

1294 Tractor

Operators Manual

9-9741

Reprinted

CASE III

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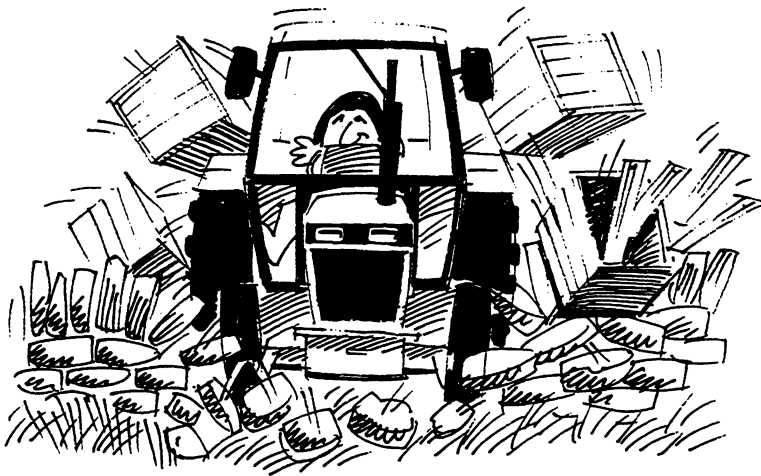
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CAUTION: Stop, look and listen before entering a highway, stay on your side of the road and pull over to let faster traffic pass. Slow down and signal as you turn off.



CAUTION: Brake pedals must be locked together for road travel. This will insure uniform brake application and maximum stopping ability.



WARNING: Extra weight and bad traction conditions such as mud or ice increase your stopping distance. Remember that liquid in the tires, weights on the tractor or wheels, tanks filled with fertilizer, herbicides or insecticides - all these add weight and increase the distance you need in which to stop.



WARNING: Unless instructed otherwise never service or make adjustments to the tractor with the engine running. Always set the **PARK BRAKE** before making adjustments.



WARNING: Extreme care must be exercised when adjusting and checking hitch and control linkage when the engine is running and when linkage is under hydraulic or mechanical load. Study the linkage and hitch travel-Keep the hands, arms legs and feet out of the travel arc of the hitch and linkage.



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.



WARNING: Rotating fan and belts. Contact can injure. Keep clear.

Engine Lubrication System

Working Pressure 40 to 55 lb/in² (275 to 380 kPa)
at Operating Temperature
Oil Pump Gear Type
Oil Filter Cartridge (Spin-on)
with By-Pass Valve
Oil Capacity 7.8 U.S. quarts (13 U.K. pints)(7.4 litres)

Cooling System

Type Water Pump and Thermo Syphon
Fan 16 inch (406 mm) diameter, 7 Blades
Thermostat Starts to Open 174 to 181°F
(79 to 83°C)
Fully Open 199 to 205°F
(93 to 96°C)
Filler Cap Pressure Setting 10 lb/in³ (69 kPa)
Capacity 14.8 U.S. quarts (3 U.K. gallons)(14 litres)

Fuel System

Fuel Injection Pump Distributor Type CAV (DPA 3342F740)
Injection Pump Timing 17 Degrees Before Top Center
Fuel Injectors CAV BDLL 140S 6592
Fuel Filters Two Paper Elements
Fuel Transport Pump Diaphragm Operated from
the Engine Camshaft
Water Trap Bowl on Fuel Transport Pump
Fuel Tank Location Without Cab One Underneath Hood
With Cab One Under Each Side Of Cab
Fuel Tank Capacity Without Cab 19 U.S. gallons
(16 U.K. gallons)(72 litres)
With Cab 26 U.S. gallons
(22 U.K. gallons)(100 litres)

Air Intake System

Type Two Stage with Service Indicator
and Dust Release Valves
Filter Dry Type with Main and
Safety Elements

Starting Aid

Thermostart Component Activated by the Starter
Switch Which Injects Heated Fuel
Into The Intake Manifold

