fastest equipment installation and removal times in the industry.

Loader and mower, or loader and backhoe, can be mounted at the same time.

The implements listed below will fit all models:

- 60-in. and 72-in. Mid-Mowers
- 420 and 430 Loaders
- 47 Backhoe
- 59-in. Snow Blower
- 74 Front Blade

These tractors were designed so that a combination of either a mid-mower and loader, or loader and backhoe, can be installed on the tractor at the same time.

# **IMATCH™ QUICK-ATTACH SYSTEM**



The iMatch Quick-Attach System is available to provide easy hookup and a guaranteed fit for all Category I implements that are designed to meet the ASAE Category I Standard S278.6 for quick-attach hitches.

Note: One set of bushings sent with each hitch.

#### **OPEN OPERATOR STATION**

Open operator's platform provides plenty of room.

- Controls are designed and positioned for easy operation.
- Fingertip tilt steering wheel adjustment.
- Dual size cup holder.
- Recessed ignition key location, for reduced key breakage and interference with the operator's knee.
- Tilt wheel pivots around reverser lever.
- Hanging-type brake and clutch pedals for easy operation.
- Instrument panel allows quick and easy readout of tractor performance.
- Toolbox is built into the left-hand fender.

#### ATTRACTIVE STYLING



The bold styling of the 4000 TEN Series was created in many eye-catching ways:

- Family tractor identification.
- Bold new graphics.
- Black chassis, side panels, and front grille give the 4000 TEN Series an "Augusta" family tractor look.
- Sloped hoodline gives a softer, smoother look.
- Halogen headlights.

#### **MATCHED WHEELBASE**



The Model 4210 has a 65-in. wheelbase. Both the 4310 and 4410 Tractors feature 68-in. wheelbases.

• The 4210, 4310, and 4410 utilize a common chassis that allows for both compatibility of implements and parts commonality between SyncShift, ePowrReverser, and eHydro models.

# **POWERFUL DIESEL ENGINES**



Yanmar 3-cylinder, TNE Series diesel engines feature a high torque reserve that provides plenty of power under heavy load.

Model	Number of Cylinders	Engine Displacement	Rated RPM	Gross Engine HP*	PTO HP*
4210	3	1.2 L	2600	28	23
4310	3	1.5 L	2600	32	27
4410	3	1.6 L	2600	35	29

<sup>\*</sup> Horsepower is manufacturers estimate.

These engines also feature low levels of exhaust and emissions, reduced noise levels, and improved fuel economy. All engines meet the EPA emission standards through the year 2003

Key features of the engine are:

- Economical cast-in block cylinder design for good cooling and long life.
- Direct fuel injection.
  - —Injects fuel directly on top of pistons for more efficient combustion.
  - —Develops more horsepower per gallon of fuel.
  - —Improves starting.
- Aluminum alloy pistons with built-in steel struts are lightweight to reduce connection rod bearing loads and provide good heat transfer characteristics.
  - —Design permits tighter tolerances and neutralizes expansion of the piston, thereby reducing blow-by gas and less noise from the piston slap.
- —Higher top rings on the piston and a thinner head gasket greatly reduce the volume of unburned waste gases and increase combustion efficiency.
- Timing gears and injector drive gears utilize helical profile gears to help lower engine noise.
  - Gear teeth have a newly designed "roll-off" profile giving almost no clash, no noise, and no backlash.
- Fuel filter with replaceable element.
- Full-pressure intake manifold provides quick starts in temperatures down to 0° F. (Optional engine coolant heater attachment will assist starting under more extreme conditions.)
- Auto-bleed fuel system.
  - —There's no need to prime the system if the tractor runs out of fuel. The system will self-prime the injection pump, lines and injectors, providing fast fuel recovery.
- Key start and shutoff eliminates fuel shut-off knob.
  - —Electric solenoid shuts fuel supply off immediately when key is turned off.
- See-through coolant recovery tank permits operator to check coolant level without removing radiator cap.
- Enclosed engine compartment keeps out debris and lowers sound levels.
  - —Sealed radiator compartment keeps trash and debris on outside of hood.



- Dry-type air cleaner with safety element and air service indicator.
  - —Dual element design for added engine protection.
  - -Easy to service.
  - —Air restriction indicator alerts operator when servicing is required.
- Both side panels and front grille can be removed without tools for easy access to engine.
- Horizontal exhaust.
  - —Discharges fumes away from the operator, reducing engine noise.
  - —Improves operator visibility when using a loader or front implement.
  - —A vertical exhaust option is available.

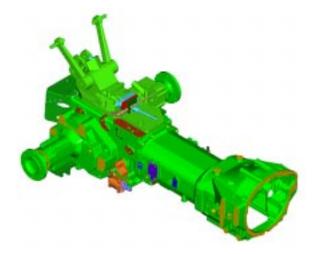
# TRANSMISSION COMPATIBILITY AND COMMON FEATURES

Three transmissions are available:

- 9F/3R SyncShift
- 12F/12R ePowrReverser
- eHydro

Transmission compatibility is as follows:

Transmission	9F/3R SyncShift	12F/12R ePowrReverser	eHydrostatic (eHydro)
4210 2WD	Yes	No	Yes
4210 4WD	Yes	No	Yes
4310 2WD	Yes	No	Yes
4310 4WD	Yes	Yes	Yes
4410 4WD	No	Yes	Yes



All three transmissions are designed to better meet the customer's needs.

- All transmission cases are made of cast iron construction to provide the strength and durability needed for operating such implements as loaders and backhoes.
- One reservoir (with one check point) for the transmission, differential, and hydraulic system fluid levels helps speed up daily maintenance.
- A site gauge, located to the left of the 540 rear PTO shaft, allows for a quick and easy check of the fluids.

# SyncShift™ TRANSMISSION

The 4210 and 4310 2WD and 4WD Tractors are available with a three-range, 9x3 synchronized shift transmission.

On the 9x3 synchronized shift transmission a single, multidisk, wet clutch pack is used to make both speed and direction changes.

The clutch pack consists of nine (9) 4-in. diameter clutch disks that are bathed in oil, allowing better heat dissipation and extended clutch life.



# Key features include:

- Nine forward and three reverse speeds.
- Two platform-mounted shift levers.
  - —Range lever (A) selects collar-shifted A, B, or C range.
  - —Gear lever (B) selects one of three forward and one reverse speeds via synchronized shifts.
- A single, multi-disk, wet clutch is used to make both range and speed changes.
- Constant-mesh, helical-cut gears for quieter operation and excellent reliability.
- Economical choice, allowing on-the-go main gear lever shifts.

# ePowrReverser™ TRANSMISSION

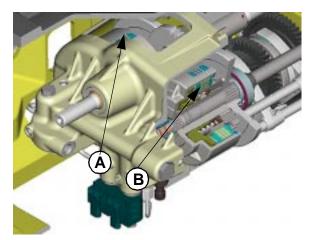


The 12x12R ePowrReverser transmission is available on the 4310 and 4410 4WD Tractors. This transmission offers the customer a hydraulically shifted forward to reverse transmission.

- Allows for "clutchless" shuttle shifting between forward and reverse with one lever for quick and easy direction change.
- ePowrReverser transmission does not require the operator to use the clutch to shift between forward and reverse.

The 12x12R ePowrReverser transmission features a hydraulically actuated wet clutch. Two multi-disk clutch packs (one forward and one reverse) are hydraulically engaged when the directional (reverser) lever is placed in either the forward or reverse position.

Each clutch pack consist of three large 5-in. diameter clutch disks that operate in oil and are oil cooled, allowing excellent heat dissipation and extended clutch life.



- Clutch "A" is used for the forward operation of the tractor.
- Clutch "B" is used for the reverse operation of the tractor.

Key features of the ePowrReverser are:

• 12 forward and 12 reverse speeds.



- Reverser lever, located on the left side on the instrument console, allows operator to make direction changes with little shifting effort and without clutching.
- Fast shuttle shift for improved loader operation.



- Synchronizers allow for sychronized shifts between gears for on-the-go shifting with the use of the clutch.
- Synchronizers permit on-the-go, low-effort shifting between gears.
- Helical-cut gears for quiet operation.
- Well-spaced speeds for turf, loader, and transport work.
- Neutral start switch prevents tractor from starting when transmission is not in neutral.
- Dual wet disk clutches provide long clutch life.
- Shifts between ranges are not synchronized.

# **eHydro™ TRANSMISSION**



All models of 4210, 4310, and 4410 Tractors are available with a 3-range electronic hydrostatic (eHydro) transmission.

- Fluid under pressure transmits engine power to the drive wheels through a pump and motor.
- Functions both as a clutch and transmission.
- Provides high torque for start-up.
- Reduces powertrain shock loads.

Sauer-Danfoss supplies both the pump and motor. This assures that the components are matched, providing maximum efficiency.

The electronic hydrostatic transmission is ideally suited for jobs where productivity is a must, such as loader or mower applications.

Twin Touch® foot controls allow selecting both direction of travel and speed with a touch of the toe.



Sauer-Danfoss eHydro transmission is used for reliable operation. Durability features include:

- Large forged trunnion shaft with larger support bearings that reduce vibration and noise.
- Large input shaft with 50+ horsepower capacity.
- Center section made from ductile iron (much stronger than grey iron used in many competitive transmissions).
- Pressure side filtration allows using a finer mesh filter (10 micron) than suction filtration systems used on many competitive tractors.
- Transmission oil cooler cools transmission oil for longer transmission life.

# Key features of the eHydro transmission are:

- Infinite ground speeds, even at full throttle, allow the operator to match the speed of the tractor to the job.
- No clutching for fast and easy direction changes.
- Twin Touch foot pedals for quick and easy forward/ reverse operation.
- Shifts between ranges are not synchronized.



**Key John Deere Advantage**—John Deere's Twin Touch foot controls offer several key advantages over competitive HST model tractors. These are:

- Certain competitive hydrostatic tractors use a treadle pedal (toe-heel) design foot control for operation of the HST
- —Requires the operator to use both toe and heel to change direction.
- Certain competitive hydrostatic tractors locate their turning brakes on the same side as their treadle pedal and forward and reverse pedals.
  - —This configuration makes it virtually impossible to operate both the turning brakes and HST pedal at the same time on competitive models.



Cruise control is standard equipment on all tractors with eHydro transmission. Cruise control is electronically engaged and disengaged by the use of a toggle switch located on the right-hand console for easy access.

- Maintains desired forward speed without pressure on the foot pedal.
- Cruise control is set by engaging the switch when the desired speed is reached.
- A new speed sensor allows tractor to maintain set speed when driving up and down hills.
- To disengage the cruise control, the following methods can be used:
  - —Apply pressure to the turn brakes opposite the eHydro pedals, or
  - —Disengage cruise control switch, or
  - —Briefly depress the reverse control pedal.

Safety features of the eHydro transmission include:

- The tractor will start with one or both foot pedals depressed, but it will not move until both pedals first come to neutral.
- The tractor will come to a stop if the operator leaves the seat but will not shut off unless the PTO is also running.

# **eMATCH™ OPERATING SYSTEM (Electronic Operating System)**



The eMatch operating system, an enhanced electronic operating system, allows the tractor operator to "custom tailor" the tractor transmission responses to the job at hand.

This system features:

# MotionMatch<sup>TM</sup>



MotionMatch is a standard feature of the ePowrReverser and eHydro transmissions that gives the ability to select rate of deceleration.

- Provides two settings to vary the tractor's response to transmission input change.
- Can be set to provide smoother, softer response for mowing or a sharper, more abrupt response for loader work.

# LoadMatch<sup>TM</sup>



LoadMatch is a standard feature of the eHydro transmission.

The LoadMatch switch is located on the left side of the steering column. Activating this switch will automatically match the output of the transmission to the load on the tractor. If torque requirements increase significantly, the electronic hydrostatic transmission will reduce the tractor's drive speed to compensate for the increased load on the transmission.

# **Automotive-Style Cruise Control (Optional)**



Automotive-style cruise control has resume speed, accel speed, and decel speed functions. These functions aid in the movement of the tractor without interrupting operator's preset features.

# SpeedMatch<sup>TM</sup> (Optional)



SpeedMatch further enhances the eHydro drive cruise control functions by allowing the operator to preset maximum eHydro speed. Once this feature is engaged, the operator must stroke the hydro pedal fully to meet the operator preset speed. This function will improve accuracy and safety, particularly at lower travel speed applications. Rotary tilling or spraying applications are examples of where SpeedMatch can be applied. SpeedMatch will work in both the forward and reverse set speeds. Tractor must be installed with the automotive-style cruise control option to upgrade to the SpeedMatch function.

Note: Cruise Control, Automotive-Style Cruise Control, and SpeedMatch can be used in conjunction with LoadMatch to maximize productivity.

# **FINAL DRIVES**



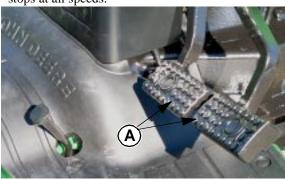
All 4210, 4310, and 4410 Tractors have spur gear final drives.

