5036D, 5038D, 5039D, 5042D, 5045D, 5047D, 5050D, 5105, 5305, 5205 and 5005 Tractors (Worldwide Edition)

REPAIR TECHNICAL MANUAL

5036D, 5038D, 5039D, 5042D, 5045D, 5047D, 5050D, 5105, 5305, 5205 and 5005 Tractors (Worldwide Edition)

TM900719 21MAY21 (ENGLISH)

For complete service information also see:

Component Technical Manuals 3029 Engine....	**CTM125**
Alternators and Starting Motors	**CTM77**

John Deere India Pvt. Ltd
PRINTED IN U.S.A.

Introduction

Foreword

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.

This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

DX,TMIFC -19-15APR14-1/1

Product and Market Identification

- 5036D, 5038D, 5039D, 5042D, 5045D, 5047D, 5050D, 5105 and 5305 Tractors- For Worldwide.

APY44448 —UN—19JAN21

5050D Bigger Tire

VP27597,0001796 -19-19JAN21-1/1

Contents

Continued on next page

Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

Section 10
General Information

Contents

Continued on next page

Recognize Safety Information

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

T81389 —UN—28JUN13

DX,ALERT -19-29SEP98-1/1

Understand Signal Words

DANGER; The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION; The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

TS187 —19—30SEP88

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL -19-05OCT16-1/1

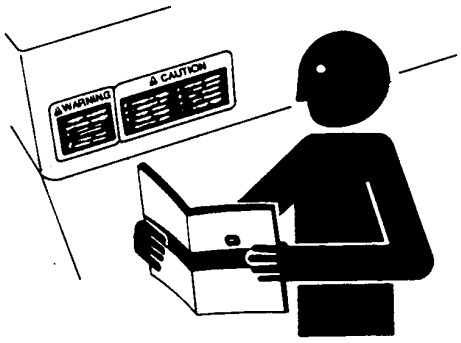
Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



TS201 —UN—15APR13

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.

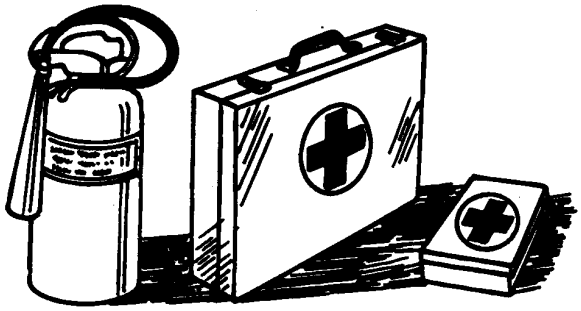
DX,READ -19-16JUN09-1/1

Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



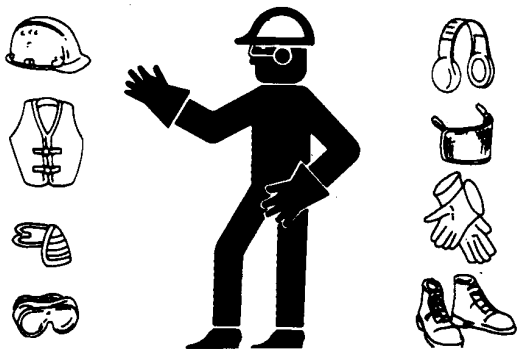
TS291 —UN—15APR13

DX,FIRE2 -19-03MAR93-1/1

Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



TS206 —UN—15APR13

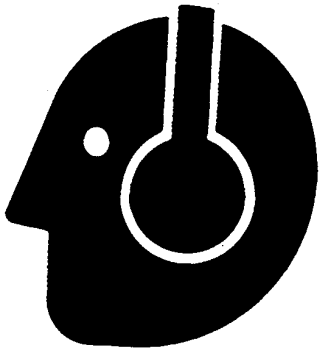
DX,WEAR2 -19-03MAR93-1/1

Protect Against Noise

There are many variables that affect the sound level range, including machine configuration, condition and maintenance level of the machine, ground surface, operating environmental, duty cycles, ambient noise, and attachments.

Exposure to loud noise can cause impairment or loss of hearing.

Always wear hearing protection. Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



TS207 —UN—23AUG88

DX,NOISE -19-03OCT17-1/1

Handle Fuel Safely—Avoid Fires

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.

Use only an approved fuel container for transporting flammable liquids.

Never fill fuel container in pickup truck with plastic bed liner. Always place fuel container on ground before refueling. Touch fuel container with fuel dispenser nozzle before removing can lid. Keep fuel dispenser nozzle in contact with fuel container inlet when filling.

TS202 —UN—23AUG88

Do not store fuel container where there is an open flame, spark, or pilot light such as within a water heater or other appliance.

DX,FIRE1 -19-12OCT11-1/1

Handle Starting Fluid Safely

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. Keep starting fluid away from batteries and cables.

To prevent accidental discharge when storing the pressurized can, keep the cap on the container, and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.

Do not use starting fluid on an engine equipped with glow plugs or an air intake heater.

TS1356 —UN—18MAR92

DX,FIRE3 -19-14MAR14-1/1

Fire Prevention

To reduce the risk of fire, your tractor should be regularly inspected and cleaned.

- Birds and other animals may build nests or bring other flammable materials into the engine compartment or onto the exhaust system. The tractor should be inspected and cleaned prior to the first use each day.
- A build up of grass, crop material and other debris may occur during normal operation. This is especially true when operating in very dry conditions or conditions where airborne crop material or crop dust is present. Any such build up must be removed to ensure proper machine function and to reduce the risk of fire. The tractor must be inspected and cleaned periodically throughout the day.
- Regular and thorough cleaning of the tractor combined with other routine maintenance procedures listed in the Operator's Manual greatly reduce the risk of fire and the chance of costly downtime.
- Do not store fuel container where there is an open flame, spark, or pilot light such as within a water heater or other appliance.
- Check fuel lines, tank, cap, and fittings frequently for damage, cracks or leaks. Replace if necessary.

Follow all operational and safety procedures posted on the machine and the Operator's Manual. Be careful of hot engine and exhaust components during inspection and cleaning. Before carrying out any inspection or cleaning, always shut OFF the engine, place the transmission in PARK or set parking brake, and remove the key. Removal of the key will prevent others from starting the tractor during inspection and cleaning.

DX,WW,TRACTOR,FIRE,PREVENTION -19-12OCT11-1/1

In Case of Fire

CAUTION: Avoid personal injury.

Stop machine immediately at the first sign of fire. Fire may be identified by the smell of smoke or sight of flames. Because fire grows and spreads rapidly, get off the machine immediately and move safely away from the fire. Do not return to the machine! The number one priority is safety.

Call the fire department. A portable fire extinguisher can put out a small fire or contain it until the fire department arrives; but portable extinguishers have limitations. Always put the safety of the operator and bystanders first. If attempting to extinguish a fire, keep your back to the wind with an unobstructed escape path so you can move away quickly if the fire cannot be extinguished.

Read the fire extinguisher instructions and become familiar with their location, parts, and operation before a fire starts. Local fire departments or fire equipment distributors may offer fire extinguisher training and recommendations.

If your extinguisher does not have instructions, follow these general guidelines:

TS227 —UN—15APR13

1. Pull the pin. Hold the extinguisher with the nozzle pointing away from you, and release the locking mechanism.
2. Aim low. Point the extinguisher at the base of the fire.
3. Squeeze the lever slowly and evenly.
4. Sweep the nozzle from side-to-side.

DX,FIRE4 -19-22AUG13-1/1

Avoid Static Electricity Risk When Refueling

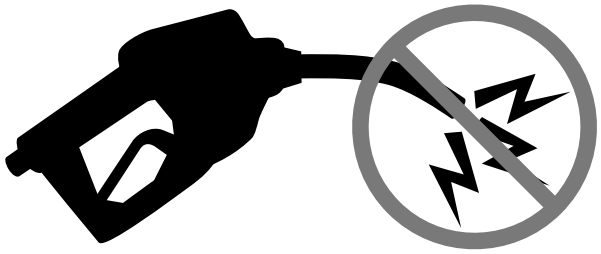
The removal of sulfur and other compounds in Ultra-Low Sulfur Diesel (ULSD) fuel decreases its conductivity and increases its ability to store a static charge.

Refineries may have treated the fuel with a static dissipating additive. However, there are many factors that can reduce the effectiveness of the additive over time.

Static charges can build up in ULSD fuel while it is flowing through fuel delivery systems. Static electricity discharge when combustible vapors are present could result in a fire or explosion.

Therefore, it is important to ensure that the entire system used to refuel your machine (fuel supply tank, transfer pump, transfer hose, nozzle, and others) is properly grounded and bonded. Consult with your fuel or fuel system supplier to ensure that the delivery system is in compliance with fueling standards for proper grounding and bonding practices.

RG22142 —UN—17MAR14



RG21992 —UN—21AUG13

DX,FUEL,STATIC,ELEC -19-12JUL13-1/1

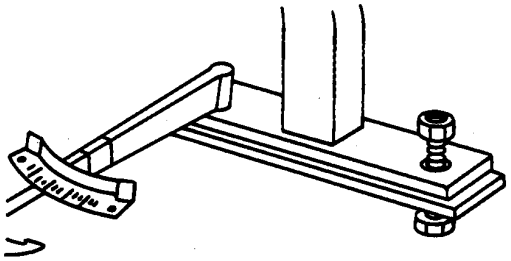
Keep ROPS Installed Properly

Make certain all parts are reinstalled correctly if the roll-over protective structure (ROPS) is loosened or removed for any reason. Tighten mounting bolts to proper torque.

The protection offered by ROPS will be impaired if ROPS is subjected to structural damage, is involved in an overturn incident, or is in any way altered by welding, bending, drilling, or cutting. A damaged ROPS should be replaced, not reused.

The seat is part of the ROPS safety zone. Replace only with John Deere seat approved for your tractor.

Any alteration of the ROPS must be approved by the manufacturer.



