

5105 and 5205 Tractors

TECHNICAL MANUAL 5105 and 5205 Tractors Repair

TM1792 20MAR00 (ENGLISH)

For complete service information also see:

Component Technical Manuals 3029

| | |
|---------------------------------------|-------|
| Engine | CTM8 |
| Alternators and Starting Motors | CTM77 |

John Deere Augusta Works

Sample manual. Download At [TM1792 \(20MAR00\)](https://www.bobmanualstore.com/downloads/john-deere-5105-and-5205-tractor-service-repair-technical-manual/)

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ENGLISH


Introduction

[-5205-tractor-service-repair-technical-manual/](https://www.bobmanualstore.com/downloads/john-deere-5105-and-5205-tractor-service-repair-technical-manual/)

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 -19-29SEP98-1/1

Sample manual. Download All 894 pages at:

<https://www.bobmanualstore.com/downloads/john-deere-5105-and-5205-tractor-service-repair-technical-manual/>

TM1792 (20MAR00)

5105 and 5205 Tractors

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Section 10

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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.



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

TB1389 -UN-07DEC88

Understand Signal Words

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.



▲ WARNING

▲ CAUTION

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

TS187 -19-30SEP88

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.

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.

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



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

TS201 -UN-23AUG88

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Handle Fluids Safely—Avoid Fires

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



TS227 -UN-23AUG88

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

Prevent Battery Explosions

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

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

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).



TS204 -UN-23AUG88

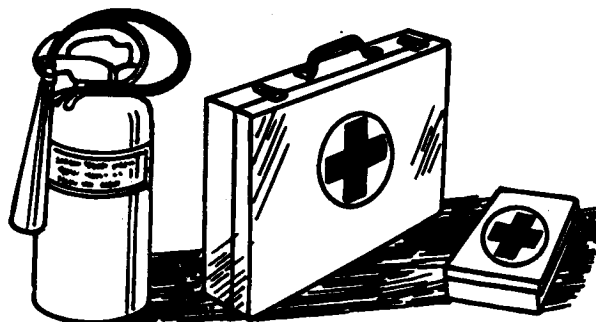
DX,SPARKS -19-03MAR93-1/1

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-23AUG88

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

Prevent Acid Burns

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

Avoid the hazard by:

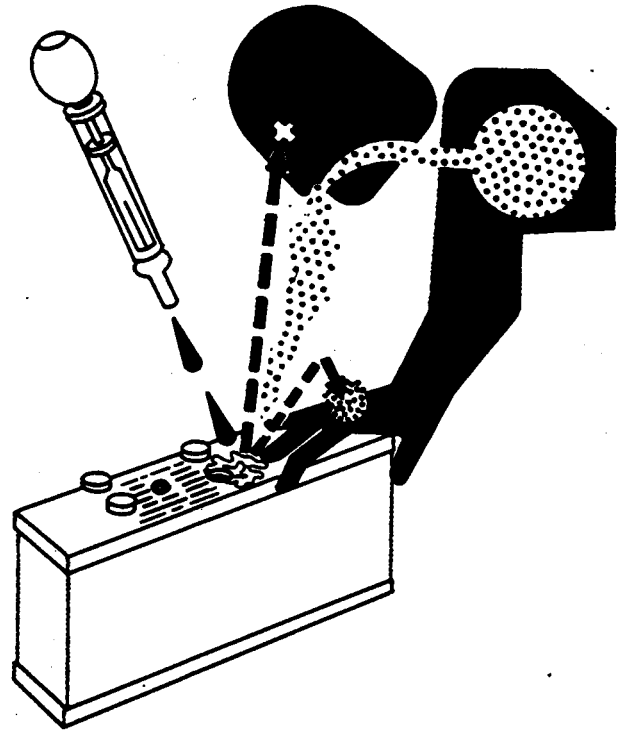
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your 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 quarts).
3. Get medical attention immediately.



