

L30-300-1

X400 AND X500 SERIES HEAVY-DUTY LAWN AND GARDEN TRACTORS



[John Deere X400 heavy-duty lawn and garden tractor](#)



[John Deere X500 heavy-duty lawn and garden tractor](#)

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L30-300-2

X400 and X500 Series Heavy-Duty Lawn and Garden Tractors



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John Deere X400 Series Heavy-Duty Lawn and Garden Tractor



John Deere X500 Series Heavy-Duty Lawn and Garden Tractor

L30-300-4

X400 and X500 Series Heavy-Duty Lawn and Garden Tractors



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FEATURE/BENEFIT PROFILE



POWER STEERING

- Provides quick, easy, and precise control for superior trimming and maneuvering with equipment.

SEAT AND SUSPENSION

- Seat tilts forward for protection from the elements. Forward seat adjustments can easily be made by the operator while sitting in the seat.
- X465, X475—High-back seat with two polyurethane foam spring suspension. Three-position adjustment for operator weight.
- X485, X495, X575, X585, X595—Professional high-back seat features a four-bar suspension that is designed to provide a smooth ride. This seat features a 6-position seat adjustment to match a wide variety of operator sizes.

TWO-PEDAL FOOT CONTROL

- Twin Touch® design allows easy selection of tractor speed and direction.

DURABLE FRONT AXLE

- X465, X475, X485, X495—Nodular cast-iron axle with 1-in. (25 mm) steering spindles and greaseable bushings is built to withstand heavy loads.
- X575, X585, X595—MFWD axle with differential provides smooth turning and mechanical engagement to four-wheel drive in forward or reverse.

AIR-COOLED AND LIQUID-COOLED ENGINES

- Supply high horsepower and torque under severe conditions to large equipment for increased productivity. Designed with state-of-the-art, commercial-quality features.
 - Cast-iron cylinder liners
 - Full-pressure lubrication
 - Replaceable oil filter
 - Overhead valves
 - Air filter restriction indicator for X495 and X595 Tractors
 - Quiet operation
 - Isolated mounting for reduced vibration and noise
 - Meet stringent 1995 California Air Resource Board (CARB) and 1997 EPA emission standards
 - X465 has 21 hp, V-4 twin, air-cooled John Deere "K" Series engine
 - X475 and X575 have a 23 hp, V-twin, liquid-cooled John Deere "K" Series engine
 - X485 and X585 have a 25 hp, V-twin, liquid-cooled, electronic fuel-injected John Deere "K" Series engine
 - X495 and X595 have a 24 hp in-line, three-cylinder, liquid-cooled Yanmar diesel engine

ALL-WHEEL STEER

- Available as an option on X465, X475, X485, and X495 models to provide significant enhancement to tractor maneuverability and trimmability, even with large equipment.

MODERN STYLING

- Enhances appearance and improves function.

HYDRAULIC CONTROLS

- Two-spool SCV control levers are conveniently positioned near steering wheel for easy fingertip control of heavy equipment during lift, angle, and spout rotation operations.

HYDROSTATIC TRANSMISSION

- Infinite control of ground speeds for greater productivity and convenience.
- Integrated hydraulic mid (and optional rear 540) PTO.
- Cruise control standard.

L30-300-6

X400 and X500 Series Heavy-Duty Lawn and Garden Tractors

HEAVY-DUTY INTEGRATED TRANSAXLE

- Internal wet disk brakes.
- Hydraulic PTO clutch with soft modulate disengagement.
- Shaft drive input.
- Shaft drive output.
- Differential lock.
- 4WD output shaft (X500 models).

LIGHTING

- Increased illumination for additional safety.
- Automotive-type halogen head lights.
- Automotive-type taillights.
- Back-up and rear work lights.
- Automotive-type dashboard backlighting.

HEAVY-DUTY FRAME

- Arc-welded steel channel and cross member design for strength.
- One common frame for all models.
- Front bumper doubles as a weight bracket.
- Standard front receiver hitch built into front bumper.

EASY ON-OFF MOWER DECKS

- Spline align feature and lock-back collar for easy drive shaft installation.
- Self-aligning draft arms.
- Rotatable gauge wheels on mower deck.

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PRODUCT STORY

MARKETS

The X400 and X500 Series are heavy-duty lawn and garden tractors designed and built to meet the needs of both home-owner and commercial users. The X Series are well-suited for homeowners who mow from 3 to 5 acres of grass.

The X Series will appeal to the user who needs or desires a more versatile and heavier-duty tractor.

X Series tractors offer these additional performance advantages over other lawn and garden tractors:

- More engine horsepower and torque to allow using larger equipment.
- Easy-to-operate Twin Touch foot-controlled hydrostatic transmission.
- Power steering for quick, precise control.
- Optional all-wheel steering (Patent #5,174,595) for unsurpassed trimmability is available for X465, X475, X485, and X495 models.
- Differential lock for increased traction control.
- Hydraulic PTO clutch with soft modulated engagement.
- Shaft-driven equipment versus belt drive.
- Shaft-driven transmission versus belt drive.
- Two-speed hydraulic control valve with outlets (optional on X465, X475).
- From-the-seat adjustable mower depth stop with gauge.
- Automotive-type headlights and taillights versus reflectors.
- Optional 540 rpm rear PTO.
- Automotive-type dash instrument cluster with gauges and indicator lights.
- Heavy-duty robotically welded frame for the strength to operate with equipment.
- Limited Category 1 3-point hitch available for rear-mounted equipment.
- Electronic fuel injection (X485 and X585) for quick, sure starts, better fuel economy, and reduced emissions.
- Diesel models (X495 and X595) available for increased durability and fuel economy.

These models are available to match customers' needs.

	X465	X475	X485	X495	X575	X585	X595
Engine:							
Horsepower	21	23	25	24	23	25	24
Liquid cooling	No	Yes	Yes	Yes	Yes	Yes	Yes
Cylinders	Two	Two	Two	Three	Two	Two	Three
Fuel and delivery	Gas, Carb.	Gas, Carb.	Gas, EFI	Diesel, EFI	Gas, Carb.	Gas, EFI	Diesel, EFI
Transmission:							
Hydrostatic drive	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2-pedal foot control (patented)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Differential lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Soft-engage hydraulic PTO clutch	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shaft-driven equipment	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wet disk brakes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
540 rear PTO	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Four-wheel drive	No	No	No	No	Yes	Yes	Yes
Steering:							
Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
All-wheel steer	Opt.	Opt.	Opt.	Opt.	No	No	No
Tilt steering wheel	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hydraulics:							
Function	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Four outlets	Opt.	Opt.	Yes	Yes	Yes	Yes	Yes
Seat and Suspension:							
High Back	Yes	Yes	No	No	No	No	No
Professional high back	No	No	Yes	Yes	Yes	Yes	Yes
Mower Deck Compatibility:							
48-in.	Avail.	Avail.	Avail.	Avail.	Avail.	Avail.	Avail.
54-in.	Avail.	Avail.	Avail.	Avail.	Avail.	Avail.	Avail.
62-in.	Avail.	Avail.	Avail.	Avail.	Avail.	Avail.	Avail.

ENGINES**X Series Gasoline Engines (Air-Cooled and Liquid-Cooled)**

The X465 Tractor is powered by a V-twin, air-cooled John Deere "K" Series gasoline engine. The X475, X485, X575, X585 tractors are powered by V-twin, liquid-cooled John Deere "K" Series gasoline engines. These engines provide exceptional performance and have the durability to handle commercial-use applications.

Model	HP	Max. Torque	Cooling	Displacement
X465	21	35.5 ft.-lb.	Air	41.2 cu. in. (675 cc)
X475, X575	23	36.5 ft.-lb.	Liquid	45.5 cu. in. (745 cc)
X485, X585	25	36.1 ft.-lb.	Liquid	45.5 cu. in. (745 cc)

Features include:

- Liquid cooling:
 - Longer engine life.
 - Quieter operation.
 - Improved fuel economy.
- V-twin cylinder design:
 - Smoother running.
 - Easier starting.
- OHV design provides more efficient air flow for improved combustion compared to side-valve design. OHV benefits are:
 - More horsepower and torque per cubic inch of displacement.
 - Better cooling for longer engine life.
 - Reduced oil consumption.
 - Improved fuel economy.
- Full-pressure lubrication with replaceable oil filter provides plenty of clean oil for long engine life.
- Horizontal crankshaft with driveshaft connection to transmission for positive power transfer.
- Aluminum block and cast-iron cylinder liners provide:
 - Efficient heat dissipation.
 - Strength and durability with less weight.
- Low exhaust emissions to meet State of California Air Resource Board (CARB) 1995 and 1997 EPA Clean Air Standards:
 - Liquid cooling for consistent operating temperatures (not X465).
 - OHV for efficient lean burn combustion.
 - Precise air/fuel ratio control with:
 - Fixed jet carburation (Models X465, X475, and X575).
 - Electronic fuel injection (Models X485 and X585).
 - Closed crankcase ventilation recirculates and burns crankcase hydrocarbons.
- Oil drain valve with hose and oil filter drip tray for easy, no-mess maintenance.
- Electronic ignition for quick, sure starts (X465, X475, X485, X575, X585).
- Rubber engine mounts for:
 - Vibration-free operation.
 - Lower noise.
- Electric fuel pump ensures positive fuel delivery for fast starts and smooth running (not on X465 or X595).
- Solenoid shift starter ensures that starter stays engaged until key switch is released for fast cold-weather starts.

X495 and X595 Engine (Liquid-Cooled Diesel)

The X495 and X595 Tractors are powered by a liquid-cooled, 3-cylinder, Yanmar diesel engine. It provides exceptional power, performance, fuel economy, and durability to handle commercial-use applications. Features include:

Model	HP	Max. Torque	Cooling	Displacement
X495 & X595	24	45.6 ft. lb.	Liquid	61.4 cu. in. (1006 cc)

- 24 percent greater torque than the X475.
- Cast-iron block for improved noise absorption.
- High-energy glow plugs to ensure quick starts in cold weather. Automatic sensing system tells operator when the engine is ready to start.
- Mechanical fuel bleed eliminates the need for tools and fuel leaking onto the ground when bleeding system. —Simply pump the fuel pump on the side of the engine.
- Electric fuel shut-off eliminates the need for a separate kill switch.
- Indirect injection with pre-combustion chambers provide smooth, quiet operation.
- Engine-mounted 20 amp alternator supplies ample regulated charge to the battery.
- Low exhaust emissions for cleaner air (certified to meet 1997 EPA and State of California 1995 standards):
 - OHV design for efficient air flow.
 - Swirl chamber combustion design for efficient combustion.
 - Liquid cooled for more consistent operating temperatures.
 - Closed crankcase ventilation recirculates and burns crankcase hydrocarbons.

AIR INTAKE SYSTEM

Engine intake air is drawn in through screened panels at the base of the pedestal and on right and left sides of tractor.

- Remote intake location is the cleanest and coolest area of the tractor.
- Screened side panel "pre-cleaner" design keeps large chaff and debris from entering the radiator air cleaner.

The X465, X475, X485, X575, and X585 feature an inertial discharge canister with dry-type paper element that is surrounded by a foam pre-cleaner.