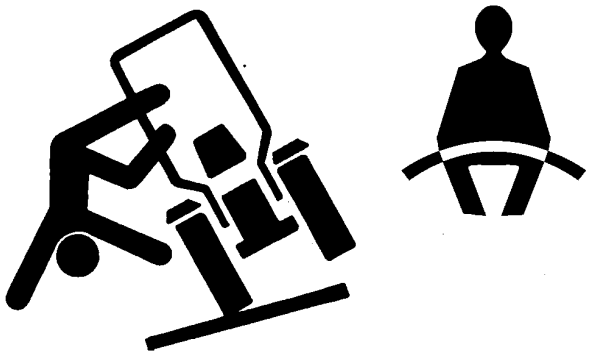
TS212 —UN—23AUG88

DX,ROPS3 -19-12OCT11-1/1

Use Foldable ROPS and Seat Belt Properly

Avoid crushing injury or death during rollover.

- If this machine is equipped with a foldable rollover protective structure (ROPS), keep the ROPS in the fully extended and locked position. USE a seat belt when you operate with a ROPS in the fully extended position.
  - Hold the latch and pull the seat belt across the body.
  - Insert the latch into the buckle. Listen for a click.
  - Tug on the seat belt to make sure that the belt is securely fastened.
  - Snug the seat belt across the hips.
- If this machine is operated with the ROPS folded (for example, to enter a low building), drive with extreme caution. DO NOT USE a seat belt with the ROPS folded.
- Return the ROPS to the raised, fully extended position as soon as the machine is operated under normal conditions.



TS1729 —UN—24MAY13

DX,FOLDROPS -19-22AUG13-1/1

Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.

Only use power take-off driveshafts with adequate guards and shields.

Wear close fitting clothing. Stop the engine and be sure that PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.

Do not install any adapter device between the tractor and the primary implement PTO driveshaft that will allow a 1000 rpm tractor shaft to power a 540 rpm implement at speeds higher than 540 rpm.

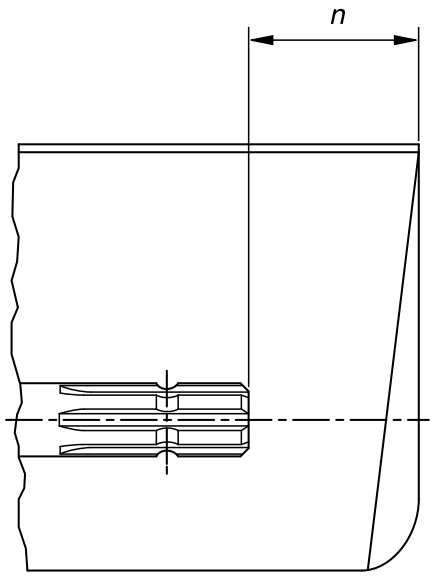
Do not install any adapter device that results in a portion of the rotating implement shaft, tractor shaft, or the adapter to be unguarded. The tractor master shield shall overlap the end of the splined shaft and the added adaptor device as outlined in the table.

The angle at which the primary implement PTO driveshaft can be inclined may be reduced depending on the shape and size of the tractor master shield and the shape and size of the guard of the primary implement PTO driveshaft.

Do not raise implements high enough to damage the tractor master shield or guard of primary implement PTO driveshaft. Detach the PTO driveline shaft if it is necessary to increase implement height. (See Attching/Detaching PTO Driveline)

When using Type 3/4 PTO, inclination and turning angles may be reduced depending on type of PTO master shield and coupling rails.

TS1644 —UN—22AUG95



H96219 —UN—29APR10

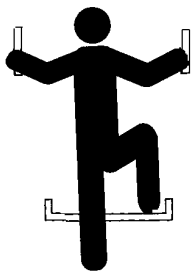
PTO Type	Diameter	Splines	n ± 5 mm (0.20 in.)
1	35 mm (1.378 in.)	6	85 mm (3.35 in.)
2	35 mm (1.378 in.)	21	85 mm (3.35 in.)
3	45 mm (1.772 in.)	20	100 mm (4.00 in.)
4	57.5 mm (2.264 in.)	22	100 mm (4.00 in.)

DX,PTO -19-28FEB17-1/1

Use Steps and Handholds Correctly

Prevent falls by facing the machine when getting on and off. Maintain 3-point contact with steps, handholds, and handrails.

Use extra care when mud, snow, or moisture present slippery conditions. Keep steps clean and free of grease or oil. Never jump when exiting machine. Never mount or dismount a moving machine.



T133468 —UN—15APR13

DX,WW,MOUNT -19-12OCT11-1/1

Read Operator's Manuals for ISOBUS Controllers

In addition to GreenStar™ Applications, this display can be used as a display device for any ISOBUS Controller that meets ISO 11783 standard. This includes capability to control ISOBUS implements. When used in this manner, information and control functions placed on the display are provided by the ISOBUS Controller and are the responsibility of the ISOBUS Controller manufacturer.

GreenStar is a trademark of Deere & Company

Some of these functions could pose a hazard to either the operator or a bystander. Read the Operator's Manual provided by the ISOBUS Controller manufacturer and observe all safety messages in manual and on ISOBUS Controller product prior to use.

NOTE: ISOBUS refers to the ISO Standard 11783

DX,WW,ISOBUS -19-15JUL15-1/1

Use Seat Belt Properly

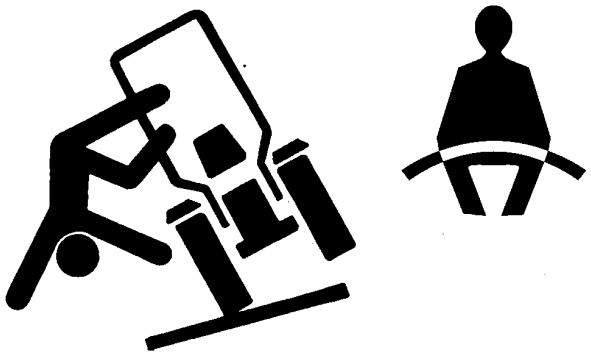
Avoid crushing injury or death during rollover.

This machine is equipped with a rollover protective structure (ROPS). USE a seat belt when you operate with a ROPS.

- Hold the latch and pull the seat belt across the body.
- Insert the latch into the buckle. Listen for a click.
- Tug on the seat belt latch to make sure that the belt is securely fastened.
- Snug the seat belt across the hips.

Replace entire seat belt if mounting hardware, buckle, belt, or retractor show signs of damage.

Inspect seat belt and mounting hardware at least once a year. Look for signs of loose hardware or belt damage, such as cuts, fraying, extreme or unusual wear, discoloration, or abrasion. Replace only with replacement parts approved for your machine. See your John Deere dealer.



TS1729 —UN—24MAY13

DX,ROPS1 -19-22AUG13-1/1

Operating the Tractor Safely

You can reduce the risk of accidents by following these simple precautions:

- Use your tractor only for jobs it was designed to perform, for example, pushing, pulling, towing, actuating, and carrying a variety of interchangeable equipment designed to conduct agricultural work.
- Operators must be mentally and physically capable of accessing the operator's station and/or controls, and operating the machine properly and safely.
- Never operate machine when distracted, fatigued, or impaired. Proper machine operation requires the operator's full attention and awareness.
- This tractor is not intended to be used as a recreational vehicle.
- Read this operator's manual before operating the tractor and follow operating and safety instructions in the manual and on the tractor.
- Follow operation and ballasting instructions found in the operator's manual for your implements/attachments, such as front loaders.
- Follow the instructions outlined in the operator's manual of any mounted or trailed machinery or trailer. Do not operate a combination of tractor-machine or tractor-trailer unless all instructions have been followed.
- Make sure that everyone is clear of machine, attached equipment, and work area before starting engine or operation.
- Stay clear of the three-point linkage and pickup hitch (if equipped) when controlling them.
- Keep hands, feet, and clothing away from power-driven parts.

Driving Concerns

- Never get on or off a moving tractor.
- Complete any required training prior to operating vehicle.
- Keep all children and nonessential personnel off tractors and all equipment.
- Never ride on a tractor unless seated on a John Deere approved seat with a seat belt.
- Keep all shields/guards in place.
- Use appropriate visual and audible signals when operating on public roads.
- Move to side of road before stopping.
- Reduce speed when turning, applying individual brakes, or operating around hazards on rough ground or steep slopes.
- Stability degrades when attached implements are at high position.
- Couple brake pedals together for road travel.
- Pump brakes when stopping on slippery surfaces.
- Regularly clean fenders and fender valances (mud flaps) if installed. Remove dirt before driving on public roadways.

Heated and Ventilated Operator's Seat

- An overheated seat heater can cause a burn injury or damage to the seat. To reduce the risk of burns, use caution when using the seat heater for extended periods of time, especially if the operator cannot feel temperature change or pain to the skin. Do not place objects on the seat, such as a blanket, cushion, cover, or similar item, which can cause the seat heater to overheat.

Towing Loads

- Be careful when towing and stopping heavy loads. Stopping distance increases with speed and weight of towed loads, and on slopes. Towed loads with or without brakes that are too heavy for the tractor or are towed too fast can cause loss of control.
- Consider the total weight of the equipment and its load.
- Hitch towed loads only to approved couplings to avoid rearward upset.

Parking and Leaving the Tractor

- Before dismounting, shut off SCVs, disengage PTO, stop engine, lower implements/attachments to ground, place implement/attachment control devices in neutral, and securely engage park mechanism, including the park pawl and park brake. In addition, if the tractor is left unattended, remove key.
- Leaving transmission in gear with engine off will NOT prevent the tractor from moving.
- Never go near an operating PTO or an operating implement.
- Wait for all movement to stop before servicing machinery.

Common Accidents

Unsafe operation or misuse of the tractor can result in accidents. Be alert to hazards of tractor operation.

The most common accidents involving tractors are:

- Tractor rollover
- Collisions with motor vehicles
- Improper starting procedures
- Entanglement in PTO shafts
- Falling from tractor
- Crushing and pinching during hitching

DX,WW,TRACTOR -19-08MAY19-1/1

Avoid Backover Accidents

Before moving machine, be sure that all persons are clear of machine path. Turn around and look directly for best visibility. Use a signal person when backing if view is obstructed or when in close quarters.