- Large spur gears are used to ensure both durability and reliability.
- Customers can expect long life with less maintenance.

# **WET DISK BRAKES**

All model 4210, 4310, and 4410 Tractors incorporate wet disk brakes.

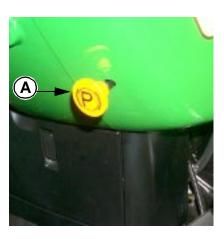
- Provide positive stopping power and long life.
- Oil cooled for maximum life.
- Require little adjustment.
- Brake pedals can be locked together for safe and sure stops at all speeds.



All tractor models feature hanging-type individual brake pedals (A) to allow independent operation of right and left brakes (gear tractor shown).

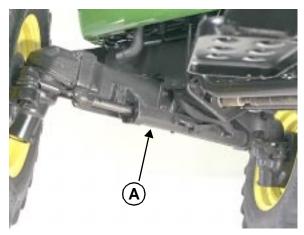
- Helps make shorter turns.
  - —Especially useful when making tight turns or when maneuvering the tractor with a loader and snow blower.

#### PARK BRAKE



A two-step-type park brake (A) is standard equipment for positive parking position. The operator simply pulls out on the knob and depresses the foot brakes to engage. To disengage, simply push knob in and press foot brake pedal to initiate release.

#### HYDROSTATIC POWER STEERING



(A) Hydraulic Steering Cylinder

Standard equipment on all 4210, 4310, and 4410 Tractors with either 2WD or 4WD. Makes steering easier and quicker when maneuvering tractor.

- Especially valuable when mowing around obstacles and using a front loader.
- Fewer turns of steering wheel than manual steering; lock-to-lock for quicker response.
- Soft-feel steering wheel for operator comfort.

Steering cylinder (A) and tie rod mounted under and behind front axle.

- Provides protection.
- Neater, cleaner appearance.

Powered by separate steering pump.

- Power steering does not rob capacity from the main hydraulic pump.
- Assures smooth, steady steering power even at low engine speeds.

Hydraulic filter helps protect steering and hydraulic system from contamination for longer life.

#### **DIFFERENTIAL LOCK**



Foot-actuated differential lock is also included as standard equipment on all tractors to assist traction in tough spots.

- Allows power to be applied equally to both rear wheels for increased traction when needed.
- Foot-operated engagement pedal is conveniently located on the right side of the platform on all gear model tractors.
  - —Makes it easier to release the clutch pedal, which is on the left side of the platform, and engage the differential lock at the same time.
- Foot-operated engagement pedal is conveniently located on the left side of the platform on all eHydro model tractors.
  - —Makes it easier to use either (forward/reverse) eHydro pedal on the right-hand side of the platform and engage the differential lock at the same time.

# TWO WHEEL DRIVE FRONT AXLE



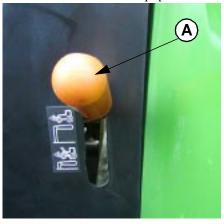
Two wheel drive front axle is available only on models 4210 and 4310.

- Front axle is non-adjustable.
- Steering cylinder is bolted directly to the rear of the front axle for additional protection.

# FOUR WHEEL DRIVE FRONT AXLE



The 4WD front axle is available as optional equipment on the 4210 and 4310 and is standard equipment on the 4410.



4WD engagement on the SyncShift transmission is engaged by pulling lever (A).



4WD can be engaged and disengaged on-the-go by engaging the 4WD switch on the eHydro and ePowrReverser right-hand console. This is engaged by depressing the switch forward. An indicator light will illuminate when engaged.

Key features of 4WD are:

- Easy push-button engagement
- Bevel gear design for added strength and reliability.
- 62-degree turn angle, resulting in a turning radius as short as 7.5-ft. (with brakes applied).
- Increases pulling power and improves traction when operating in slippery conditions.
- Reduces slippage, which is especially useful when operating a loader.
- Reducing slippage will increase fuel efficiency up to 20 percent.
- Front wheels pulling tend to help keep tractor on top of the ground, aiding in flotation.
- Increases tractor resale value.

Note: Tractor should not be under load when engaging or disengaging 4WD.

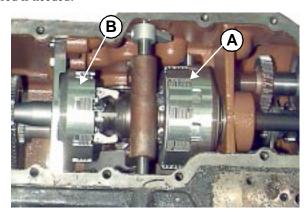


One check/fill point makes servicing easier.

# **INDEPENDENT REAR PTO (STANDARD)**



A rear 540 rpm PTO is standard equipment on all models. 540 rpm PTO speed is achieved while operating engine at rated speed so the full advertised horsepower can be delivered if needed.



A multi-disk, wet clutch (A) engages and disengages the PTO independently of the traction clutch.

- PTO is electronically engaged by the simple pull of PTO knob by the operator.
- A multi-disk, wet brake (B) brakes both the mid and rear PTO's. Keeps implements from coasting to a stop.
   Conveniently, placed, color goded, rear PTO, yellow
- Conveniently placed, color-coded, rear PTO yellow switch is located to the right of the operator.
- PTO light on dash is illuminated whenever the PTO is engaged and running.
- PTO neutral start switch prevents starting the tractor with the PTO engaged.
- Large rear PTO shield with flip-up design permits easy access to PTO shaft.
- PTO shaft can be rotated to allow for easy hookup of implements.
- Brake is activated whenever clutch or PTO yellow switch is disengaged.

# **INDEPENDENT MID PTO (OPTION)**



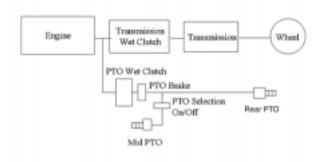
A dependent 2100 rpm mid PTO is optional equipment and available on all models. The mid PTO provides independent control and power to front- and mid-mounted implements (i.e., mid-mowers, snow blower, and front broom). By design, the rear PTO will operate every time the mid PTO is used. The mid PTO is engaged by pulling up the yellow mid PTO switch (located at the top right of the eMatch operating system console), followed by pulling up on the yellow rear PTO switch (located to the far right on the eMatch operating system console).

#### Features include:

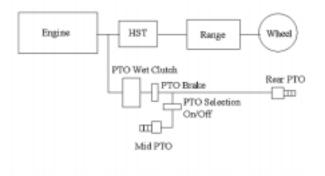
- PTO is electrohydraulically engaged independently of the transmission traction clutch to provide smooth, modulated engagement.
- Color-coded mid PTO yellow switch is located at the top right of the eMatch operating console.
- PTO light on dash is illuminated whenever the PTO (mid or rear) is engaged and running.
- PTO neutral start switch prevents starting the tractor with the PTO engaged.
- A multi-disk wet brake (see rear PTO story) keeps implements from coasting to a stop. This brake is used to brake both mid and rear PTO's.
- PTO brake is activated whenever PTO clutch is disengaged.

Note: When the mid PTO is running, the rear PTO will run as well.

Shown below are diagrams of the power flow of the PTO, for SyncShift, ePowrReverser, and eHydro transmissions, for the 4210, 4310, and 4410 Tractors.



Gear Transmission - Live Independent PTO



HST Transmission - Live Independent PTO

# **OPEN CENTER HYDRAULIC SYSTEM**

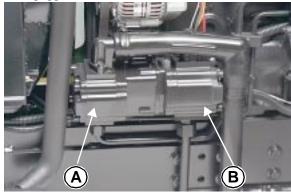
All tractors have an open center hydraulic system.

A set of hydraulic gear pumps, driven off the engine crankshaft, provides high-capacity output for various hydraulic applications.

Tractor	System Pressure	Hydraulic Pump Capacity (gpm)	Power Steering Pump Capacity (gpm)	Total Hydraulic Capacity (gpm)
4210	2125 psi	7.0	5.3	12.3
4310	2500 psi	8.6	5.3	13.9
4410	2500 psi	8.6	5.3	13.9

The hydraulic system offers several key features to benefit your customers. These features include:

- Dual gear pumps.
  - —By using individual gear pumps, the hydraulic system provides "constant" flow of oil to both power steering and 3-point hitch operation (or loader if equipped).



- The steering pump (A) assures good hydraulic capacity for steering, even at low engine speeds.
- The implement pump (B) provides excellent hydraulic power to either the 3-point hitch and/or the loader boom and bucket cylinders, if the tractor is equipped with a loader.
- Hydraulic oil filter.
  - —Clean hydraulic oil is extremely important. All tractors come standard with a heavy-duty, spin-on hydraulic oil filter conveniently located for quick service.

# **SELECTIVE CONTROL VALVE (OPTION)**

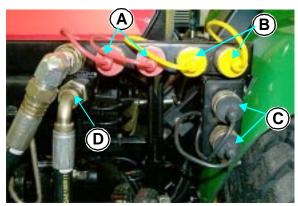


4210, 4310 and 4410 Tractors can be equipped with the following selective control valves to meet customers' needs.

Dual selective control valve.

• This kit contains a three-spool valve (hydraulic lines and couplers for 2 of the 3 spools). The most common use for this kit would be for a customer purchasing both a loader and mower. Two spools would be used for the loader; the third spool is for raising and lowering the mower deck.

Note: The third selective control valve kit will be required to complete the installation. The dual selective control valve kit comes complete with hydraulic lines and couplers for only 2 spools of the 3-spool valve.



- A) Fifth SCV.
- B) Fourth SCV.
- C) Third SCV.
- D) Power beyond.

Third selective control valve kit.

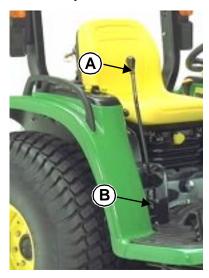
Third selective control valve kit does not contain a control valve. The kit contains only the hydraulic lines, rear-mounted couplers, and control levers to tie into the third spool of the dual selective control valve. The control location has been moved to the right side of the seat close-out panel just ahead of the three-point hitch lever.

# Diverter valve kit.

• The diverter valve kit allows the hydraulic oil to be diverted from either the front or rear couplers as desired. This kit provides for 3rd and 4th SCV functions or 4th and 5th SCV functions. No power beyond kit is required to achieve these functions.

Power beyond kit.

• The power beyond kit contains rear-mounted couplers and hoses to access pressurized oil at the rear of the tractor. Kit will be used for operations such as backhoe or log splitters. Couplers are 1/2-in. diameter for maximum oil flow to implements.



- Single control lever (A) makes operation of loader or other implements fast and simple.
- Selective control valve safety lock lever (B) allows the operator to control the type of SCV lever movement needed for a particular operation or situation. The SCV safety lock lever allows loader hydraulics to be locked out so boom will not drop if SCV lever is accidentally bumped.
- The lock lever in the top position, indicated by the unlocked lock, allows operation of the SCV lever in all directions. Operation of the SCV is totally unlocked.
- Moving the lock lever to the middle position prohibits the engagement of the REGEN (regeneration) function of the SCV. This position is recommended for all attachments except for the front loader with light loads. Loader operation may benefit from the use of the REGEN function. The REGEN position is available only with the lock lever in the top position.
- Regenerative hydraulics for faster bucket dump.
  - —The REGEN function allows heavily loaded loader buckets to dump at a faster rate. Lightly loaded buckets do not benefit from this function and should be operated in the middle position.
- Moving the lock lever to the bottom position will prohibit SCV lever movement in all directions. Operation of the SCV is totally locked.



- Two sets of right-hand-side-mounted couplers allow operating four hydraulic functions (such as raising/lowering boom and curling/dumping bucket).
- Large 3/8-in. diameter couplers are used for maximum oil flow to implements.
- Hydraulic valves have excellent featherability for smooth operation of equipment.
- Couplers are color-coded for correct hookup.

#### **3-POINT HITCH**

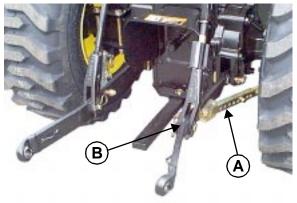
3-point hitch has plenty of lift capacity to handle heavy implements.

Tractor	3-pt. hitch lift capacity 24-in. behind center	3-pt. hitch lift capacity at lift link ends
4210	1700 lb.	2030 lb.
4310	2200 lb.	2530 lb.
4410	2200 lb.	2530 lb.

Category 1 hitch allows quick hookup of a variety of 3-point hitch implements.

• Right-hand lift link and centerlink are adjustable to save time leveling equipment.

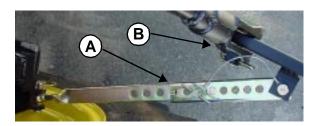
# VERTICAL SWAY BAR STABILIZERS



- Vertical sway bar stabilizers (A) regulate side-to-side sway of mounted equipment.
  - —With the vertical stabilizer bars, the lock pin goes into the stabilizer bar horizontally.
  - —Mounted on outside of lower links for fast, easy equipment hookup.
  - —Pin design allows easy adjustment without use of tools.

- "S" hook is provided to secure centerlink when hitch is not used.
- Lateral float feature (B) allows hitch arms to raise and lower slightly, independently of each other.
- —Makes hooking up rear-mounted equipment easier, especially when stored on uneven ground.
- —Allows rear-mounted equipment to follow ground contours (side-to-side).