- Large dirt particles are ejected before contact with filter.
- Provides dual protection against dirt entering engine.
- Easily removed for cleaning or replacement.
- Recommend air filter be replaced and the pre-cleaner be cleaned annually or every 200 hours (whichever comes first).

X495 and X595 Tractors

The X495 and X595 tractor uses a heavy-duty cyclonic canister-type replaceable air filter.

- Completely sealed for effective cleaning.
- Cyclone action is designed to eject 90 to 95 percent of the dirt before it reaches the paper element.
- Secondary safety element provides additional filtering.
- Total effective filter area is 512 sq. in.



An air filter restriction indicator is standard equipment on the X495 and X595.

- An indicator light on the dash alerts operator when air filter is dirty and needs to be replaced.
- Simplifies air filter daily service with a visual check.
- Extends engine life by eliminating inadvertent dirt entry into the engine from over-servicing of the air filter.

FUEL SYSTEM

All X Series tractors feature a large 6-1/2 U.S. gallon capacity fuel tank for extended operation between refills.

Features include:

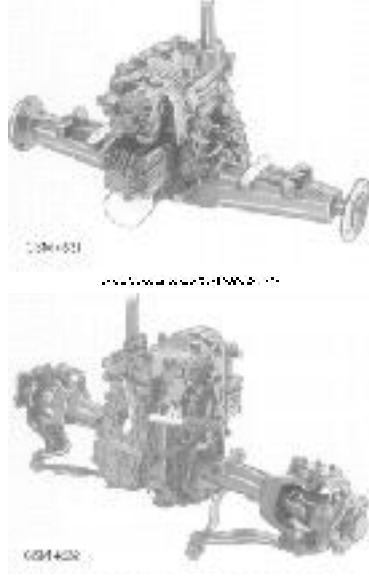
- Offset spout location with a large opening provides increased safety, fewer spills, and convenience during filling.
- In-tank electric fuel pump supplies ample fuel flow to eliminate vapor lock and ensure quick engine starts even after months of storage (not X465, X495, X595).

ELECTRONIC FUEL INJECTION (X485 AND X585 ONLY)

The X485 and X585 engine features electronic fuel injection.

Electronic fuel injection offers the following performance advantages:

- Immediate starting in hot or cold ambient temperatures or after long periods of seasonal storage.
- No choke linkage for customer to operate.
- No engine warmup required so implement can be engaged immediately after engine starts.
- Greater horsepower and torque responsiveness.
- Higher reliability with the elimination of vapor locking, misfiring, run-on, and after burn.
- Automatic altitude compensation.
- Self-diagnostic functions:
 - Engine wait light will flash codes to identify problem area.
- Precise fuel delivery results in:
 - 15 percent fuel savings versus similar hp OHV engines with carburetor.
 - 26 percent less emissions versus similar hp OHV engines with carburetor.
 - Reduces potential for plug fouling.

HYDROSTATIC DRIVETRAIN

All models are equipped with a rugged, heavy-duty commercial hydrostatic transaxle.

- Infinite control of ground speed.

Forward	0 to 8.5 mph
Reverse	0 to 5.0 mph

Features include:

- Universal joint splined drive shaft between engine and transmission for more durable and efficient power transfer (no belts, no slippage, no power loss).
- Shaft drive output through continuous live transmission PTO. No belts to slip or wear out.
- Internal hydraulic PTO with multi-disk clutch pack provides:
 - Soft, smooth clutch engagement.
 - Longer disk life with continuous oil bath.
 - No service required, as disks are self-adjusting.
- Internal wet disk brakes:
 - Isolated from dirt, rust, ice, or other contaminants for effective brake operation.
 - Constantly cooled by transmission fluid to minimize wear and eliminate loss of brakes from overheating.
- Quiet design virtually eliminates "hydrostatic whine."
- Large, efficient 6 cc (2WD models) charge pump produces excellent flow and pressure to allow operating a variety of hydraulic-powered equipment.
- 4WD models utilize an 8 cc pump for even more flow and increased performance.
- Externally mounted, oil-filled shock absorber assures smooth starts and stops.
- Increased strength and durability design with:
 - Automotive-type forged flanged axles.
 - Heavy ribbed aluminum die cast axle housings on two-wheel steer models.
 - Cast-iron axle housings on all all-wheel steer models.
 - Heavy-duty differential support (4WD models).
 - Axial piston-type versus less efficient ball-type rotating groups.

TRANSMISSION OIL COOLER

Transmission oil cooler is standard equipment.

- Helps keep oil temperatures cooler during high draft loading operations.
- Separate automotive-style cooler provides increased capacity for the oil cooler as well as the radiator when compared to oil cooler internal to the radiator.

TWO-PEDAL FOOT CONTROL WITH CRUISE

Two foot pedals control speed and direction of travel (Patent 5,048,638).

- Automotive-type accelerator control for easy operation.
- Twin Touch design allows the operator to change directions without having to lift his foot off the platform.
- Large pedal surface provides increased operator comfort.

When the master stop brake pedal is depressed, the PTO and cruise control disengage.

CRUISE CONTROL

Cruise control is standard on all models.

- To engage, lift up on cruise lever and hold until foot is removed from forward pedal.
- For emergency stop, cruise can be released by pushing on master brake pedal or pushing down on forward pedal.

ELECTRICAL SYSTEM

A high-capacity alternator provides plenty of power to quickly recharge the battery and run electrical equipment such as lights or a sprayer.

- 20 amp output flywheel-type alternator used on X465, X475, X485, X575, X585.
- 20 amp output engine-mounted alternator used on X495 and X595.



An ignition circuit module reduces the number of circuits and connectors in wiring harness for improved electrical reliability.

- Compact design for less under-hood clutter and easier servicing.
- Diagnostic LED lights on circuit board for quick and easy troubleshooting (X485 and X585 only).
- Replaceable 15 amp blade-type fuses are used.

A large-capacity battery provides plenty of cranking capacity for quick, sure starts in cold weather.

- Mounted at the front of the frame for easy accessibility.
- X465, X475, X485, X575, X585 have a generous 340 cold cranking amp battery.
- X495 and X595 are equipped with a 500 cold cranking amp battery.

POWER STEERING

Power steering is standard equipment. It provides effortless, automotive-like control for reduced operator fatigue, increased maneuverability and productivity.

	Two Wheel Steer	All Wheel Steer	4WD
Turning radius	25-in	21-in	48.5-in. (4WD) 28-in. (2WD)
Turns lock-to-lock left	2.3	2.3	2.1
Turns lock-to-lock right	2.6	2.6	2.5

ALL-WHEEL STEERING

All-wheel steering is available on all X400 Series tractors. It provides numerous mowing advantages, which include:

- Tighter trimming. When equipped with a 62C Mower, the minimum uncut circle radius is reduced from 22-in. (a 44-in. diameter circle of grass) for a standard two-wheel-steer tractor to only a 6-in. uncut circle radius for an all-wheel-steer equipped tractor.
- Interference from the tractor and the mower wheels when trimming around objects is eliminated.
- All-wheel-steer provides tighter turns for better maneuverability, which reduces the time spent turning and makes cutting square corners easier.

FRONT AXLE AND WHEEL SPINDLES (X400 MODELS)

Front axle is made of strong and shock resistant nodular cast iron.

- Will not bend or deform, as is possible with steel-formed axles.

Replaceable bushings are used at the center axle pivot and spindles.

- Provide excellent wear resistance.
- Grease zerks provide for easy service and maintenance.



Large, 1-in. (25 mm) diameter wheel spindles are used for durability (X400 models).

- Have the strength to handle heavy front implements.
- Provide long life at bearing surfaces.
- Sealed precision bearings are used in front wheels.

4WD FRONT AXLE (X500 MODELS ONLY)

The 4WD front axle is powered by the hydro motor shaft through an on/off collar and drive shaft.

- Differential assembly allows for smooth turning and provides power to the wheel with the least traction.
- Mechanical 4WD engagement on-the-go (at moderate speeds).
- Works in forward and reverse.

FRAME

Full-length, C-channel steel frame is common to all models. 0.18-in. (4.6 mm) thick steel provides plenty of strength to handle heavy equipment.

Robotically MIG welded.

- Consistent welds for maximum strength.
- No bolts to come loose.

Front Quik-Tatch weight bracket is designed into the frame (Patent 4,969,533).

- Provides a convenient way to add 168 lb. of weight to the front of the tractor using four suitcase weights.
- Extends ahead of the hood to act as a bumper.



Front receiver hitch is designed into the frame.

- Excellent for positioning trailer, boats, etc., in tight quarters.

ERGONOMICALLY DESIGNED OPERATOR STATION

The high-back vinyl-covered seat is standard equipment on X465 and X475 Tractors.

It provides a smooth ride and additional back support for the operator.

- 7-in. of seat travel allows any operator to be seated comfortably and operate the controls easily.
- Seat can be easily adjusted fore and aft by the operator while sitting on the seat.
- 15-in. high-back seat.
- Extramounting holes for 1-in. forward adjustment.



The X465 and X475 seat suspension is adjustable, without tools, for the weight of the operator.

- Seat springs are molded from polyurethane foam. They provide a very smooth ride and will not bottom out when going over bumps.
- Seat springs are adjustable fore and aft without tools, which allows for the fine tuning of the suspension to the weight of the operator.
- Moving the springs to the back position will provide more support for heavier operators.

- An additional set of springs (total of four springs) can be installed so heavier operators can enjoy a smooth ride. Order two (M146683) springs.
- Seat tilts forward to protect it from the elements.



The professional high-back seat is standard on the X485, X495, X575, X585 and X595 Tractors.

- 18-in. high-back seat with lumbar support.
- 4-bar scissor suspension to provide an excellent ride.
- 6-position seat adjustment fore and aft to match a wide variety of operator sizes.
- 7-in. seat travel.
- Seat flips forward to protect it from the elements.
- Extra mounting holes in fender for additional 1-in. forward adjustment.
- Extra mounting holes in suspension for additional 1-in. rearward adjustment.



Tilt steering wheel is standard equipment on all models.

- Six positions can be selected with a push of a lever for the most comfortable setting.
- Steering wheel is designed for comfortable, no-slip operation.



Foot pads help isolate the operator's feet from vibration.

- Provide a non-slip surface when mounting or dismounting the tractor.
- Attractive styling.

CUP HOLDER



The cup holder is designed as part of the toolbox and 12-volt outlet compartment. It is designed to hold a variety of drink container sizes.

RIO (REVERSE IMPLEMENT OPTION)



Mowing while backing up is strongly discouraged.

An operator who deems it necessary and chooses to keep the mower engaged while backing up must lift and hold the PTO switch in the reverse implement position as the reverse pedal is depressed slightly.

The operator can then release the PTO switch and the mower will continue to operate.

This procedure must be repeated the next time the operator chooses to keep the mower (or other PTO-operated equipment) engaged while backing up.

PARKING BRAKE CONTROL

Parking brake control is conveniently located below the key switch on the steering pedestal.

- Holds brake pedal securely in the locked position.

Depressing master stop brake pedal disengages the PTO and cruise control.

- Allows engine to be started.
- Applies wet disk brakes (internal in transmission) for use as a parking brake.