APPROXIMATE MEASUREMENTS

2WD Tractor Without Cab

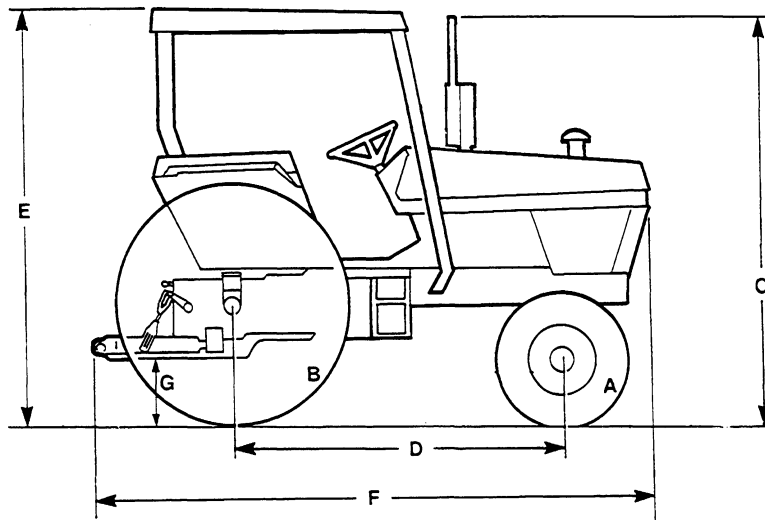


Figure 4

	TIRE	WHEEL		TIRE	WHEEL
A	7.50-16	5.50F x 16	B	16.9-30	DW14 x 30
C	96 INCHES (2 436 mm)		D	83 INCHES (2 108 mm)	
			E	90 INCHES (2 285 mm)	
F	143 INCHES (3 628 mm)		G	14.5 INCHES (370 mm)	

Turning Radius Without Brake Assistance 134 Inches (3.40 m)

Turning Radius With Brake Assistance 122 Inches (3.10 m)

APPROXIMATE TRANSPORT WEIGHT

Approximate Weight of Tractor without ROPS 5,200 lbs (2 360 kg)

Tractor with ROPS 5,695 lbs (2 583 kg)

(Equipped with most common optional equipment).

Does not include iron weights or liquid ballast.

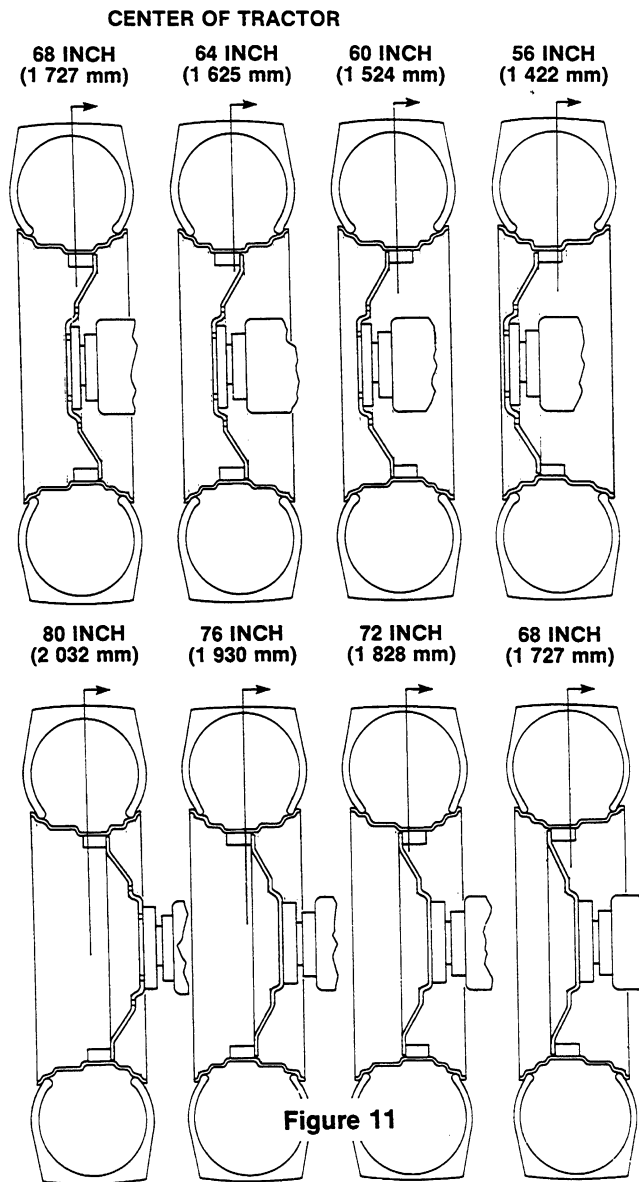
IMPORTANT: *The total tractor weight with ballast and ROPS must never be more than 9,800 lbs (4,450 kg).*

