Maxxum Tractors
5120, 5130, 5140 and 5150

P.I.N JJF1050700 and after

Operator's Manual

Don 9-27315

CASE IH

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SAFETY RULES

Before operating, read and comply with the operators manual and safety instructions.

Understand that your safety and the safety of other persons is measured by how you service, and operate this machine. Know the positions and operations of all controls before you try to operate. MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.

READ THIS MANUAL COMPLETELY and make sure you understand the controls. All equipment has a limit. Make sure you understand the speed, brakes, steering, stability, and load characteristics of this machine before you start to operate.

The safety information given in this manual does not replace safety codes, insurance needs, federal, state and local laws. Make sure your machine has the correct equipment needed by the local laws and regulations.

CASE is continuing to work for your safety: by making tractors with better protection and by giving these rules for safe operation.

THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH. M171B

Intended Use

This Case tractor is designed solely for use in customary agricultural or similar operation (intended use).

Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for any damage or injury resulting from this misuse and these risks must be born solely by the user.

Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitutes essential elements for the intended use.

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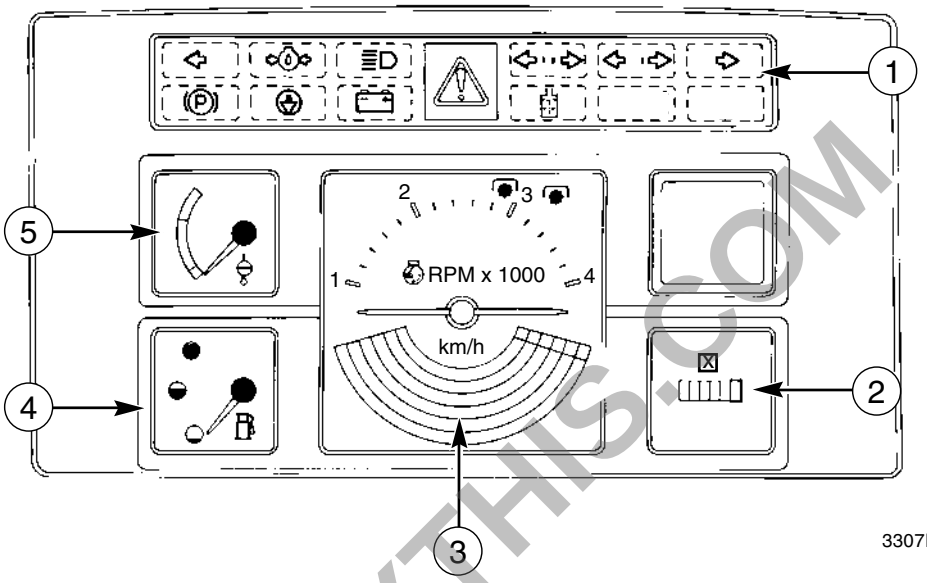
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STANDARD INSTRUMENT CLUSTER



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1. INDICATOR LAMPS - These lamps illuminate to tell the operator that there is a fault in a system or that the function chosen is operating. See Indicator Lamps on Page 21 of this manual.

2. HOURMETER - The hourmeter shows engine running hours, white numbers, and tenths of hours, red number.

3. TACHOMETER/SPEEDOMETER - The upper part shows the engine revolutions per minute (RPM), a symbol indicates the RPM for each PTO speed. The lower part shows the tractor travel speed for each gear in km/h. The numbers indicated on the right at the beginning of each segment correspond to the transmission gear positions. The numbers along each segment indicate the tractor speed in that gear.

4. FUEL GAUGE - The fuel gauge indicates how much fuel is in the fuel tank. The lower symbol indicates empty, the centre symbol indicates half full and the upper symbol indicates full.

5. ENGINE COOLANT TEMPERATURE GAUGE - The gauge is divided into three sections marked in three colors.

   The pointer in the yellow area indicates low temperature.
   The pointer in the green area indicates normal working temperature.
   The pointer in the red area indicates overheating. STOP THE ENGINE AND CHECK THE CAUSE IMMEDIATELY.

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6. FORE/AFT - The operator seat is adjustable fore and aft for individual operator size. To adjust the fore/aft position of the seat, lift the lever. Slide the seat to the required position. Release the lever to lock the seat in position.

7. HEIGHT ADJUSTMENT - This lever has two functions:

   A. Automatic Weight Adjustment - This must be carried out with the operator seated on the operators seat. Lift the lever and release, the seat will then be automatically adjusted to the operators weight.