# HORIZONTAL SWAY BAR STABILIZERS



New horizontal sway bar stabilizers apply to the following Serial Numbers and above:

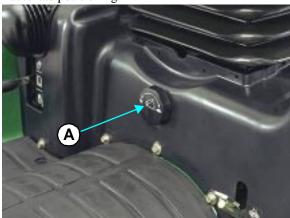
LV4210C128139	LV4310C138137	LV4410P145400
LV4210H120631	LV4310P135619	LV4410H141319
	LV4310H131980	

- Horizontal sway bar stabilizers are a running change from the original vertical stabilizer bars
- Horizontal sway bar stabilizers (A) regulate side-toside sway of mounted equipment.
  - —With the horizontal stabilizer bars, the lock pin goes into the stabilizer bar vertically
  - —Mounted on outside of lower links for fast, easy equipment hookup.
  - —Top pull pin design allows easy adjustment without use of tools.
- "S" hook is provided to secure centerlink when hitch is not used.
- Lateral float feature (B) allows hitch arms to raise and lower slightly, independently of each other.
- —Makes hooking up rear-mounted equipment easier, especially when stored on uneven ground.
- —Allows rear-mounted equipment to follow ground contours (side-to-side).



Rockshaft position control lever (A) allows operator to accurately set implement depth or height. Mid PTO yellow switch (B) and rear PTO yellow switch (C) allow for engagement of the PTO.

- Operates precisely with no jerking or leak down.
- Control lever features easy-to-read increments for accurate positioning.



Rate-of-drop/stop valve (A) regulates lowering the speed of the 3-point hitch. It can be shut completely off to stop hitch movement.

## **DRAWBAR**

Standard equipment to allow hooking up drawn implements.

- 4210, 4310 and 4410 Tractors have a non-swinging type drawbar.
- The drawbar can be repositioned fore and aft.

#### **OPERATOR'S STATION**



Engineers designed the 4210, 4310 and 4410 operator's station for easy entry to/exit from the tractor.

Suspended clutch and brake pedals, as well as repositioned controls, provide for a clean and flat platform design, giving the operator plenty of leg room.



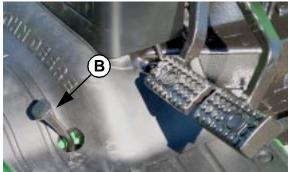
Key features of the operator's station include:

- Suspended clutch and brake pedals make operation of the tractor easier for the customer when the tractor is used in applications such as loader work that require frequent use of the clutch and brake pedals.
- Large grab handles on each fender and left-side foot step make getting on and off the tractor easy.
- Tilt steering wheel is standard equipment.
  - —The tilt wheel allows the operator to adjust the steering wheel to the most comfortable position.
  - —Steering wheel pivots around reverser lever. This ensures the relationship between the reverser lever and steering wheel is the best possible.
  - —Provides additional clearance for the operator to enter and exit the tractor.
  - —Provides plenty of room for comfortable operation.
- Controls are shape- and color-coded for easier operation.



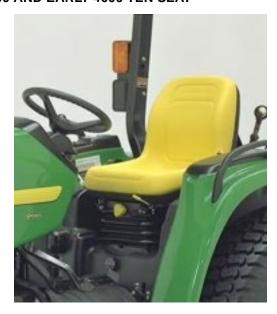
- A left-hand step is standard equipment to enhance access to the operator's station.
- Foot platform is rubber mounted and incorporates a rubber mat for operator comfort.



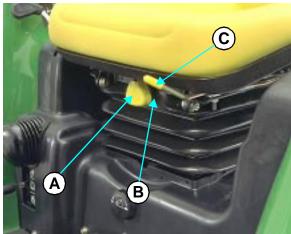


- Gear models have both hand (A) and foot (B) throttle controls.
  - —Especially handy when using a loader.

# 4000 AND EARLY 4000 TEN SEAT



The standard seat gives the operator good back support for a comfortable ride.



Scissor-type suspension seat gives the operator a comfortable ride. Seat flips forward for protection from the elements.

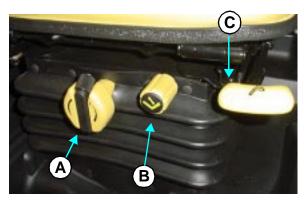
Seat suspension and seat height are adjustable for operator's comfort.

- Operator weight adjustment (A) adjusts to the operator's weight (115 to 300 lb.).
- Seat height adjustment (B) is made independently of weight adjustment.
- Adjustable fore and aft position of the seat using lever (C).

#### **4000 TEN SEAT**



Thicker and softer padding on this new seat provides a smooth and comfortable ride. A high scalloped back makes it easier for the operator to turn to view rear implements. This new seat is styled with the new John Deere logo imprinted onto the back.



Scissor-type suspension seat gives the operator a comfortable ride. Seat flips forward for protection from the elements.

New seat applies to the following Serial Numbers and above:

LV4210C128239	LV4310C138137	LV4410P145400
LV4210H120937	LV4310P135619	LV4410H141401
	LV4310H132069	

Seat suspension and seat height are adjustable for operator's comfort.

- Operator weight adjustment (A) adjusts to the operator's weight (115 to 300 lb.).
- Seat height adjustment (B) is made independently of weight adjustment.
- Adjustable fore and aft position of the seat using lever (C).



Retractable seat belts are standard equipment for operator safety.

• Retractable seat belts prevent belts from becoming tangled in seat suspension and controls.

Operator presence system.

- If the operator leaves the seat of either a gear or eHydro tractor with the transmission running and mid PTO or rear PTO engaged, the engine will shut down.
- For stationary PTO work, the tractor must be in neutral and the parking brake fully set.

# 2-POST FOLDABLE ROLL-GARD™ ROPS (Standard)



4210, 4310 and 4410 Tractors are equipped with folding Roll-Gard as standard equipment. These folding ROPS meet the ASAE, SAE and OSHA standards.

- When folding ROPS are down, overall height is 72-in. (6-ft.) with 12.4-24 tires.
- To fold, remove two pins and rotate top of Roll-Gard down.
- Adjustment can be made from the operator's seat.
- Roll-Gard must be in upright and locked position when low clearance is not required. The use of seat belts is recommended when operating the tractor with ROPS in the upright position.
- Folding ROPS is required on all tractors when used with a backhoe.

#### **FIXED ROPS**



All tractors manufactured after August 2002 will be equipped with foldable ROPS as standard equipment. Fixed ROPS is available for tractors manufactured prior to August 2002 and from Parts.

Two-post Roll-Gard ROPS rollover protective structure protects the operator in the event of a tractor tip-over. The fixed ROPS meet the new ASAE, SAE, and OSHA standards.

• A tall, folding ROPS is required on all models when operating backhoes.

#### CONTROLS AND INSTRUMENTATION



(Steering wheel removed to show dash)

An accurate and easy-to-read electronic instrument panel, featuring backlighting for excellent night visibility, monitors these key tractor operating features:

- · Tach/hourmeter
- —Engine speed
- —Digital LCD hourmeter
- · Fuel gauge
- Coolant temperature gauge
- Oil pressure indicator light
- · Alternator indicator light
- Battery charge light
- PTO engagement light
- Turn signals
- Flasher indicator light
- Cruise control light (eHydro)

On tractors equipped with the optional ePowrReverser transmission, the forward/reverse direction lever is also located on the left-hand side of the instrument console.

Allows the operator to steer and shift between forward and reverse with the left hand, while the right hand remains free to operate the other tractor controls.

Control levers and switches are both color- and shape-coded for easier recognition and are positioned for convenient operation.

- To the operator's right:
- —Foot throttle (gear tractors only)
- —3-point hitch lever
- —Rear PTO engagement switch
- —Mid PTO engagement switch (optional)
- —Cruise control switch
- —SCV joystick control (optional)
- —Differential lock pedal (gear models
- —eMatch operating system console
- —MFWD engagement switch (eHydro, ePowrReverser)
- —Diagnostic indicator light (eHydro, ePowrReverser)
- To the operator's left:
- -Range shift lever
- —Gear shift lever
- —Differential lock pedal

A toolbox is molded into the left-hand fender for easy access to either tools or the operator's manual.

#### LIGHTING



Standard equipment lighting includes:

- Two 55 watt halogen sealed-beam headlights.
- Two amber flashing warning lights.
- New warning lamp placement to meet ASAE S279.10 standards. Dual lamps with increased separation for better visibility and distinction at a distance.



A rear work light kit is available for additional lighting and safety.

#### **SAFETY**

Safety is designed into all 4000 TEN Series tractors.

- Operator presence system ensures that the operator must be in the seat to operate the tractor.
- ROPS is designed for operation safety.
- Reflective ROPS strips for better tractor visibility.
- Key switch interlock prevents bypass starting.
- Visual PTO warning light alerts operator when either mid or rear PTO is running.
- Placing the transmission in neutral and setting the park brake allows operator to run rear PTO safely when off the tractor seat.
- Park brake for positive parking.
- Turn signal and flashing warning lights operate according to ASAE S279.10 standard.
- Taillights for road transport.
- SMV sign for road transport.

# **EQUIPMENT FOR BASE MACHINE**

	<u>4210</u>	<u>4310</u>	<u>4410</u>
Engine:			
3-cylinder diesel engine	X	X	X
Direct injection	X	X	X
Air heater starting aid	X	X	X
Neutral start switch	X	X	X
Auto-bleeding fuel system	X	X	X
Key engine start and shutoff	X	X	X
Shipped with anti-freeze	X	X	X
Coolant recovery system	X	X	X
Dry-type air cleaner with safety element	X	X	X
Air restrictor indicator (underhood)	X	X	X
Fuel/water separator	X	X	X
Fully enclosed engine and muffler	X	X	X
	X	X	X
Horizontal exhaust	X	X	X
Side panels with screens			
Sealed radiator compartment	X	X	X
Removable radiator screen	X	X	X
Transmission:			
SyncShift <sup>TM</sup>	**	**	37/1
3-range synchronized shift	X	X	N/A
9 speeds forward / 3 reverse	X	X	N/A
Single multi-disk wet clutch	X	X	N/A
ePowrReverser <sup>TM</sup>			
Hydraulic reverser	N/A	Opt.	Opt.
12 speeds forward / 12 reverse	N/A	Opt.	Opt.
Two multi-disk wet clutches	N/A	Opt.	Opt.
$ m eHydro^{TM}$		•	-
3-range hydrostatic	Opt.	Opt.	Opt.
Twin Touch foot controls	X	X	X
Cruise control	X	X	X
Transmission oil cooler	X	X	X
Final Drives	11	11	11
Spur gears final drives	X	X	X
Differential lock	X	X	X
Steering and Brakes:	Λ	Λ	Λ
_	X	X	X
Power steering	X	X	X
Individual wet disk brakes			
Parking brake	X	X	X
PTO:	*7	***	**
Independent PTO	X	X	X
Rear 540 PTO	X	X	X
Flip-up PTO shield	X	X	X
Wet disk clutch	X	X	X
Rear PTO brake	X	X	X
Mid PTO brake	Opt.	Opt.	Opt.
Hydraulics:			
Open-center hydraulic system	X	X	X
Dual hydraulic pumps (steering & implement pump)	X	X	X
Single lever regenerative SCV	Opt.	Opt.	Opt.
Lock-out for SCV (standard with SCV)	Opt.	Opt.	Opt.
Rockshaft, Hitch and Drawbar:	1 "	1	- r
Internal control valve with position control	X	X	X
Rear rockshaft	X	X	X
Category 1 three-point hitch	X	X	X
Lateral float on flat-bar draft links	X	X	X
	X	X	X
Sway bars	X X	X	X
Adjustable drawbar			
Rate of drop / stop valve	X	X	X

	<u>4210</u>	<u>4310</u>	<u>4410</u>
Operator Protective Structure:			
Roll-Gard ROPS with retractable seat belt	X	X	X
Rear fenders with handrails	X	X	X
Toolbox built into left-hand fender	X	X	X
Cup holder molded into right-hand fender	X	X	X
Operator presence system	X	X	X
Scissor suspension seat with height / weight adjustment	X	X	X
Isolated foot rest	X	X	X
Rubber floormat	X	X	X
Tractor step for left-hand entry	X	X	X
Tilt wheel	X	X	X
Hand throttle	X	X	X
Foot throttle (Gear transmission only)	X	X	X
<b>Electronic Instrument Panel:</b>			
Electric fuel gauge	X	X	X
Engine rpm indicator	X	X	X
Engine oil pressure	X	X	X
Electrical hourmeter	X	X	X
Coolant temperature light	X	X	X
PTO engagement light	X	X	X
Park brake light	X	X	X
Air heater (starting aid) indicator light	X	X	X
Flashing warning lights	X	X	X
Cruise control (eHydro)	X	X	X
Turn signal	X	X	X
Electrical:			
Wet battery (500 CCA)	X	X	X
12 volt electrical system	X	X	X
40 amp alternator	X	X	X
Lights:			
Two front halogen lights	X	X	X
Two flashing warning lights	X	X	X
Taillight	X	X	X
Miscellaneous:			
Integral front weight bracket (holds 6 weights)	X	X	X
SMV emblem	X	X	X
Axle:			
2WD, fixed front axle	X	X	X
4WD	Opt.	Opt.	Std.
	~ r ··	- r	

