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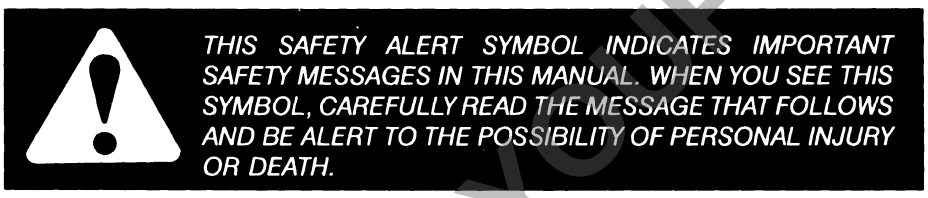
SAFETY
Safety Rules

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.



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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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.*

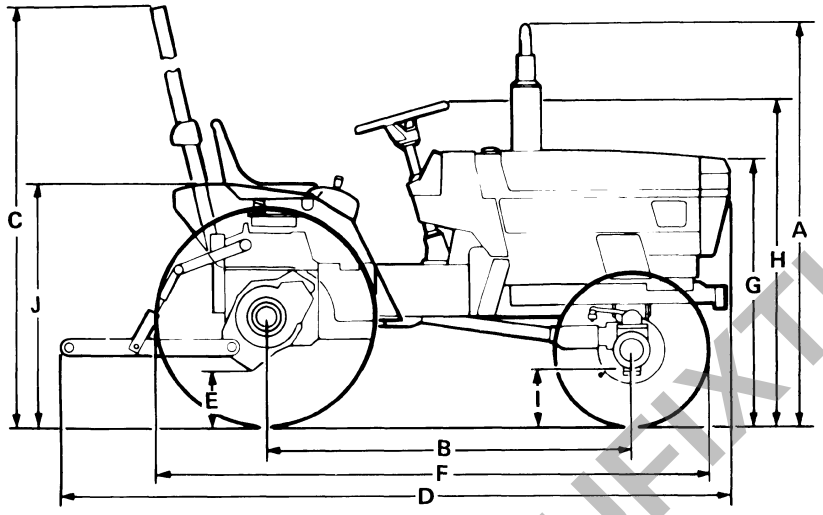
WARNING: *Collision of high speed road traffic and tractors or implements can cause personal injury or death. On roads, use flasher/lights according to local laws. Keep SMV emblem visible. Pull over to let faster traffic pass. Slow down and signal before turning off.*

WARNING: *Stay off slopes too steep for safe operation. Shift down before you start up or down a hill with a heavy load. Avoid "free wheeling".*

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APPROXIMATE MEASUREMENTS AND WEIGHTS
235 (Hydrostatic Drive) MFD Tractor with 2 Post ROPS



TIER AND WHEEL EQUIPMENT FOR DATA SHOWN BELOW	
Front – 5.00 x 12 FSLM	Rear – 8 x 18 FSLH
A. 73.2 Inch (1860 mm)	F. 84.0 INch (2135 mm)
B. 56.0 Inch (1422 mm)	G. 39.2 Inch (995 mm)
C. 78.9 Inch (2005 mm)	H. 48.2 Inch (1225 mm)
D. 102.5 Inch (2605 mm)	I. 9.4 Inch (240 mm)
E. 7.7 Inch (195 mm)	J. 36.2 Inch (920 mm)

Turning Radius Without Brake Assistance. . . . . 88.6 Inch (2250 mm)
Turning Radius With Brake Assistance . . . . . 82.7 Inch (2100 mm)

Approximate Tractor Weight

Approximate Weight Equipped as Noted. . . . . Front 595 lbs (270 kg)
Rear 904 lbs (410 kg)

Total 1499 lbs (680 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 . . . . . 1764 lb (800kg)
Maximum Rear Axle Load . . . . . 1709 lb (775kg)
Maximum Tractor Operating Weight . . . . . 2926 lb (1327kg)

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TIRE AND WHEEL SPECIFICATIONS

Front

TIRE SIZE	TIRE RATING	TREAD TYPE	RIM SIZE	MAX. LOAD CAPACITY AT MAX. INFLATION PRESSURE	INFLATION PRESSURE
4.50–10	4 PLY	FSR	3.00D–10	540LB (245 Kg)	42 PSI (300 kPa)
5.00–10	4 PLY	FSR	3.00D–10	615LB (280 Kg)	40 PSI (280 kPa)
20 x 8.00–10	4 PLY	PD	6.00I–10	895LB (405 Kg)	24 PSI (160kPa)
18 x 7.00–8	4 PLY	PD	5.50–8	675LB (305 Kg)	28 PSI (200kPa)
5.00–12	4 PLY	FSLM	4JA–12	560LB (255 Kg)	28PSI (200kPa)
6–12	4 PLY	FSLM	5JA–12	595LB (270 Kg)	28PSI (200kPa)
6–14	4 PLY	FD	5JA–14	670LB (305 Kg)	28PSI (200kPa)
20.5x8.00–10	4 PLY	PD	6.00I–10	930LB (420 Kg)	24PSI (165kPa)

