245/255 Tractor

Operators Manual

9-12471

Reprinted

CASE

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SAFETY
Safety Rules

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 IH 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.

The safety decals on this machine contain instructions for your safety, and are reproduced on the following pages. Read their safety messages before operating this machine.

Additional safety messages are included throughout this manual. Read the section pertaining to your activity before you start. Refer to page locations in the TABLE OF CONTENTS.

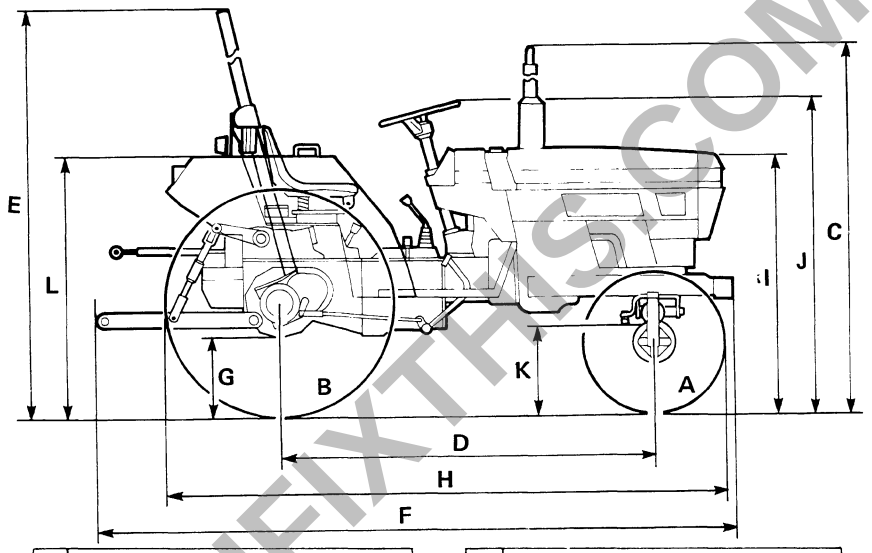
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APPROXIMATE MEASUREMENTS AND WEIGHTS
255 2WD Tractor with Non-Adjustable Front Axle and 2 Post ROPS



A	5.00 - 15 F2 TIRE	B	11.2 - 24 R1 TIRE		
C	78.9 INCH (2005 mm)	D	65.9 INCH (1675 mm)	E	82.5 INCH (2095 mm)
F	111.8 INCH (2840 mm)	G	14.4 INCH (365 mm)	H	100.4 INCH (2550 mm)
I	44.7 INCH (1135 mm)	J	54.9 INCH (1395 mm)	K	16.3 INCH (415 mm)
		L	45.9 INCH (1165 mm)		

Turning Radius Without Brake Assistance. . . . . 110 Inch (2800 mm)
Turning Radius With Brake Assistance . . . . . 106 Inch (2700 mm)

Approximate Tractor Weight

Approximate Weight Equipped as Noted . . . . . Front 661 lbs (300 kg)
Rear 1246 lbs (565 kg)

Total 1907 lbs (865 kg)

NOTE: *Weight is based on tractor equipped with most common optional equipment, minimum fuel, no iron or liquid ballast and no operator.*

Machine Weight

Maximum Front Axle Load.....2624 lb (1 190 kg)
Maximum Rear Axle Load.....2646 lb (1 200 kg)
Maximum Tractor Operating Weight.....3850 lb (1 746 kg)

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Operation

WARNING: *Operate controls only when seated in the Operators seat.*

WARNING: *Travel speed should be such that complete control and machine stability is maintained at all times. Where possible, avoid operating near ditches, embankments and holes. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.*

WARNING: *Tractors equipped with mechanical front drive (MFD) have increased traction and can climb steeper slopes. Stay off slopes too steep for safe operation. To prevent rear overturns, back up steeper slopes.*

CAUTION: *Do not drive on roads, or at high speed anywhere, with the differential lock engaged. Difficult steering will occur, and can result in an accident. In field operation, use the differential lock for traction improvement, but release for turning at row ends.*

WARNING: *Collision of high speed road traffic and tractors or implements can cause personal injury or death. On roads, use flasher/lights according to local laws. Keep SMV emblem visible. Pull over to let faster traffic pass. Slow down and signal before turning off.*