	4210	<u>4310</u>	<u>4410</u>
Tires for 2WD:			
Front Tires (fixed position wheels):			
7-12, 4 PR Front (R1 Bar - 2-position)	Std		
5.90-15, 4 PR Front (F2 Rib - 2-position)	Std.		
27x8.50-15, 4 PR Front (R3 Turf - 2-position)		Avail.	
Rear Tires:			
12.4-16, 6 PR Rear (R1 Bar - 2-position)	Std.		
13.6-16, 4 PR Rear (R3 Turf - 2-position)	Avail.		
11.2-24, 4 PR Rear (R1 Bar - 8-position)	Avail.	Std.	
41x14.00-20, 4 PR Rear (R3 Turf - 2-position)		Avail.	
12.4-24, 6 PR Rear (R1 Bar - 8-position)		Avail.	
Tires for 4WD:			
Front Tires (fixed position wheels):			
7-14, 6 PR Front (R1 Bar - 2-position)	Avail.	Avail.	Avail.
7-12, 4 PR Front (R1 Bar - 2-position)	Std.		Std.
24x8.50-14, 4 PR Front (R3 Turf - 2-position)	Avail.		
25x8.50-14, 4 PR Front (R3 Turf - 2-position)		Avail.	Avail.
23x8.50-12, 4 PR Front (R4 Ind 1-position)	Avail.		
27x8.50-15, 4 PR Front (R4 Ind 1-position)		Avail.	Avail.
27x8.50-15, 4 PR Front (R3 Turf - 2-position)		Avail.	Avail.
25-10.5-15, 6 PR Front (Turf Special - 2-position)	Avail.	Avail.	Avail.
Rear Tires:			
12.4-16, 6 PR Rear (R1 Bar - 2-position)	Std.		
13.6-16, 4 PR Rear (R3 Turf - 2-position)	Avail.		
11.2-24, 4 PR Rear (R1 Bar - 8-position)	Avail.	Avail.	Std.
41x14.00-20, 4 PR Rear (R3 Turf - 2-position)		Std.	Avail.
12.4-24, 6 PR Rear (R1 Bar - 8-position)		Avail.	Avail.
14-17.5, 6 PR Rear (R4 Ind 2-position)	Avail.		
43x16.00-20, 6 PR Rear (R4 Ind 1-position)		Avail.	Avail.
15-19.5, 6 PR Rear (R4 Industrial - 1-position)		Avail.	Avail.
41x18LL-16.1, 6 PR Rear (Turf Special - 2-position)	Avail.	Avail.	Avail.

# BASE MACHINE AND OPTIONAL EQUIPMENT CODES 4210 COMPACT UTILITY TRACTOR

BASE MACHINE 129DLV 42 FRONT AXLE	10 Tractor
	10 Tractor
FRONT AXLE	TO TIACIOI
i	Wheel Drive
ROPS	
1	olding ROPS (required for use with backhoe)
ΓRANSMISSION	
1	Iydro™ Transmission
MID-PTO	•
•	ess Mid-PTO
	id-PTO (Code 2505 is not for 4210 2WD tractors equipped with SyncShift Transmission)
WHEELS AND TIRES (TWO	
Notes:	
compatibility.	unce and Mower Deck Clearance" chart in Specifications section for tire and mower deck
3) R3 tires are not compatible	le with the 74-in. Blade.
	90-15, 4 PR Front (F2 Rib - 2-position) 2.4-16, 6 PR Rear (R1 Bar - 2-position)
	x8.50-14, 4 PR Front (R3 Turf - 2-position) .6-16, 4 PR Rear (R3 Turf - 2-position)
	90-15, 6 PR Front (F2 Rib - 2-position) .2-24, 4 PR Rear (R1 Bar - 8-position)
WHEELS AND TIRES (TWO	) FOR 4WD TRACTORS
Notes:  1) All tires offered are bias p 2) R3 tires are not compatibl	
	12, 4 PR Front (R1 Bar - 2-position)
	.4-16, 6 PR Rear (R1 Bar - 2-position)
	x8.50-14, 4 PR Front (R3 Turf - 2-position)
	6.6-16, 6 PR Rear (R3 Turf - 2-position)
	xx8.50-14, 4 PR Front (R4 Ind 1-position)
	-17.5, 6 PR Rear (R4 Ind 1-position)
	14, 6 PR Front (R1 Bar - 2-position)
	.2-24, 4 PR Rear (R1 Bar - 8-position)
	-10.5LL-15, 6 PR Front (Turf Special - 2-position)
	x18LL-16.1, 6 PR Rear (Turf Special - 2-position)
SELECTIVE CONTROL VAI	
	ess Dual SCV
	ual SCV
	ual Mid and Single Rear SCVs
DRAFT LINKS	
	ockshaft with Draft Links
<b>7510</b> Le	ess 3-Point Hitch Components

# **4310 COMPACT UTILITY TRACTOR**

Code	Description
BASE MACHINE	F · ·
130DLV	4310 Tractor
FRONT AXLE	
1005	4 Wheel Drive
ROPS	
1505	Folding ROPS (required for use with backhoe)
TRANSMISSION	
2015	ePowrReverser <sup>TM</sup> Transmission
2025	eHydro™ Transmission
MID-PTO	
2500	Less Mid-PTO
2505	Mid-PTO (Code 2505 is not for 4300 2WD tractors equipped with SyncShift Transmission)
WHEELS WITH TIRES (	TWO) FOR 4310 2WD TRACTORS
compatibility.	earance and Mower Deck Clearance" chart in Specifications section for tire and mower deck
4010	27x8.50-15, 4 PR Front (R3 Turf - 2-position) 41x14.00-20, 4 PR Rear (R3 Turf - 2-position)
4015	5.90-15, 6 PR Front (F2 Rib - 2-position) 11.2-24, 4 PR Rear (R1 Bar - 8-position)
4020	5.90-15, 6 PR Front (F2 Rib - 2-position) 12.4-24, 6 PR Rear (R1 Bar - 8-position)
WHEELS WITH TIRES (	TWO) FOR 4310 4WD TRACTORS
Note: All tires offered are bi	ias ply construction.
4515	25x8.50-14, 6 PR Front (R4 Industrial - 1-position) 15-19.5, 6 PR Rear (R4 Industrial -1-position)
4520	27x8.50-15, 4 PR Front (R3 Turf - 2-position) 41x14.00-20 4 PR Rear (R3 Turf - 2-position)
4525	7-14, 6 PR Front (R1 Bar - 2-position) 11.2-24, 4 PR Rear (R1 Bar - 8-position)
4535	7-16, 6 PR Front (R1 Bar - 2-position) 12.4-24, 6 PR Rear (R1 Bar - 2-position)
4570	25-10.5LL-15, 6 PR Front (Turf Special - 2-position) 41x18LL-16.1, 6 PR Rear (Turf Special - 2-position)
4575	27x8.5-15, 6 PR Front (R4 Industrial - 1-position) 43x16-20, 6 PR Rear (R4 Industrial - 1-position)
SELECTIVE CONTROL	VALVES
7000	Less Dual SCV
7010	Dual SCV
7020	Dual Mid and Single Rear SCVs
DRAFT LINKS	
7500	Rockshaft with Draft Links
7510	Less 3-Point Hitch Components

# **4410 COMPACT UTILITY TRACTOR**

Code	Description	
BASE MACHINE		
131DLV	4410 Tractor	
FRONT AXLE		
1005	4 Wheel Drive	
ROPS		
1505	Folding ROPS (required for use with backhoe)	
TRANSMISSION		
2015	ePowrReverser™ Transmission	
2025	eHydro™ Transmission	
MID-PTO		
2500	Less Mid-PTO	
2505	Mid-PTO	
WHEELS WITH TIRES (	TWO) FOR 4410 4WD TRACTORS	
Notes:  1) All tires offered are bias ply construction. 2) See "Tire Ground Clearance and Mower Deck Clearance" chart in Specifications section for tire and mower deck compatibility.		
4515	25x8.50-14, 6 PR Front (R4 Industrial - 1-position) 15-19.5, 6 PR Rear (R4 Industrial - 1-position)	
4520	27x8.50-15, 4 PR Front (R3 Turf - 2-position) 41x14.00-20, 4 PR Rear (R3 Turf - 2-position)	
4525	7-14, 6 PR Front (R1 Bar - 2-position) 11.2-24, 4 PR Rear (R1 Bar - 8-position)	
4535	7-16, 6 PR Front (R1 Bar - 2-position) 12.4-24, 6 PR Rear (R1 Bar - 8-position)	
4570	25-10.5LL-15, 6 PR Front (Turf Special - 2-position) 41x18LL-16.1, 6 PR Rear (Turf Special - 2-position)	
4575	27x8.5-15 6 PR Front (R4 Industrial - 1-position) 43x16-20 6 PR Rear (R4 Industrial - 1-position)	
SELECTIVE CONTROL VALVES		
7000	Less SCV	
7010	Dual SCV	
7020	Dual Mid and Single Rear SCVs	
DRAFT LINKS		
7500	Rockshaft with Draft Links	
7510	Less 3-Point Hitch Components	

# **ATTACHMENTS**

# **IMATCH™ QUICK-ATTACH SYSTEM**



The iMatch<sup>TM</sup> Quick-Attach System provides easy hookup and a guaranteed fit for all Category I implements that are designed to meet the ASAE Category I standard S278.6 for quick-attach hitches.

#### Notes:

- 1) Bushings are required for attachment to Category 1 pins. One set of bushings sent with each hitch.
- 2) If extra bushings are needed, LVU12858 bushing kit can be ordered.

Code	Bundle	Description
9001	LVB25255	iMatch quick-hitch kit

# ATTACHMENTS FOR FIELD CONVERSION

# **55 AMP ALTERNATOR KIT**

A 55 amp alternator can be ordered as an upgrade kit to replace the standard equipment 40 amp alternator. This alternator is suited for tractors equipped with aftermarket cab enclosures and lighting kits requiring a higher amount of amperage to operate.

Bundle	Description
LVB25015	55 amp alternator kit

# **BALL AND CLAW HITCH**

Ball and claw hitch allows the customer to easily hook up to any implement regardless of implement hitch points

#### Notes:

- 1) For tractors equipped with horizontal bar stabilizers
- 2) Kit does include the top link.

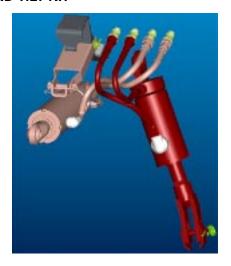
Bundle	Description
LVB25295	Ball and claw draft arm kit (for tractors
	equipped with horizontal bar stabilizers)

#### TELESCOPING DRAFT LINK KIT

Telescoping draft links will reduce the amount of effort to attach three-point hitch implements by allowing the operator to make small adjustments without moving the tractor.

Bundle	Description
LVB25308	Telescoping draft links for tractors
	equipped with horizontal bar stabilizers
LVB25072	Telescoping draft links for tractors equipped with vertical bar stabilizers

# **TOP AND TILT KIT**



Top and tilt kit provides hydraulic cylinder for center link and hydraulic cylinder for right-side lift link of 3-point hitch. Allows hydraulic positioning of the rear implement.

Note: The diverter valve kit must be installed on tractor for top and tilt operation.

Bundle	Description
LVB25311	Top and tilt kit (4210 - 4410)

# **VERTICAL EXHAUST KIT**



For applications that require a high exhaust system, over the head of the operator, a vertical exhaust kit is available.

Bundle	Description
LVB25111	Vertical exhaust kit, 4210
LVB25106	Vertical exhaust kit, 4310 and 4410

# **FRONT WEIGHTS**



(Photo shows tractor with front weight bracket extension)

Help counterbalance rear-mounted implements.

Up to six 42 or 70 lb. weights can be added to standard equipment front weight bracket.

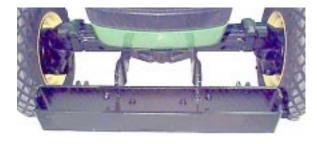
Front weight bracket is integral part of tractor.

Weight bracket rod and snap pins are required to hold weights in place.

Note: See "Ballast Recommendations for Front and Rear Attachments" for information on weight requirements.

Bundle	Description
R66949	One (42 lb.) Quik-Tatch weight
RFR66949	Twelve Quik-Tatch weights
BM19780	One (70 lb.) Quik-Tatch weight
M134255	One weight bracket rod (Parts)
A15147	One weight bracket pin (2 required)
	(Parts)

# FRONT WEIGHT BRACKET EXTENSION



Can be attached to tractor to allow using up to ten front weights. Extension kit includes extension bracket, hardware, rod and pins.

Order weights separately (see above).

Allow one-half hour to install.