TS203 -UN-23AUG88

DX,POISON -19-21APR93-1/1

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-23AUG88

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

Handle Chemical Products Safely

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



TS1132 -UN-26NOV90

DX,MSDS,NA -19-03MAR93-1/1

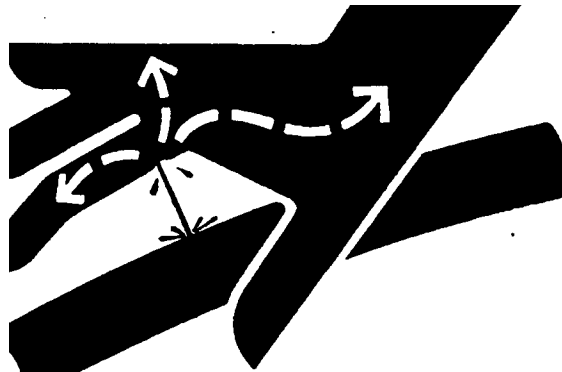
Avoid High-Pressure Fluids

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 from Deere & Company Medical Department in Moline, Illinois, U.S.A.



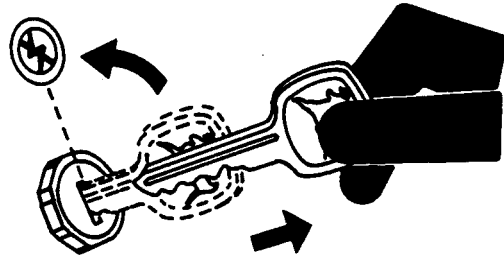
X9811 -UN-23AUG88

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

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 -JUN-24MAY89

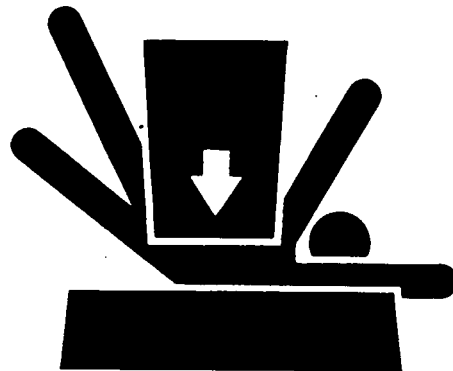
DX,PARK -19-04JUN90-1/1

Support Machine Properly

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment. If left in a raised 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 tractor, always follow safety precautions listed in the implement operator's manual.



TS229 -JUN-23AUG88

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

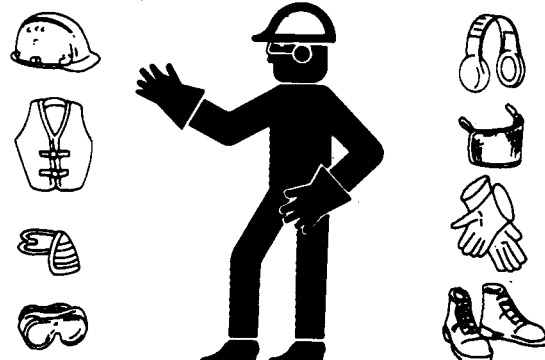
Wear Protective Clothing

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

Prolonged exposure to loud noise can cause impairment or loss of hearing.

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

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



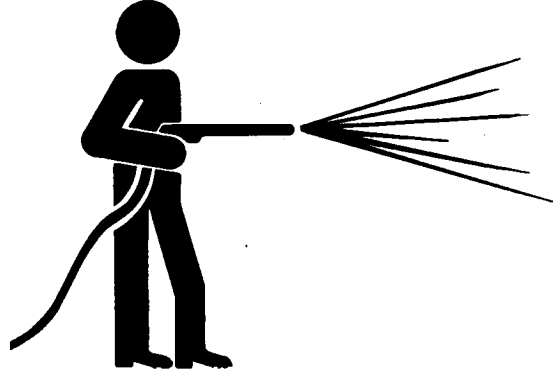
TS206 -JUN-23AUG88

DX,WEAR -19-10SEP90-1/1

Work in Clean Area

Before starting a job:

- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- Read all instructions thoroughly; do not attempt shortcuts.