Do not rely on a camera to determine if personnel or obstacles are behind the machine. The system can be limited by many factors including maintenance practices, environmental conditions, and operating range.

PC10857XW —UN—15APR13

DX,AVOID,BACKOVER,ACCIDENTS -19-30AUG10-1/1

Limited Use in Forestry Operation

The intended use of John Deere tractors when used in forestry operations is limited to tractor-specific applications like transport, stationary work such as log splitting, propulsion, or operating implements with PTO, hydraulic, or electrical systems.

These are applications where normal operation does not present a risk of falling or penetrating objects. Any forestry applications beyond these applications, such as forwarding and loading, requires fitment of application-specific components including Falling Object Protective Structure (FOPS) and/or Operative Protective Structures (OPS). Contact John Deere dealer for special components.

DX,WW,FORESTRY -19-12OCT11-1/1

Operating the Loader Tractor Safely

When operating a machine with a loader application, reduce speed as required to ensure good tractor and loader stability.

To avoid tractor rollover and damage to front tires and tractor, do not carry load with your loader at a speed over 10 km/h (6 mph).

To avoid tractor damage do not use a front loader or a sprayer tank if the tractor is equipped with a 3 Meter Front Axle.

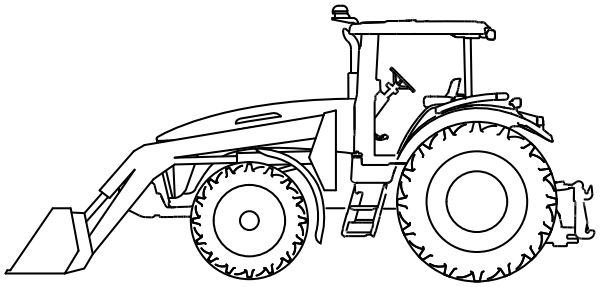
Never allow anyone to walk or work under a raised loader.

Do not use loader as a work platform.

Do not lift or carry anyone on loader, in bucket, or on implement or attachment.

Lower loader to ground before leaving operators station.

The Rollover Protective Structure (ROPS) or cab roof, if equipped, may not provide sufficient protection from load falling onto the operators station. To prevent loads from falling onto the operators station, always use appropriate implements for specific applications (that is, manure forks, round bale forks, round bale grippers, and clampers).



TS1692 —UN—09NOV09

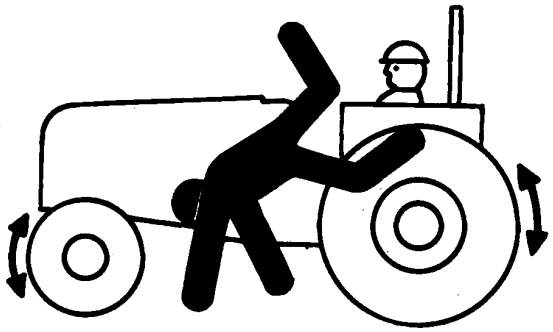
Ballast tractor in accordance to Ballast Recommendations in PREPARE TRACTOR section.

DX,WW,LOADER -19-18SEP12-1/1

Keep Riders Off Machine

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

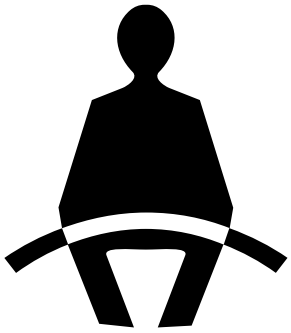


TS290 —UN—23AUG88

DX,RIDER -19-03MAR93-1/1

Instructional Seat

The instructional seat, if so equipped, has been provided only for training operators or diagnosing machine problems.



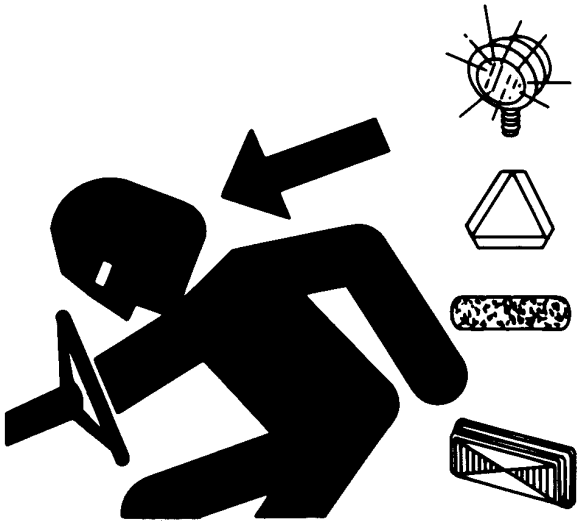
TS1730 —UN—24MAY13

DX,SEAT,NA -19-22AUG13-1/1

Use Safety Lights and Devices

Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible, clean, and in good working order. Replace or repair lighting and marking that has been damaged or lost. An implement safety lighting kit is available from your John Deere dealer.



TS951 —UN—12APR90

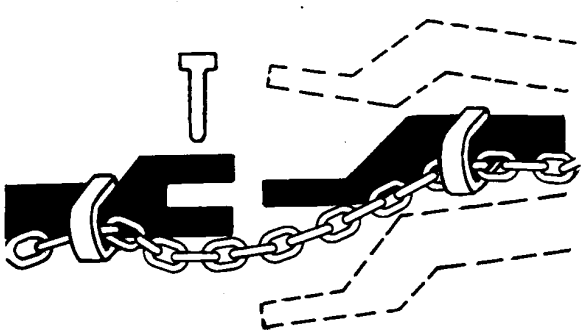
DX,FLASH -19-07JUL99-1/1

Use a Safety Chain

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.

See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.



TS217 —UN—23AUG88

DX,CHAIN -19-03MAR93-1/1

Transport Towed Equipment at Safe Speeds

Do not exceed the maximum transport speed. This towing unit may be capable of operating at transport speeds that exceed the maximum allowable transport speed for towed implements.

Before transporting a towed implement, determine from signs on the implement or information provided in the implement's operator manual the maximum transport speed. Never transport at speeds that exceed the implement's maximum transport speed. Exceeding the implement's maximum transport speed can result in:

- Loss of control of the towing unit/implement combination
- Reduced or no ability to stop during braking
- Implement tire failure
- Damage to the implement structure or its components

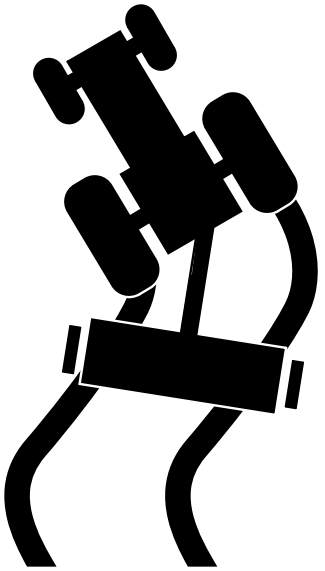
Implements shall be equipped with brakes if the maximum fully loaded weight is greater than 1500 kg (3307 lbs) and greater than 1.5 times the weight of the towing unit.

Example: Implement mass is 1600 kg (3527 lbs) and towing unit mass is 1600 kg (3527 lbs), example implement is not required to have brakes.

Implements without brakes: Do not transport at speeds greater than 32 km/h (20 mph).

Implements with brakes:

- If the manufacturer does not specify a maximum transport speed, do not tow at speeds greater than 40 km/h (25 mph).
- When transporting at speeds up to 40 km/h (25 mph) the fully loaded implement must weigh less than 4.5 times the towing unit weight.



TS1686 —UN—27SEP06

- When transporting at speeds between 40—50 km/h (25—31 mph) the fully loaded implement must weigh less than 3.0 times the towing unit weight.

When towing a trailer, become familiar with the braking characteristics and ensure the compatibility of the tractor/trailer combination in regard to the deceleration rate.

DX,TOW1 -19-28FEB17-1/1

Use Caution on Slopes, Uneven Terrain, and Rough Ground

Avoid holes, ditches, and obstructions which cause the tractor to tip, especially on slopes. Avoid sharp uphill turns.

Driving forward out of a ditch, mired condition, or up a steep slope could cause the tractor to tip over rearward. Back out of these situations if possible.

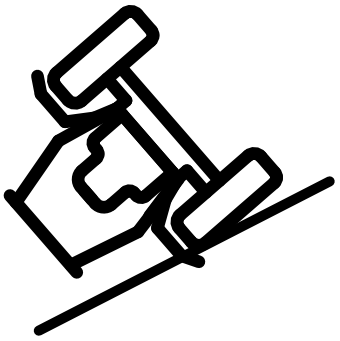
Danger of overturn increases greatly with narrow tread setting, at high speed.

Not all conditions that can cause a tractor to overturn are listed. Be alert for any situation in which stability may be compromised.

Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution.

Uneven terrain or rough ground can cause loss-of-control and tip-over accidents, which can result in severe injury or death. Operation on uneven terrain or rough ground requires extra caution.

Never drive near the edge of a gully, drop-off, ditch, steep embankment, or a body of water. The machine could suddenly roll over if a wheel goes over the edge or the ground caves in



RXA0103437 —UN—01JUL09

Choose a low ground speed so you will not have to stop or shift while on a slope.

Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the PTO and proceed slowly, straight down the slope.

Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.

DX,WW,SLOPE -19-28FEB17-1/1

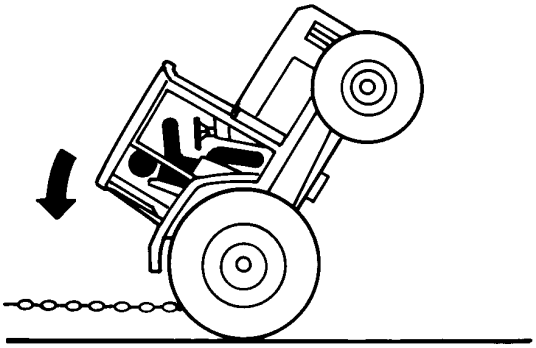
Freeing a Mired Machine

Attempting to free a mired machine can involve safety hazards such as the mired tractor tipping rearward, the towing tractor overturning, and the tow chain or tow bar (a cable is not recommended) failing and recoiling from its stretched condition.