Bundle	Description
LVBM19581	Weight bracket extension kit

# **HOOD GUARD**



An additional hood guard can be ordered for use on 4000 TEN Series tractors without ordering a loader.

- Protects front of tractor.
- Bolt-on design allows leaving on tractor with loader removed.

Bundle		Description	
BW14378	Hood guard		

# **ENGINE COOLANT HEATER**



Fits into engine block to help provide faster and easier starts in extremely cold weather (below  $0^{\circ}F$  or  $-18^{\circ}C$ ).

Uses 110 volt electricity.

Allow one hour to install.

Bundle	Description
AR87167	Engine coolant heater (Parts)

# TRANSMISSION OIL HEATER



Heats hydraulic fluid to assist in cold weather starting in extremely cold weather (below  $0^{\circ}F$  or  $-18^{\circ}C$ ).

Uses 110 volt electricity.

Allow one-half hour to install.

Bundle	Description
One - AR95434	Cord (Parts)
One - AR94493	Heater core (Parts)
One - R34557	Clamp (Parts)
Two - R44302	Self-locking straps (Parts) (two
	required)

# SPARK ARRESTER MUFFLER SCREEN



Meets USDA Forest Service Standard 5100-1a.

Includes instructions and spark arrester screen.

Screen is easily installed over end of exhaust tailpipe. (Simply drill hole in tailpipe and attach with a sheet metal screw.)

Bundle	Description
LVB25388	Spark arrester muffler screen (4200,
	4210)
LVB25390	Spark arrester muffler screen (4300-4600, 4310-4410)

# **HYDRAULIC OUTLETS**

4000 TEN Series tractors can be equipped with 0 to 5 pairs of hydraulic selective control valves. Tractors can be ordered from the factory with no hydraulic SCVs, dual mid-mount SCVs, or dual mid-mount SCVs with a third set on the rear of the tractor. Dealer installed kits provide versatility and flexibility. The dealer installed diverter valve kit allows two additional pair of SCVs to be installed on the rear of the tractor.

Note: All front hydraulic couplers are 3/8-in. All tractor rear hydraulic couplers are 1/2-in.

Hydraulic Options	Mid Dual SCV Kit	3rd Rear SCV Kit	Diverter Kit
Dual Mid SCVs	LVB25083		
Dual Pair Mid SCVs, Single Pair Rear SCVs	LVB25083	LVB25084	
Dual Pair Mid SCVs, Dual Pair Rear SCVs	LVB25083		LVB25087
Dual Pair Mid SCVs, Three Pair Rear SCVs	LVB25083	LVB25084	LVB25087

# **DUAL SELECTIVE CONTROL VALVE**



Includes single lever control and side-mounted couplers with two sets of outlets.

Note: Front hydraulic couplers are 3/8-in.

- Includes 3-spool valve; third spool on valve is free (unused).
- Two sets of outlets allow performing two hydraulic functions.

Bundle	Description
LVB25083	Dual selective control valve

# THIRD SELECTIVE CONTROL VALVE



Includes single lever control and rear-mounted couplers with one set of outlets. Kit includes rear-mounted couplers, hydraulic lines, and SCV lever. Kit does not contain a valve.

- Requires a dual SCV.
- Allows using third spool on dual selective valve.

Bundle	Description
LVB25084	Third selective control valve

#### **DIVERTER VALVE**



Electronic diverter for 3rd and 4th or 4th and 5th selective control valves. The diverter valve allows the oil flow to be redirected from the front to the rear of the tractor.

- Kit includes diverter valve, rear-mounted 1/2 couplers, hydraulic lines and switch.
- · Dual SCV required

Note: Not available on the 4210 or 4310 Tractors with SyncShift Transmission.

Bundle	Description
LVB25087	Diverter valve

#### **POWER BEYOND KIT**

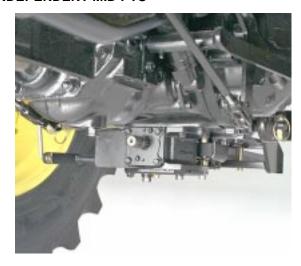


Allows accessing pressurized hydraulic oil at rear of tractor for operating attachments equipped with an open center control valve, such as a backhoe and log splitter.

Includes rear-mounted couplers and hose for maximum oil flow to implement.

Bundle	Description
LVB25085	Power beyond kit

#### INDEPENDENT MID PTO



An independent 2100 rpm mid PTO is available as factory or field installed on all models.

The mid PTO provides independent control and power to front and mid-mounted implements (i.e., mid-mowers, snow blower, and front broom).

By design, the rear PTO will operate every time the mid PTO is used.

Bundle	Description
LVB25291	Independent mid PTO

# **REAR WORK LIGHT KIT**



Provides light to rear of tractor for evening work.

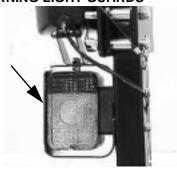
Kit contains individual light.

Allow one-half hour to install.

Note: Order two kits if dual rear work lights are desired. Mount one light on each ROPS post.

Bundle	Description
LV910502	Work light kit (includes wiring harness)

# **ROPS WARNING LIGHT GUARDS**

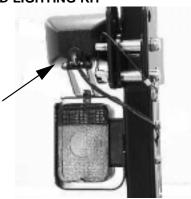


ROPS warning light guards (arrow) protects turn signal/warning lights from damage caused by low branches on trees

Two brackets and guards included in each kit.

Bundle	Description
LVB25236	ROPS warning light guards

# FORWARD LIGHTING KIT



The forward lighting kit (arrow) provides extra visibility when working in dark conditions. Lights attach to the brush guards, located on the ROPS. Two lights contained in each 1:i+

Note: Requires Light Brush Guard Kit LVB25236.

Bundle	Description
LVB25023	Forward lighting kit

# **MIRROR KIT**

Adjustable mirrors can be mounted on the left-hand and right-hand fender handrails to give the operator additional safety when operating on public roads.

Each kit contains two mirrors.

Bundle	Description
LVB25214	Mirror kit (two mirrors)

# SPEED MATCH™ UPGRADE KIT



Speed Match allows the operator to preset their maximum eHydro speed for operation. Ideal for applications requiring set speeds (spraying/aeration).

Note: Automotive cruise control required for Speed Match upgrade kit.

Bundle	Description
LVB25381	Speed Match upgrade kit

# **RENTAL UPGRADE KIT**

The rental upgrade kit is designed to help protect the tractor from damage when used in rental applications. Components include:

- Left- and right-hand skid plates to protect the underside of the tractor
- · Suction screen guard
- High-range speed lockout
- · Electronic switch close-outs
- · Mounting hardware

Bundle	Description
LVB25453	Rental upgrade kit (4210, 4310, 4410)

# **AUTOMOTIVE CRUISE CONTROL UPGRADE KIT**



Automotive cruise control upgrade kit consists of cruise, and accel/decel/resume function switches. This kit fits the 4210-4710 eHydro Transmission Tractors.

Bundle	Description
LVB25320	Cruise control upgrade kit

# **BACKUP ALARM KIT**

Backup alarm informs operator and bystanders when unit is in reverse.

*Note: Requires eHydro*<sup>TM</sup> *transmission option.* 

Bundle	Description
LVB25256	Backup alarm kit

#### **UMBRELLA**



Provides the operator the necessary shade and protection from the elements.

Attaches to the tractor's Roll-Gard ROPS.

Bundle		Description	
TY25324	Umbrella		

# **CANOPY**



The canopy attaches to ROPS to protect the operator from inclement weather.

Note: Additional mounting brackets are required to adapt the canopy (LVB25334) to ROPS. See ordering information below.

Bundle	Description
LVB25334	Canopy kit
LVB25332	Note: Requires LVB25332 mounting bracket and hardware kit, ordered separately.  Canopy mounting kit
	Note: Requires LVB25334 canopy, ordered separately.

# **FOLDING ROPS**



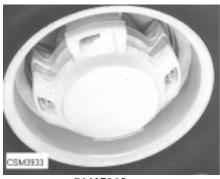
Folding ROPS can be folded down to permit additional clearance when needed. Folding ROPS meets new ASAE, SAE, and OSHA standards.

Note: Folding ROPS are required if using a backhoe application.

Bundle	Description
LVB25298	Folding ROPS

C20-305-15

## **REAR WHEEL WEIGHTS**





BM17965 BM17969

Provide additional traction and stability.

Note: Tire chains are available from Parts for rear tires to provide additional traction. There is not enough clearance to install chains on tractors with 12.4-24 tires.

		STARTER WEIGHT		ADDITION	ADDITIONAL WEIGHT		
Tractor	Wheel Size	Weight	Attaching Hardware	Weight	Attaching Hardware	Max. Wt. Per Wheel*	
4210	16-in.	BM17965 (60 lb.)	BM19938	BM17965 (60 lb.)	BM19951	3	
	17.5-in.	BM17965 (60 lb.)	BM19938	BM17965 (60 lb.)	BM19951	3	
	24-in.	BM17969 (45 lb.)	BM19936	BM17968 (50 lb.)	BM19937	3	
4310	19.5-in.	BM17965 (60 lb.)	BM19938	BM17965 (60 lb.)	BM19951	3	
	20-in.	BM17965 (60 lb.)	BM19938	BM17965 (60 lb.)	BM19951	3	
	24-in.	BM17969 (45 lb.)	BM19936	BM17968 (50 lb.)	BM19937	3	
4410	19.5-in.	BM17965 (60 lb.)	BM19938	BM17965 (60 lb.)	BM19951	3	
	20-in.	BM17965 (60 lb.)	BM19938	BM17965 (60 lb.)	BM19951	3	
	24-in.	BM17969 (45 lb.)	BM19936	BM17968 (50 lb.)	BM19937	3	

<sup>\*</sup> Max Wt. per wheel includes the starter weight

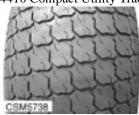
#### WHEELS AND TIRES

This information identifies the various tires that are available for the 4210, 4310, and 4410 Compact Utility Tractors.









R1 Bar R4 Industrial

Galaxy Turf

## Tire Tread Applications:

- All front wheels and tires on the 4210, 4310, and 4410 are two (2) position wheels.
- Industrial tread (R4)—less aggressive than the R1 tire. Designed for industrial applications such as landscapers, contractors, rental yards, and roadside mowing.
- Bar tread (R1)—used in applications where full traction is desired.
- Turf tread (R3)—spreads tractor's weight over a large area for improved flotation and reduced turf damage.
- Turf Special tires are designed and built for golf course applications. The Turf Special offers the widest footprint possible without going to costly tires and wheels. Made with the most solid-to-void ratio of any golf course tire, thus giving the least weight per square inch. Built especially flexible and soft with rounded shoulders so as not to cut the turf. The Galaxy Turf Special tires are made with the highest-grade, longest-wearing type of rubber compound in order to yield the longest life.
- 1) Front and rear tread dimensions are finely matched to keep tires from running on the rows and damaging crops. See "Dimensions" information for tread dimensions.
- 2) Tire dimensions will vary slightly due to manufacturing tolerances.
- 3) Tire dimensions will increase slightly with tire age.

On MFWD tractors, the front tires run slightly faster than the rear tires. Front and rear tire options available from the factory will maintain the correct ratio (over speed).

### TIRES for 4210, 4310, and 4410

Bundle Number	Tire	Tread Code	Tread Pattern	Ply Rating	Outside Dia. (in.)	*Static Loaded Radius (in.)	Width (in.)	Inside Dia. (in.)	Manufacturer	Туре
LVB25235	5.90-15	F2	Rib	4	24	11.5	5.9	15	Titan	Tubeless
LVB25315	24x8.50-14	R3	Turf	4	24	11.4	8.5	14	Titan	Tubeless
BM19402	7-12	R1	Rib	4	27.5	11.3	6.7	12	Titan	Tubeless
BM18804 (2WD) 43-4410 only	27x8.50-15	R3	Turf	4	27	12.6	8.6	15	Titan	Tubeless
BM18800	23x8.50-12	R4	Ind.	4	23	10.5	8	12	Titan	Tubeless
LVB25027	7-14	R1	Bar	6	27.5	12.7	6.7	14	Titan	Tubeless
BM19815 (4WD) 43-4410 only	27x8.50-15	R3	Turf	4	27	12.6	8.6	15	Titan	Tubeless
LVB25029	25x8.50-14	R4	Ind.	6	25.8	11.9	8.4	14	Titan	Tubeless
LVB25028	7-16	R1	Bar	6	29.3	13.4	7.2	16	Titan	Tubeless
LVB25006	25x10.5LL-15	R3	Turf Special	6	27.2	12.4	10.5	15	Galaxy	Tubeless
BM19508	25x8.50-14	R3	Turf	4	25	11.4	8.5	14	Titan	Tubeless
BM18799	12.4-16	R1	Bar	6	37.6	18.1	12.5	16	Titan	Tubeless
BM19505	13.6-16	R3	Turf	4	39	17.5	14.5	16	Titan	Tubeless
BM18803	11.2-24	R1	Bar	4	43.6	20.1	11.8	24	Titan	Tubeless
BM18801	14-17.5	R4	Ind.	6	36.4	16.4	14.3	17.5	Titan	Tubeless
BM18805	41x14.00-20	R3	Turf	4	42	18.6	14	20	Titan	Tubeless
BM19079	12.4-24	R1	Bar	6	45.8	21	13	24	Titan	Tubeless
BM18807	15x19.5	R4	Ind.	6	40.5	17.9	15.5	13	Titan	Tubeless
LVB25313	43x16-20	R4	Ind.	4	43	19.6	17.9	20	Titan	Tubeless
LVB25314	27x8.5-15	R4	Ind.	6	27	12.2	9.9	15	Titan	Tubeless
LVB25005	41x18LL-16.1	R3	Turf Special	6	41.8	17.3	19.9	16.1	Galaxy	Tubeless

<sup>\*</sup> Static loaded radius is the distance measured from the center of the wheel to the ground with weight of the tractor on the tires.