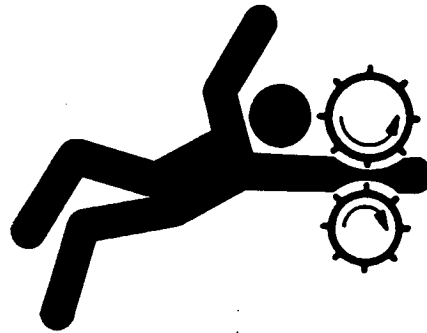
DX,CLEAN -19-04JUN90-1/1

T6642EJ -UN-18OCT88

Service Machines Safely

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



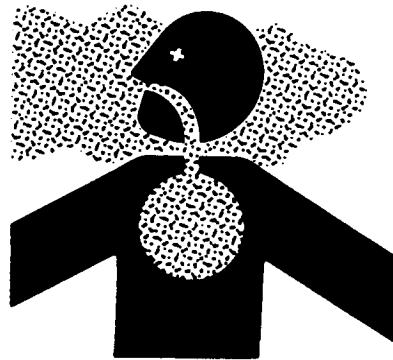
DX,LOOSE -19-04JUN90-1/1

TS228 -UN-23AUG88

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

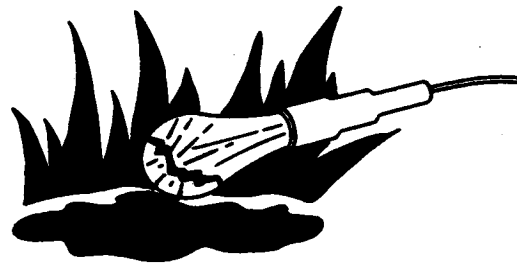


DX,AIR -19-17FEB99-1/1

TS220 -UN-23AUG88

Illuminate Work Area Safely

Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



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

TS223 -UN-23AUG88

Replace Safety Signs

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.



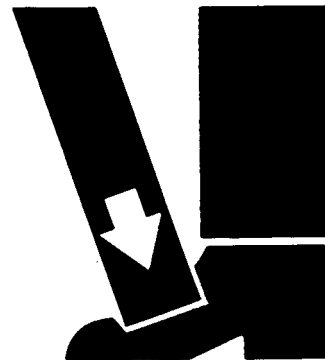
DX,SIGNS1 -19-04JUN90-1/1

TS201 -UN-23AUG88

Use Proper Lifting Equipment

Lifting heavy components incorrectly can cause severe injury or machine damage.

Follow recommended procedure for removal and installation of components in the manual.



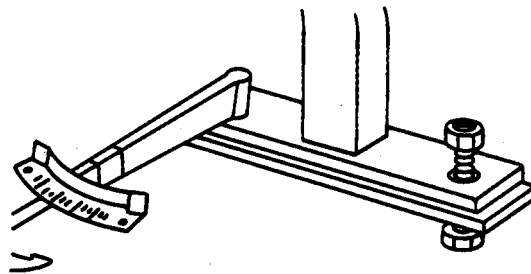
DX,LIFT -19-04JUN90-1/1

TS226 -UN-23AUG88

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.



DX,ROPS3 -19-03MAR93-1/1

TS212 -UN-23AUG88

Service Tires Safely

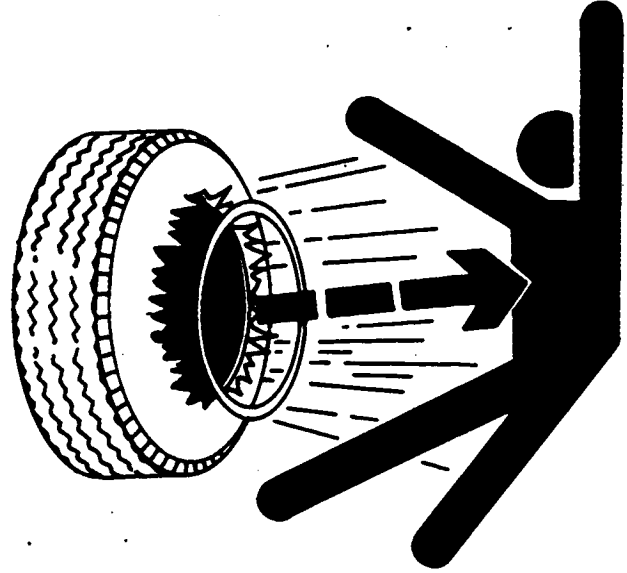
Explosive separation of a tire and rim parts can cause serious injury or death.

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.



TS211 -UN-23AUG88

DX,RIM -19-24AUG90-1/1

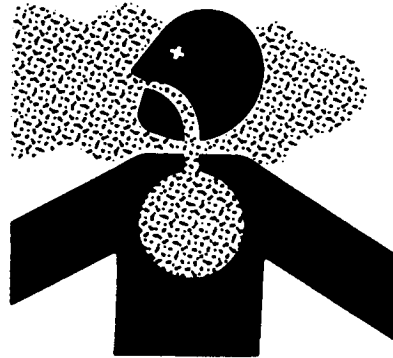
Avoid Harmful Asbestos Dust

Avoid breathing dust that may be generated when handling components containing asbestos fibers. Inhaled asbestos fibers may cause lung cancer.