Back your tractor out if it gets mired down in mud. Unhitch any towed implements. Dig mud from behind the rear wheels. Place boards behind the wheels to provide a solid base and try to back out slowly. If necessary, dig mud from the front of all wheels and drive slowly ahead.

If necessary to tow with another unit, use a tow bar or a long chain (a cable is not recommended). Inspect the chain for flaws. Make sure all parts of towing devices are of adequate size and strong enough to handle the load.

Always hitch to the drawbar of the towing unit. Do not hitch to the front pushbar attachment point. Before moving, clear the area of people. Apply power smoothly to take up the slack: a sudden pull could snap any towing device causing it to whip or recoil dangerously.



TS1645 —UN—15SEP95

TS263 —UN—23AUG88

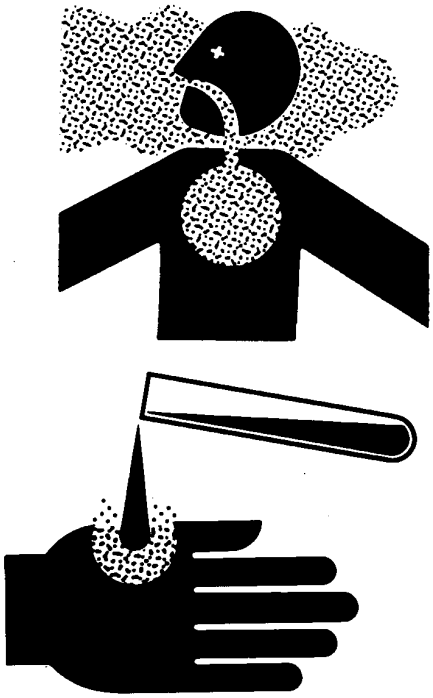
DX,MIRED -19-07JUL99-1/1

Avoid Contact with Agricultural Chemicals

This enclosed cab does not protect against inhaling vapor, aerosol or dust. If pesticide use instructions require respiratory protection, wear an appropriate respirator inside the cab.

Before leaving the cab, wear personal protective equipment as required by the pesticide use instructions. When re-entering the cab, remove protective equipment and store either outside the cab in a closed box or some other type of sealable container or inside the cab in a pesticide resistant container, such as a plastic bag.

Clean your shoes or boots to remove soil or other contaminated particles prior to entering the cab.



TS220 —UN—15APR13

TS272 —UN—23AUG88

DX,CABS -19-25MAR09-1/1

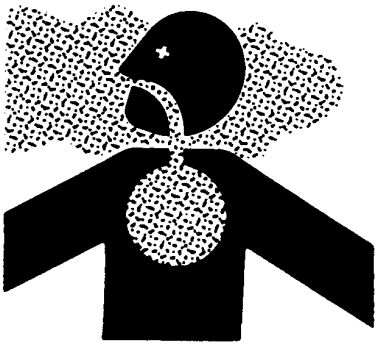
Handle Agricultural Chemicals Safely

Chemicals used in agricultural applications such as fungicides, herbicides, insecticides, pesticides, rodenticides, and fertilizers can be harmful to your health or the environment if not used carefully.

Always follow all label directions for effective, safe, and legal use of agricultural chemicals.

Reduce risk of exposure and injury:

- Wear appropriate personal protective equipment as recommended by the manufacturer. In the absence of manufacturer's instructions, follow these general guidelines:
  - Chemicals labeled **'Danger'**: Most toxic. Generally require use of goggles, respirator, gloves, and skin protection.
  - Chemicals labeled **'Warning'**: Less toxic. Generally require use of goggles, gloves, and skin protections.
  - Chemicals labeled **'Caution'**: Least toxic. Generally require use of gloves and skin protection.
- Avoid inhaling vapor, aerosol or dust.
- Always have soap, water, and towel available when working with chemicals. If chemical contacts skin, hands, or face, wash immediately with soap and water. If chemical gets into eyes, flush immediately with water.
- Wash hands and face after using chemicals and before eating, drinking, smoking, or urination.
- Do not smoke or eat while applying chemicals.
- After handling chemicals, always bathe or shower and change clothes. Wash clothing before wearing again.
- Seek medical attention immediately if illness occurs during or shortly after use of chemicals.
- Keep chemicals in original containers. Do not transfer chemicals to unmarked containers or to containers used for food or drink.



TS220 —UN—15APR13

A34471

A34471 —UN—11OCT88

- Store chemicals in a secure, locked area away from human or livestock food. Keep children away.
- Always dispose of containers properly. Triple rinse empty containers and puncture or crush containers and dispose of properly.

DX,WW,CHEM01 -19-24AUG10-1/1

Handling Batteries Safely

Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (-) battery clamp first and replace grounded clamp last.

Sulfuric acid in battery electrolyte is poisonous and strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid hazards by:

- Filling batteries in a well-ventilated area
- Wearing eye protection and rubber gloves
- Avoiding use of air pressure to clean batteries
- Avoiding breathing fumes when electrolyte is added
- Avoiding spilling or dripping electrolyte
- Using correct battery booster or charger procedure.

If acid is spilled on skin or in eyes:

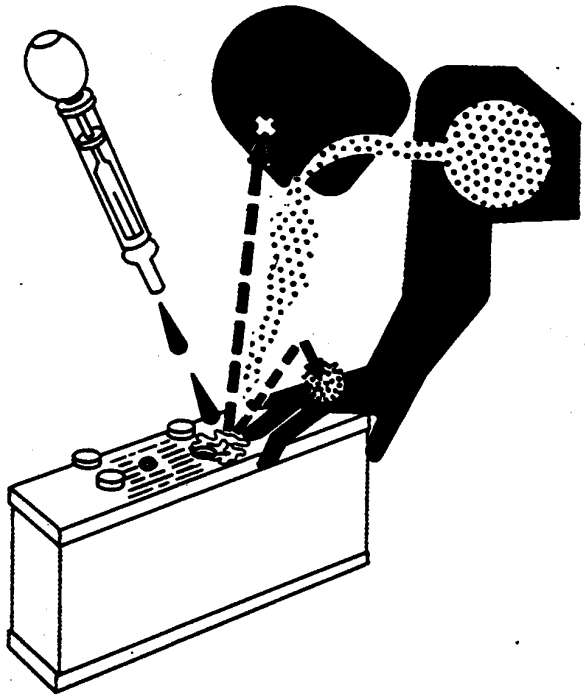
1. Flush skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush eyes with water for 15—30 minutes. Get medical attention immediately.

If acid is swallowed:

1. Do not induce vomiting.
2. Drink large amounts of water or milk, but do not exceed 2 L (2 qt.).
3. Get medical attention immediately.

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash hands after handling.**

TS204 —UN—15APR13



TS203 —UN—23AUG88

DX,WW,BATTERIES -19-02DEC10-1/1

Avoid Heating Near Pressurized Fluid Lines

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can accidentally burst when heat goes beyond the immediate flame area.

TS953 —UN—15MAY90

DX,TORCH -19-10DEC04-1/1

Remove Paint Before Welding or Heating

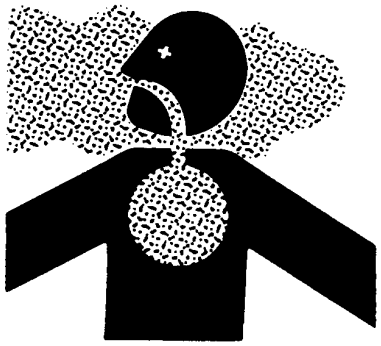
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Remove paint before heating:

- Remove paint a minimum of 100 mm (4 in.) from area to be affected by heating. If paint cannot be removed, wear an approved respirator before heating or welding.
- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

Do not use a chlorinated solvent in areas where welding will take place.



TS220 —UN—15APR13

Do all work in an area that is well ventilated to carry toxic fumes and dust away.

Dispose of paint and solvent properly.

DX,PAINT -19-24JUL02-1/1

Handle Electronic Components and Brackets Safely

Falling while installing or removing electronic components mounted on equipment can cause serious injury. Use a ladder or platform to easily reach each mounting location. Use sturdy and secure footholds and handholds. Do not install or remove components in wet or icy conditions.

If installing or servicing a RTK base station on a tower or other tall structure, use a certified climber.

If installing or servicing a global positioning receiver mast used on an implement, use proper lifting techniques and wear proper protective equipment. The mast is heavy and can be awkward to handle. Two people are required when mounting locations are not accessible from the ground or from a service platform.

TS249 —UN—23AUG88

DX,WW,RECEIVER -19-24AUG10-1/1

Practice Safe Maintenance

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing away from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.

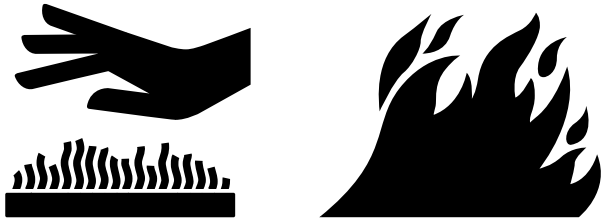
TS218 —UN—23AUG88

DX,SERV -19-28FEB17-1/1

Avoid Hot Exhaust

Servicing machine or attachments with engine running can result in serious personal injury. Avoid exposure and skin contact with hot exhaust gases and components.

Exhaust parts and streams become very hot during operation. Exhaust gases and components reach temperatures hot enough to burn people, ignite, or melt common materials.



RG17488 —UN—21AUG09

DX,EXHAUST -19-20AUG09-1/1

Clean Exhaust Filter Safely

During exhaust filter cleaning operations, the engine may run at elevated idle and hot temperatures for an extended period of time. Exhaust gases and exhaust filter components reach temperatures hot enough to burn people, or ignite or melt common materials.