4WD CONTROL

- 4WD lever is located on right fender.
- Shift on-the-go into or out of 2WD or 4WD (at moderate speeds).

MOWER DECK HEIGHT-OF-CUT CONTROL

Depth stop allows setting the mower height from the operator's seat.

- Locks mower in fully raised position so 3-point hitch equipment can be raised or lowered independently of the mower.
- Mower deck returns to the same preset height each time it is lowered.
- Provides a mower cut height range from 1 to 5-1/4-in. for two wheel steer models, and from 1 to 4-1/2-in. for all wheel steer models.
- Indicator informs the operator of the approximate mower cut height.

HEADLIGHTS AND TAILLIGHTS

Large, automotive-type headlights and taillights provide unsurpassed nighttime illumination.

- Standard 37 watt halogen headlights provide excellent nighttime visibility.
- Large automotive-type taillights enhance tractor appearance and safety.
- Standard back-up lights can be turned on full time to double as rear work lights.



Headlights, taillights, and rear worklights are easily operated with a single dash-mounted switch. Back-up lights come on automatically when the operator depresses the reverse pedal.

DIFFERENTIAL LOCK

A foot-operated differential lock supplies positive power to both drive wheels for increased traction.

- Differential lock button is conveniently located on left foot rest for easy engagement (toe versus heel).

OPERATOR PRESENCE SYSTEM

The hydrostatic transmission must be in neutral, brake depressed, PTO disengaged, and ignition key used before tractor will start.

Once the tractor is running, the engine automatically shuts off if the operator leaves the seat with the PTO engaged, brake pedal unlocked, or hydrostatic foot controls out of the neutral position.

TOOLBOX

A toolbox is standard equipment.

- Provides safe and convenient location to store tools and supplies.
- Plastic material is durable and will not rust.

FENDER HANDLES

Fender handles provide a convenient handhold when operating on slopes.

MODERN STYLING

The single-piece hood completely encloses the engine.

- Improves appearance.
- Provides quieter operation.
- Easily removed for easier service accessibility.
- The hood is painted
 - More scratch and scuff resistant than molded-in color.
 - Deep scratches are paint repairable.

Open platform is roomy and uncluttered.

- Makes getting on and off the tractor easy.
- Provides ample legroom with built-in heel pockets for comfortable operation.

INSTRUMENTATION AND CONTROLS

Full instrumentation and automotive-type controls are standard equipment.

- Conveniently located for easy access.
- Color coded for easy identification.

Instrumentation includes:

Gauges:

- Fuel
- Engine coolant temperature (except X465 model)
- Hourmeter

Indicator Lights:

- Engine oil pressure
- Alternator or battery charge
- PTO engagement
- Starting aid (X495 and X595 only)
- EFI diagnostic (X485 and X585 only)
- Park brake
- Air restriction indicator (X495 and X595 only)

HYDRAULIC SYSTEM

Two-function hydraulic control system is standard equipment.

- Allows effortless equipment control with:
 - Raising and lowering.
 - Angling and spout rotation.
 - Control levers are positioned on steering pedestal for quick, easy, and precise fingertip control of equipment.
 - Lower lever has a “float” position to allow front-mounted equipment such as a blade, blower, thrower, or broom to follow the contour of the ground.
 - An optional regen kit is available to enhance loader operation.



All models (except the X465 and X475) come standard with four hydraulic color-coded couplers for easy, quick connections.

The X465 and X475 come standard without couplers.

- Coupler kit can be ordered as a field installed option.

EASY SERVICEABILITY

One-piece hood can be quickly removed, without tools, for easy access to the engine compartment.

Many service checks are made easy with visual inspection:

- Engine coolant level (translucent overflow tank) (except X465 model).
- Air filter restriction indicator (X495 and X595).
- Radiator blockage (debris screen) (except X465 model).

MOWER DECKS

Three mower decks are available for the X Series tractors:

- 48-in. Convertible (48C)
- 54-in. Convertible (54C)
- 62-in. Convertible (62C)

“Convertible” means these mowers are designed to provide excellent performance in and are easily converted to each of the primary mowing modes:

- Side-discharge
- Mulching
- Material collection



The 48C, 54C, and 62C Convertible Mowers use the latest in 3-spindle mowing technology to raise performance to a new level. The 48C, 54C, and 62C deck stampings are all new for the X Series tractors.



Compared to previous designs, the new 48C, 54C and 62C Mowers have design features that allow them to handle more material and also give improved cut quality and more uniform discharge of clippings.

- Mower blade overlap is greater, so striping between blades is less likely. For example, the blade overlap of the 48C is 40 mm compared to 25 mm for the previous 48-in. mower.
- There is more distance between the front wall of the mower deck and the blades. This allows the grass more time to stand up for a clean cut after passing under the front edge of the mower. The increased distance also reduces the amount of blowout of dry grass and leaves from the front edge of the deck.
- The rear surface of the deck above the blades is deeper to give more room above the blades. This allows the mower to handle more material without affecting the cut quality.

DURABILITY



Mowers are formed from thick steel material to prevent damage from heavy use and ensure continued excellent performance and long life.

- The 48C is formed from heavy 3 mm material.
- The 54C and 62C are formed from even heavier 3.4 mm material.

An edge formed around the deck adds strength and stiffness. The turned-up outer edge also helps protect trees and other obstructions from damage if hit by the mower.

PREMIUM MOWER WHEELS



Heavy-duty rotatable wheels contribute to mower performance, durability, and convenience.

- Rubber tire material lasts a long time.
- Grease fittings provided to give long bearing life.
- “Best of both worlds” cutting height gauging system.
 - Mowers can be suspended from tractor with mower wheels set 1/4- to 1/2-in. off the ground.
 - Rear wheels can run on the ground if desired. Wheel height is easily adjusted with spring-loaded pin. In most conditions, the smoothest mowing job is obtained by running all of the mower wheels 1/4- to 1/2-in. off the ground.
 - Anti-scalp rollers are located at the front for additional protection against scalping when mowing uneven ground.

Mower is easy to install and remove.

- Over-center front draft arm provides fast and easy mower installation or removal without tools.
- Mower wheels turn 90 degrees to roll mower out from under the tractor.

MOWER DRIVE SHAFT

X Series mowers are shaft-driven for durability and long life. Attaching the mower drive shaft has been made easier.

- A lock-buck collar stays in place until the shaft is inserted all the way.
- The male end of the shaft has the spline-align feature. The end of the splines are pointed to self-align the two ends of the shaft for easy installation.

Additional features of the commercial-quality convertible mowers include:

- Blade spindles equipped with grease fittings for easy lubrication of bearings.

MULCHING

The mulching attachment for the convertible mowers provides excellent performance.

- Controls clippings at all three blades effectively for improved mulching and more even distribution of mulched clippings.
- Plastic molded parts will not rust.
- The mulching attachment is held in place with wing nuts for easy installation.
- Special mulching blades are included. These blades can also be used for side-discharge mowing and with any of the PowerFlow™ Material Collection Systems, though performance may not be as good as with the standard mower blades.
- The 54C and 62C mulch plugs are made in two pieces. Most side-discharging and material collection can be done by only removing the right half of the plug. This provides additional convenience.

MATERIAL COLLECTION

The 48C, 54C, and 62C Convertible Mowers use a new C-Series High-Performance Power Flow Blower to collect material into a variety of material collection systems.

- 7 Bushel Two-Bag Power Flow Hopper (48C and 54C only)
- 14 Bushel Three-Bag Power Flow Hopper
- 19 Bushel MC519 Power Flow Cart

Features include:

- Blower is hinged to provide easy installation.
- Blower is easy to swing out for easy cleanout.
- The blower fan runs in a clockwise direction (viewed from the right side) to efficiently move material up the chute.

The high-performance Power Flow blowers will work well with either the standard mower blades or the mulching blades.

Durable construction for long life in homeowner or commercial moving applications.

ATTACHMENTS FOR FIELD CONVERSION**48C CONVERTIBLE MOWER (48-in.)**

Mower includes everything needed, including front draft arm assembly, for installation on any X Series tractor.

Bundle	Description
SKU20690	48C Convertible Mower (48-in.)

REPLACEMENT BLADES FOR 48C CONVERTIBLE MOWER

Bundle	Description
M145476	Side-discharge blade, three required
M127673	Mulch blade, three required

MULCHING ATTACHMENT FOR 48C CONVERTIBLE MOWER

The mulching attachment for the 48C Convertible Mower provides excellent performance.

Bundle	Description
BM19868	48C mulch kit, also includes three mulching blades

LEAF BAGGING KIT—For 48C Convertible Mower

Kit contains three bolt-on lips for improved bagging of leaves.

Bundle	Description
BM19894	Leaf bagging kit for 48C Convertible Mower

48C HIGH-PERFORMANCE POWER FLOW™ BLOWER ASSEMBLY—For 48C Convertible Mower

The 48-in. Convertible Mower features a high-performance Power Flow blower assembly.

- Blower is hinged to provide easy installation.
- Blower is easy to swing out for easy cleanout.
- The blower fan runs in a clockwise direction (viewed from the right side) to efficiently move material up the chute.

The high-performance blower will work well with either the standard mower blades or the mulching blades.

For additional information and benefits to the customer, see "7-Bushel, 3-Bag or MC519 Power Flow" in section "Equipment for Riders and Tractors."

54C CONVERTIBLE MOWER (54-in.)

Mower includes everything needed, including front draft arm assembly, for installation on any X Series tractor.

Bundle	Description
SKU20688	54C Convertible Mower (54-in.)

REPLACEMENT BLADES—For 54C Convertible Mower

Bundle	Description
M143520	Side-discharge blade, three required, also for use with Power Flow
M145516	Mulch blade, three required

MULCHING ATTACHMENT—For 54C Convertible Mower

The mulching attachment for the 54C Convertible Mower provides excellent performance.

The mulch plug is made up of two halves. Most side-discharge and material collection jobs can be done by only removing the right half, leaving the left half in place.

Bundle	Description
BM20827	54C mulch kit, also includes three mulching blades

LEAF BAGGING KIT—For 54C Convertible Mower

Kit contains three bolt-on lips for improved bagging of leaves.

Bundle	Description
BM20985	Leaf bagging kit for 54C Convertible Mower

54C HIGH-PERFORMANCE BLOWER ASSEMBLY—For 54C Convertible Mower

The 54-in. Convertible Mower features a high-performance blower assembly.

- Blower is hinged to provide easy installation.
- Blower is easy to swing out for easy cleanout.
- The blower fan runs in a clockwise direction (viewed from the right side) to efficiently move material up the chute.

The high-performance blower will work well with either the standard mower blades or the mulching blades.

For additional information and benefits to the customer, see "7-Bushel, 3-Bag or MCS19 Power Flow" in section "Equipment for Riders and Tractors."

62C CONVERTIBLE MOWER (62-in.)

Mower includes everything needed, including front draft arm assembly, for installation on any X Series tractor.

Bundle	Description
SKU20691	62C Convertible Mower (62-in.)

REPLACEMENT BLADES—For 62C Convertible Mower

Bundle	Description
M14504	Side-discharge blade, three required, also for use with Power Flow
M145719	Mulch blade, three required

MULCHING ATTACHMENT—For 62C Convertible Mower

The mulching attachment for the 62C Convertible Mower provides excellent performance.