Components in products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates, and some gaskets. The asbestos used in these components is usually found in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust containing asbestos is not generated.

Avoid creating dust. Never use compressed air for cleaning. Avoid brushing or grinding material containing asbestos. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, apply a mist of oil or water on the material containing asbestos.

Keep bystanders away from the area.



TS220 -UN-23AUG88

DX,DUST -19-15MAR91-1/1

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 be accidentally cut when heat goes beyond the immediate flame area.



TS953 -JUN-15MAY90

DX.TORCH -19-03MAR93-1/1

Remove Paint Before Welding or Heating

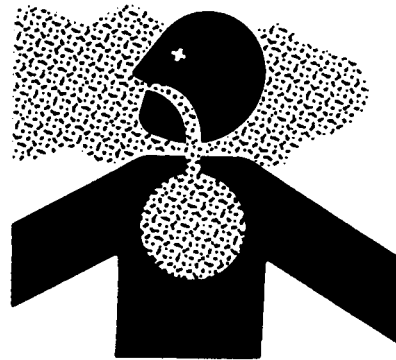
Avoid potentially toxic fumes and dust.

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

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- 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.



TS220 -JUN-23AUG88

DX.PAINT -19-03MAR93-1/1

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Use Proper Tools

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting John Deere specifications.



TS779 -UN-08NOV89

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

Dispose of Waste Properly

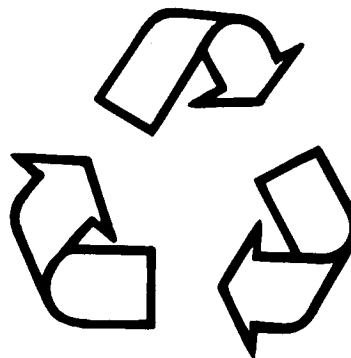
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



TS1133 -UN-26NOV90

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

Live With Safety

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.



TS231 -19-07OCT88

DX,LIVE -19-25SEP92-1/1

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Machine Specifications

NOTE: (Specifications and design subject to change without notice.)

| Item | Measurement | Specification |
|--|-------------|-----------------------------|
| 5105—3029D POWERTECH® Engine, Naturally Aspirated | | |
| Factory Observed PTO | Power | 29.8 kW (40 hp) at 2300 rpm |
| Maximum Engine | Torque | 170 N•m at 1400 rpm |
| Cylinders | Quantity | 3 |
| Bore | Distance | 106 mm (4.17 in.) |
| Stroke | Distance | 110 mm (4.33 in.) |
| Displacement | Volume | 2.9 L (179 cu in.) |
| Compression | Ratio | 17.4:1 |
| Cylinder Firing | Order | 1—2—3 |
| Intake Valve | Clearance | 0.35 mm (0.014 in.) |
| Exhaust Valve | Clearance | 0.45 mm (0.018 in.) |
| Slow Idle | Speed | 825 ± 25 rpm |
| Fast Idle | Speed | 2500 ± 25 rpm |
| Operating Range | Speed | 1400—2300 rpm |
| Injection Pump Timing | Position | 16.5° BTDC (TimeTrac) |
| 5205—3029D POWERTECH® Engine, Naturally Aspirated | | |
| Factory Observed PTO | Power | 35.8 kW (48 hp) at 2300 rpm |
| Maximum Engine | Torque | 188 N•m at 1400 rpm |
| Cylinders | Quantity | 3 |

General Specifications

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| Item | Measurement | Specification |
|-----------------------|-------------|-----------------------|
| Bore | Distance | 106 mm (4.17 in.) |
| Stroke | Distance | 110 mm (4.33 in.) |
| Displacement | Volume | 2.9 L (179 cu. in.) |
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| Exhaust Valve | Clearance | 0.45 mm (0.018 in.) |
| Slow Idle | Speed | 825 ± 25 rpm |
| Fast Idle | Speed | 2500 ± 25 rpm |
| Operating Range | Speed | 1400—2300 rpm |
| Injection Pump Timing | Position | 16.5° BTDC (TimeTrac) |