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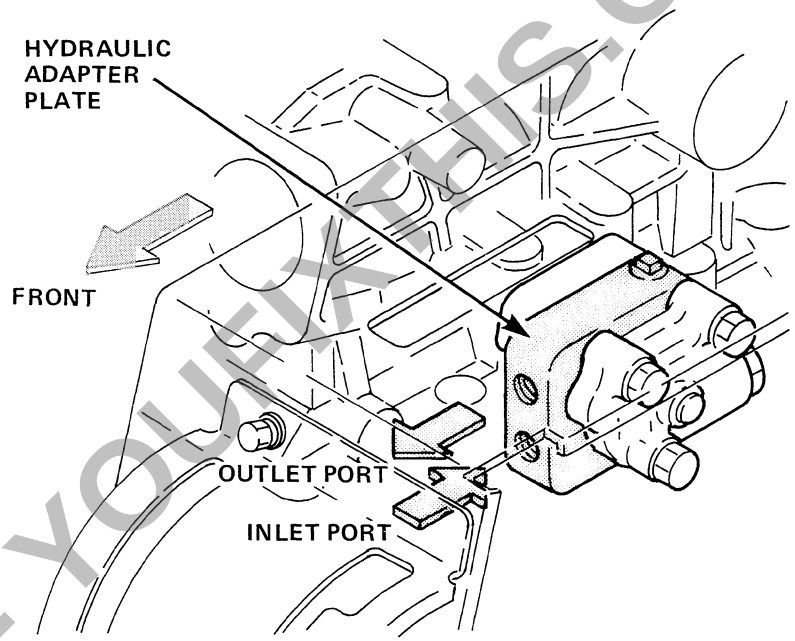
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HYDRAULIC ADAPTER PLATE

An auxiliary control valve installed on an implement for a single or double acting cylinder can be connected to the hydraulic circuit of the tractor.

A hydraulic adapter package is available from your dealer.

NOTE: *The auxiliary control valve for the implement must have a relief valve to avoid damaging the tractor hydraulic system.*



NOTE: *When transporting the tractor on the road with the implement mounted on the three point hitch, always set the hydraulic flow control knob to the LOCK position.*

IMPORTANT: *Never park a tractor with an implement in the raised position. Moving the control lever forward will lower the implement even though the engine is not running. If it is necessary to service the implement in the raised position, use jack stands to safely block the implement in place. Put the hydraulic flow control knob in the LOCK position.*

IMPORTANT: *Never plug the inlet and outlet of the adapter plate. Install a jumper hose on the adapter plate if the remote attachment is not installed. Failure to do so will cause damage to the hydraulic system.*

NOTE: *An hydraulic adapter plate can not be installed on a tractor with a remote hydraulic control valve.*

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ADDING FLUID AFTER CONNECTING CYLINDERS AND HOSES

Operate the engine at a moderate idle speed. Set the stroke stop at the yoke end of the cylinder rod to provide maximum stroke. Then operate the cylinder in both directions about ten times, by moving the control lever back and forth.

This will fill the cylinder and hoses with fluid and remove the air from the system. Fill the cylinder completely, stop the engine and check the fluid level with the transmission dipstick.

Add sufficient, clean HY-TRAN PLUS fluid to bring the oil up to the proper level. See TRANSMISSION AND HYDRAULIC LUBRICATION IN THIS MANUAL.

NOTE: *If any of the hydraulic units are removed and replaced for any reason, check the oil level and add HY-TRAN PLUS fluid to the transmission to bring the oil up to the proper level.*

CAUTION: ***When remote cylinders are connected to the hydraulic system, cycle the control lever about three times to remove air from the cylinder and hoses. With air in the system raised equipment can drop accidentally and cause personal injury or machine damage.***

WARNING: ***Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury.***

To Prevent Personal injury:

Relieve all pressure, before disconnecting lines.

Before applying pressure, make sure all connections are tight and components are in good condition.

Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose.

If injured by leaking fluid, see your doctor immediately.

CAUTION: ***The implement should be lowered to the ground before uncoupling of the remote hydraulic hoses.***

WARNING: ***Lower or block elevated implements and other attachments before servicing or when leaving the equipment.***

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Hydraulic System

Type of Cylinder . . . . . Single Acting Type
Hydraulic Pump . . . . . Front Mounted, Engine Driven, Pressure Loading Gear Type.