REAR WHEEL TREAD POSITIONS

Manual Adjusted

Measure the tread width between the center of each tire. The minimum tread position of 56 inch (1 422 mm) is not available with 16.9-30 tires because the tires will make contact with the fenders.

Tighten rim to wheel center nuts to 176 to 217 Nm (130 to 160 lb ft).
Tighten the wheel to hub nuts to 270 to 325 Nm (200 to 240 lb ft).



7. Stop the engine. Before you check the oil level, wait to let the oil return to the engine crankcase.

IMPORTANT: *You must put the tractor on level ground to check the oil level with accuracy.*

8. Check the oil level on the dipstick and add oil if needed. Install the dipstick.

ENGINE OIL FILTER CHANGE

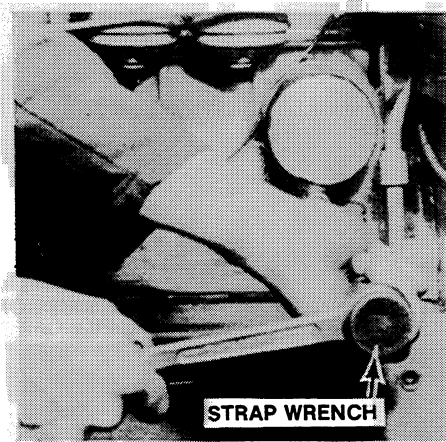


Figure 24

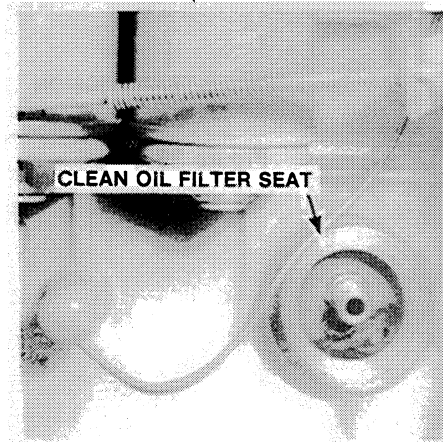


Figure 25

Change Interval After the first 20 hours of operation
and each 200 hours after that.

1. Remove the oil pan drain plug and remove the oil from the engine crankcase.
2. To remove the oil filter use a strap wrench.
3. Put clean oil on the gasket of the new Case filter. Install the filter. Turn the filter clockwise until the gasket comes in contact with the filter base. Tighten by turning the filter an additional 1/2 turn by hand.
4. Loosen the filter approximately one turn. Turn the filter clockwise until the gasket comes in contact with the filter base. Use your hand to tighten the filter an additional 1/2 to 3/4 of a turn to get the filter correctly sealed.
5. Install the drain plug and new engine oil. See "Changing the Engine Oil".

IMPORTANT: *Change the oil filter at the given time intervals. Your Authorized Case Dealer has approved Case filters. Do not use other types of filter.*

Towing

When towing a tractor, follow these rules:

1. Never pull the tractor faster than the maximum rated ground speed of the tractor.
2. Make sure all controls are in the neutral position.
3. Because of the loss of power steering when the tractor engine is not running, use only a rigid towing bar and safety chains to pull the tractor.