- Tire dimensions will vary due to manufacturing tolerances.
- Tire dimensions will increase with tire age.

## **BALLAST RECOMMENDATIONS FOR FRONT AND REAR ATTACHMENTS**

		4210	431	0/4410	451	0/4610
	2WD	MFWD	2WD	MFWD	2WD	MFWD
Rear Attachments (with base weight)		<u>N</u>	Number of	32 kg Weigh	ts	
550 Tiller (420 lb.)	6	4	4	3	4	3
660 Tiller (627 lb.)			5	4	6	5
670 Tiller (694 lb.)					7	6
680 Tiller (749 lb.)					8	7
45 (6-ft.) Rear Blade (304 lb.)	2	2	2	2	2	2
45 (7-ft.) Rear Blade (327 lb.)					2	2
620 Disk (953 lb.)					12	11
261 (60-in.) Rotary Mower (370 lb.)	5	4	4	3	5	4
272 (72-in.) Rotary Mower (510 lb.)	7	6	5	4	6	5
25A Flail Mower (630 lb.)			8	6	8	7
360 Flail Mower (794 lb.)			9	8	10	9
370 Flail Mower (904 lb.)					12	11
31C Posthole Digger (246 lb.)	2	2	2	2	2	2
31C when used as a crane*	10	10	10	10	12	12
413 Rotary Cutter (431 lb.)	5	4	4	3	6	5
513 Rotary Cutter (479 lb.)	7	6	6	4	6	5
613 Rotary Cutter (617 lb.)					8	7
516 Rotary Cutter (614 lb.)					8	7
616 Rotary Cutter (728 lb.)					10	9
Front Attachments		ľ	Number of	32 kg Weigh	ts	
26 Rotary Broom**	7	8	7	8		
74 Front Blade** (480 lb.)	7	8	5	6		
84 Front Blade** (725 lb.)					9	10
59-Inch Snow Blower** (450 lb.)	7	8	7	8		
*Lifting capacity when used as crane (lb.)	463	513	604	654	675	725
Values are at boom hook centerline. Actual lift capacity and ballast will be determined by how far the load CG horizontal distance is from boom hook vertical centerline.						
Attachment not compatible with tractor.						

#### Notes:

- 1) These ballast weight recommendations are based on ideal conditions. Actual field conditions may require additional
- 2) 11 Cultivator and 71 Flexi Planter Many additional attachments available for these implements. Actual configuration will determine actual ballast required.
- 3) 31C Posthole Digger Additional auger sizes available. Actual configuration will determine exact ballast required.

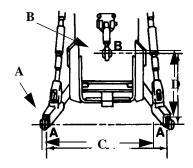
<sup>\*\*</sup>Number of 32 kg weights plus rear weight box.

## **SPECIFICATIONS**

Specifications and design subject to change without notice	9 4210 SynoShi#/oHydro	4210 SymoShift/	4410 a Power Powercor/
	4210 SyncShift/eHydro	4310 SyncShift/ ePowrReverser/eHydro	4410 ePowrReverser/ eHydro
Engine:	20 (21)	22 (24)	25 (26)
Engine hp, gross - hp* (kW) Engine hp, net - hp* (kW) (SAE J1349)	28 (21) 26 (19)	32 (24) 30.2 (22)	35 (26) 33 (25)
PTO hp - hp* (kW) SyncShift transmission	23 (17)	27 (20)	N/A
	N/A	27 (20)	29 (22)
PTO hp - hp* (kW) eHydro transmission	22 (16)	25 (19)	28 (21)
* Horsepower is manufacturers estimate	• • • • • • • • • • • • • • • • • • • •	2.000	2.500
Rated engine speed (rpm)	2600 Diesel	2600 Diesel	2600 Diesel
Type	1000-2810	1000-2810	1000-2810
Number of cylinders.	3	3	3
Displacement cu. in. (liters)	73.5 (1.33)	91.3 (1.5)	100.2 (1.6)
Bore and stroke mm (in)	82x84 (3.07x3.31)	84 x 90 (3.31x3.54)	88 x 90 (3.46x3.54)
Compression ratio	18:1 Pressurized	18:1 Pressurized	18:1 Pressurized
Lubrication	Water pump	Water pump	Water pump
Air cleaner.	Dry type w/safety	Dry type w/safety	Dry type w/safety
	element and air	element and air	element and air
	restrictor indicator	restrictor indicator	restrictor indicator
Engine shutoff.	Key switch	Key switch	Key switch
Engine torque at rated speed (ftlb.)  Electrical:	61.5 ft. lb.	73.1 ft. lb.	81.0 ft. lb.
Type	12 Volt	12 Volt	12 Volt
Battery size (CCA).	500	500	500
Alternator (12 volt)	40 amp	40 amp	40 amp
Starter size (12 volt)	1.6 hp (1.2 kW)	1.9 hp (1.4 kW)	1.9 hp (1.4 kW)
Fuel System: Type	Direct injection	Direct injection	Direct injection
Injection pump type.	In-line w/electric	In-line w/electric	In-line w/electric
J	shutoff	shutoff	shutoff
U.S. gal./hr. at 75% load (mowing).	1 (3.9)	1.3 (4.9)	1.5 (5.6)
Drivetrain:			
Transmission (standard): 2WD	Ov3 SyncShift	9x3 SyncShift	N/A
4WD		9x3 SyncShift	N/A N/A
Transmission (optional):	•	•	
4WD			12x12 ePowrReverser
T' -1.1'	eHydro	eHydro	eHydro
Final drive	Spur gear Wet disk	Spur gear Wet disk	Spur gear Wet disk
	Power steering	Power steering	Power steering
Clutch - Type by transmission:	· ·	•	6
SyncShift	Single, multi-disk wet	-	
. D D	clutch	clutch	N/A
ePowrReverser	N/A	Two, multi-disk wet clutches	Two, multi-disk wet clutches
eHydro	None	None	None
Clutch disk diameter - in. (mm).	4.88 (124)	4.88 (124)	4.96 (124)
Drawbar tongue weight capacity	771 (350 kg)	881 (400 kg)	881 (400 kg)
Axle capacity (in operation):	22.52 (1.52.5.1)	25.40 (1500.1)	27.40 (1700.1)
FrontRear		3748 (1700 kg) 4409 (2000 kg)	3748 (1700 kg) 4409 (2000 kg)
Hydraulic System:	4409 (2000 kg)	4409 (2000 kg)	4409 (2000 kg)
Type of system.	Open center	Open center	Open center
Working pressure—psi (kPa)	2125 (14652)	2500 (17238)	2500 (17238)
	Dual gear	Dual gear	Dual gear
Pump capacity (main) - gpm (L/min.) at rated engine	7.0 (26.5)	8 6 (32 5)	8 6 (32 8)
rpm	7.0 (26.5)	8.6 (32.5)	8.6 (32.8)
engine rpm	5.3 (20.0)	5.3 (20.0)	5.3 (20.0)
Total flow of pumps - gpm (L/min.) at rated engine	(=0.0)	(=0.0)	(-0.0)
rpm	12.3 (46.5)	13.9 (52.5)	13.9 (52.5)

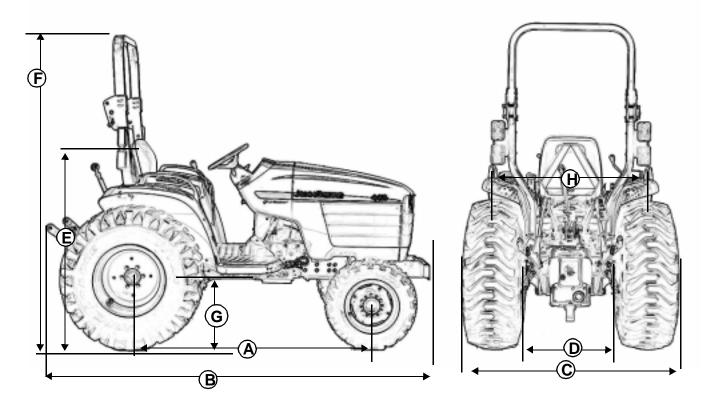
Specifications and design subject to change without notice

	4210 SyncShift/eHydro	4310 SyncShift/ ePowrReverser/eHydro	4410 ePowrReverser/ eHydro
3-Point Hitch:		·	·
Type	Category 1	Category 1	Category 1
Lift capacity:			
(24-in. behind link arms) - lb. (kg)	1700 (771)	2200 (999)	2200 (999)
Lift capacity @ lift link ends		2530 (1148)	2530 (1148)
Dimensions (see drawing below):			
"A" Ball socket I. D	7/8-in. (22 mm)	7/8-in. (22 mm)	7/8-in. (22 mm)
"B" Pin hole I. D	3/4-in. (19 mm)	3/4-in. (19 mm)	3/4-in. (19 mm)
"C" Width at hitch pins	26.9-in. (660 mm)	26.9-in. (660 mm)	26.9-in. (660 mm)
"D" Height from center pin to hitch pin	18-in. (457 mm)	18-in. (457 mm)	18-in. (457 mm)



PTO:	4210	4310	4410		
Type	Independent	Independent	Independent		
Speed (PTO rpm at 2600 engine rpm):	-	-	-		
Rear	540	540	540		
Mid		2100	2100		
Clutch	Multi-disk,	Multi-disk,	Multi-disk,		
	Wet Clutch	Wet Clutch	Wet Clutch		
Brake for both Mid and Rear PTO	Multi-disk, wet	Multi-disk, wet	Multi-disk, wet		
Fluid Capacities:			,		
Fuel tank - gal. (L)	10.0 (37.9)	10.0 (37.9)	10.0 (37.9)		
Cooling system (includes coolant bottle) qt. (L)	5.3 (1.4)	5.68 (1.5)	5.68 (1.5)		
Crankcase with filter - qt. (L)	4 (3.7)	4.5 (4.1)	4.5 (4.1)		
Transmission and hydraulic system - gal. (L)		•	, ,		
SyncShift	6.3 (23.8)	6.3 (23.8)	N/A		
Transmission and hydraulic system - gal. (L)	` ,	` '			
ePowrReverser <sup>TM</sup>	N/A	6.3 (23.8)	6.3 (23.8)		
Transmission and hydraulic system - gal. (L)		,	,		
eHydro <sup>TM</sup>	6.8 (25.7)	6.8 (25.7)	6.8 (25.7)		
Front axle gearcase - qt. (L)	4.1 (3.7)	4.1 (3.7)	4.1 (3.7)		
Sound level (high idle, no load):	` /	` '	,		
Operator dB(A)	84	84	84		
Slope operation		American National Stan	dard Institute B71.4		
ROPS			rds for roll-over protection		
Towing and stopping capacity					
Note: The following conditions must be followed.	ζ,	, ,	, 3,		
1) This load must occur from the tractor's original drawbar location.					
2) The drawbar vertical loading should not exceed the recommended 882 lb. (400 kg).					
Weight:		1 07			
4WD tractors	2675 lb.(1213 kg)	2900 lb. (1315 kg)	2900 lb. (1315 kg)		
2WD tractors		2600 lb. (1179 kg)	N/A		
	` ' ' ' ' '	` "			

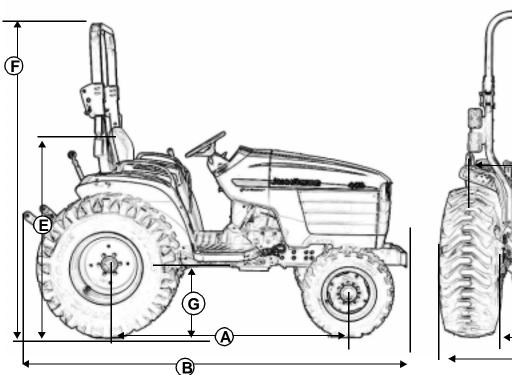
# **DIMENSIONS**4210 TWO-WHEEL DRIVE

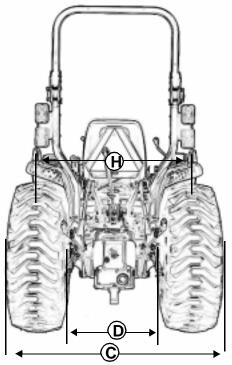


Tires (Wheel Position):	R1 Bar and F2 Rib	<u>4210 2WD</u> R1 Bar and F2 Rib	R3 Turf
Rear	12.4 16	11.2-24	13.6-16
	(2-position) R1	(8-position) R1	(2-position)
Front	5.90-15	5.90-15	24x8.5-14
	(2-position) F2	(2-position) F2	(2-position)
Dimensions:			
(A)-Wheelbase—in. (mm)	65 (1651)	65 (1650)	65 (1650)
(B)-Overall length with 3-point hitch—in. (mm)*	117 (2978)	117 (2978)	117 (2978)
(C)-Overall width (min)—in. (mm)	53 (1348)	50 (1270)	56.7 (1441)
Overall width (max)—in. (mm)	58.4 (1483)	66.7 (1695)	60.5 (1535)
(D)-Inside width (min)—in. (mm)	27.1 (688)	26.5 (672)	26.5 (675)
Inside width (max)—in. (mm)	28.5 (725)	42.6 (1081)	30.2 (769)
Height from ground:			
(E)-To top of hood—in. (mm)	50.4 (1280)	53.3 (1354)	55.8 (1418)
(F)-To top of non-folding ROPS—in. (mm)	81 (2053)	84 (2127)	86.2 (2190)
To top of folding ROPS—in. (mm)	87 (2210)	90 (2272)	92.2 (2342)
(G)-Ground clearance, rear axle—in. (mm)	10.5 (267)	13.4 (341)	16 (404)
Wheel treads (center-to-center):			
Rear wheels—in. (mm)	40.1 (1018)	38.5 (979)	41.7 (1058)
Front wheels—in. (mm)	42.5 (1082)	42.5 (1082)	45 (1143)
Turning radius:			
With brakes MFWD off—ft. (m)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)
Without brakes MFWD off—ft. (m)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)

<sup>\*</sup>Overall length is from 3-point hitch in level position to front bumper. Subtract 7.6-in. for tractors without 3-point hitch.