Keep machine away from people, animals, or structures which may be susceptible to harm or damage from hot exhaust gases or components. Avoid potential fire or explosion hazards from flammable materials and vapors near the exhaust. Keep exhaust outlet away from people and anything that can melt, burn, or explode.

Closely monitor machine and surrounding area for smoldering debris during and after exhaust filter cleaning.

Adding fuel while an engine is running can create a fire or explosion hazard. Always stop engine before refueling machine and clean up any spilled fuel.

Always make sure that engine is stopped while hauling machine on a truck or trailer.

Contact with exhaust components while still hot can result in serious personal injury.

Avoid contact with these components until cooled to safe temperatures.

If service procedure requires engine to be running:

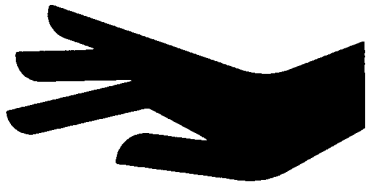
- Only engage power-driven parts required by service procedure
- Ensure that other people are clear of operator station and machine

Keep hands, feet, and clothing away from power-driven parts.

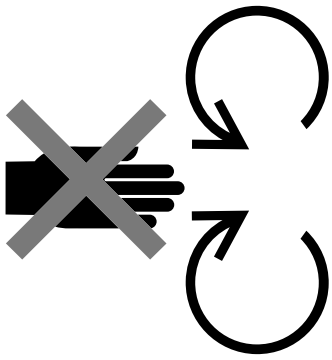
Always disable movement (neutral), set the parking brake or mechanism and disconnect power to attachments or tools before leaving the operator's station.

Shut off engine and remove key (if equipped) before leaving the machine unattended.

TS227 —UN—15APR13



TS271 —UN—23AUG88



TS1693 —UN—09DEC09

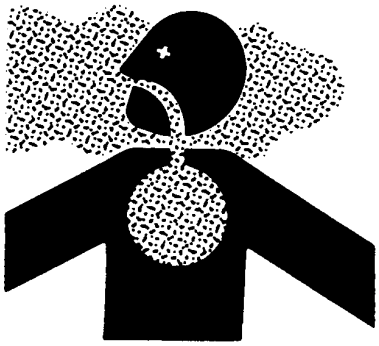
TS1695 —UN—07DEC09

DX,EXHAUST,FILTER -19-12JAN11-1/1

Work In Ventilated Area

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



TS220 —UN—15APR13

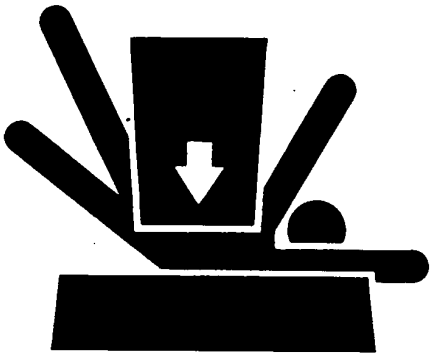
DX,AIR -19-17FEB99-1/1

Support Machine Properly

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. If left in a raced position, hydraulically supported devices can settle or leak down.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

When implements or attachments are used with a machine, always follow safety precautions listed in the implement or attachment operator's manual.



TS229 —UN—23AUG88

DX,LOWER -19-24FEB00-1/1

Prevent Machine Runaway

Avoid possible injury or death from machinery runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

NEVER start engine while standing on ground. Start engine only from operator’s seat, with transmission in neutral or park.

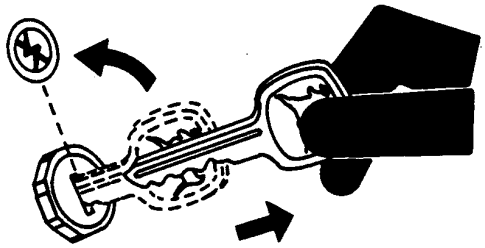
TS177 —UN—11JAN89

DX,BYPAS1 -19-29SEP98-1/1

Park Machine Safely

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



TS230 —UN—24MAY89

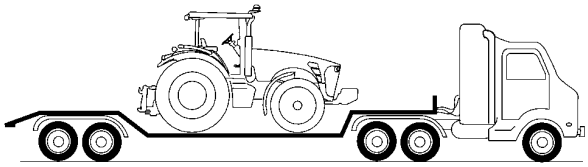
DX,PARK -19-04JUN90-1/1

Transport Tractor Safely

A disabled tractor is best transported on a flatbed carrier. Use chains to secure the tractor to the carrier. The axles and tractor frame are suitable attachment points.

Before transporting the tractor on a low-loader truck or flatbed rail wagon, make sure that the hood is secured over the tractor engine and that doors, roof hatch (if equipped) and windows are properly closed.

Never tow a tractor at a speed greater than 10 km/h (6 mph). An operator must steer and brake the tractor under tow.



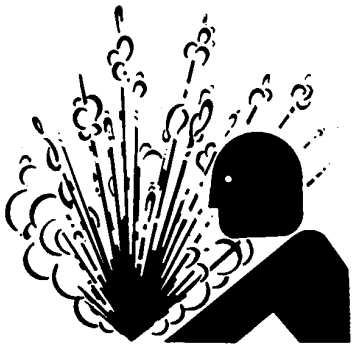
RXA0103709 —UN—01JUL09

DX,WW,TRANSPORT -19-19AUG09-1/1

Service Cooling System Safely

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands. Slowly loosen cap to first stop to relieve pressure before removing completely.



TS281 —UN—15APR13

DX,WW,COOLING -19-19AUG09-1/1

Service Accumulator Systems Safely

Escaping fluid or gas from systems with pressurized accumulators that are used in air conditioning, hydraulic, and air brake systems can cause serious injury. Extreme heat can cause the accumulator to burst, and pressurized lines can be accidentally cut. Do not weld or use a torch near a pressurized accumulator or pressurized line.

Relieve pressure from the pressurized system before removing accumulator.

Relieve pressure from the hydraulic system before removing accumulator. Never attempt to relieve hydraulic system or accumulator pressure by loosening a fitting.

Accumulators cannot be repaired.

TS281 —UN—15APR13

DX,WW,ACCLA2 -19-22AUG03-1/1

Service Tires Safely

Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.

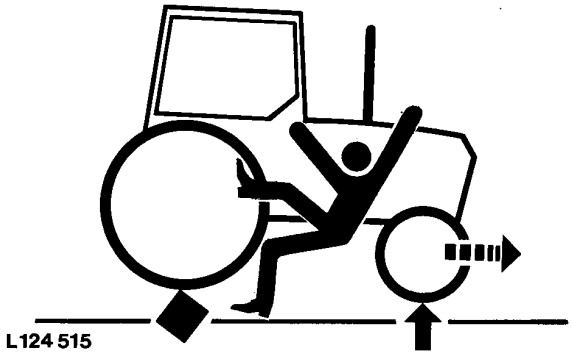
RXA0103438 —UN—11JUN09

Wheels and tires are heavy. When handling wheels and tires use a safe lifting device or get an assistant to help lift, install, or remove.

DX,WW,RIMS -19-28FEB17-1/1

Service Front-Wheel Drive Tractor Safely

When servicing front-wheel drive tractor with the rear wheels supported off the ground and rotating wheels by engine power, always support front wheels in a similar manner. Loss of electrical power or transmission hydraulic system pressure will engage the front driving wheels, pulling the rear wheels off the support if front wheels are not raised. Under these conditions, front drive wheels can engage even with switch in disengaged position.

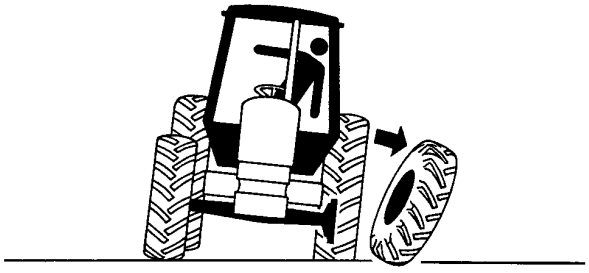


L124515 —UN—06AUG94

DX,WW,MFWD -19-19AUG09-1/1

Tightening Wheel Retaining Bolts/Nuts

Torque wheel retaining bolts/nuts at the intervals specified in section Break-In Period and Service.



L124 516

L124516 —UN—03JAN95

DX,WW,WHEEL -19-12OCT11-1/1

Avoid High-Pressure Fluids

Inspect hydraulic hoses periodically – at least once per year – for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage.

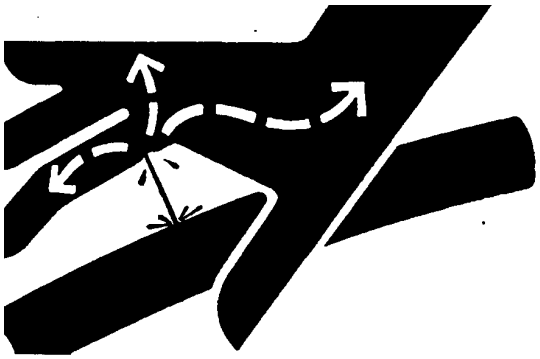
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.



X9811 —UN—23AUG88

DX,FLUID -19-12OCT11-1/1

Do Not Open High-Pressure Fuel System

High-pressure fluid remaining in fuel lines can cause serious injury. Do not disconnect or attempt repair of fuel lines, sensors, or any other components between the high-pressure fuel pump and nozzles on engines with High Pressure Common Rail (HPCR) fuel system.

Only technicians familiar with this type of system can perform repairs. (See your John Deere dealer.)

TS1343 —UN—18MAR92

DX,WW,HPCR1 -19-07JAN03-1/1

Store Attachments Safely

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.