CAUTION: *Make sure that the weight of a trailed vehicle that is not equipped with brakes, NEVER EXCEEDS the weight of the tractor that is towing the vehicle. Stopping distance increases with increasing speed as the weight of the towed load increases, especially on hills and slopes.*

How to Transport the Tractor

When you transport the tractor by truck or rail, hold the tractor with tie downs and blocks. Put the gear shift lever in Neutral and engage the parking brake.

2. BRAKE PEDALS - The left-hand pedal stops the left-hand rear wheel and the right-hand pedal stops the right-hand rear wheel. For easier turning in the field use the pedals separately. Lock the brake pedals together for safe operation on the road.
3. BRAKE PEDAL LOCK - Use the lock to connect the brake pedals so that both the brakes are applied evenly.



CAUTION: *Brake pedals must be locked together for road travel. This will insure uniform brake application and maximum stopping ability.*



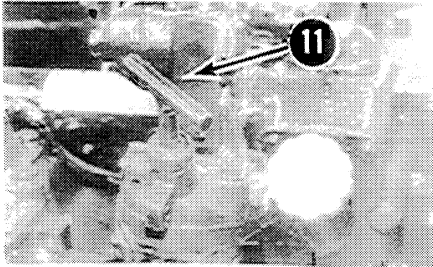
WARNING: *Extra weight and bad traction conditions such as mud or ice increase your stopping distance. Remember that liquid in the tires, weights on the tractor or wheels, tanks filled with fertilizer, herbicides or insecticides - all these add weight and increase the distance you need in which to stop.*

4. THROTTLE PEDAL - Use this pedal when operating the tractor on the road. Move the throttle lever fully counterclockwise to get complete control of engine speed through the throttle pedal.
5. CLUTCH PEDAL - TRACTOR WITH INDEPENDENT CLUTCH - Push the pedal down to disengage the transmission clutch. Engage the clutch smoothly using the available gears and the throttle to control the tractor speed. Remove your foot from the pedal until it is necessary to stop the tractor or select a different gear. To get maximum clutch life, remove your foot from the pedal after the clutch is engaged. Do not select a high gear and then use the clutch to control the speed of the tractor.
5. CLUTCH PEDAL - TRACTOR WITH A CONTINUOUS CLUTCH - With the continuous clutch the pedal is used to disengage both the transmission and PTO clutches.

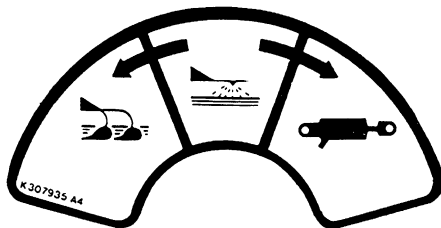
To disengage the transmission clutch, push the pedal down until you feel an increase in pedal pressure.

To disengage the PTO clutch, push the pedal fully down.

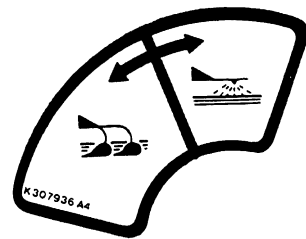
NOTE: *When the PTO clutch is disengaged the drive to hydraulic pump is also disengaged.*



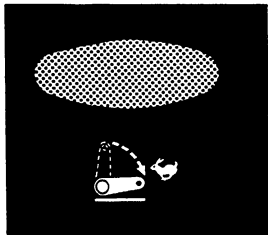
11. LINKAGE LEVELING CONTROL - This lever is used to adjust the height of the RH draft arm to level the hitch and mounted implements as required. Turn the lever counterclockwise to raise the draft arm and clockwise to lower the draft arm.



12. SELECTOR DIAL - Use the selector dial to select internal or external services (if equipped). When the dial is in the internal services position the linkage control lever will operate the linkage. Move the dial clockwise to select external services. The linkage control lever will operate external equipment connected to the 3 Way Valve (if equipped) on the lift cylinder and the tractor linkage.



NOTE: *The linkage control lever must be in the Select (S) position when you operate the selector dial.*



13. DUMP VALVE (If Equipped) - Use the dump valve for fast lowering of the linkage when there is no implement installed (no weight on the linkage). It can also be used for fast lowering of a pick-up hitch or external equipment connected to the 3-way valve (if equipped). To operate, pull the lever up then move the linkage lever forward.