   B. Height Adjustment - Lift the lever, slide the lever forwards or backwards to select the required height adjustment. Release the lever.

8. ISOLATOR - The seat can be held stationary, or set for isolator operation, in the selected fore/aft position. The isolator will allow the seat to move fore and aft with the operator to absorb shocks, and reduce operator fatigue, when operating on rough terrain. Adjust the seat as follows:

   A. To set for isolator operation, rotate the lever from right to left to the isolator position. The seat will be free to move fore and aft within the travel limits of the isolator shock absorber.

   B. To lock the seat isolator and hold the seat in a stationary fore/aft position, rotate the lever from the left to the right to the locked position.

9. SEAT CUSHION ADJUSTMENT - The front portion of the seat cushion can be adjusted up or down as needed to provide support for the operators thighs. There are two adjustment positions. Turn the adjusting knob to set the cushion for the desired position.

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Power Shift Transmission Diagnostic Codes

The transmission control module monitors the operation of the MAXXUM transmission. When a fault is detected the "CHECK TRANS" light on the instrument panel will illuminate.

The diagnostic code is read by holding the clutch pedal to the floor and counting the number of times the "CHECK TRANS" light flashes.

NOTE: The transmission control module is not equipped with a diagnostic code memory, therefore the operator must count the flashes as they occur. Turning off the engine will reset the control module and the fault code will be lost.

The diagnostic codes are described as follows:

Lamp Flashing Code	Possible Faults
One Flash	Indicates the module is receiving none or multiple shift lever signals.
Two Flashes	Indicates off going clutch pressure circuit failure or a failure that has prevented the pressure from going down.
Three Flashes	Indicates the temperature sensor or it's circuit has shorted or is open. Controller defaults to hot temperature.
Four Flashes	Indicates that one or more of the powershift solenoids have shorted to ground.
Five Flashes	Indicates on coming clutch pressure circuit failure, or failure that has prevented a clutch pressure from coming up.
Six Flashes	Indicates no clutch pressure or multiple pressures detected.
More than Six Flashes, Tractor Drives	Tractor still moves, indicates clutch pedal switch circuit failure.
Light on Steady Tractor Drives	Indicates the control module has received none or multiple shift lever signals. Should read one flash when the clutch pedal is held down.

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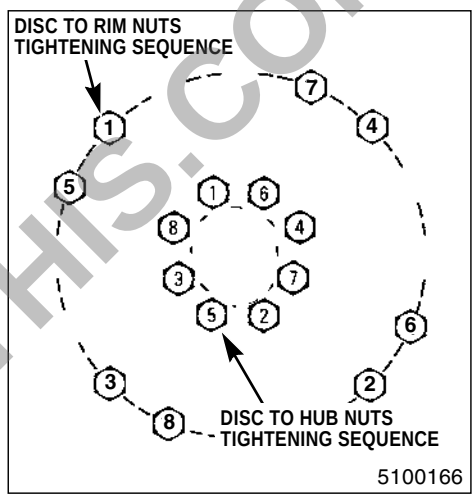
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Front Wheel, Disc and Rim Bolt Mounting Torques

Mechanical Front Drive Tractors

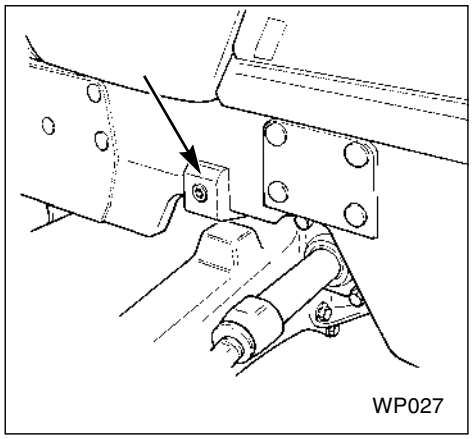
The front wheel bolt hardware must be correctly torqued when the unit has been serviced or after wheel tread spacing has been adjusted. All front wheel bolt hardware must be torqued again after the first 30 minutes of use and every 10 hours thereafter until the torques stabilize.

1. Tighten the disc to rim nuts to a torque of 210 to 250 Nm (155 to 185 lb ft) in the numbered sequence shown.
2. Tighten the disc to front axle hub nuts to a torque of 300 to 350 Nm (221 to 250 lb ft) for new nuts and 400 to 450 Nm (295 to 332 lb ft) for used nuts in the numbered sequence shown.
3. The disc must fit flush against the rim clamps when assembled.