Pump Capacity
245 without Live PTO and Power Assisted Steering
. . . . . 4.6 GPM (17.4 l/min) at 2700 Engine RPM
245 with Live PTO and/or Power Assisted Steering
. . . . . 5.9 GPM (22.2 l/min) at 2700 Engine RPM
255 without Live PTO and Power Assisted Steering
. . . . . 4.8 GPM (18.0 l/min) at 2800 Engine RPM
255 with Live PTO and/or Power Assisted Steering
. . . . . 6.1 GPM (23.0 l/min) at 2800 Engine RPM
Maximum System Pressure . . . . . 1990 PSI (13730 kPa)
Remote Control Valve . . . . . One Double Acting Auxiliary Valve Available.
Hydraulic Adapter Plate . . . . . One Plate Available.
Connector Size . . . . . 3/8 Inch

Power Takeoff (PTO)

PTO Type . . . . . Transmission Driven Type (Live PTO Available)
PTO Location . . . . . Rear PTO At the Rear of Transmission
Mid PTO (If Equipped) At the Bottom of Transmission
Rotation . . . . . Rear PTO Clockwise from the Rear of Tractor
Mid PTO (If Equipped) Counterclockwise from the Rear of Tractor
Output Shaft Size . . . . . Rear PTO, 1.375 Inch (34.9 mm) Diameter, 6 Splines
Mid PTO (If Equipped) 1 inch (25 4 mm) Diameter, 15 Involute Splines

IMPORTANT: *The lock plate for the PTO control lever must be installed in the 1150 RPM position for operation of the Mid PTO.*

PTO Speed . . . . . Rear PTO, 540 RPM at 2695 Engine RPM and 1150 RPM at 2720 Engine RPM
Mid PTO-If Equipped, 2400 RPM at 2610 Engine RPM

Drawbar

Type . . . . . Fixed Type with Storage Position
Horizontal Position . . . . . Distance from Hitch Hole to the End of PTO Shaft, 14 Inch (356 mm)
Maximum Vertical Load on Drawbar . . . . . 300 Lb (136 kg)

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Rear Work Lamp (If Equipped)

The rear work lamp is turned on by the switch on the lamp. The starter key switch must be in the ON position before the work lamp can be turned on.

IMPORTANT: *Do not turn on the rear work lamp while travelling on public roads.*



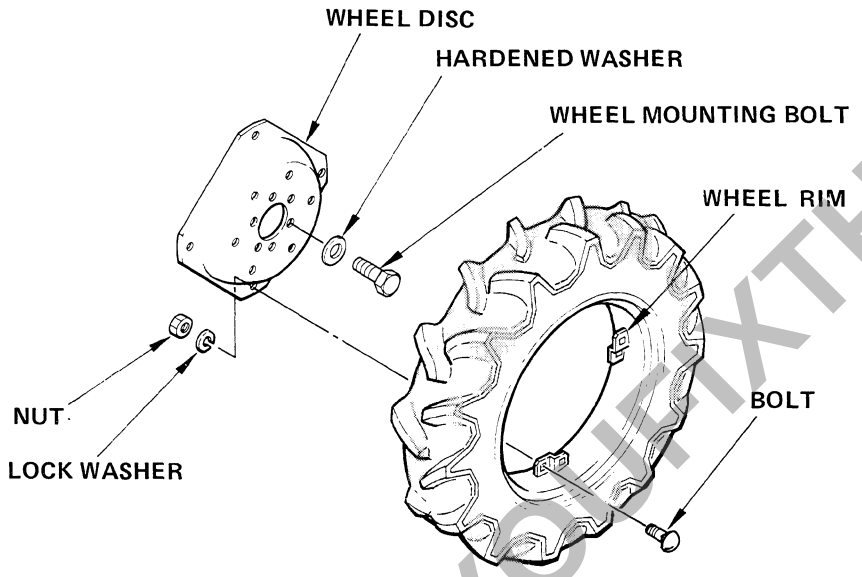
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REAR WHEEL ADJUSTMENTS

Tractor Equipped with Adjustable Wheels

If you need to change the position of the discs and rims of the wheels, use the following procedure:



1. Put blocks at the front wheels, lift the rear of the tractor and put bolcks under the tractor.

2. Remove six wheel mounting bolts at each wheel to remove rear wheels from rear axles.

3. Remove four wheel rim to wheel disc bolts and nuts at each wheel.

4. Install the wheel discs and rims in the required position shown in the Rear Wheel Tread Positions in this manual.

5. Tighten the wheel rim to wheel disc nuts to a torque of 112 to 127 lb ft (152 to 172 Nm).

6. Put the rear wheels on the rear axles and tighten the wheel mounting bolts with hardened washers to a torque of 87 to 98 lb ft (118 to 132 Nm).

NOTE: *When putting the wheels on the axles, make sure that the tires rotate in the correct direction. See Tire Installation in this manual.*

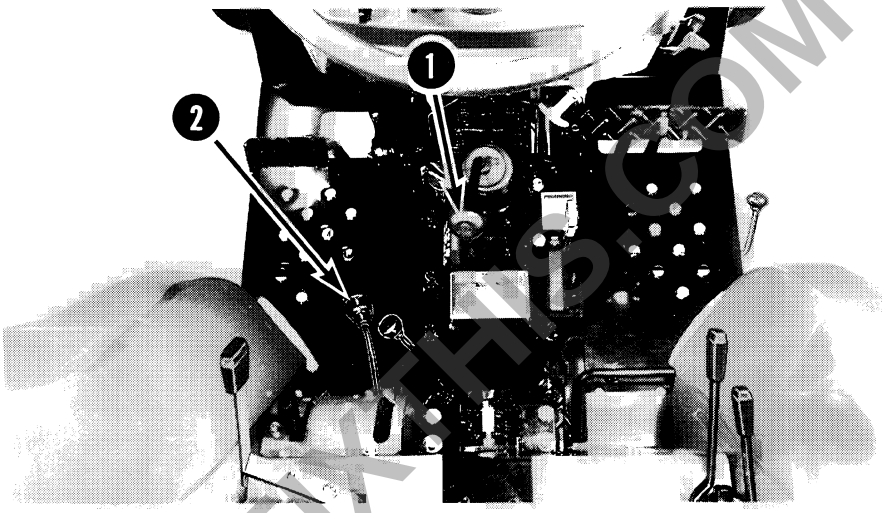
IMPORTANT: *When adjusting wheels, check nut and bolt torques after 10 hours of operation and every 100 hours thereafter.*

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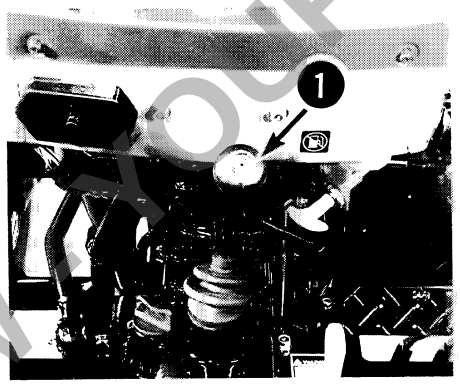
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OPERATING CONTROLS

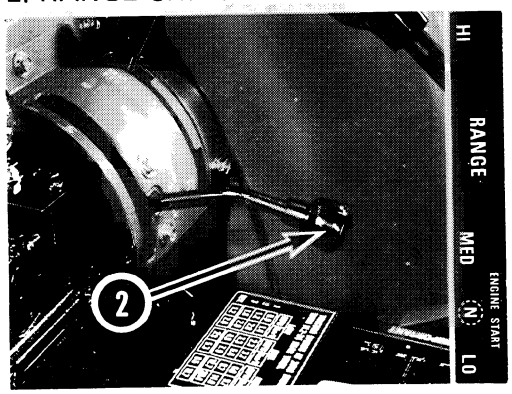
Control Levers



1. GEAR SHIFT LEVER — The gear shift lever is used to shift the transmission gears into reverse or any of the three forward speeds.



2. RANGE SHIFT LEVER — Move the range shift lever forward to place the transmission in LO range. Move the lever rearward to place the transmission in MED or HI range. The center position between MED and LO places the transmission in N.



NOTE: *Be sure the range shift lever is in the N (Engine start) slot when starting the engine.*

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