The mulch plug is made up of two halves. Most side-discharge and material collection jobs can be done by only removing the right half, leaving the left half in place.

Bundle	Description
BM20939	62C mulch kit, also includes three mulching blades

LEAF BAGGING KIT—For 62C Convertible Mower

Kit contains three bolt-on lips for improved bagging of leaves.

Bundle	Description
BM20986	Leaf bagging kit for 62C Convertible Mower

62C HIGH-PERFORMANCE BLOWER ASSEMBLY—For 62C Convertible Mower

The 62-in. Convertible Mower features a high-performance blower assembly.

- Blower is hinged to provide easy installation.
- Blower is easy to swing out for easy cleanout.
- The blower fan runs in a clockwise direction (viewed from the right side) to efficiently move material up the chute.

The high-performance blower will work well with either the standard mower blades or the mulching blades.

For additional information and benefits to the customer, see "7-Bushel, 3-Bag or MCS19 Power Flow" in section "Equipment for Riders and Tractors."

MOWER DECK LEVELING GAUGE

Allows quick and accurate mower deck leveling and cutting height adjustment.

Bundle	Description
AM130907	Mower deck leveling gauge (2 parts)

L30-310-4

X400 and X500 Series Heavy-Duty Lawn and Garden Tractors

**7-BUSHEL POWER FLOW™ MATERIAL
COLLECTION SYSTEM (48C and 54C Mowers only)**



Provides an efficient means for picking up grass clippings and leaves.

The new hopper design provides modern styling, improved bagging performance, cleaner operation, and easy-to-empty bags.

The 7-Bushel Power Flow Material Collection System features:

- 7-bushel capacity
- Easy-to-attach lower chute
- Air exhaust duct
- Convenient spring-latch
- Airflow fill indicator
- Handle on chute
- Click-N-Go mounting
- Sealed hopper top
- Loose-knit bags available

Refer to "Equipment For Riders and Tractors," 7-Bushel Power Flow, for ordering and additional information.

Bundle	Description
BM20780	7-bushel hopper assembly

**3-BAG 14-BUSHEL POWER FLOW™ MATERIAL
COLLECTION SYSTEM**



Provides an efficient means for picking up grass clippings and leaves.

- Large-capacity 14 bushel hopper.
- Three easy-to-empty bags that slide out with little effort once the hopper cover is opened.
- A gas spring to make opening the cover easy and help keep it open, even on windy days.
- Hopper is Click-N-Go mounted for easy installation or removal in less than two minutes.
- Fill-Minder™ indicator located near the chute handle alerts the operator when the bags are getting full.

Refer to "Equipment For Riders and Tractors," 3-Bag Power Flow, for ordering and additional information.

MC519 MATERIAL COLLECTION SYSTEM

The MC519 is designed to provide the versatility of two products in one—a utility cart or a material collector.

The MC519 Material Collection system provides additional valuable benefits to the customer:

- Connects to tractor without tools in about 15 seconds.
- Non-jackknifing hitch and caster wheels make for easy maneuverability.
- Easy-to-reach handle allows dumping the cart/collector from tractor seat.
- Operator can use the hand grip on front of box for lifting extra-heavy loads.

MC519 is compatible with GT200, GX300, and X Series tractors and non-current 110 through 400 Series lawn and garden tractors.

Refer to "Equipment For Riders and Tractors," MC519 Material Collection System, for ordering and additional information.

CAST-IRON REAR WHEEL WEIGHTS

One or two 50 lb. cast-iron weights may be installed on each rear wheel to provide extra traction and stability.

- Made of durable cast iron and painted John Deere yellow.
- May be installed with wheel in either the narrow or wide position.
- To stack the weights and install two on a wheel, two 1/2x8-in. bolts are required per wheel (not furnished).

Bundle	Description
BMT 972	One 50 lb. cast-iron wheel weight (see below for mounting hardware)

CAST IRON REAR WHEEL STARTER WEIGHTS

72 lb. cast-iron starter weights can be bolted to the outside of the rear wheels for ballast.

Additional 50 lb. cast-iron wheel weights may be bolted to the starter weight.

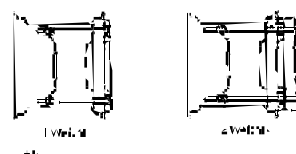
Note: For 26-in. tire and rim only.

Bundle	Description
BMT 973	One 72 lb. starter weight (see below for mounting hardware)

MOUNTING HARDWARE FOR CAST IRON WHEEL WEIGHTS

Notes: Plastic rear wheel weight comes with necessary hardware for installation.

For 50 lb. cast-iron wheel weights on 26x12-in. rear tires:



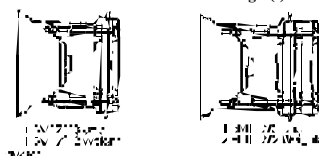
Bundle	Description
BMT 977	For mounting one 50 lb. weight
BM18101	For mounting two 50 lb. weights

For 72 lb. starter cast-iron wheel weight on 26x12-12-in. rear tires:



Bundle	Description
BM18089	For mounting 72 lb. starter weight

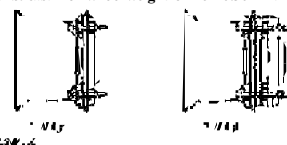
For 72 lb. starter and 50 lb. cast-iron weight(s):



Bundle	Description
BM17977	For mounting one 72 lb. starter and one 50 lb. weight
BM18101	For mounting one 72 lb. starter and two 50 lb. weights

All-Wheel-Steer Tractors

For 50 lb. cast-iron wheel weight on 26x10.50-12 tires:



Note: Plastic wheel weight is not compatible with all-wheel-steer tractors.

Bundle	Description
BM18094	For mounting one 50 lb. weight
BM17977	For mounting two 50 lb. weights

PLASTIC-SHELL REARWHEEL WEIGHT

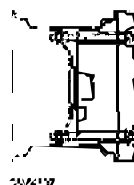


One 50 lb. plastic-shell rear wheel weight may be installed on each rear wheel to provide extra traction and stability.

- Outer shell made of tough polyethylene plastic.
- Filled with a heavy granular material that contains a high iron percentage.
- A bonding substance is added to hold the material together so that it will remain intact even if shell is damaged.

Multiple stacking is not recommended.

Overall width of the tractor will be increased by approximately 2-in. when weights are installed.



Weights are packaged one per carton, with necessary hardware for installation on a wheel, in either the narrow or wide position.

Note: Plastic wheel weights not compatible with all-wheel-steer tractors.

Bundle	Description
BM17976	One plastic-shell rear wheel weight

FRONT WHEEL WEIGHTS

One 30 lb. cast-iron weight may be installed on each front wheel for additional stability when operating on hillsides or with heavy rear equipment.

- Mounting requires drilling two holes in wheel rim.
- Wheel rims have stamped dimples to facilitate easy location of holes.

Bundle	Description
BM17964	One front wheel weight for 18-in. tire (not for X500 Series tractors)
BM17978	One mounting hardware kit

FRONT QUIK-TATCH WEIGHTS

Help counterbalance rear 3-point hitch mounted equipment.

Up to four 42 lb. Quik-Tatch weights can be added to the standard equipment front bumper weight bracket.

Front bumper weight bracket is an integral part of the tractor frame.

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

Bundle	Description
M147986	One weight bracket rod (Parts)
M40461	One spring clip (Parts)
R66949	One 42 lb. Quik-Tatch weight

FRONT WEIGHT BRACKET "9-WEIGHT SPECIAL"

Holds up to nine 42 lb. suitcase weights, for a total of 378 lb.

Weight bracket simply mounts onto the bumper with just two bolts and a retaining rod and spring clips.

Recommended for use of heavy 3-point hitch attachments.

Bundle	Description
BM20957	Front weight bracket "9-weights special"

CLICK-N-GO BRACKETS

Click-N-Go brackets mount on the rear of X Series tractors.

- Allow attachment of various rear attachments such as the rear bagger, tractor trunk, and ballast box.
- Click-N-Go brackets are also compatible with the non-current 425, 445 and 455 Tractors.

Bundle	Description
BM20714	Click-N-Go brackets

REAR CLICK-N-GO WEIGHT BRACKET

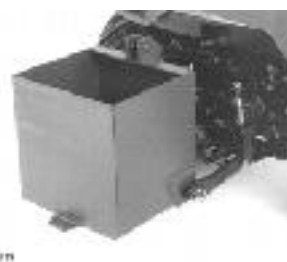
Holds up to six 42 lb. Quik-Tatch weights.
For use with tractors not equipped with a 3-point hitch.

Bundle	Description
BM20779	Rear Click-N-Go weight bracket

REAR QUIK-TATCH WEIGHT BRACKET (CATEGORY 0 THREE-POINT HITCH)

Holds up to six 42 lb. Quik-Tatch weights.
For use with tractor equipped with a three-point hitch.

Bundle	Description
BM16244	Rear Quik-Tatch weight bracket (Category 0 3-point hitch)

BALLAST BOX

Available as field installed attachment to allow adding weight to rear of tractor for improved traction and stability when using 45 Loader and front-mounted implements.

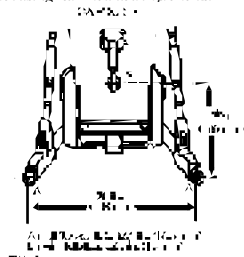
Bundle	Description
BM20715	Ballast box (Click-N-Go)
WPGH B539	Ballast box (frame-mounted) - requires WP612814 brackets
TY20103	Ballast box (Category 0, 3-point hitch shown in photo)
BW14313	Ballast box (Category 1, 3-point hitch)

THREE-POINT HITCH (CATEGORY 0)

The three-point hitch increases versatility of the tractor by providing a common means of mounting a variety of rear equipment.

- Hitch is raised and lowered with tractor hydraulic control lever.
- Left and right screw-type draft arm height adjusters make it easy to level or tilt three-point hitch mounted equipment.
- Hitch is equipped with depth stop that works independently of tractor's mower cut height adjustment for added convenience and versatility.
- Tractor is designed to readily accept the three-point hitch (rear hydraulics, hydraulic cylinder, and rockshaft bearings are standard equipment).
- The depth stop must be locked up when transporting attachments.

Note: Front weights may be needed to stabilize steering when using rear-mounted implements.



Hitch dimensions are shown in the above illustration.

Lower arm lift specifications (Category 0 hitch):

- Maximum low point above ground = 7-in. (178 mm)
- Minimum high point above ground = 20-in. (508 mm)
- Minimum lift range = 13-in. (330 mm)
- Lift capacity 12-in. behind hitch balls = 450 lb. (204 kg)

Bundle	Description
BM17527	Category 0 - 3-point hitch

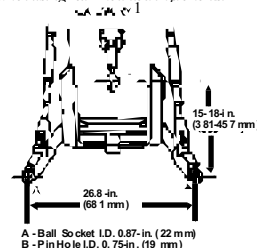
THREE-POINT HITCH (LIMITED CATEGORY 1)



The three-point hitch increases versatility of the tractor by providing a common means of mounting a variety of rear equipment.