Rear

8–18	4 PLY	FSLH	W6–18	1145LB (520 Kg)	12 to 23 PSI (83 to 159kPa)
9.5–16	4 PLY	FSLF	W8–16	1220LB (555 Kg)	12 to 20 PSI (83 to 138kPa)
9.5–18	4 PLY	FD	W8–18	1320LB (600 Kg)	12 to 20 PSI (83 to 138kPa)
31x15.5–15	4 PLY	PD1	13LB–15	2275LB (1030 Kg)	10 to 20 PSI (69 to 138kPa)

WARNING: ***Do not remove, install or make repairs to a tire on a rim. Take the tire and rim to a tire shop where persons with special training and special safety tools are available. If the tire is not in correct position on the rim, or if too full of air, the tire bead can loosen on one side and cause air to leak at high speed and with large force. Because the air leak can thrust the tire in any direction, and with much force, you will be in danger of injury.***

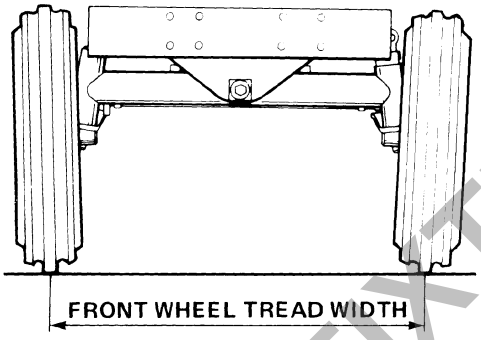
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FRONT WHEEL TREAD POSITIONS

2 Wheel Drive

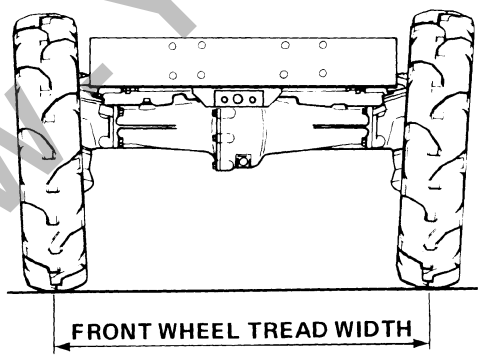
Measure the tread width between the centers of each tire at a point as near the ground as possible.



Tire Size	Front Wheel Tread Widths
4.50–10, FSR	28.3 inch (720 mm)
5.00–10, FSR	29.9 inch (760 mm)
20 x 8.00–10, PD	31.3 inch (795 mm)
18 x 7.00–8, PD	30.9 inch (785 mm)

Mechanical Front Drive (MFD)

Measure the tread width between the centers of each tire at a point as near the ground as possible.



Tire Size	Front Wheel Tread Widths
5.00–12, FSLM	32.1 inch (815 mm)
6–12, FSLM	34.4 inch (875 mm)
6–14, FD	33.3 inch (845 mm)
20.5x8.00–10,PD1	35.6 inch (905 mm)

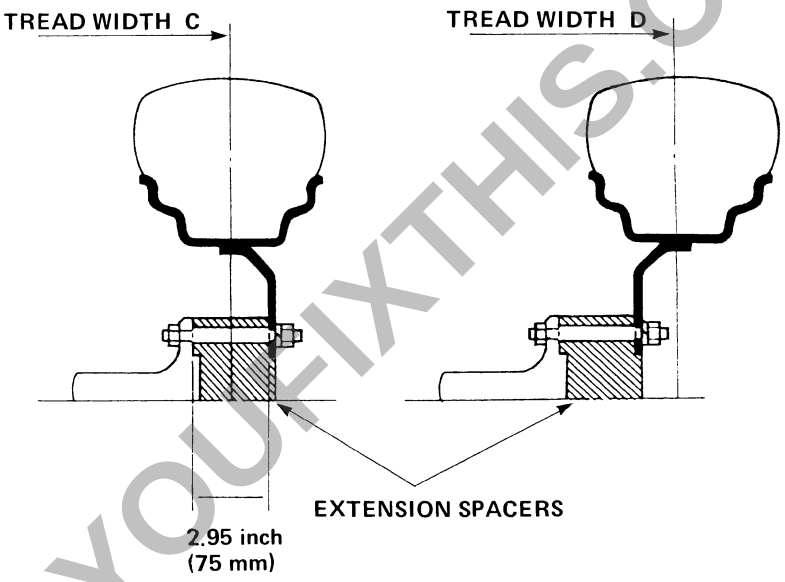
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REAR WHEEL TREAD POSITIONS