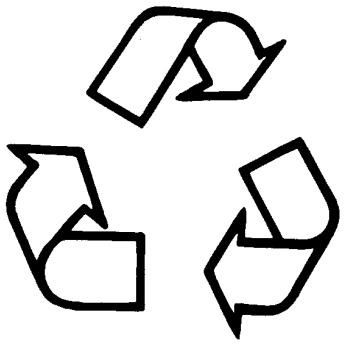
TS219 —UN—23AUG88

DX,STORE -19-03MAR93-1/1

Decommissioning — Proper Recycling and Disposal of Fluids and Components

Safety and environmental stewardship measures must be taken into account when decommissioning a machine and/or component. These measures include the following:

- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws, regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid);



TS1133 —UN—15APR13

filters; batteries; and, other substances or parts. Burning of flammable fluids or components in other than specially designed incinerators may be prohibited by law and could result in exposure to harmful fumes or ashes.
- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

DX,DRAIN -19-01JUN15-1/1

John Deere 5036D Tractor

5036D—3029D Naturally Aspirated Engine(At Rated Engine rpm - 2100)	
Declared PTO Power	23 kW
Maximum Engine Torque	146 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 Erpm
Working Range	800—2350 Erpm
Injection Pump Timing	12.5° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single only
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.23 kN
Max. drawbar power	20.64 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR
Rear Tire	12.4 x 28, 12 PR 13.6 x 28, 12 PR

Dimensions and Weight	
Total Weight	1760 kg
Wheel Base	1950 mm
Overall Length	3290 mm
Overall Width	1745 mm
Overall Height (with Exhaust Pipe)	2200 mm
Ground Clearance	380 mm
Turning Radius with Brake	2.9 m
Turning Radius without Brake	3.2 m

Filling Capacities	
Fuel Tank	60 L
Engine Sump	6.5 L
Transmission	30L (Grease Axle) 32L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,0000503 -19-21MAY21-1/1

John Deere 5038D Tractor

5038D—3029D Naturally Aspirated Engine(At Rated Engine rpm - 2100)	
Declared PTO Power	24.20 kW (32.4 hp.) - For V2 Model 26.10 kW (35 hp.)
Maximum Engine Torque	150 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 Erpm
Working Range	800—2350 Erpm
Injection Pump Timing	13.5° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single/Dual (Option)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.23 kN
Max. drawbar power	20.64 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR
Rear Tire	12.4 x 28, 12 PR 13.6 x 28, 12 PR

Dimensions and Weight	
Total Weight	1795 kg
Wheel Base	1950 mm
Overall Length	3290 mm
Overall Width	1745 mm
Overall Height (with Exhaust Pipe)	2200 mm
Ground Clearance	380 mm
Turning Radius with Brake	2.9 m
Turning Radius without Brake	3.2 m

Filling Capacities	
Fuel Tank	60 L
Engine Sump	8.5 L
Transmission	30L (Grease Axle) 32L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,0000504 -19-21MAY21-1/1

John Deere 5038D Tractor

5038D—3029D Naturally Aspirated Engine(At Rated Engine rpm - 2300)	
Declared PTO Power	25.36 kW (34 hp)
Maximum Engine Torque	147 N·m @ 1500 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850+/-50 rpm
Fast Idle	2500+/-50 rpm
Operating Range	800—2550 Erpm
Working Range	1400—2300 Erpm
Injection Pump Timing	12.5° BTDC

Electrical	
Battery	12 V, 88 Ah /12 V 80 Ah [a]
Alternator	40 amp
Starter	12 V, 2.5 kW

[a] *Applicable To Central Africa And Mena*

Transmission	
Clutch Type	Single/Dual (Option)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2200 Erpm
Economy PTO Speed	540 @ 1600—1800 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl

Hydraulics	
Pump Output	25 lpm (Manual Steering) 46 lpm (Power Steering)
Lifting Capacity	1400 kgf
Max. hydraulic power	6.7 kW

Drawbar	
Max. drawbar pull without ballast	14.23 kN
Max. drawbar power	20.64 kW

Wheels and Tyres	
Front Tyre	6.0 x 16, 8 PR
Rear Tyre	12.4 x 28, 12 PR 13.6 x 28, 12 PR

Dimensions and Weight	
Total Weight	1795 kg
Wheel Base	1950 mm
Overall Length	3290 mm
Overall Width	1745 mm
Overall Height (with Exhaust Pipe)	2200 mm
Ground Clearance	380 mm
Turning Radius with Brake	2.9 m
Turning Radius without Brake	3.2 m

Filling Capacities	
Fuel Tank	60 L
Engine Sump	8.5 L
Transmission	33L (Manual Steering) 35L (Power Steering)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,0000505 -19-21MAY21-1/1

John Deere 5042D and 5042D V3 Tractor

3029D Naturally Aspirated Engine (At Rated Engine rpm 2100)	
Declared Max PTO Power	26.5 kW (35.5 hp)
Maximum Engine Torque	170 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1 (±0.2)
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Injection Pump Timing	11.5°

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single/Dual (Option)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm
Reverse PTO	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.94 kN
Max. drawbar power	21.20 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR
Rear Tire	13.6 x 28, 12 PR

Dimensions and Weight	
Total Weight	1810 kg
Wheel Base	1950 mm
Overall Length	3335 mm
Overall Height (with Exhaust Pipe)	2210 mm
Overall Width	1775 mm
Ground Clearance	415 mm
Turning Radius with Brake	2.9 m
Turning Radius without Brake	3.2 m

Filling capacities	
Fuel Tank	60 L
Engine Sump	6.5 L
Transmission	30L (Grease Axle) 32L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L (2.59 gal)

RP32883,0000EAD -19-16FEB21-1/1

John Deere 5042D Tractor

5039D—3029D Naturally Aspirated Engine(At Rated Engine rpm - 2100)	
Declared PTO Power	24.20 kW (32.4 hp.) - For V2 Model 26.10 kW (35 hp.)
Maximum Engine Torque	153 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 Erpm
Working Range	800—2350 Erpm
Injection Pump Timing	13.5° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single/Dual (Option)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl
Handbrake	Available

NOTE: Tractor is equipped with either park pawl or handbrake feature.

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.23 kN
Max. drawbar power	20.64 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR
Rear Tire	12.4 x 28, 12 PR 13.6 x 28, 12 PR

Dimensions and Weight	
Total Weight	1795 kg
Wheel Base	1950 mm
Overall Length	3290 mm
Overall Width	1745 mm
Overall Height (with Exhaust Pipe)	2200 mm
Ground Clearance	380 mm
Turning Radius with Brake	2.9 m
Turning Radius without Brake	3.2 m

Filling Capacities	
Fuel Tank	60 L
Engine Sump	8.5 L
Transmission	30L (Grease Axle) 32L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,0000506 -19-21MAY21-1/1

John Deere 5045D and 5045D V2 Tractor

3029D Naturally Aspirated Engine (At Rated Engine rpm 2100)	
Declared PTO Power	28.1 kW (37.6 hp)
Maximum Engine Torque	179 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1 (±0.2)
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Injection Pump Timing	11.0°

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single/Dual (Option)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm
Reverse PTO	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.4 kN
Max. drawbar power	22.48 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR / 8.0 x 18, 6 PR/ 7.5 x 16, 8 PR
Rear Tire	13.6 x 28, 12 PR/ 14.9-28, 12 PR

Dimensions and Weight		
	2WD	MFWD
Total Weight	1825 kg	1975 kg
Wheel Base	1950 mm	1950 mm
Overall Length	3350 mm	3350 mm
Overall Height (with Exhaust Pipe)	2220 mm	2220 mm
Overall Width	1775 mm	1775 mm
Ground Clearance	460 mm	365 mm
Turning Radius with Brake	2.9 m	3 m
Turning Radius without Brake	3.2 m	3.2 m

Filling capacities	
Fuel Tank	60L
Engine Sump	8.5L (2WD) 6.5L (MFWD)
Transmission	32 L (Oil Axle) 30 L (Grease Axle)
MFWD Housing Axle Oil	5.9 L
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L (2.59 gal)

RP32883,0000EAC -19-16FEB21-1/1

John Deere 5045D Tractor

5045D—3029D Naturally Aspirated Engine (At Rated Engine rpm 2300)	
Declared PTO Power	27.6 kW (37 hp)
Maximum Engine Torque	148 N·m @ 1600 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850 +/-50 rpm
Fast Idle	2500 +/-50 rpm
Operating Range	800—2550 rpm
Working Range	1400—2300 rpm
Injection Pump Timing	13° BTDC

Electrical	
Battery	12 V, 88 Ah /12 V 80 Ah [a]
Alternator	40 amp
Starter	12 V, 2.5 kW

[a] *Applicable To Central Africa And Mena*

Transmission	
Clutch Type	Single/Dual (Option)
Gearbox Type	Collar Shift/Collar shift with F-R Synchro (Option)
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2200 Erpm
Economy PTO Speed	540 @ 1600—1800 Erpm
Reverse PTO	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl
Handbrake	Available

NOTE: Tractor is equipped with either park pawl or handbrake feature.

Hydraulics	
Pump Output	46 lpm
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.4 kN
Max. drawbar power	22.48 kW

Wheels and Tyres	
Front Tyre	6.0 x 16, 8 PR/8.0 x 18, 6 PR
Rear Tyre	14.9 x 28, 8/12 PR/13.6 x 28, 12 PR 14.9 x 28, 8 PR

Dimensions and Weight		
	2WD	MFWD
Total Weight	1825 kg	1975
Wheel Base	1950 mm	1950
Overall Length	3350 mm	3350
Overall Height (with Exhaust Pipe)	2220 mm	2220
Overall Width	1775 mm	1775
Ground Clearance	460 mm	365
Turning Radius with Brake	2.9 m	3
Turning Radius without Brake	3.2 m	3.2

Filling capacities	
Fuel Tank	60L
Engine Sump	8.5L (2WD) 6.5L (4WD)
Transmission	35 L(Power Steering) 33 L(Manual Steering)
MFWD Housing Axle Oil	5.9L
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,0000507 -19-21MAY21-1/1

John Deere 5045D Tractor

5045D—3029D Naturally Aspirated Engine (At Rated Engine rpm 2100)	
Declared PTO Power	27.8 kW (37.2 hp.)
Maximum Engine Torque	175 N·m @ 1300 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 rpm
Working Range	800—2350 rpm
Injection Pump Timing	13° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single/Dual (Option)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm
Reverse PTO	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl
Handbrake	Available

NOTE: Tractor is equipped with either park pawl or handbrake feature.