- Hitch is raised and lowered with tractor hydraulic control lever
- Right screw-type draft arm height adjuster makes it easy to level or tilt three-point hitch mounted equipment
- Hitch is equipped with depth stop that works independently of tractor's mower cut height adjustment for added convenience and versatility.
- The depth stop must be locked up when transporting attachments.

Note: Front weights may be needed to stabilize steering when using rear-mounted implements.



Hitch dimensions are shown in the above illustration.

Lower arm lift specifications (Category 1 hitch):

- Maximum low point above ground = 8.5-in. (216 mm)
- Minimum high point above ground = 21.5-in. (546 mm)
- Minimum lift range = 13-in. (330 mm)
- Lift capacity 12-in. behind hitch balls = 450 lb. (204 kg)

Bundle	Description
BM21263	Limited Category 1 - 3-point hitch

L30-310-10

X400 and X500 Series Heavy-Duty Lawn and Garden Tractors

ALPHA HITCH



The Alpha Hitch fits all X Series tractors equipped with a Category 1 3-point hitch. It provides easy attachment of 3-point hitch mounted equipment. It is very helpful when used for heavy attachments, such as a rotary tiller or a rear blade, that are difficult to move around manually. Just back into the attachment and raise the 3-point hitch.

- No tools needed.
- Locks in place automatically once correctly positioned.

Bundle	Description
BM20838	Category 1, 3-point hitch alpha hitch, implement side
BM20839	Category 1, 3-point hitch alpha hitch, tractor side

Notes:

- 1) The alpha hitch is not compatible with the 48-in. Box Scraper or Category 1 3-Point Hitch Plow, Single Bottom.
- 2) BM21271 Alpha Hitch Kit / Sprayer Adapter - X Series is required if the alpha hitch is to be used with the Category 1 3-Point-Hitch-Mounted 40 Gallon Sprayer.
- 3) BM21272 Alpha Hitch Kit / Disk Adapter - X Series is required if the alpha hitch is to be used with the Category 1 3-Point-Hitch-Mounted Disk.
- 4) BM21272 Alpha Hitch Kit - X Series is required if the alpha hitch is to be used with the Category 1 3-Point-Hitch-Mounted Cultivator. The weight of the alpha hitch will cause the cultivator to tilt forward when detached from tractor unless the cultivator is supported.

2000 RPM FRONT PTO DRIVE



Required to operate 46-in. Snow Thrower, 47-in. Snow Blower, and 51-in and 60-in. Rotary Broom.

May be utilized to power various 2000 rpm Allied Equipment.

Features include:

- Quik-Tatch design.
- Heavy-duty drive shaft construction.
- Forward bearing support to reduce vibration.

Bundle	Description
BM20991	2WD 2000 rpm front PTO (X400 Tractors)

Note: For homologation tractors, also order BM20966 Front PTO Shield. Required to meet homologation standards. Not required for CE.

BM20882 2000 rpm front PTO (X500 Tractors)

FRONT QUICK-HITCH



Same hitch used on front blade, broom, snow blower, and snow thrower.

Hitch includes hydraulic lift cylinder and hoses.

Bundle	Description
BM19782	Front Quick-Hitch for X400 and X500 Series tractors

HYDRAULIC ANGLING KIT

Allows angling of front blade, rotary broom, or other equipment attached to front Quick-Hitch from tractor 0 to 27 degrees left or right.

X465 and X475 Tractors must be equipped with BM20761 hydraulic coupler kit.

Bundle	Description
BM20837	Hydraulic angling cylinder kit for X400 and X500 Series Tractors

540 RPM REAR PTO DRIVE

Dealer-installed, 540 rpm rear PTO increases the tractor's versatility by providing a means to drive a variety of stationary and three-point hitch mounted power equipment.

- Tillers
- Irrigation pumps
- Salt-sand spreaders
- Sprayers
- Generators

Male spline shaft is an integral part of the 540 rear PTO drive. Equipment must have female driveshaft end.

Installation requires approximately one hour.

Rear PTO is engaged by PTO switch on dash.

- Utilizes tractor's internal hydraulic PTO clutch to assure smooth positive power transfer during engagement.



- The PTO control lever has three positions:
 - Mid PTO only
 - Rear PTO only
 - Mid and rear PTO

Bundle	Description
BM20633	540 rpm rear PTO drive

REAR WHEELS AND TIRES

26x12.00-12 turf tires provide good traction and reduced tire pressure on lawns.

Bundle	Description
BM20955	26x12.00-12 in., 2 PR turf tires and wheels (for X400 All-Wheel-Steer Tractors)
BM18370	26x12.00-12 in., 2 PR turf tires and wheels (for X400 and X500 Two-Wheel-Steer Tractors)



Bar tire

HDAP tire

26x12.00-12 bar and HDAP tires provide extra traction when used with a front blade or similar equipment.

Bundle	Description
BM18369	26x12.00-12-in., 4 PR bar tires and wheels (for X400 Two-Wheel-Steer and X500 Tractors)
BM20953	26x12.00-12-in., 2 PR HDAP tires and wheels (for X500 Tractors)

FRONT WHEELS AND TIRES



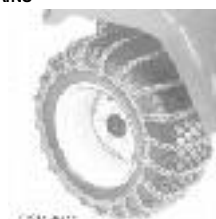
Front tires and wheels are available for field installation.

- 4 PR tires (standard on X Series Tractors) are required for use with a 45 Loader.

Two wheels and tires are included in each bundle.

Bundle	Description
BM20956	18x7.00-8, 4 PR turf front tires and wheels (AWS tractors)
BM18275	18x8.50-8, 4 PR turf front tires and wheels (X400 2WS tractors)
BM20954	18x8.50-10, 4 PR turf front tires and wheels (X500 tractors)
BM20952	18x8.50-10, 4 PR HDAP (heavy-duty all purpose) front tires and wheels (X500 tractors)

TIRE CHAINS



Recommended for extra traction when using attachments such as the snow thrower, snow blower, front blade, and rotary broom.

- Will fit both turf and bar treads.

Bundle	Description
TY25326	Chains for 26x10.50-12-in rear tires
TY15958	Chains for 26x12.00-12-in rear tires

WHEEL COVERS



Give the tractor a deluxe appearance.

- Available in traditional chrome or updated styled yellow plastic material.

Note: 12-in. chrome wheel covers are not compatible with AWS tractor rear wheels.

Bundle	Description
M42183	Chrome front wheel cover, 8-in., two required (Parts) (not for X500 Series)
M42184	Chrome rear wheel cover, 12-in., two required (Parts) (not for AWS tractors)
M96337	Yellow plastic front wheel cover, 8-in., two required (Parts) (not for X500 Series)
M114663	Yellow plastic rear wheel cover, 12-in., two required (Parts)

HYDRAULIC CYLINDER LOCKOUT VALVE

Used to keep tractor rockshaft from moving.

Will allow oil to be routed to front hydraulic outlets rather than to move rockshaft cylinder first.

- Results in faster hydraulic response of implement.
- Comes as standard equipment with front quick-hitch).
- Required if using 450 Tiller (or other 3-point-hitch-mounted equipment) and mower deck combination.
- Required for 45 Loader.
- Required with some Allied Equipment.

Bundle	Description
AM131526	Hydraulic cylinder lockout valve (Parts)

HYDRAULIC COUPLER KIT (X465, X475 Only)

Consists of four quick-disconnect couplers, protective covers, and color-coded decals.

- Standard equipment on X485, X495, and all X500 Tractors.
- For use with hydraulic-controlled equipment such as:
 - John Deere front- and mid-mount blade, snow blower, snow thrower, and rotary brooms.
 - May also be required for some Allied Equipment.

For X465 and X475 Tractors only.

Bundle	Description
BM20761	Hydraulic coupler kit (X465, X475)

SPARK ARRESTER FOR MUFFLER

Available to meet the law in the State of California requiring use of a spark arresting muffler under certain conditions.

Also may apply to dealers in other states and Canada who may need to comply with local ordinances or customer requests.

Note: This law basically requires that purchasers of certain products be given written notice that it is illegal to use such machines on forest-covered, brush-covered, or grass-covered land (except watered lawns) without a spark arrester. For further information on this law, consult No. 4442.5 of the California Public Resources Code.

Bundle	Description
AM108146	Spark arrester for muffler (Parts)

REAR RECEIVER HITCH KIT

Bolts on tractor rear hitch plate to provide a standard 1-1/4-in. x 1-1/4-in. receiver hitch.

Required for BM19635 drawbar kit, BM20808 pintle hitch mounting kit, etc.

Allows use of many standard automotive and utility receiver hitch tools.

Bundle	Description
BM20877	Rear receiver hitch kit

ELECTRIC WINCH KIT

This strong 12-volt winch has an impressive pulling capacity of 2500 lb. (1134 kg). It is equipped with a water-resistant contactor that supplies the amperage required for higher pulling capacities.

- The winch includes a special wiring harness that allows a quick connection to the 12-volt power supply at the center of X Series tractors. The electric lead is long enough so the winch can be used at either the front or rear of the tractor (see *notes* below).
- A 12-ft. lead and water-resistant remote for safe-distance operation is provided.
- A four-way roller fairlead to minimize rope abrasion and pulling resistance is included.

Notes:

- 1) For front mounting, the X Series tractors have the receiver hitch built into the front bumper/weight bracket of the tractor.
- 2) For rear mounting, a rear receiver hitch kit (BM20877) is required.

Code	Bundle	Description
9060M		Winch package kit
9220	VGBI0100	French Canadian label kit

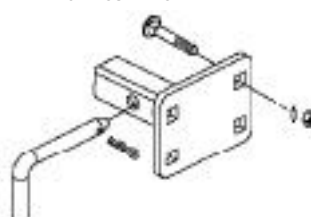
DRAWBAR KIT FOR RECEIVER HITCH

May be used on front or rear of X Series tractors.

Should be ordered for use on rear of tractor when it is desirable to have the hitch hole further back than the standard hitch plate provides.

Note: BM20877 rear receiver hitch kit is required for use of BM19635 drawbar kit for receiver hitch on rear of tractor.

Bundle	Description
BM19635	Drawbar kit for receiver hitch (all X Series tractors) (Parts)

PINTLE HITCH MOUNTING KIT

The pintle hitch mounting kit fits all X Series tractors. It provides a bracket for installing a pintle hitch on the front or rear of X Series tractors. The pintle hitch is convenient for pulling equipment or moving small planes, boats, etc. that are equipped for pintle hitch use.

Bundle	Description
BM20808	Pintle hitch mounting kit (X Series tractors)

Note: If BM20808 pintle hitch mounting bracket is to be used on the rear of the tractor, order BM20877 rear receiver hitch kit also.

The pintle hitch itself must be ordered as follows:



Order PHT60-AL from:

Holland Hitch Co.
Holland, MI 49423
Phone: (616) 396-6501
Fax: (616) 396-1511

ALTERNATOR KIT, 40 AMP (X495, X495AWS, X595 Only)

The 40 amp alternator kit will replace the 20 amp engine-mounted alternator that is standard equipment on the diesel-powered X495, X495AWS, and X595 Tractors. It provides additional electric power for operating attachments, such as a sprayer, and optional equipment like a cab heater, windshield wiper, and lights.