Electrical System—12-Volt, Negative Ground

| | | |
|----------------|---|----------------------------|
| Battery | Voltage Cold Cranking Amps BCI Group Size | 12-volt 700 CCA 28 H |
| Alternator | Amperage | 40 amps |
| Starting Motor | Voltage | 12 volts |

| Item | Measurement | Specification |
|------|-------------|---------------|
|------|-------------|---------------|

| | | |
|----------------|-------|----------|
| Power Take-Off | | |
| Engine—540 | Speed | 2200 rpm |

| Item | Measurement | Specification |
|------|-------------|---------------|
|------|-------------|---------------|

| | | |
|----------------------------|--------------|--------------------------|
| Hydraulic System | | |
| Pump Displacement—Steering | Displacement | 11.9 cu cm (0.73 cu in.) |

Continued on next page

AG.OUO1032,2637 -19-15SEP99-2/3

General Specifications

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| Item | Measurement | Specification |
|-----------------------------|--------------|--|
| Pump Displacement—Implement | Displacement | 20 cu cm (1.22 cu in.) |
| Steering ¹ | Flow Rate | 24.6 L/min. (6.5 gpm) |
| Implement ¹ | Flow Rate | 41.3 L/min. (10.9 gpm) |
| Steering (Maximum) | Pressure | 13 000—13 500 kPa (130—135 bar) (1885—1955 psi) |
| Implement (Maximum) | Pressure | 19 000—19 700 kPa (190—197 bar) (2755—2855 psi) |
| Hitch Lift | Capacity | 1355 kg (2990 lb) |

¹ Flow rate at 90% pump efficiency and engine at rated speed.

AG,OUO1032,2637 -19-15SEP99-3/3

Drain and Refill Capacities

| Item | Measurement | Specification |
|---|-------------|-------------------------------|
| Fuel Tank | Capacity | 85.5 L (22.6 gal) Approximate |
| Cooling System | Capacity | 8.93 L (2.4 gal) Approximate |
| Crankcase (including filter change) | Capacity | 7.5 L (7.9 qt) Approximate |
| SyncReverser™ Transmission | Capacity | 33 L (8.7 gal) Approximate |
| Mechanical Front Wheel Drive (MFWD)—If Equipped | | |
| Wheel Hubs (Each) | Capacity | 0.5 L (0.53 qt) Approximate |
| Axle Housing | Capacity | 4 L (4.2 qt) Approximate |

SyncReverser is a trademark of Deere & Company

AG,OUO1032,2638 -19-15SEP99-1/1

Machine Dimensions

NOTE: (Specifications and design subject to change without notice.)

NOTE: All dimensions are of a machine equipped with standard tires.

| Item | Measurement | Specification |
|---|-------------|----------------------------|
| 5105 with 2-Wheel Drive | | |
| Standard Front Tire | Size | 7.5-16 |
| Standard Rear Tire | Size | 14.9-28 |
| Overall Width (Outside Edge of Tires) | Width | 1753 mm (69.0 in.) minimum |
| Overall Length (Including Hitch Draft Links) | Length | 2766 mm (108.9 in.) |
| Overall Height from Ground-to-Top of Hood | Height | 1303 mm (51.3 in.) |
| Overall Height from Ground-to-Top of Steering Wheel | Height | 1551 mm (61.1 in.) |
| Overall Height from Ground-to-Top of Roll-Gard ROPS | Height | 2296 mm (90.4 in.) |
| Overall Height from Ground-to-Top of Folded ROPS | Height | 1900 mm (74.8 in.) |
| Overall Height from Ground-to-Top of Drawbar | Height | 424 mm (16.7 in.) |
| Overall Height from Ground-to-Crop Clearance—Front Axle | Height | 480 mm (18.9 in.) |
| Centerline of Rear Axle to Folded ROPS | Distance | 1257 mm (49.5 in.) |
| Wheelbase | Distance | 1950 mm (76.8 in.) |
| Turning Radius with Brakes | Radius | 2.44 m (8.8 ft) |
| Turning Radius without Brakes | Radius | 3.29 m (10.8 ft) |