Wheel Treads with Extension Spacers Installed

For tractors equipped with 8-18 FSLH, 9.5-16 FSLF or 9.5-18 FD tires, the rear tread width can be increased by more 5.9 inch (150 mm) by putting the extension spacers between the axle hubs and wheels.



TIRE SIZE	TREAD WIDTH C	TREAD WIDTH D
8-18, FSLH	35.0 Inch (890 mm)	40.9 Inch (1040 mm)
9.5-16, FSLF	37.0 Inch (940 mm)	39.0 Inch (990 mm)
9.5-18, FD	36.2 Inch (920 mm)	40.0 Inch (1015 mm)

NOTE: *The rear wheel tread width cannot be extended for the tractor equipped with 31 x 15.5-15 PD1 tires.*

IMPORTANT: *Make sure tires are installed for correct rotation direction to obtain proper traction.*

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HITCH OPERATION

Connecting Implement to Hitch

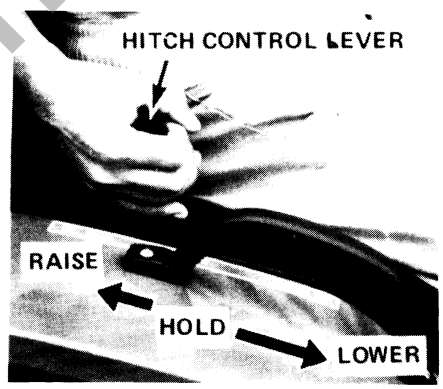
To connect an implement to the hitch, use the following procedure:

NOTE: *Be sure the tractor and implement are on level ground.*

1. Put the drawbar in the storage position.
2. Slowly move the tractor backwards to the implement.
3. When the hitch points on the tractor and implement are in the correct position, stop the tractor.
4. Apply the park brake and stop the engine.

Hitch Control Lever

The hitch control lever is used to lift and lower implements. To lower the implement, move the hitch control lever forward. To raise the implement, move the hitch control lever to the rear. When the implement is fully raised, the lever will return to the HOLD position.



Disconnecting Implement from Hitch

To disconnect an implement from the hitch, use the following procedure:

NOTE: *Be sure the tractor and implement are on level ground.*

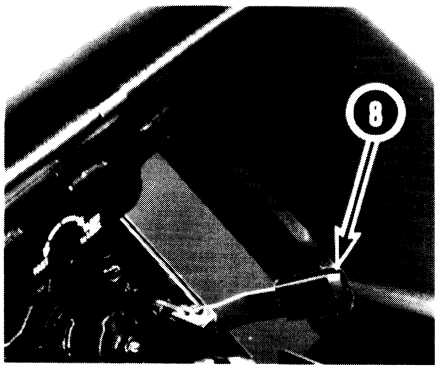
1. Stop the tractor completely and apply the park brake.
2. Disengage the PTO and lower the implement to the ground.
3 Place the gear shift lever (Gear Drive) or speed ratio control lever (Hydrostatic Drive) and range shift lever in neutral.
4. Stop the engine and remove the key from the key switch before leaving the tractor.
5. Disconnect and remove the implement.

NOTE: *Be sure the tractor and implement are stable and free from any tendency to roll over.*

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8. REMOTE HYDRAULIC CONTROL LEVER (IF EQUIPPED) – A double acting remote valve is available for your tractor. The remote hydraulic control lever which operates the remote valve is located on the LH side of the seat.



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LUBRICATION AND PREVENTIVE MAINTENANCE



PREVENTIVE MAINTENANCE IS IMPORTANT TO YOU!

AS THE OWNER OF A CASE IH TRACTOR, YOU HAVE A MACHINE THAT IS MADE TO THE HIGHEST STANDARDS POSSIBLE.

PREVENTIVE MAINTENANCE IS AN EASY AND LOW COST METHOD TO MAKE SURE THAT YOUR TRACTOR GIVES YOU MANY HOURS OF OPERATION WITHOUT PROBLEMS.