Bundle	Description
BM20990	Alternator kit, 40 amp for X495, X495AWS, and X595

BATTERY CHARGER

This 110-volt trickle charger includes a wiring harness that can be permanently attached to the battery.

- Helps keep battery in good condition and ensures that it is fully charged.
- Particularly useful during winter months when tractor is not being used regularly to ensure that battery stays charged.

Quick-disconnect plug allows the charger to be removed from the tractor when not in use.

Bundle	Description
AM36786	Battery charger kit (Parts)

GRAB LIGHT KIT

The grab light kit includes a 37.5 watt 12-volt light and mounting bracket.

- Mounting bracket can be attached to the tractor's fender handle and plugged into the standard 12-volt accessories outlet.
- The light can be removed from its bracket and used as a hand-held light, then replaced in its mounting bracket instantly, with one hand.

Bundle	Description
BM21375	Grab light kit

BRUSHGUARD KIT

- The brushguard kit mounts to the front frame of the tractor quickly without tools.
- Brushguard kit will easily tilt forward to enable the customer to raise the hood for engine compartment access.

Bundle	Description
BM20880	Brushguard kit

L30-310-16

X400 and X500 Series Heavy-Duty Lawn and Garden Tractors

FRONT LIGHT KIT



The front light kit includes (2) 37.5 watt lights, mounting frame, and wire harness.

- Mounting bracket attaches to the quick-hitch.
- Individual lights can rotate fore and aft and side to side to position the light where the customer wants it.
- Clearance between mounting frame posts allows the hood to tilt forward for access to the engine compartment.

Bundle	Description
BM20753	Front light kit

ENGINE COOLANT HEATER (X495, X495AWS, X595 Only)



Attaches to the engine cylinder block and plugs into a 120-volt electrical outlet to warm the engine for fast cold weather starts. 400 watt rated output.

For X495, X495AWS, and X595 Tractors only.

Bundle	Description
AR87167	Engine coolant heater (Parts)
AM100764	Engine block adapter (X495, X495AWS, X595) for engine coolant heater (Parts)

Jul. 03 Litho in U.S.A.

SURFACE REPAIR KIT (FINESSE-IT™)



The Surface Repair Kit can help add profits to sales of used and new equipment by improving eye appeal of virtually any painted or plastic surface. It works well on molded-in color plastic parts and will often make them look like new without repainting or replacing.

Surface Repair Kit includes:

- Three different buffing compounds
- Finesanding paper and holder for minor repairs
- Buffer and pads for use in a 1/4-in. drill (drill is not included; a variable-speed drill with a speed range of 900-2000 rpms recommended)

The Surface Repair Kit uses 3M FINESSE-IT™ products and can be used to:

- Restore finish and luster on used equipment prior to resale
- Restore original luster to surfaces damaged during handling or while on display
- Restore faded and weathered paint
- Repair scuffs and surface abrasions
- Repair runs and sags on repainted equipment
- Remove water spots and surface discolorations
- Remove "orange peel" or dirt on shop-painted equipment
- Remove overspray

Bundle	Description
AM117074	Surface repair kit (Parts)

SPECIFICATIONS

X400 Series

	X465	X475	X485	X495
Engine:				
Manufacturer	Kawasaki	Kawasaki	Kawasaki	Yanmar
Model number	FH641D	FD671D	FD671D-DFI	3TNE74
Engine horsepower (SAE J1940)	21 hp (15.6 kW)	23 hp (17.1 kW)	25 hp (18.6 kW)	24 hp (17.9 kW)
Peak torque	35.5 ft. lb. @ 2000 rpm	36.5 ft. lb. @ 2000 rpm	36.1 ft. lb. @ 2000 rpm	45.6 ft. lb. @ 2000 rpm
Engine rated speeds:				
Fast idle (no load)	3550 rpm	3550 rpm	3550 rpm	3475 rpm
Low idle (no load)	1600 rpm	1600 rpm	1600 rpm	1600 rpm
Number of cylinders	2	2	2	3
Engine mounting	Quad rubber isolated	Quad rubber isolated	Quad rubber isolated	Quad rubber isolated
Cylinder configuration	V-twin	V-twin	V-twin	In-line, three
Crankshaft alignment	Horizontal	Horizontal	Horizontal	Horizontal
Cycle	4 cycle	4 cycle	4 cycle	4 cycle
Displacement	41.9 cu. in. (675 cc)	45.5 cu. in. (745 cc)	45.5 cu. in. (745 cc)	61.4 cu. in. (1006 cc)
Bore	2.96-in. (75.2 mm)	3.07-in. (78 mm)	3.07-in. (78 mm)	2.91-in. (74 mm)
Stroke	2.99-in. (76 mm)	3.07-in. (78 mm)	3.07-in. (78 mm)	3.07-in. (78 mm)
Compression ratio				
Cylinder material	Cast iron	Cast iron	Cast iron	Cast iron
Block material	Aluminum	Aluminum	Aluminum	Cast iron
Air filter type	Paper with foam pre-cleaner	Paper with foam pre-cleaner	Paper with foam pre-cleaner	Paper dry-type with primary and secondary elements
Air filter effective area	326 sq. in. (2103 cm)	326 sq. in. (2103 cm)	326 sq. in. (2103 cm)	512 sq. in. (3303 cm)
Air filter restriction indicator	None	None	None	Standard direct mount
Crankcase capacity (with filter)	1.6 U.S. qt. (1.8 L)	2.4 U.S. qt. (2.2 L)	2.4 U.S. qt. (2.2 L)	3.0 U.S. qt. (2.8 L)
Lubrication system	Full pressure	Full pressure	Full pressure	Full pressure
Coolant capacity:				
Radiator only	NA	2.3 U.S. qt. (2.1 L)	2.3 U.S. qt. (2.1 L)	2.3 U.S. qt. (2.1 L)
Radiator and block	NA	3.0 U.S. qt. (2.8 L)	3.0 U.S. qt. (2.8 L)	3.0 U.S. qt. (2.8 L)
Fuel consumption @ maximum rpm*:				
34 load	1.2 U.S. gal./hr.	1.2 U.S. gal./hr.	1.2 U.S. gal./hr.	.9 U.S. gal./hr.
* Actual fuel consumption will vary with use and conditions.				
Electrical System:				
Ignition	Electronic	Electronic	Electronic	NA
Type of starter	Solenoid shift	Solenoid shift	Solenoid shift	Solenoid shift
Charging system	Flywheel alternator, 20 amp	Flywheel alternator, 20 amp	Flywheel alternator, 20 amp	Engine-mounted alternator, 20 amp
Battery type	BCI group U1	BCI group U1	BCI group U1	BCI group 45
Battery voltage	12 volt	12 volt	12 volt	12 volt
Battery reserve capacity @ 25 amp	44 minutes	44 minutes	44 minutes	76 minutes
Battery cold cranking amp @ 0°F	340	340	340	500
Headlights:				
Halogen bulbs	Standard	Standard	Standard	Standard
Tail lights/back-up lights/reverse lights	Standard	Standard	Standard	Standard
12 Volt outlet with switch	Standard	Standard	Standard	Standard
Gauges:				
Fuel	Standard	Standard	Standard	Standard
Engine coolant temperature	NA	Standard	Standard	Standard
Hourmeter	Standard	Standard	Standard	Standard
Indicator lights:				
Engine oil pressure	Standard	Standard	Standard	Standard
Park brake light	Standard	Standard	Standard	Standard
Restricted air filter light	NA	NA	NA	Standard
Battery charge	Standard	Standard	Standard	Standard
PTO light front/rear	Standard	Standard	Standard	Standard
Glow plug wait light	Not used	Not used	Not used	Standard
On-board diagnostics	Not used	Not used	Standard	Not used

	X465	X475	X485	X495
Fuel System:				
Fuel tank location	Rear	Rear	Rear	Rear
Fuel tank capacity	6.5 U.S. gal. (24.6 L)	6.5 U.S. gal. (24.6 L)	6.5 U.S. gal. (24.6 L)	6.5 U.S. gal. (24.6 L)
Fuel type	85 octane unleaded gasoline	85 octane unleaded gasoline	85 octane unleaded gasoline	No. 1 or No. 2 diesel
Fuel pump location	On engine	Submerged in tank	Submerged in tank	On engine
Fuel pump type	Pulse type	Peripheral	Turbine	Mechanical diaphragm
Fuel delivery	Fixed jet carburetor	Fixed jet carburetor	Electronic fuel injection	In-line indirect injection
Fuel shutoff	---	---	Electronic	Electronic solenoid
In-line fuel filter	Replaceable 25 micron	Replaceable 25 micron	Replaceable 15 micron	Replaceable 15 micron
In-tank fuel filter	Replaceable 70 micron	Replaceable 70 micron	Replaceable 70 micron	Replaceable 300 micron
Drivetrain:				
Transaxle type	Integrated with transmission	Integrated with transmission	Integrated with transmission	Integrated with transmission
Transaxle manufacturer	Kanzaki	Kanzaki	Kanzaki	Kanzaki
Transmission drive type	Shaft from engine	Shaft from engine	Shaft from engine	Shaft from engine
Hydrostatic transmission type	Axial piston	Axial piston	Axial piston	Axial piston
Number of speeds	Infinite	Infinite	Infinite	Infinite
Travel speeds:				
Forward	0 to 8.5 mph (0 to 13.7 km/h)	0 to 8.5 mph (0 to 13.7 km/h)	0 to 8.5 mph (0 to 13.7 km/h)	0 to 8.5 mph (0 to 13.7 km/h)
Reverse	0 to 5 mph (0 to 8 km/h)	0 to 5 mph (0 to 8 km/h)	0 to 5 mph (0 to 8 km/h)	0 to 5 mph (0 to 8 km/h)
Lubricant capacity with filter:				
2WS	7.0 U.S. qt. (6.6 L)	7.0 U.S. qt. (6.6 L)	7.0 U.S. qt. (6.6 L)	7.0 U.S. qt. (6.6 L)
4WS	6.0 U.S. qt. (5.7 L)	6.0 U.S. qt. (5.7 L)	6.0 U.S. qt. (5.7 L)	NA
Lubricant type	J20D low vis. HyGard	J20D low vis. HyGard	J20D low vis. HyGard	J20D low vis. HyGard
Differential lock	Standard	Standard	Standard	Standard
Cruise control	Standard	Standard	Standard	Standard
Filter	Replaceable suction side 10 micron	Replaceable suction side 10 micron	Replaceable suction side 10 micron	Replaceable suction side 10 micron
Hydraulic System:				
Pump type	Gerotor	Gerotor	Gerotor	Gerotor
Output @ fast idle	4.65 gpm (17.6 L/m) @ 3550 rpm	4.65 gpm (17.6 L/m) @ 3550 rpm	4.65 gpm (17.6 L/m) @ 3550 rpm	4.65 gpm (17.6 L/m) @ 3475 rpm
Main system relief pressure	1000 psi (6860 kPa)	1000 psi (6860 kPa)	1000 psi (6860 kPa)	1000 psi (6860 kPa)
Attachment lift type	Hydraulic two spool (one with float)	Hydraulic two spool (one with float)	Hydraulic two spool (one with float)	Hydraulic two spool (one with float)
Hydraulic couplers(4)	Optional	Optional	Standard	Standard
Brakes:				
Location	Internal transaxle	Internal transaxle	Internal transaxle	Internal transaxle
Type	Wet disk	Wet disk	Wet disk	Wet disk
Steering:				
Type	Power	Power	Power	Power
Tilt wheel	Standard	Standard	Standard	Standard
Turns lock-to-lock:				
2WS	2.4	2.4	2.4	2.4
4WS	2.5	2.5	2.5	2.5
PTO:				
Location	Internal transaxle	Internal transaxle	Internal transaxle	Internal transaxle
Type	Hyd. clutch pack	Hyd. clutch pack	Hyd. clutch pack	Hyd. clutch pack
Control	Electric switch on dash-modulated engagement	Electric switch on dash-modulated engagement	Electric switch on dash-modulated engagement	Electric switch on dash-modulated engagement
RPM:				
Mid and front	2000	2000	2000	2000
Rear (optional)	540	540	540	540