Continued on next page

CED.OUO1032,2593 -19-25AUG99-1/5

General Specifications

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| Item | Measurement | Specification |
|---|-------------|----------------------------|
| Average Shipping Weight, Unballasted | Weight | 1848 kg (4075 lb) |
| 5105 with MFWD | | |
| Standard Front Tire | Size | 9.5-24 |
| Standard Rear Tire | Size | 14.9-28 |
| Overall Width (Outside Edge of Tires) | Width | 1753 mm (69.0 in.) Minimum |
| Overall Length (Including Hitch Draft Links) | Length | 3261 mm (128.4 in.) |
| Overall Height from Ground-to-Top of Hood | Height | 1303 mm (51.3 in.) |
| Overall Height from Ground-to-Top of Steering Wheel | Height | 1552 mm (61.1 in.) |
| Overall Height from Ground-to-Top of Roll-Gard ROPS | Height | 2296 mm (90.4 in.) |
| Overall Height from Ground-to-Top of Folded ROPS | Height | 1900 mm (76.8 in.) |
| Overall Height from Ground-to-Top of Drawbar | Height | 424 mm (16.7 in.) |
| Overall Height from Ground-to-Crop Clearance—Front Axle | Height | 368 mm (14.5 in.) |
| Centerline of Rear Axle to Folded ROPS | Distance | 1257 mm (49.5 in.) |
| Wheelbase | Width | 1950 mm (76.8 in.) |
| Turning Radius with Brakes ¹ | Radius | 3.02 m (9.9 ft) |

¹ With MFWD disengaged.

Continued on next page

CED,OUO1032,2593 -19-25AUG99-2/5

General Specifications

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| Item | Measurement | Specification |
|---|-------------|----------------------------|
| Turning Radius without Brakes | Radius | 3.32 m (10.9 ft) |
| Average Shipping Weight, Unballasted | Weight | 2030 kg (4475 lb) |
| Item | | |
| Measurement | | |
| Specification | | |
| 5205 with 2-Wheel Drive | | |
| Standard Front Tire | Size | 7.5-16 |
| Standard Rear Tire | Size | 14.9-28 |
| Overall Width (Outside Edge of Tires) | Width | 1753 mm (69.0 in.) minimum |
| Overall Length (Including Hitch Draft Links) | Length | 2766 mm (108.9 in.) |
| Overall Height from Ground-to-Top of Hood | Height | 1303 mm (51.3 in.) |
| Overall Height from Ground-to-Top of Steering Wheel | Height | 1551 mm (61.1 in.) |
| Overall Height from Ground-to-Top of Roll-Gard ROPS | Height | 2296 mm (90.4 in.) |
| Overall Height from Ground-to-Top of Folded ROPS | Height | 1900 mm (74.8 in.) |
| Overall Height from Ground-to-Top of Drawbar | Height | 424 mm (16.7 in.) |
| Overall Height from Ground-to-Crop Clearance—Front Axle | Height | 480 mm (18.9 in.) |
| Centerline of Rear Axle to Folded ROPS | Distance | 1257 mm (49.5 in.) |
| Wheelbase | Distance | 1950 mm (76.8 in.) |
| Turning Radius with Brakes | Radius | 2.44 m (8.8 ft) |
| Turning Radius without Brakes | Radius | 3.29 m (10.8 ft) |

Continued on next page

CED.OUO1032,2593 -19-25AUG99-3/5

General Specifications

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| Item | Measurement | Specification |
|---|-------------|----------------------------|
| Average Shipping Weight, Unballasted | Weight | 1848 kg (4075 lb) |
| 5205 with MFWD | | |
| Standard Front Tire | Size | 9.5-24 |
| Standard Rear Tire | Size | 14.9-28 |
| Overall Width (Outside Edge of Tires) | Width | 1753 mm (69.0 in.) Minimum |
| Overall Length (Including Hitch Draft Links) | Length | 3261 mm (128.4 in.) |
| Overall Height from Ground-to-Top of Hood | Height | 1303 mm (51.3 in.) |
| Overall Height from Ground-to-Top of Steering Wheel | Height | 1552 mm (61.1 in.) |
| Overall Height from Ground-to-Top of Roll-Gard ROPS | Height | 2296 mm (90.4 in.) |
| Overall Height from Ground-to-Top of Folded ROPS | Height | 1900 mm (76.8 in.) |
| Overall Height from Ground-to-Top of Drawbar | Height | 424 mm (16.7 in.) |
| Overall Height from Ground-to-Crop Clearance—Front Axle | Height | 368 mm (14.5 in.) |
| Centerline of Rear Axle to Folded ROPS | Distance | 1257 mm (49.5 in.) |
| Wheelbase | Width | 1950 mm (76.8 in.) |
| Turning Radius with Brakes ¹ | Radius | 3.02 m (9.9 ft) |

¹ With MFWD disengaged.