Front Axle Oscillation Stop (If Equipped)

To prevent the tires making contact with the tractor parts at some of the lower tread widths, an axle oscillation stop has to be installed to reduce the axle oscillation from 12 degrees to 9 degrees.The charts on page 173 to 176 indicate when this is necessary.



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4. BACK REST - To adjust the back rest, lift the control and tilt the back rest to the needed position. Release the control to hold the back rest in the selected position.

5. FORE/AFT ADJUSTMENT - The operator seat is adjustable fore and aft for individual operator size.

   To adjust the fore/aft position of the seat, move the lever to the left to release the lock. Move the seat to the needed position and release the lever. The lever will return to the "locked" position and will hold the seat stationary in the fore/aft direction.

6. RIDE FIRMNESS CONTROL - The amount of firmness can be adjusted for personal comfort according to the operators weight. Turn the control counterclockwise for a softer ride. Turn the control clockwise for a firmer ride.

7. SEAT TILT - The front of the operators seat can be tilted upward to reduce pressure on the back of the operators legs to reduce operator fatigue. To tilt the cushion, turn the control clockwise (towards the rear).

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CAPACITIES

Engine

5120 ..... Without filter change 9.5 Litres (2 UK gallons)
With filter change 10.4 Litres (2.3 UK gallons)

5130, 5140, 5150 ..... Without filter change 14.3 Litres (3.1 UK gallons)
With filter change 15 Litres (3.3 UK gallons)

Cooling System

5120 ..... With cab 17.6 Litres (3.9 UK gallons)
Without cab 15.7 Litres (3.5 UK gallons)

5130, 5140, 5150 ..... With cab 20.8 Litres (4.6 UK gallons)
Without cab 18.9 Litres (4.2 UK gallons)

Transmission/Hydraulic System

Approximate refill capacity ..... 75 to 80 Litres (16.5 to 17.6 UK gallons)

MFD Axle

Differential ..... 6.5 Litres (1.5 UK gallons)
Planetaries ..... 0.9 Litres (0.2 UK gallons)

Fuel Tank

Standard ..... 135 Litres (29.7 UK gallons)
Optional ..... 170 Litres (37.4 UK gallons)

Front PTO ..... 2.75 Litres (0.6 UK gallons)

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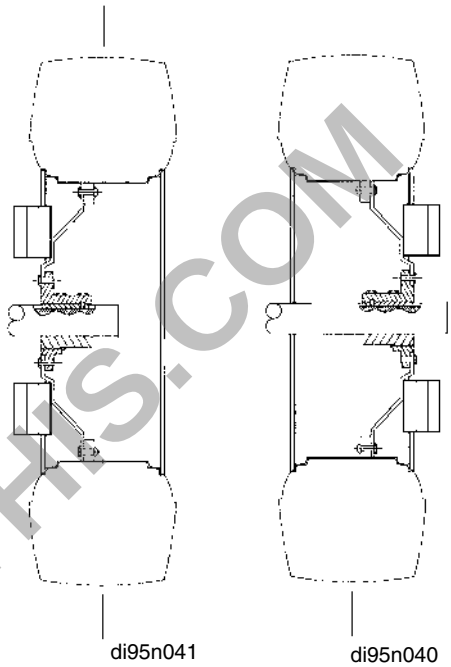
Rear Wheel Weights

Rear wheel weights, at 60 kg (132 pound) each, are available from your Dealer. Use the wheel weights as needed to provide safe and efficient tractor operation. Do not add more weight to the rear wheels of your tractor than is needed to achieve the correct tractor static weight distribution and the correct amount of wheel slip. See Tractor Weight Distribution in this manual for recommendations on ballasting procedures.

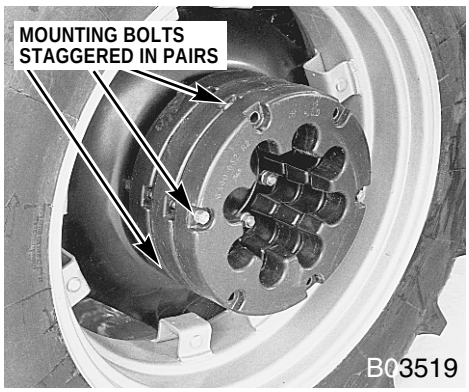
IMPORTANT: Lift the rear wheel above the ground and turn the wheel 180 degrees for each weight installed, changing the position of each weight to get correct balance alignment. A maximum of 3 weights per wheel can be used. The 3 weights can be installed on the inside or outside of the wheels as shown.

IMPORTANT: Weights can only be mounted on inside or outside, not both. Inside weights must not extend over axle housing casting.