X400 and X500 Series Heavy-Duty Lawn and Garden Tractors

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	X465	X475	X485	X495
Tires:				
Two wheel steer tires:				
Front turf	18x8.50-8, 4 PR	18x8.5-8, 4 PR	18x8.50-8, 4 PR	18x8.50-8, 4 PR
Rear turf	26x12.00-12, 2 PR	26x12.00-12, 2 PR	26x12.00-12, 2 PR	26x12.00-12, 2 PR
Rear bar	26x12.00-12, 4 PR	26x12.00-12, 4 PR	26x12.00-12, 4 PR	26x12.00-12, 4 PR
All wheel steer tires:				
Front turf	18x7.00-8, 2 PR	18x7.00-8, 2 PR	18x7.00-8, 2 PR	18x7.00-8, 2 PR
Rear turf	26x10.50-12, 2 PR (turf)	26x10.50-12, 2 PR (turf)	26x10.50-12, 2 PR (turf)	26x10.50-12, 2 PR (turf)
Inflation pressure:				
Front	10 to 22 psi	10 to 22 psi	10 to 22 psi	10 to 22 psi
Rear	6 to 10 psi	6 to 10 psi	6 to 10 psi	6 to 10 psi
Sound rating (at operator's ear):				
Tractor only at full throttle	79 db(A)	79 db(A)	79 db(A)	88 db(A)
Tractor with 48-in. mower	---	---	---	91.3 db(A)
Tractor with 54-in. mower	---	---	---	91.8 db(A)
Tractor with 62-in. mower	---	---	---	91.7 db(A)
Seat:				
Style	High-back	High-back	Professional high-back	Professional high-back
Suspension	Tilt, 2-coil	Tilt, 2-coil	Tilt, 4-bar parallel arm	Tilt, 4-bar parallel arm
Slide adjustment	Slide rail (14-position, 7-in.)	Slide rail (14-position, 7-in.)	Slide rail (14-position, 7-in.)	Slide rail (14-position, 7-in.)
Height/tilt adjustment	NA	NA	6-way, 3-position in front, 2-position in rear	6-way, 3-position in front, 2-position in rear
Materials:				
Front axle	JDM BA8 nodular iron casting	JDM BA8 nodular iron casting	JDM BA8 nodular iron casting	JDM BA8 nodular iron casting
Front spindles	JDM 15B28 steel (hardened)	JDM 15B28 steel (hardened)	JDM 15B28 steel (hardened)	JDM 15B28 steel (hardened)
Frame side rails	A42 steel 4.5 mm thick	A42 steel 4.5 mm thick	A42 steel 4.5 mm thick	A42 steel 4.5 mm thick
Fender deck	C-channel RIM with in-mold paint	C-channel RIM with in-mold paint	C-channel RIM with in-mold paint	C-channel RIM with in-mold paint
Hood	Noryl GTX902	Noryl GTX902	Noryl GTX902	Noryl GTX902
Front bumper	A13R steel	A13R steel	A13R steel	A13R steel
Rear hitch plate	8 mm JDM 1020 HR P and O steel	8 mm JDM 1020 HR P and O steel	8 mm JDM 1020 HR P and O steel	8 mm JDM 1020 HR P and O steel
Foot pads	Sure-grip rubber	Sure-grip rubber	Sure-grip rubber	Sure-grip rubber
Rear axle shaft	1.34-in. (34 mm) forged steel	1.34-in. (34 mm) forged steel	1.34-in. (34 mm) forged steel	1.34-in. (34 mm) forged steel
Rear axle housings:				
2WS	Die cast aluminum	Die cast aluminum	Die cast aluminum	Die cast aluminum
AWS	Cast iron	Cast iron	Cast iron	Cast iron
Front wheel bearings	Ball	Ball	Ball	Ball
Dimensions:				
Wheelbase (2WS)	54.5-in. (1385 mm)	54.5-in. (1385 mm)	54.5-in. (1385 mm)	54.5-in. (1385 mm)
Wheelbase (AWS)	54.5-in. (1385 mm)	54.5-in. (1385 mm)	54.5-in. (1385 mm)	54.5-in. (1385 mm)
Overall length	75-in. (1905 mm)	75-in. (1905 mm)	75-in. (1905 mm)	75-in. (1905 mm)
Overall height	45.9-in. (1166 mm)	45.9-in. (1166 mm)	51.2-in. (1300 mm)	51.2-in. (1300 mm)
Overall width:				
Tractor only, tires narrow (2WS)	44.8-in. (1138 mm)	44.8-in. (1138 mm)	44.8-in. (1138 mm)	44.8-in. (1138 mm)
Tractor only, tires wide (2WS)	47.0-in. (1195 mm)	47.0-in. (1195 mm)	48.0-in. (1219 mm)	48.0-in. (1219 mm)
Tractor only, tires wide (AWS)	47.0-in. (1195 mm)	47.0-in. (1195 mm)	47.0-in. (1195 mm)	47.0-in. (1195 mm)
With 48-in. mower:				
Deflector up	51.5-in. (1308 mm)	51.5-in. (1308 mm)	51.5-in. (1308 mm)	51.5-in. (1308 mm)
Deflector down	58.5-in. (1486 mm)	58.5-in. (1486 mm)	58.5-in. (1486 mm)	58.5-in. (1486 mm)
With 54-in. mower:				
Deflector up	57.5-in. (1461 mm)	57.5-in. (1461 mm)	57.5-in. (1461 mm)	57.5-in. (1461 mm)
Deflector down	64.5-in. (1638 mm)	64.5-in. (1638 mm)	64.5-in. (1638 mm)	64.5-in. (1638 mm)
With 62-in. mower:				
Deflector up	69-in. (1753 mm)	69-in. (1753 mm)	69-in. (1753 mm)	69-in. (1753 mm)
Deflector down	72.5-in. (1842 mm)	72.5-in. (1842 mm)	72.5-in. (1842 mm)	72.5-in. (1842 mm)

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X400 and X500 Series Heavy-Duty Lawn and Garden Tractors

	X465	X475	X485	X495
Turning Radius:				
Inside rear wheel:				
2WS	25-in (635 mm)	25-in (635 mm)	25-in (635 mm)	25-in (635 mm)
AWS	21-in (533 mm)	21-in (533 mm)	21-in (533 mm)	21-in (533 mm)
Net Weight (no fuel):				
2WS Tractor	830 lb (368 kg)	845 lb (377 kg)	855 lb (382 kg)	995 lb (450 kg)
AWS Tractor	885 lb (400 kg)	905 lb (409 kg)	915 lb (409 kg)	915 lb (409 kg)
Shipping Weight:				
2WS Tractor	1035 lb (470 kg)	1055 lb (479 kg)	1065 lb (484 kg)	1215 lb (552 kg)
AWS Tractor	1095 lb (498 kg)	1115 lb (507 kg)	1125 lb (511 kg)	1275 lb (578 kg)
Mower deck:				
48-in.	208 lb (94.5 kg)	208 lb (94.5 kg)	208 lb (94.5 kg)	208 lb (94.5 kg)
54-in.	218 lb (99.1 kg)	218 lb (99.1 kg)	218 lb (99.1 kg)	218 lb (99.1 kg)
62-in.	277 lb (126 kg)	277 lb (126 kg)	277 lb (126 kg)	277 lb (126 kg)

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L30-320-5

X400 and X500 Series Heavy-Duty Lawn and Garden Tractors

MOWERS

	42-in. Convertible (42-in.)	44-in. Premium Mulcher	48-in. Convertible (48-in.)	54-in. Convertible (54-in.)
Cutting width	42-in. (107 cm)	44-in. (112 cm)	48-in. (122 cm)	54-in. (137 cm)
Overall width, no deflector	N/A	45.7-in. (116.3 cm)	N/A	N/A
Overall width, deflector up	44.8-in. (114 cm)	N/A	54.4-in. (137 cm)	59.7-in. (151.6 cm)
Overall width, deflector down	53-in. (135 cm)	N/A	61.5-in. (156 cm)	67.7-in. (172 cm)
Cutting height	1 to 4-in. (25 to 102 mm)	1 to 4-in. (25 to 102 mm)	1 to 4-in. (25 to 102 mm)	1 to 4-in. (25 to 102 mm)
Number of blades	2	6	3	3
Number of spindle blades	2	3	3	3
Spindle drive	V-belt	V-belt	V-belt	V-belt
Blade orientation	Staggered	Staggered	Staggered	Staggered
Standard blades	Medium lift	Mulching	Medium lift	Medium lift
Deck thickness	2.5 mm, 12 ga.	3 mm, 11 ga.	3 mm, 11 ga.	3.4 mm, 10 ga.
Mower wheels	3	4	4	4
Wheel adjustment	No tools	No tools	No tools	No tools
Front rollers	No	Yes	Yes	Yes
Mulching	Optional	Standard	Optional	Optional
7-Bushel Rear Bagger	Optional	No	No	No
Power Flow Blower	No	No	Optional	Optional
Weight (est.)	86 lb. (39 kg)	125 lb. (57 kg)	117 lb. (53 kg)	150 lb. (68 kg)

Note: For tractor/mower compatibility, see "Non-Current & Current Equipment Cross Reference" section in this sales manual.