The first part of the manual gives you the needed instructions for operation of your tractor. This part will give you instructions for service and adjustment procedures for your tractor.

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Hydraulic System

Control Type	Auto Return Device
Type of Cylinder	Single Acting Type
Hydraulic Pump Type	Front Mounted, Engine Driven, Pressure Loading Gear Type
Capacity	3.4 GPM (12.9 ℓ /min.) at 2700 Engine RPM
Maximum System Pressure	1920 PSI (13239 kPa)
Remote Hydraulic Control Valve	One Double Acting Type Auxiliary Valve Available
Hydraulic Adapter Plate	One Adapter Plate Available
Connector Size	3/8 inch

Power Takeoff(PTO)

PTO Type	Transmission Driven Type
PTO Location	
Gear Drive	At the Rear of Transmission
Hydrostatic Drive	At the Rear of Transmission and Mid PTO is available
Rotation	Rear PTO, Clockwise from Rear of Tractor Mid PTO—If Equipped, Counterclockwise from Rear of Tractor
Shaft Size	Rear PTO, 1.375 inch (34.9mm) Diameter, 6 Splines Mid PTO—If Equipped, 1 inch (25.4mm) Diameter, 15 Involute Splines
Rear PTO Speed	
Gear Drive	540 RPM at 2400 Engine RPM
Hydrostatic Drive	540 RPM at 2405 Engine RPM
Mid PTO Speed (If Equipped)	2400 RPM at 2667 Engine RPM

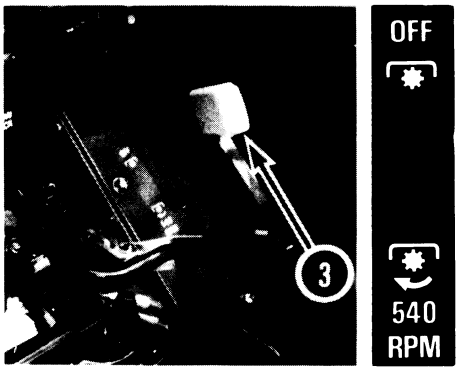
Drawbar

Type	Fixed Type (with storage position)
Horizontal Position	Distance from Hitch Hole to the End of PTO Shaft 14 inch (356mm)
Maximum Vertical Load on Drawbar	300 Lb (136 Kg)

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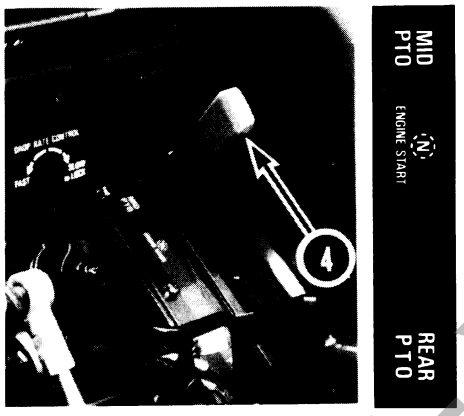
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3. PTO CONTROL LEVER — To engage the PTO, move the PTO control lever down. Move the lever up to disengage the PTO.



NOTE: *Be sure the PTO control lever is in OFF slot when starting the engine.*

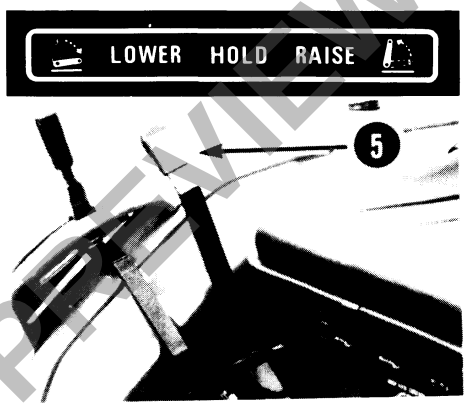
4. REAR/MID PTO CONTROL LEVER (IF EQUIPPED) — For the tractors with Mid PTO shaft, use this control lever to engage either Rear or Mid PTO. Move the lever rearward from N to engage the Mid PTO. Move the lever forward from N to engage the Rear PTO. Both Rear and Mid PTO are disengaged when the lever is in N.



NOTE: *Be sure the Rear/Mid PTO control lever is in N (Engine start) slot when starting the engine.*

5. HITCH CONTROL LEVER — Three point hitch is controlled manually by operating the hitch control lever. Move the lever fully forward to lower the hitch.

Move the lever fully rearward to raise the hitch. The lever will return to HOLD position when the hitch is fully raised.



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