IMPORTANT: Wheel weights CAN NOT be used when dual wheels are installed. Liquid weight can only be added to the inner wheel and front end weights can also be installed.



WEIGHTS FOR BAR AXLE



WEIGHTS FOR FLANGE AXLE

IMPORTANT: The total tractor weight with all equipment and ballast weight must never be more than the maximum recommended operating weight See Maximum Recommended Operating Weight in this manual. Observe tire capacities and any possible legal limitations.

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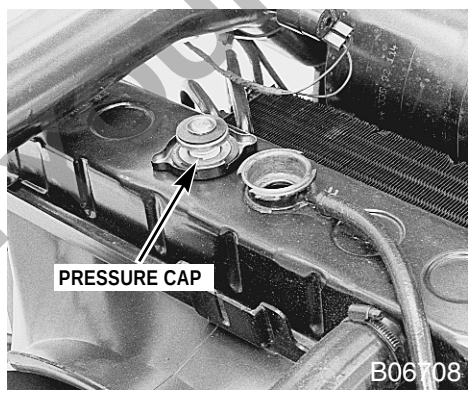
COOLING SYSTEM

Service Specifications

Reservoir Coolant Level Check Interval ..... Every 10 hours of operation or daily
Radiator Coolant Level Check Interval Every..... 50 hours of operation
Coolant Change Interval.....Every 2000 hours of operation (or every two years)
Coolant Capacity - 5120.....With Cab 17.6 Litres (3.9 UK gallons)
Without Cab 15.7 Litres (3.5 UK gallons)
Coolant Capacity - 5130, 5140, 5150.....With Cab 20.8 Litres (4.6 UK gallons)
Without Cab 18.9 Litres (4.2 UK gallons)
Thermostat Opening Temperature ..... 83 to 95˚C (181 to 203˚F)
Radiator Cap Pressure.....103 kPa (15 psi)
Check and Tighten Coolant Hose Clamps ..... Every 250 Hours of operation

Radiator Pressure Cap

WARNING: Check and service cooling system according to maintenance instructions. Hot coolant can spray out if radiator cap is removed while system is hot. To remove radiator cap, let system cool, turn to first notch, then wait until all pressure is released. Scalding can result from fast removal of radiator cap. M141B



The pressure cap on a pressure cooling system has a control valve that operates as a SAFETY RELIEF VALVE to keep the pressure within the system operating range. Operating the engine without a pressure cap or with a pressure cap that has a control valve that is not set to operate at the correct pressure, can cause damage.

A pressure cooling system decreases the loss of coolant caused by evaporation or boiling. The system must have good seals at the radiator cap, hoses and hose connections. It is important that you stop ALL LEAKS OF ANY SIZE as soon as the leaks are found. A small leak can become a large flow when pressure is increased in the cooling system. While the tractor is in operation, a weak hose can break and cause injury or damage. Check all hoses and hose connections at frequent intervals. KEEP HOSES, HOSE CONNECTIONS AND PRESSURE CAP IN GOOD CONDITION. If leaks are found, check radiator coolant level.

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Work Lamps

NOTE: Do not touch the glass of a Halogen bulb with your hands. If the glass is touched, it must be cleaned with suitable cleaner or alcohol.

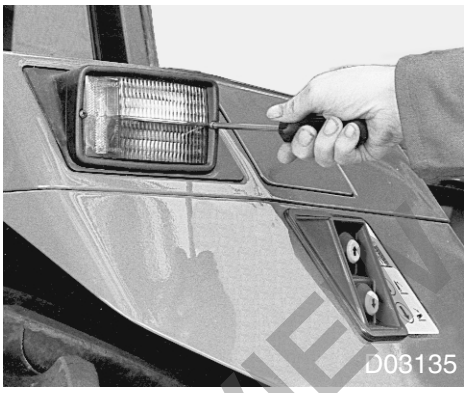




To replace the bulb:

1. Remove the two retaining screws and pull the lamp assembly out. Disconnect the two wires from the lamp assembly.
2. Remove the bulb retaining clip and remove the bulb. Install new bulb and install the retaining clip. Connect the two wires for the lamp assembly.
3. Install the lamp assembly and the two retaining screws.

Tail/Stop/Rear Turn Indicator Lamps





To replace the bulb:

1. Remove the lens retaining screws and the lens.
2. To remove a bulb, push bulb in and turn counterclockwise then pull out.
3. Push the new bulb straight into the socket, turn clockwise and release.
4. Install the lens and retaining screws.

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