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X500 Series

	<u>X575</u>	<u>X585</u>	<u>X595</u>
Engine:			
Manufacturer	Kawasaki	Kawasaki	Yanmar
Model number	FD671D	FD671D-DFI	3TNE74
Engine horsepower (SAE J1940)	23 hp (17.1 kW)	25 hp (18.6 kW)	24 hp (17.9 kW)
Peak torque	36.5 ft. lb. @ 2000 rpm	36.1 ft. lb. @ 2000 rpm	45.6 ft. lb. @ 2000 rpm
Engine rated speeds:			
Fast idle (no load)	3550 rpm	3550 rpm	3475 rpm
Low idle (no load)	1600 rpm	1600 rpm	1600 rpm
Number of cylinders	2	2	3
Engine mounting	Quad rubber isolated	Quad rubber isolated	Quad rubber isolated
Cylinder configuration	V-twin	V-twin	In-line, three
Crankshaft alignment	Horizontal	Horizontal	Horizontal
Cycle	4 cycle	4 cycle	4 cycle
Displacement	45.5 cu. in. (745 cc)	45.5 cu. in. (745 cc)	61.4 cu. in. (1006 cc)
Bore	3.07-in. (78 mm)	3.07-in. (78 mm)	2.91-in. (74 mm)
Stroke	3.07-in. (78 mm)	3.07-in. (78 mm)	3.07-in. (78 mm)
Compression ratio	8.0:1	8.0:1	8.0:1
Cylinder material	Cast iron	Cast iron	Cast iron
Block material	Aluminum	Aluminum	Cast iron
Air filter type	Paper with foam pre-cleaner	Paper with foam pre-cleaner	Paper dry-type with primary and secondary elements
Air filter effective area	326 sq. in. (2103 cm ²)	326 sq. in. (2103 cm ²)	512 sq. in. (3303 cm ²)
Air filter restriction indicator	None	None	Standard direct mount
Crankcase capacity (with filter)	2.4 U.S. qt. (2.2 L)	2.4 U.S. qt. (2.2 L)	3.0 U.S. qt. (2.8 L)
Lubrication system	Full pressure	Full pressure	Full pressure
Coolant capacity:			
Radiator only	2.3 U.S. qt. (2.1 L)	2.3 U.S. qt. (2.1 L)	2.3 U.S. qt. (2.1 L)
Radiator and block	3.0 U.S. qt. (2.8 L)	3.0 U.S. qt. (2.8 L)	3.0 U.S. qt. (2.8 L)
Fuel consumption @ maximum rpm*:			
3/4 load	1.2 U.S. gal./hr.	1.2 U.S. gal./hr.	9 U.S. gal./hr.
<i>* Actual fuel consumption will vary with use and conditions.</i>			
Electrical System:			
Ignition	Electronic	Electronic	NA
Type of starter	Solenoid shift	Solenoid shift	Solenoid shift
Charging system	Flywheel alternator, 20 amp	Flywheel alternator, 20 amp	Engine-mounted alternator, 20 amp
Battery type	BCI group U1	BCI group U1	BCI group 45
Battery voltage	12 volt	12 volt	12 volt
Battery reserve capacity @ 25 amp	44 minutes	44 minutes	76 minutes
Battery cold cranking amp @ 0°F	340	340	500
Headlights:			
Halogen bulbs	Standard	Standard	Standard
Tail lights/backup lights/reverse lights	Standard	Standard	Standard
12-volt outlet with switch	Standard	Standard	Standard
Gauges:			
Fuel	Standard	Standard	Standard
Engine coolant temperature	Standard	Standard	Standard
Hourmeter	Standard	Standard	Standard
Indicator lights:			
Engine oil pressure	Standard	Standard	Standard
Park brake light	Standard	Standard	Standard
Restricted air filter light	NA	NA	Standard
Battery charge	Standard	Standard	Standard
PTO light front/rear	Standard	Standard	Standard
Glow plug wait light	Not used	Not used	Standard
On-board diagnostics	NA	Standard	NA

	X575	X585	X595
Fuel System:			
Fuel tank location	Rear	Rear	Rear
Fuel tank capacity	6.5 U.S. gal. (24.6 L)	6.5 U.S. gal. (24.6 L)	6.5 U.S. gal. (24.6 L)
Fuel type	85 octane unleaded gasoline	85 octane unleaded gasoline	No. 1 or No. 2 diesel
Fuel pump location	Submerged in tank	Submerged in tank	On engine
Fuel pump type	Peripheral	Turbine	Mechanical diaphragm
Fuel delivery	Fixed jet carburetor	Electronic fuel injection	In-line indirect injection
Fuel shutoff	---	Electronic	Electronic solenoid
In-line fuel filter	Replaceable 25 micron	Replaceable 15 micron	Replaceable 15 micron
In-tank fuel filter	Replaceable 70 micron	Replaceable 70 micron	Replaceable 300 micron
Drivetrain:			
Transaxle type	Integrated with transmission	Integrated with transmission	Integrated with transmission
Transaxle manufacturer	Kawasaki	Kawasaki	Kawasaki
Transmission drive type	Shaft from engine	Shaft from engine	Shaft from engine
Hydrostatic transmission type	Axial piston	Axial piston	Axial piston
4WD drive type	Shaft from transaxle	Shaft from transaxle	Shaft from transaxle
Number of speeds	Infinite	Infinite	Infinite
Travel speeds:			
Forward	0 to 8.5 mph (0 to 13.7 km/h)	0 to 8.5 mph (0 to 13.7 km/h)	0 to 8.5 mph (0 to 13.7 km/h)
Reverse	0 to 5 mph (0 to 8 km/h)	0 to 5 mph (0 to 8 km/h)	0 to 5 mph (0 to 8 km/h)
Lubricant capacity with filter:			
4WD	7.0 U.S. qt. (6.6 L)	7.0 U.S. qt. (6.6 L)	7.0 U.S. qt. (6.6 L)
Lubricant type	J20D low vis. HyGard	J20D low vis. HyGard	J20D low vis. HyGard
Differential lock	Standard	Standard	Standard
Cruise control	Standard	Standard	Standard
Filter	Replaceable suction side 10 micron	Replaceable suction side 10 micron	Replaceable suction side 10 micron
Hydraulic System:			
Pump type	Gerotor	Gerotor	Gerotor
Output @ fast idle	6.2 gpm (23.4 l/m) @ 3550 rpm	6.2 gpm (23.4 l/m) @ 3550 rpm	6.2 gpm (23.4 l/m) @ 3475 rpm
Main system relief pressure	1000 psi (6860 kPa)	1000 psi (6860 kPa)	1000 psi (6860 kPa)
Attachment lift type	Hydraulic two spool (one with float)	Hydraulic two spool (one with float)	Hydraulic two spool (one with float)
Hydraulic couplers (4)	Standard	Standard	Standard
Brakes:			
Location	Internal transaxle	Internal transaxle	Internal transaxle
Type	Wet disk	Wet disk	Wet disk
Steering:			
Type	Power	Power	Power
Tilt wheel	Standard	Standard	Standard
Turns lock-to-lock left	2.1	2.1	2.1
Turns lock-to-lock right	2.5	2.5	2.5
PTO:			
Location	Internal transaxle	Internal transaxle	Internal transaxle
Type	Hyd. clutch pack	Hyd. clutch pack	Hyd. clutch pack
Control	Electric switch on dash- modulated engagement	Electric switch on dash- modulated engagement	Electric switch on dash- modulated engagement
RPM:			
Mid and front	2000	2000	2000
Rear (optional)	540	540	540
Tires:			
Standard wheels & tires:			
Front turf	18x8.5-10, 4 PR	18x8.5-10, 4 PR	18x8.5-10, 4 PR
Rear turf (not standard on X575)	26x12.00-12, 2 PR	26x12.00-12, 2 PR	26x12.00-12, 2 PR
Optional wheels & tires:			
Front HDAP	18x8.5-10, 4 PR	18x8.5-10, 4 PR	18x8.5-10, 4 PR
Rear HDAP	26x12.00-12, 2 PR	26x12.00-12, 2 PR	26x12.00-12, 2 PR
Inflation pressure:			
Front	10 to 22 psi	10 to 22 psi	10 to 22 psi
Rear	6 to 10 psi	6 to 10 psi	6 to 10 psi

	X400	X500	X505
Sound rating (at operator's ear):			
Tractor only at full throttle	79 db(A)	79 db(A)	88 db(A)
Tractor with 48-in. mower	---	---	91.3 db(A)
Tractor with 54-in. mower	---	---	91.8 db(A)
Tractor with 62-in. mower	---	---	91.7 db(A)
Seat:			
Style	High-back	Professional high-back	Professional high-back
Suspension	Tilt, 2-coil	Tilt, 4-bar parallel arm	Tilt, 4-bar parallel arm
Slide adjustment	Slide rail (14-position, 7-in.)	Slide rail (14-position, 7-in.)	Slide rail (14-position, 7-in.)
Height/tilt adjustment	6-way, 3-position in front, 2-position in rear	6-way, 3-position in front, 2-position in rear	6-way, 3-position in front, 2-position in rear
Materials:			
Front axle	Cast iron	Cast iron	Cast iron
Frame side rails	A42 steel 4.5 mm thick C-channel	A42 steel 4.5 mm thick C-channel	A42 steel 4.5 mm thick C-channel
Fender deck	RIM with in-mold paint	RIM with in-mold paint	RIM with in-mold paint
Hood	Noryl GTX902	Noryl GTX902	Noryl GTX902
Front bumper	A13R steel	A13R steel	A13R steel
Rear hitch plate	8 mm JDM 1020 HR P and O steel	8 mm JDM 1020 HR P and O steel	8 mm JDM 1020 HR P and O steel
Foot pads	Sure-grip rubber	Sure-grip rubber	Sure-grip rubber
Rear axle shaft	1.34-in. (34 mm) forged steel	1.34-in. (34 mm) forged steel	1.34-in. (34 mm) forged steel
Rear axle housings:			
2WS	Die cast aluminum	Die cast aluminum	Die cast aluminum
Front wheels bearings	Ball	Ball	Ball
Dimensions:			
Wheelbase	55.7-in. (1415 mm)	55.7-in. (1415 mm)	55.7-in. (1415 mm)
Overall length	75-in. (1905 mm)	75-in. (1905 mm)	75-in. (1905 mm)
Overall height	51.2-in. (1300 mm)	51.2-in. (1300 mm)	51.2-in. (1300 mm)
Overall width:			
Tractor only	46.8-in. (1188 mm)	46.8-in. (1188 mm)	46.8-in. (1188 mm)
With 48-in. mower:			
Deflector up	51.5-in. (1308 mm)	51.5-in. (1308 mm)	51.5-in. (1308 mm)
Deflector down	58.5-in. (1486 mm)	58.5-in. (1486 mm)	58.5-in. (1486 mm)
With 54-in. mower:			
Deflector up	57.5-in. (1461 mm)	57.5-in. (1461 mm)	57.5-in. (1461 mm)
Deflector down	64.5-in. (1638 mm)	64.5-in. (1638 mm)	64.5-in. (1638 mm)
With 62-in. mower:			
Deflector up	69-in. (1753 mm)	69-in. (1753 mm)	69-in. (1753 mm)
Deflector down	72.5-in. (1842 mm)	72.5-in. (1842 mm)	72.5-in. (1842 mm)
Turning Radius:			
Inside rear wheel:			
2WD mode	28-in. (635 mm)	28-in. (635 mm)	28-in. (635 mm)
4WD mode	48.5-in. (1232 mm)	48.5-in. (1232 mm)	48.5-in. (1232 mm)
Net Weight (no fuel):			
Tractor	925 lb. (416 kg)	955 lb. (430 kg)	1080 lb. (498 kg)
Shipping Weight:			
Tractor	1140 lb. (518 kg)	1170 lb. (532 kg)	1320 lb. (600 kg)
Mower deck			
48-in.	208 lb. (94.5 kg)	208 lb. (94.5 kg)	208 lb. (94.5 kg)
54-in.	218 lb. (99.1 kg)	218 lb. (99.1 kg)	218 lb. (99.1 kg)
62-in.	277 lb. (126 kg)	277 lb. (126 kg)	277 lb. (126 kg)