Continued on next page

CED,OUO1032,2593 -19-25AUG99-4/5

General Specifications

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| Item | Measurement | Specification |
|---|--------------------|----------------------|
| Turning Radius without Brakes | Radius | 3.32 m (10.9 ft) |
| Average Shipping Weight, Unballasted | Weight | 2030 kg (4475 lb) |

CED,OUO1032,2593 -19-25AUG99-5/5

Ground Speed Estimates

NOTE: Ground Speed—km/h (mph) at 2300 rpm engine speed.

| Item | Measurement | Specification |
|-----------------------|-------------|------------------------|
| Rear Tires—14.9-28 R1 | | |
| Gear A-1 | Speed | 3.0 km/h (1.86 mph) |
| Gear A-2 | Speed | 4.29 km/h (2.67 mph) |
| Gear A-3 | Speed | 6.07 km/h (3.77 mph) |
| Gear A-4 | Speed | 8.50 km/h (5.28 mph) |
| Gear B-1 | Speed | 10.48 km/h (6.51 mph) |
| Gear B-2 | Speed | 14.99 km/h (9.32 mph) |
| Gear B-3 | Speed | 21.19 km/h (13.17 mph) |
| Gear B-4 | Speed | 29.70 km/h (18.46 mph) |
| Gear R-1 | Speed | 3.58 km/h (2.23 mph) |
| Gear R-2 | Speed | 5.12 km/h (3.18 mph) |
| Gear R-3 | Speed | 7.24 km/h (4.50 mph) |
| Gear R-4 | Speed | 10.15 km/h (6.31 mph) |
| Rear Tires—16.9-28 R1 | | |
| Gear A-1 | Speed | 3.14 km/h (1.94 mph) |
| Gear A-2 | Speed | 4.48 km/h (2.79 mph) |
| Gear A-3 | Speed | 6.34 km/h (3.94 mph) |
| Gear A-4 | Speed | 8.88 km/h (5.52 mph) |
| Gear B-1 | Speed | 10.95 km/h (6.80 mph) |
| Gear B-2 | Speed | 15.66 km/h (9.74 mph) |
| Gear B-3 | Speed | 22.14 km/h (13.76 mph) |

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| Item | Measurement | Specification |
|-----------------------|-------------|------------------------|
| Gear B-4 | Speed | 31.04 km/h (19.29 mph) |
| Gear R-1 | Speed | 3.74 km/h (2.33 mph) |
| Gear R-2 | Speed | 5.35 km/h (3.32 mph) |
| Gear R-3 | Speed | 7.56 km/h (4.70 mph) |
| Gear R-4 | Speed | 10.61 km/h (6.59 mph) |
| Rear Tires—13.6-28 R1 | | |
| Gear A-1 | Speed | 2.87 km/h (1.78 mph) |
| Gear A-2 | Speed | 4.11 km/h (2.56 mph) |
| Gear A-3 | Speed | 5.82 km/h (3.62 mph) |
| Gear A-4 | Speed | 8.15 km/h (5.06 mph) |
| Gear B-1 | Speed | 10.05 km/h (6.24 mph) |
| Gear B-2 | Speed | 14.38 km/h (8.94 mph) |
| Gear B-3 | Speed | 20.32 km/h (12.63 mph) |
| Gear B-4 | Speed | 28.48 km/h (17.70 mph) |
| Gear R-1 | Speed | 3.43 km/h (2.14 mph) |
| Gear R-2 | Speed | 4.16 km/h (3.05 mph) |
| Gear R-3 | Speed | 6.94 km/h (4.32 mph) |
| Gear R-4 | Speed | 9.73 km/h (6.05 mph) |
| Rear Tires—16.9-24 R1 | | |
| Gear A-1 | Speed | 2.91 km/h (1.80 mph) |
| Gear A-2 | Speed | 4.16 km/h (2.59 mph) |
| Gear A-3 | Speed | 5.89 km/h (3.66 mph) |
| Gear A-4 | Speed | 8.24 km/h (5.12 mph) |

Sample manual. Download All 894 pages at:

<https://www.bobmanualstore.com/downloads/john-deere-5105-and-5205-tractor-service-repair-technical-manual/>

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