# **4210 FOUR-WHEEL DRIVE**

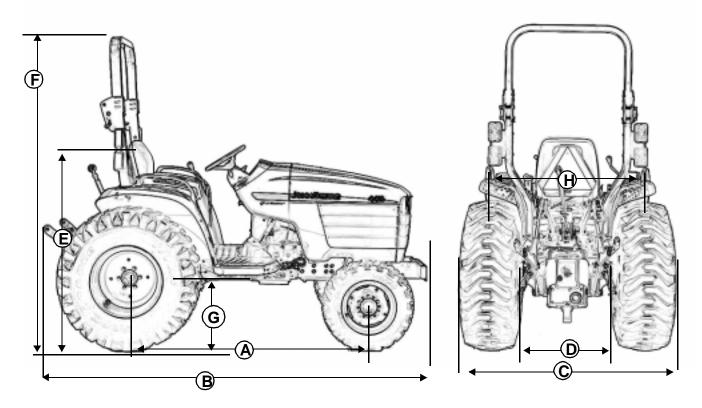




		4210 4\	WD	
Tires (Wheel Position):	R1 Bar	R3 Turf	R4 Ind.	R3 Turf
Rear	12.4-24	13.6-16	14-17.5	41x18LL-16.1
Front	(8-position) 7-12	(2-position) 24x8.50-14	(1-position) 23x8.50-12	(2-position) 25x10.5LL-15
Front				
Dimondona	(2-position)	(2-position)	(1-position)	(2-position)
Dimensions:	(40)	(4 - <del>-</del> -0)	(1 - <del>-</del> - 0)	(4 - <del>-</del> - 0)
(A)-Wheelbase—in. (mm)	65 (1650)	65 (1650)	65 (1650)	65 (1650)
(B)-Overall length with 3-point hitch—in. (mm)*	117 (2978)	117 (2978)	117 (2978)	117 (2978)
(C)-Overall width (min)—in. (mm)	56.3 (1430)	56.7 (1441)	56.9 (1444)	67 (1700)
Overall width (max)—in. (mm)	68.2 (1731)	60.5 (1535)	58.3 (1481)	67 (1700)
(D)-Inside width (min)—in. (mm)	29.2 (744)	26.6 (675)	27 (688)	28 (710)
Inside width (max)—in. (mm)	41.2 (1045)	30.1 (769)	28.5 (725)	, ,
Height from ground:				
(E)-To top of hood—in. (mm)	50.4 (1280)	55.8 (1418)	49.8 (1265)	52.5 (1332)
(F)-To top of non-folding ROPS—in. (mm)	85.3 (2166)	86.2 (2190)	80.3 (2038)	81.5 (1070)
To top of folding ROPS—in. (mm)	91.3 (2319)	92.2 (2342)	86.3 (2192)	87.5 (2222)
(G)-Ground clearance, rear axle—in. (mm)	10.5 (267)	16 (404)	9.9 (252)	9 (230)
Wheel treads (center-to-center):				
Rear wheels—in. (mm)	42.8 (1087)	41.7(1058)	42 (1066)	45 (144)
Front wheels—in. (mm)	45 (1143)	45 (1143)	45 (1143)	45.5 (147)
Turning radius:				
With brakes MFWD off—ft. (m)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)
Without brakes MFWD off—ft. (m)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)

<sup>\*</sup>Overall length is from 3-point hitch in level position to front bumper. Subtract 7.6-in. for tractors without 3-point hitch.

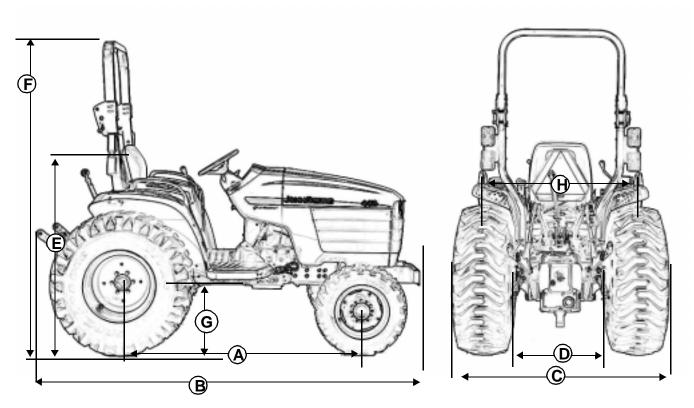
## **4310 TWO-WHEEL DRIVE**



Tires (Wheel Position): Rear	<b>R1 Bar and F2 Rib</b> 11.2-24 (8-position) R1	4310 2WD R1 Bar and F2 Rib 12.4-24 (8-position) R1	<b>R3 Turf</b> 41x14.00-20 (2-position)
Front	5.90-15	5.90-15	27x8.50-15
	(2-position) F2	(2-position) F2	(2-position)
Dimensions:			
(A)-Wheelbase—in. (mm)	68 (1727)	68 (1727)	68 (1727)
(B)-Overall length with 3-point hitch—in. (mm)*	117 (2978)	117 (2978)	117 (2978)
(C)-Overall width (min)—in. (mm)	50 (1270)	56.3 (1430)	54.4 (1381)
Overall width (max)—in. (mm)	66.7 (1695)	68.2 (1731)	59.1 (1502)
(D)-Inside width (min)—in. (mm)	26.5 (672)	29.3 (744)	26.3 (669)
Inside width (max)—in. (mm)	40.1 (1018)	41.2 (1045)	31.1 (790)
Height from ground:			
(E)-To top of hood—in. (mm)	53.3 (1354)	50.4 (1280)	50 (1265)
(F)-To top of non-folding ROPS—in. (mm)	84 (2127)	85.3 (2166)	83.3 (2115)
To top of folding ROPS—in. (mm)	90 (2272)	91.3 (2319)	89.3 (2268)
(G)-Ground clearance, rear axle—in. (mm)	13.4 (341)	10.5 (267)	10 (252)
Wheel treads (center-to-center):			
Rear wheels—in. (mm).	38.5 (979)	42.8 (1087)	40.4 (1025)
Front wheels—in. (mm)	42.5 (1082)	42.5 (1082	42.8 (1086)
Turning radius:	,	·	, , , ,
With brakes MFWD off—ft. (m)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)
Without brakes MFWD off—ft. (m)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)

<sup>\*</sup>Overall length is from 3-point hitch in level position to front bumper. Subtract 7.6-in. for tractors without 3-point hitch.

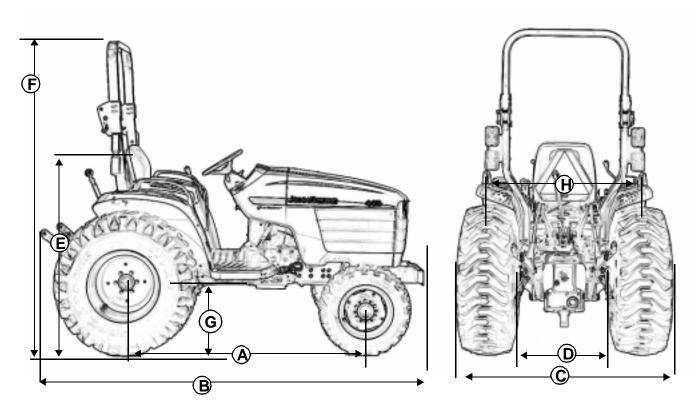
# **4310 FOUR-WHEEL DRIVE**



			<u>4310 4WD</u>		
Tires (Wheel Position):	R1 Bar	R1 Bar	R3 Turf	R4 Ind.	R3Turf
Rear	11.2-24	12.4-24	41x14.00-20	15-19.5	41x18LL-16.1
	(8-position)	(8-position)	(2-position)	(1-position)	(2-position)
Front	7-14	7-16	27x8.50-15	25x8.50-14	25-10.5-15
	(2-position)	(2-position)	(2-position)	(1-position)	(2-position)
Dimensions:	. •		. •	. •	. •
(A)-Wheelbase—in. (mm)	68 (1727)	68 (1727)	68 (1727)	68 (1727)	68 (1727)
(B)-Overall length with 3-point hitch—in. (mm)*.	117 (2978)	117 (2978)	117 (2978)	117 (2978)	117 (2978)
(C)-Overall width (min)—in. (mm)	50 (1270)	56.3 (1430)	54.4 (1381)	58.2 (1478)	67 (1700)
Overall width (max)—in. (mm)	66.7 (1695)	68.2 (1731)	59.1 (1502)	59.5 (1511)	67 (1700)
(D)-Inside width (min)—in. (mm)	25.8 (655)	23.4 (594)	26 (659)	25.9 (657)	28 (710)
Inside width (max)—in. (mm)					
Height from ground:					
(E)-To top of hood—in. (mm)	53.3 (1354)	50.4 (1280)	50 (1265)	52 (1318)	52.5 (1332)
(F)-To top of non-folding ROPS—in. (mm)	84 (2127)	85.3 (2166)	83.3 (2115)	82.4 (2091)	81.5 (1070)
To top of folding ROPS—in. (mm)		91.3 (2319)	89.3 (2268)	88.4 (2245)	87.5 (2222)
(G)-Ground clearance, rear axle—in. (mm)	13.4 (341)	10.5 (267)	10 (252)	12 (305)	9 (230)
Wheel treads (center-to-center):					
Rear wheels—in. (mm)	38.5 (979)	42.8 (1087)	40.5 (1029)	43.4 (1102)	45 (144)
Front wheels—in. (mm)	45 (1143)	45 (1143)	42.8 (1086)	45 (1143)	45.5 (147)
Turning radius:					
With brakes MFWD off—ft. (m)		7.5 (2.3)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)
Without brakes MFWD off—ft. (m)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)

<sup>\*</sup>Overall length is from 3-point hitch in level position to front bumper. Subtract 7.6-in. for tractors without 3-point hitch.