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.4 kN
Max. drawbar power	22.48 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR / 8.0 x 18, 6 PR
Rear Tire	13.6 x 28, 12 PR 14.9 x 28, 8 PR

Dimensions and Weight		
	2WD	MFWD
Total Weight	1825 kg	1975 kg
Wheel Base	1950 mm	1950 mm
Overall Length	3350 mm	3350 mm
Overall Height (with Exhaust Pipe)	2220 mm	2220 mm
Overall Width	1775 mm	1775 mm
Ground Clearance	460 mm	365 mm
Turning Radius with Brake	2.9 m	3 m
Turning Radius without Brake	3.2 m	3.2 m

Filling capacities	
Fuel Tank	60L
Engine Sump	8.5L (2WD) 6.5L (MFWD)
Transmission	32 L (Oil Axle) 30 L (Grease Axle)
MFWD Housing Axle Oil	5.9 L
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,0000508 -19-21MAY21-1/1

John Deere 5047D Tractor

5047D—3029D Naturally Aspirated Engine	
Declared PTO Power	30.1 kW (40.3 hp)
Maximum Engine Torque	186 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850 +/-50 rpm
Fast Idle	2300 +/-50 rpm
Operating Range	1400—2100 rpm
Working Range	800—2350 rpm
Injection Pump Timing	8° BTDC (± 1)

Electrical	
Battery	12 V, 88 Ah
Alternator	40 amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single/Dual option
Gearbox Type	Std -Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl

Hydraulics	
Pump Output	25 lpm (Manual Steering) 46 lpm (Power Steering)
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.4 kN
Max. drawbar power	22.48 kW

Wheels and Tyres	
Front Tyre	6.0 x 16, 8 PR
Rear Tyre	13.6 x 28, 12 PR

Dimensions and Weight	
Total Weight	1830 kg
Wheel Base	1950 mm
Overall Length	3370 mm
Overall Height (with Exhaust Pipe)	2220 mm
Overall Width	1805 mm
Ground Clearance	460 mm
Turning Radius with Brake	2.9 m
Turning Radius without Brake	3.2 m

Filling capacities	
Fuel tank	60 L
Engine sump	8.5 L
Transmission	33 L (Manual Steering) 35 L (Power Steering)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

SG77823,00004BE -19-22FEB21-1/1

John Deere 5050D Tractor

5050D—3029T (At Rated Engine rpm 2300	
Declared PTO Power	31.33 kW (42 hp.)
Maximum Engine Torque	148 N·m @ 1600 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850 +/-50 rpm
Fast Idle	2500 +/-50 rpm
Operating Range	800—2550 rpm
Working Range	1400—2300 rpm
Injection Pump Timing	11° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	40 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single/Dual option
Gearbox Type	Collar Shift/Collar Shift with F-R Synchro (Option)
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2200 Erpm
Economy PTO Speed	540 @ 1600—1800 Erpm
Reverse PTO	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl
Handbrake	Available

NOTE: Tractor is equipped with either park pawl or handbrake feature.

Hydraulics	
Pump Output	25 lit/min (Manual Steering) 46 lit/min (Power Steering)
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.4 kN
Max. drawbar power	22.48 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR 7.5 x 16, 8 PR (Optional)
Rear Tire	14.9 x 28, 8/12 PR 13.6 x 28, 12 PR

Dimensions and Weight	
Total Weight	1830 kg
Wheel Base	1950 mm
Overall Length	3370 mm
Overall Height (with Exhaust Pipe)	2220 mm
Overall Width	1805 mm
Ground Clearance	440 mm
Turning Radius with Brake	3 m
Turning Radius without Brake	3.2 m

Filling capacities	
Fuel tank	60 L
Engine sump	8.5 L
Transmission	33 L (Manual Steering) 35 L (Power Steering)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,0000509 -19-21MAY21-1/1

John Deere 5050D Tractor

5050D—3029T, Turbocharged Engine (At Rated Engine rpm 2100)	
Declared PTO Power	31 kW (41.5 hp.)
Maximum Engine Torque	192 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 rpm
Working Range	800—2350 rpm
Injection Pump Timing	10° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Dual
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm
Reverse PTO	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl
Handbrake	Available

NOTE: Tractor is equipped with either park pawl or handbrake feature.

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.4 kN
Max. drawbar power	22.48 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR 7.5 x 16, 8 PR (Optional)
Rear Tire	13.6-28,12PR 14.9 x 28, 12 PR 14.9 x 28, 8 PR

Dimensions and Weight	
Total Weight	1830 kg
Wheel Base	1950 mm
Overall Length	3370 mm
Overall Height (with Exhaust Pipe)	2220 mm
Overall Width	1805 mm
Ground Clearance	440 mm
Turning Radius with Brake	3 m
Turning Radius without Brake	3.2 m

Filling capacities	
Fuel tank	60 L
Engine sump	8.5 L
Transmission	30 L (Grease Axle) 32 L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,000050A -19-21MAY21-1/1

John Deere 5050D, 5050D V8, 5050D V1 2WD, and 5050D V1 4WD Tractor

3029T, Naturally Aspirated (At Rated Engine rpm 2100)	
Declared PTO Power	31.3 kW (41.9 hp.)
Maximum Engine Torque	192 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 rpm
Working Range	800—2350 rpm
Injection Pump Timing	8° (±1) BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Dual (Optional - Single)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2070 Erpm
Economy PTO Speed	540 @ 1600 Erpm
Reverse PTO	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical

Hydraulics		
	5050D	**5050D V8**
Total flow (with 90% Efficiency)	36.1 L/min.	22.68 L/min.
Lifting Capacity	1400 kgf	1400 kgf
Max. hydraulic power	6.8 kW	5.0 kW

Drawbar		
	5050D	**5050D V8**
Max. drawbar pull without ballast	14.4 kN	13.73 kN
Max. drawbar power	22.48 kW	25.04 kW

Wheels and Tires		
	2WD	4WD
Front Tire	6.0 x 16, 8 PR 7.5 x 16, 8 PR (Optional)	8.0 x 18, 6 PR 8.3 x 24, 8 PR[a] 8.3 X 20, 8 PR[a]
Rear Tire	14.9-28,12 PR 13.6 x 28, 12 PR (Optional) 16.9 x 28, 12 PR (Optional)	14.9 x 28, 12 PR 13.6 x 28, 12 PR (Optional) 16.9 x 28, 12 PR[a]

[a] *Applicable for 5050D front bigger tire variant*

Dimensions and Weight		
	2WD	MFWD
Total Weight	1830 kg	1975 kg
Wheel Base	1950 mm	1950 mm
Overall Length	3370 mm	3350 mm
Overall Height (with Exhaust Pipe)	2220 mm	2200 mm
Overall Width	1805 mm	1775 mm
Ground Clearance	440 mm	365 mm
Turning Radius with Brake	3 m	3 m
Turning Radius without Brake	3.2 m	3.2 m

Filling capacities	
Fuel tank	60 L
Engine sump	8.5 L
Transmission	30 L (Grease Axle) 32 L (Oil Axle)
MFWD Axel Oil	5.9 L
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,000050B -19-21MAY21-1/1

John Deere 5105, 5105- V2, and 5105- 4WD V2 Tractors

5105—3029D Naturally Aspirated Engine(At Rated Engine rpm - 2100)	
Declared PTO Power	25.8 kW (34.59 hp)- V2 Models 25.3 kW (33.9 hp)
Maximum Engine Torque	156 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 ERPM
Fast Idle	2300±50 ERPM
Operating Range	1400—2100 ERPM
Working Range	800—2350 ERPM
Injection Pump Timing	11° BTDC (±1)

Electrical	
Battery	12 V, 88 Ah
Alternator	42 A
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single/Dual (Option)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.23 kN
Max. drawbar power	20.64 kW

Wheels and Tires		
	2WD	**4WD**
Front Tire	6.0 x 16, 8 PR	8.0 x 18, 6 PR
Rear Tire	12.4 x 28, 12 PR 13.6 x 28, 12 PR	13.6 x 28, 12 PR 13.6 x 28, 12 PR (HLD)

Dimensions and Weight		
	2WD	**4WD**
Total Weight	1795 kg	1975 kg
Wheel Base	1950 mm	1950 mm
Overall Length	3290 mm	3350 mm
Overall Width	1745 mm	1775 mm
Overall Height (with Exhaust Pipe)	2200 mm	2220 mm
Ground Clearance	380 mm	365 mm
Turning Radius with Brake	2.9 m	3 m
Turning Radius without Brake	3.2 m	3.2 m

Filling Capacities	
Fuel Tank	60 L
Engine Sump	6.5 L
MFWD Axle Oil	5.9 L
Transmission	32 L (4WD) 31.4 L (2WD)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,000050C -19-21MAY21-1/1

John Deere 5305 Tractor (2400)

5305—3029T, Turbocharged (At Rated Engine rpm 2400)	
Declared PTO Power	34 kW (45.5hp.)
Maximum Engine Torque	229 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	17.8:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2600±50 rpm
Operating Range	1200—2400 rpm
Working Range	800—2650 rpm
Injection Pump Timing	17° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	43 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single (Dual Optional)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl

Hydraulics	
Hitch Pump Output	43.2 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Wheels and Tires	
	5305 2WD
Front Tire	6.0 x 16, 8 PR 7.5 x 16, 8 PR
Rear Tire	14.9-28,12 PR 16.9 x 28, 12 PR

Dimensions and Weight	
	2WD
Total Weight	1920 kg
Wheel Base	1960 mm
Overall Length	3420 mm
Overall Height (with Exhaust Pipe)	2220 mm
Overall Width	1810 mm
Ground Clearance	310 mm (Below Footstep)
Turning Radius with Brake	5.9 m
Turning Radius without Brake	6.5 m

Filling capacities	
Fuel tank	61 L
Engine sump	8.5 L
Transmission	32 L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,000050D -19-21MAY21-1/1