WARNING: *Do not use this valve when an implement is installed on the linkage. Do not use this valve when any person is near the linkage.*

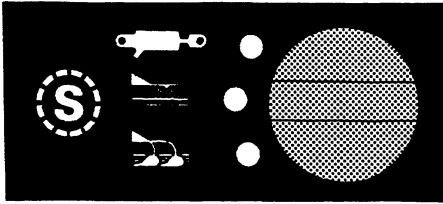
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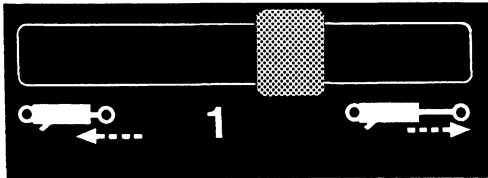
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7. SELECTOR DIAL - Use the selector dial to select internal or external services. When the dial is in the position shown (internal services), the linkage control lever will operate the linkage. Move the dial clockwise to select external services. The linkage

control lever will operate external equipment connected to 3-way valve (if equipped).

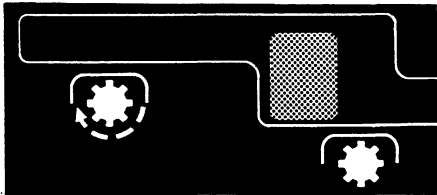
NOTE: *The linkage control lever must be in the Select (S) position when you operate the selector dial.*



8. REMOTE VALVE - This lever operates the No. 1 (bottom) remote valve. Always connect external equipment so that when the lever is moved forward, the equipment will lower.

9. REMOTE VALVE - This lever operates the No. 2 (middle) remote valve.

10. REMOTE VALVE - This lever operates the No. 3 (top) valve.



11. POWER TAKEOFF (PTO) - Always disengage the PTO clutch before engaging or disengaging the PTO.

12. LINKAGE LEVELING CONTROL -

Use this control to raise or lower the right-hand draft arm to level the linkage.

OPERATING TRACTOR ON THE ROAD

North America

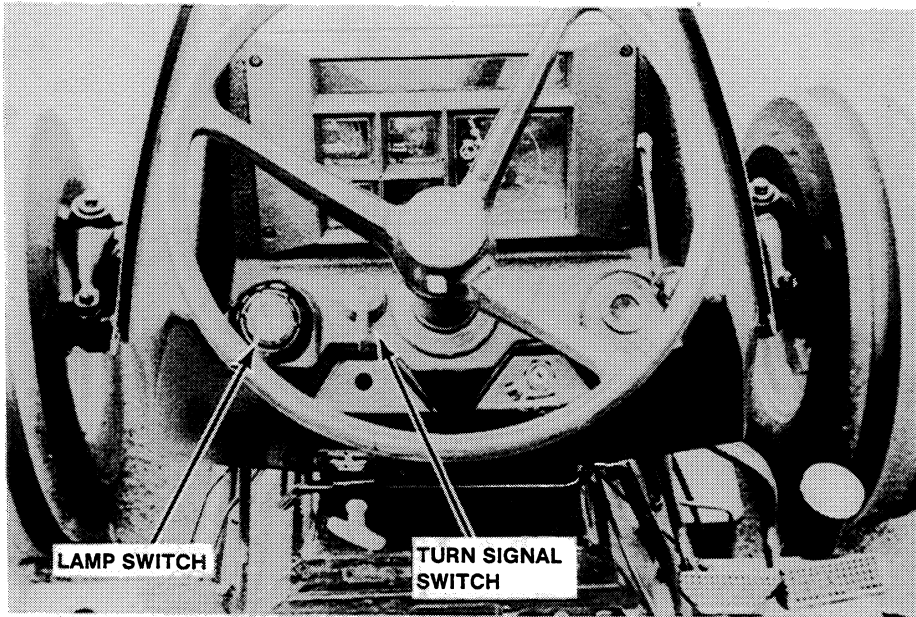


Figure 69

Turn the main lamp switch three positions clockwise. This will illuminate the head lamps (low beam), front fender lamps, tail lamps and instrument panel lamps. All turn signal lamps will flash.