# **4410 FOUR-WHEEL DRIVE**



			<u>4410 4WD</u>		
Tires (Wheel Position):	R1 Bar	R1 Bar	R3 Turf	R4 Ind.	R3 Turf
Rear	11.2-24	12.4-24	41x14.00-20	15-19.5	41x18LL-16.1
	(8-position)	(8-position)	(2-position)	(1-position)	(2-position)
Front	` <sup>1</sup> 7-14 ´	` <sup>1</sup> 7-16	27x8.50-15	25x8.50-14	25-10.5LL-15
	(2-position)	(2-position)	(2-position)	(1-position)	
Dimensions:	(2 position)	(2 position)	(2 position)	(1 position)	(2 position)
(A)-Wheelbase—in. (mm)	68 (1727)	68 (1727)	68 (1727)	68 (1727)	68 (1727)
(B)-Overall length with 3-point hitch—in. (mm)*		117 (2978)	117 (2978)	117 (2978)	117 (2978)
(C)-Overall width (min)—in. (mm)		56.3 (1430)	54.4 (1381)	58.2 (1478)	67 (1700)
Overall width (max)—in. (mm)		68.2 (1731)	59.1 (1502)	59.5 (1511)	67 (1700)
(D)-Inside width (min)—in. (mm)		23.4 (594)	26 (659)	25.9 (657)	28 (710)
Inside width (max)—in. (mm)			_ ( ( , , )		_ (, _ , )
Height from ground:					
(E)-To top of hood—in. (mm)	53.3 (1354)	50.4 (1280)	50 (1265)	52 (1318)	52.5 (1332)
(F)-To top of non-folding ROPS—in. (mm)	84 (2127)	85.3 (2166)	83.3 (2115)	82.4 (2091)	81.5 (1070)
To top of folding ROPS—in. (mm)		91.3 (2319)	89.3 (2268)	88.4 (2245)	87.5 (2222)
(G)-Ground clearance, front axle—in. (mm)		10.5 (267)	10 (252)	12 (305)	9 (230)
Wheel treads (center-to-center):	- (- )	( )	- ( - )	()	
Rear wheels—in. (mm)	38.5 (979)	42.8 (1087)	40.5 (1029)	43.4 (1102)	45 (144)
Front wheels—in. (mm)		45 (1143)	42.8 (1086)	45 (1143)	45.5 (147)
Turning radius:	` -/	` -/	(/	` -/	` '/
With brakes MFWD off—ft. (m)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)
Without brakes MFWD off—ft. (m)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)	8.9 (2.7)
• •	, ,	, ,	, ,	, ,	, ,

<sup>\*</sup>Overall length is from 3-point hitch in level position to front bumper. Subtract 7.6-in. for tractors without 3-point hitch.

## **GROUND SPEEDS**

4210 TRACTOR - SyncShift Transmission

Range / Gear	mph	km/h
A - 1	0.8	1.3
A - 2	1.2	2.0
A - 3	1.6	2.6
B - 1	2.2	3.6
B - 2	3.4	5.4
B - 3	4.5	7.2
C - 1	6.3	10.1
C - 2	9.5	15.3
C - 3	12.7	20.5
A - Reverse	0.8	1.3
B - Reverse	2.2	3.6
C - Reverse	6.3	10.2

Note: Ground speeds shown are with tractor operated at maximum 2600 engine rpm and 12.4-16 tires.

4210 TRACTOR - eHydro Transmission

Range	mph	km/h
Forward A	3.8	6.1
Forward B	7.4	11.8
Forward C	14.8	23.8
Reverse A	3.8	6.1
Reverse B	7.3	11.8
Reverse-C	14.8	23.8

Note: Ground speeds shown are with tractor operated at maximum 2600 engine rpm, 12.4-16 tires.

4310 TRACTOR - SyncShift Transmission

Range / Gear	mph	km/h
A - 1	0.9	1.5
A - 2	1.4	2.3
A - 3	1.9	3.1
B - 1	2.6	4.2
B - 2	3.9	6.4
B - 3	5.3	8.5
C - 1	7.4	11.9
C - 2	11.2	18.1
C - 3	15.0	24.1
A - Reverse	1.0	1.5
B - Reverse	2.6	4.3
C - Reverse	7.5	12.0

Note: Ground speeds shown are with tractor operated at maximum 2600 engine rpm, 11.2-24 tires.

4310 TRACTOR - eHydro Transmission

Range	mph	km/h
Forward A	4.5	7.2
Forward B	8.7	14.0
Forward C	17.4	28.1
Reverse A	4.5	7.2
Reverse B	8.7	14.0
Reverse C	17.4	28.1

Note: Ground speeds shown are with tractor operated at maximum 2600 engine rpm, 11.2-24 tires.

4310 TRACTOR - ePowrReverser Transmission

Range / Gear	mph	km/h
A - C	0.4	0.6
A - 1	0.9	1.5
A - 2	1.0	1.6
A - 3	1.4	2.3
B - 1	1.9	3.0
B - 2	2.6	4.2
B - 3	2.8	4.6
B - 4	4.0	6.4
C - 1	5.3	8.5
C - 2	7.4	11.9
C - 3	11.2	18.1
C - 4	15.0	24.1

### Notes:

- 1) Ground speeds shown are with tractor operated at maximum 2600 engine rpm, 11.2-24 tires.
- 2) Forward and reverse speeds are the same.

4410 TRACTOR - eHydro Transmission

Range	mph	km/h
Forward A	4.5	7.2
Forward B	8.7	14.0
Forward C	17.4	28.1
Reverse A	4.5	7.2
Reverse B	8.7	14.0
Reverse C	17.4	28.1

Note: Ground speeds shown are with tractor operated at maximum 2600 engine rpm, 11.2-24 tires.

4410 TRACTOR - ePowrReverser Transmission

Range / Gear	mph	km/h
A - C	0.4	0.6
A - 1	0.9	1.5
A - 2	1.0	1.6
A - 3	1.4	2.3
B - 1	1.9	3.0
B - 2	2.6	4.2
B - 3	2.8	4.6
B - 4	4.0	6.4
C - 1	5.3	8.5
C - 2	7.4	12.0
C - 3	11.2	18.1
C - 4	15.0	24.0

## Notes:

- 1) Ground speeds shown are with tractor operated at maximum 2600 engine rpm, 11.2-24 tires.
- 2) Forward and reverse speeds are the same.

## TIRE GROUND CLEARANCE AND MOWER DECK CLEARANCE

Some tires may rub the mower deck.

Use this chart to identify what clearance and fit problems may exist.

The chart was compiled by installing decks on each tractor with each tire size.

## 4210, 4310 and 4410 2WD Axle

Note: All tires were put in position three.

				60-Inc	h Deck	72-Inch Deck	
	Tir	е Туре	Tire Size	Deck Raised	Deck Lowered	Deck Raised	Deck Lowered
	R1	Front:	5.90-15 4PR	N/A	N/A	NI	NI
		Rear:	12.4-16 6PR	N/A	N/A	NI	NI
4210 2WD	R3	Front:	24x8.50-14 6PR	NI	NI	NI	NI
4210 2WD		Rear:	13.6-16 6PR	NI	NI	NI	NI
	R1	Front:	5.90-15 6PR	N/A	N/A	NI	NI
		Rear:	11.2-24 4PR	N/A	N/A	NI	NI
	R1	Front:	5.90-15 6PR	N/A	N/A	NI	NI
		Rear:	12.4-24 6PR	N/A	N/A	NI	NI
4310, 4410 2WD	R1	Front:	5.90-15 6PR	N/A	N/A	NI	NI
		Rear:	11.2-24 4PR	N/A	N/A	NI	NI
	R3	Front:	27x8.50-15 4PR	NI	NI	NI	NI
		Rear:	41x14.00-20 4PR	NI	NI	NI	NI

NI: No interference

**Rub**: The tire will rub on the mower deck. It might leave a mark on the mower but should not be enough to cause the deck to jump.

N/A: Tractor and deck combination is not advised because there is major interference.

## 4210, 4310 and 4410 4WD Axle

Note: All tires were put in position three.

				60 -Inc	h Deck	72-Inch Deck	
	Tir	ге Туре	Tire Size	Deck Raised	Deck Lowered	Deck Raised	Deck Lowered
	R1 Front:		7-12 4PR	N/A	N/A	NI	NI
		Rear:	12.4-16 6PR	N/A	N/A	NI	NI
	R1	Front	7-14 6PR	N/A	N/A	N/A	N/A
		Rear	11.2-24 4PR	N/A	N/A	N/A	N/A
4210 4WD Axle	R3	Front:	24x8.50-14 4PR	NI	NI	NI	NI
4210 4 WD Axie		Rear:	13.6-16 4PR	NI	NI	NI	NI
	R3	Front:	25-10.5LL-15 6PR	N/A	N/A	N/A	N/A
		Rear:	41x18LL-16.1 6PR	N/A	N/A	N/A	N/A
	R4	Front:	23x8.50-12 4PR	NI	NI	NI	NI
		Rear:	14-17.5 6PR	NI	NI	NI	NI
	R1	Front:	7-14 6PR	N/A	N/A	N/A	N/A
		Rear:	11.2-24 4PR	N/A	N/A	N/A	N/A
	R1	Front:	7-16 6PR	N/A	N/A	N/A	N/A
		Rear:	12.4-24 6PR	N/A	N/A	N/A	N/A
	R3	Front:	25-10.5LL-15 6PR	N/A	N/A	N/A	N/A
4310, 4410 4WD		Rear:	41x18LL-16.1 6PR	N/A	N/A	N/A	N/A
Axle	R3	Front:	27x8.5-15 4PR	NI	NI	NI	NI
		Rear:	41x14.00-20 4PR	NI	NI	NI	NI
	R4	Front:	27x8.5-15 6PR	NI	NI	NI	NI
		Rear:	43x16-20 6PR	NI	NI	NI	NI
	R4	Front:	25x8.5-14 6PR	NI	NI	NI	NI
		Rear:	15-19.5 6PR	NI	NI	NI	NI

NI: No interference

Rub: The tire will rub on the mower deck. It might leave a mark on the mower but should not be enough to cause the deck to

N/A: Tractor and deck combination is not advised because there is major interference.

## WHEEL TREAD WIDTH DIMENSIONS

The front and rear wheels can be mounted in wide or narrow positions to increase or decrease wheel spacing.

Note: To provide the best stability, operate machine with rear wheels mounted in the wide tread position whenever possible.

## FRONT TIRE TREAD WIDTH DIMENSIONS (2WD Machines)

Position	27x8.5-15 4PR R3 TI	25-10.50LLx15 6PR Golf GA	5.90-15 6PR F2 TI	5.90-15 4PR F2 TI
1 (Narrow)	1.1 m (42.6-in.)	1.1 m (43.6-in.)	1.1 m (42.6-in.)	1.1 m (42.6-in.)
2 (Wide)	1.2 m (47.8-in.)	1.2 m (46.8-in.)	1.2 m (47.6-in.)	1.2 m (47.6-in.)

#### FRONT TIRE TREAD WIDTH DIMENSIONS (MFWD Machines)

Position	27x8.5-15 4PR R3 TI	25-10.50LLx15 6PR Golf GA	25x8.50-14 6PR R4 TI	24x8.50-14 4PR R3 TI	23x8.50-12 4PR R4 TI
1 (Narrow)	1.2 m (46.4-in.)	1.2 m (47.4-in.)	1.2 m (46.4-in.)	1.2 m (46.5-in.)	1.2 m (46.4-in.)
Position	7.00-16 6PR R1 TI	7.00-14 4PR R3 BS	7.00-14 6PR R1 TI	7.00-12 4PR R1 TI	]
1 (Narrow)	1.2 m (46.4-in.)	1.2 m (46.4-in.)	1.2 m (46.4-in.)	1.2 m (46.4-in.)	

Notes: Front Wheel Information:

- Wide position install wheel with valve stem to the inside.
- Narrow position install wheel with valve stem to the outside.
- Tighten all bolts to specifications.
- Tread width is measured from centerline-to-centerline of each tire.

## REAR TIRE TREAD WIDTH DIMENSIONS

Position	41LLx18-16.1 6PR GOLF GA	41x14.00-20 4PR R3 TI	15.00-19.5 6PR R4 TI	14.00-17.5 6PR R4 TI	13.6-16 4PR R3 TI
1 (Narrow)	1 m (40.3-in.)	1 m (40.4-in.)	1.1 m (42.1-in.)	1.1 m (42-in.)	1.1 m (41.7-in.)
2	1.2 m (45.5-in.)	1.2 m (45.6-in.)	1.1 m (43.6-in.)	1.1 m (43.8-in.)	1.1 m (44.2-in.)
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8 (Wide)	N/A	N/A	N/A	N/A	N/A

Position	12.4-24 6PR R1 TI	12.4-16 6PR R1 TI	11.2-24 4PR R1 TI	11.2-24 4PR R3 BS
1 (Narrow)	N/A	1 m (40.4-in.)	N/A	N/A
2	N/A	1.2 m (45.8-in.)	N/A	N/A
3	N/A	N/A	96 cm (37.9-in.)	96 cm (37.9-in.)
4	N/A	N/A	1.1 m (42.2-in.)	1.1 m (42.2-in.)
5	1.1 m (42.8-in.)	N/A	1.1 m (42.8-in.)	1.1 m (42.8-in.)
6	1.2 m (47.1-in.)	N/A	1.2 m (47.1-in.)	1.2 m (47.1-in.)
7	1.3 m (50.4-in.)	N/A	1.3 m (50.4-in.)	1.3 m (50.4-in.)
8 (Wide)	1.4 m (54.7-in.)	N/A	1.4 m (54.7-in.)	1.4 m (54.7-in.)

Notes: Rear Wheel Information:

- Wide position install wheel with valve stem to the outside.
- Narrow position install wheel with valve stem to the inside.
- N/A- Not applicable
- Tighten all bolts to specifications.
- Tires must have at least 25 mm (1-in.) clearance with fenders.
- The mounting flanges on the rear rims are closer to one edge of the rim than the other, allowing the inner wheels to be mounted in different positions. By changing this position of the wheel on the rim, up to eight different tread widths can be achieved on some machines.
- Various positions cannot be used because the tire would strike the fenders. Certain other positions may result in equal tread widths.
- Tread width is measured from centerline-to-centerline of each tire.