John Deere 5305 Tractor (2100 rpm)

5305—3029T, Turbocharged (At Rated Engine rpm 2100)	
Declared PTO Power	34 kW (45.5hp.)
Maximum Engine Torque	229 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	17.8:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 rpm
Working Range	800—2350 rpm
Injection Pump Timing	17° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	43 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single (Dual Optional)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm
Reverse PTO Speed	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical

Hydraulics	
Hitch Pump Output	43.2 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Wheels and Tires	
	5305 2WD
Front Tire	6.0 x 16, 8 PR 7.5 x 16, 8 PR 6.5 x 20, 8 PR (Optional)
Rear Tire	14.9-28,12 PR 16.9 x 28, 12 PR

Dimensions and Weight	
	2WD
Total Weight	1920 kg
Wheel Base	1960 mm
Overall Length	3420 mm
Overall Height (with Exhaust Pipe)	2220 mm
Overall Width	1810 mm
Ground Clearance	310 mm (Below footstep)
Turning Radius with Brake	5.9 m
Turning Radius without Brake	6.5 m

Filling capacities	
Fuel tank	61 L
Engine sump	8.5 L
Transmission	32 L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,000050E -19-21MAY21-1/1

John Deere 5205 Tractor

5205 Naturally Aspirated(At Rated Engine rpm 2100)	
Declared PTO Power	30.1 kW (40.3 hp.)
Maximum Engine Torque	186 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 rpm
Working Range	800—2350 rpm
Injection Pump Timing	17° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Dual (Optional - Single)
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm
Economy PTO Speed	540 @ 1600 Erpm
Reverse PTO	228 @ 1200 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.4 kN
Max. drawbar power	22.48 kW

Wheels and Tires		
	2WD	4WD
Front Tire	6.0 x 16, 8 PR 7.5 x 16, 8 PR (Optional)	8.0 x 18, 6 PR
Rear Tire	14.9-28,12 PR 13.6 x 28, 12 PR (Optional) 16.9 x 28, 12 PR (Optional)	14.9 x 28, 12 PR 13.6 x 28, 12 PR (Optional)

Dimensions and Weight		
	2WD	MFWD
Total Weight	1830 kg	1975 kg
Wheel Base	1950 mm	1950 mm
Overall Length	3370 mm	3350 mm
Overall Height (with Exhaust Pipe)	2220 mm	2200 mm
Overall Width	1805 mm	1775 mm
Ground Clearance	440 mm	365 mm
Turning Radius with Brake	3 m	3 m
Turning Radius without Brake	3.2 m	3.2 m

Filling capacities	
Fuel tank	60 L
Engine sump	8.5 L
Transmission	30 L (Grease Axle) 32 L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

RP32883,0000EB0 -19-17FEB21-1/1

John Deere 5005 Tractor

5005 Naturally Aspirated Engine(At Rated Engine rpm - 2100)	
Declared PTO Power	21.3 kW (28.6 hp.)
Maximum Engine Torque	137 N·m @ 1200 rpm
Cylinders	3
Bore	106.5 mm
Stroke	110 mm
Displacement	2.9 L
Compression Ratio	18.5:1
Firing Order	1-2-3
Low Idle	850±50 rpm
Fast Idle	2300±50 rpm
Operating Range	1400—2100 Erpm
Working Range	800—2350 Erpm
Injection Pump Timing	12.5° BTDC

Electrical	
Battery	12 V, 88 Ah
Alternator	42 Amp
Starter	12 V, 2.5 kW

Transmission	
Clutch Type	Single only
Gearbox Type	Collar Shift
Forward Gears	8
Reverse Gears	4
Standard PTO Speed	540 @ 2050 Erpm

Brakes	
Type	Wet Disc Brakes
Actuation	Mechanical
Park Brake	Park Pawl

Hydraulics	
Total flow (with 90% Efficiency)	36.1 L/min.
Lifting Capacity	1400 kgf
Max. hydraulic power	6.8 kW

Drawbar	
Max. drawbar pull without ballast	14.23 kN
Max. drawbar power	20.64 kW

Wheels and Tires	
Front Tire	6.0 x 16, 8 PR
Rear Tire	12.4 x 28, 12 PR 13.6 x 28, 12 PR

Dimensions and Weight	
Total Weight	1760 kg
Wheel Base	1950 mm
Overall Length	3290 mm
Overall Width	1745 mm
Overall Height (with Exhaust Pipe)	2200 mm
Ground Clearance	380 mm
Turning Radius with Brake	2.9 m
Turning Radius without Brake	3.2 m

Filling Capacities	
Fuel Tank	60 L
Engine Sump	6.5 L
Transmission	30L (Grease Axle) 32L (Oil Axle)
Hydraulics	Common to transmission
Cooling System Coolant	9.8 L

ZY5AXG6,000050F -19-21MAY21-1/1

Ground Speeds

NOTE: Ground speeds are at rated engine speed, 2100 rpm.

Tire Compatibility Chart

Rear Tire	5036D 2WD	5038D 2WD	5039D 2WD	5042D 2WD	5045D 2WD	5045D 4WD	5050D 2WD	5050D 4WD	5105 2WD	5105 4WD	5005 2WD	5205 2WD	5205 4WD
12.4-28, 12 PR	X	X	X						X		X		
13.6-28, 12 PR	X	X	X	X	X	X	X		X	X	X	X	
13.6-28, 12 PR (HLD										X			
14.9-28, 12PR					X	X	X	X				X	X
16.9-28, 12 PR							X						
Front Tire													
6.0-16, 8 PR	X	X	X	X	X		X		X		X	X	
7.5-16, 8PR					X		X					X	
8.0-18, 6 PR						X		X		X			X

Speed Chart (Applicable Only For 5105, 5105-V2 and 5105- V2 4WD)

Speed Chart				
	Rear tire size: 12.4 x 28 Rolling Radius- 590 mm		Rear tire size: 13.6 x 28 Rolling Radius- 610 mm	
	Low Speed Planetary	High Speed Planetary	Low Speed Planetary	High Speed Planetary
Gear	Speed (km/h)	Speed (km/h)	Speed (km/h)	Speed (km/h)
A1	2.74	3.13	2.84	3.25
A2	4.02	4.6	4.18	4.78
A3	6.28	7.18	6.51	7.45
A4	9.9	11.32	10.29	11.76
B1	8.26	9.44	8.59	9.81
B2	12.15	13.89	12.62	14.43
B3	18.94	21.65	19.68	22.49
B4	30.9	35.4	31.7	35.97
R1	3.59	4.1	3.74	4.27
R2	5.28	6.03	5.49	6.28
R3	8.24	9.42	8.56	9.79
R4	12.99	14.8	13.52	15.45

Speed Chart

Speed Chart						
	Rear tire size: 12.4 x 28 Rolling Radius- 590 mm		Rear tire size: 13.6 x 28 Rolling Radius- 610 mm		Rear tire size: 14.9 x 28 Rolling Radius- 640 mm	Rear tire size: 16.9 x 28
	Low Speed Planetary	High Speed Planetary	Low Speed Planetary	High Speed Planetary		
Gear	Speed (km/h)	Speed (km/h)		Speed (km/h)	Speed (km/h)	Speed (km/h)
A1	2.74	3.13	2.83	3.23	2.97	3.12
A2	4.02	4.6	4.16	4.75	4.36	4.58
A3	6.27	7.18	6.5	7.42	6.82	7.14
A4	9.9	11.32	10.24	11.70	10.74	11.28
B1	8.26	9.44	8.54	9.76	8.96	9.41
B2	12.15	13.88	12.56	14.36	13.18	13.84
B3	18.94	21.69	19.62	22.42	20.59	21.57
B4	29.91	34.18	30.92	35.34	32.44	34.06
R1	3.6	4.1	3.71	4.24	3.89	4.1
R2	5.29	6.03	5.45	6.23	5.72	6.02
R3	8.24	9.42	8.52	9.74	8.94	9.39
R4	13.01	14.84	13.43	15.34	14.1	14.82

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Ground Speeds

NOTE: Ground speeds are at rated engine speed, 2300 rpm.

5038D/5042D Tractor (Rear tyre size: 12.4 x 28), (RR—590 mm)	
Gear	Speed (km/h)
A1	3.22
A2	4.62
A3	6.95
A4	11.36
B1	9.60
B2	13.76
B3	20.72
B4	33.87
R1	4.27
R2	6.13
R3	9.22
R4	15.08

5042D/5038D/5050D Tractor (Rear tyre size: 13.6 x 28), (RR—610 mm)	
Gear	Speed (kmph)
A1	2.91
A2	4.18
A3	6.28
A4	10.28
B1	8.69
B2	12.46
B3	18.75
B4	30.65
R1	3.87
R2	5.54
R3	8.35
R4	13.64

5045D Tractor (Rear tyre size: 13.6 x 28 for 2WD/14.9 x 28 for MFWD), (RR—610 mm)		
	2WD	MFWD
Gear	Speed (kmph)	Speed (kmph)
A1	2.91	3.1
A2	4.18	4.4
A3	6.29	6.6
A4	10.28	10.9
B1	8.68	9.1
B2	12.45	13.1
B3	18.75	19.7
B4	30.64	32.3
R1	3.87	4.1
R2	5.54	5.8
R3	8.35	8.8
R4	13.64	14.4

5047D Tractor (Rear tyre size: 13.6 x 28), (RR—610 mm)	
Gear	Speed (kmph)
A1	2.96
A2	4.24
A3	6.38
A4	10.43
B1	8.81
B2	12.63
B3	19.02
B4	31.09
R1	4.27
R2	6.13
R3	9.22
R4	15.08

Continued on next page

5050D Tractor (Rear tyre size: 14.9 x 28), (RR—640 mm)	
Gear	Speed (kmph)
A1	3.06
A2	4.38
A3	6.60
A4	10.80
B1	9.11
B2	13.06
B3	19.67
B4	32.15
R1	4.06
R2	5.82
R3	8.76
R4	14.31

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