To make a right turn, move the turn signal switch to the right. The left-hand turn signal lamp will stay on but not flash. Make the right turn then move the turn signal switch to the center position. To make a left turn, move the turn signal switch to the left.

IMPORTANT: When towing an implement or wagon with the tractor, the complete rear area warning system (amber warning lamps, red tail lamps and SMV symbol) must be easily seen by any vehicle operator coming near the tractor.



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.

COLD TEMPERATURE OPERATION

To start and operate your Case Tractor during cold ambient temperatures, use these procedures:

1. BATTERIES - Must have a full charge.
2. FUEL - Must be clean and with no water contamination.
3. ENGINE OIL - Must have the correct viscosity for the ambient temperature range.
4. TRANSMISSION HYDRAULIC FLUID - Use Case Transmission Final Drive (TFD) fluid.
5. COOLING SYSTEM - Must have Ethylene Glycol solution for protection.
6. TIRES - If there is liquid in the tires, the tires must have protection against temperatures below 32°F (0°C). See your Authorized Case Dealer.
7. STOPPING THE ENGINE - Permit the engine temperature to decrease before stopping.
8. CONDENSATION IN FUEL TANK - To prevent condensation in the fuel tank and water entering the fuel system, fill the fuel tank after each operating day.
9. FUEL PUMP WATER TRAP - During cold ambient temperatures, make sure you remove water from the water trap each day or damage will occur.



WARNING: *Extra weight and bad traction conditions such as mud or ice increase your stopping distance. Remember that liquid in the tires, weights on the tractor or wheels, tanks filled with fertilizer, herbicides or insecticides - all these add weight and increase the distance you need in which to stop.*

ADJUSTING THE CHAINS

1. Raise the linkage to the maximum height.
2. Loosen the adjusting nuts, then adjust the length of the chains by moving the slotted link.

IMPORTANT: *The chains must be the same length to support equal loads.*

TO LOWER THE PICK-UP HITCH

1. Move the linkage control lever into the SELECT position and the selector dial to POSITION.
2. When the pick-up hitch is at the maximum height push the release lever down. This will release the latch.
3. Move the linkage control lever forward to LOWER the pick-up hitch. Release the lever.

NOTE: *The speed of lowering can be changed with the lowering speed control valve. If there is no load on the pick-up hitch, the dump valve can be used for fast lowering. DO NOT use the dump valve if there is any load on the pick-up hitch.*

TO RAISE THE PICK-UP HITCH

1. Move the linkage control lever into the RAISE position. When the pick-up hitch is at the maximum height, the latch will engage automatically.
2. Lower the pick-up hitch a little to make sure that the latch is engaged.

REMOTE HYDRAULIC CONTROL

Double Acting Remote Valves

One, two or three double acting remote valves can be fitted. The remote valves are used to operate external double acting or single acting cylinders. Three different types of remote valves are fitted. The valves have the same use, but have different internal parts. Two have a detent center, the other has a spring center.

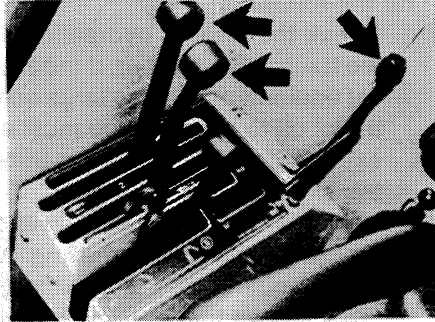


Figure 112

Remote Valve With Detent Center

When the control lever for this valve is moved the maximum distance in either direction a detent ball holds it in position. When the external cylinder reaches the end of the stroke, the control lever is automatically released and returned to the central hold position.

Remote Valve With A Float Position

This valve works the same as the remote valve with a detent center but has a float position with the lever pushed fully forward. The float position can be used for loader work, or to drive a hydraulic motor, or for equipment which has to follow the contour of the ground.

Remote Valve With Spring Center

The control lever for the spring centered remote valve will not hold in the fully forward or rearward position. It will return to the center hold position when released.

Toe-in Adjustment

STEP 1

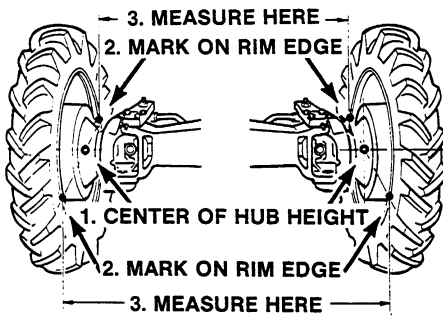


Figure 130

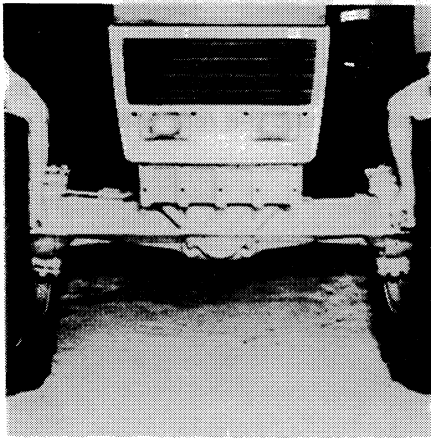


Figure 131

Set the toe-in of the front wheels.

Use the following procedure:

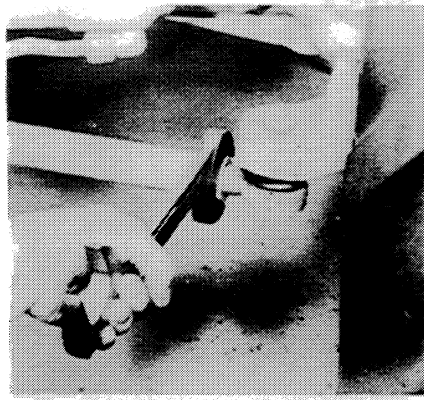
1. Find the center of each front hub height.
2. Put a mark on the front and rear of each front wheel rim edge, horizontally opposite the hub height center.
3. Measure the distance between the front wheel rims at the marks in the front and in the rear.
4. Rotate the wheels 90 degrees and repeat the measurements.

NOTE: *The wheels can be rotated by raising the wheels off the ground or*

by removing the blocks from the rear wheels and moving the tractor forward or backward on level, smooth ground. Make the measurements with the wheels on the ground.

5. Repeat the measurements two more times, turning the wheels 90 degree between each measurement.
6. Take the average measurement.
7. The front and rear measurements must be equal or the front measurement can be less than the rear measurement by not more than 1.5 mm.
8. See Steps 2 through 5 if the toe-in is not within the limits.

STEP 2



Loosen the lock nut on each end of the tie rod.

Foldable ROPS Frame

For normal operation, including transport, always use the foldable ROPS in the secured upright position with a fastened seat belt for full ROPS protection.

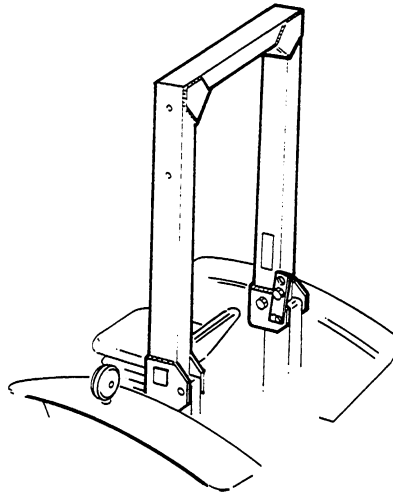


Figure 139
NORMAL OPERATING POSITION



WARNING: When improperly operated, this tractor can roll over or upset. For low clearance use only, the ROPS can be lowered. No protection is provided in this position. For all other uses and transport, secure ROPS in upright position and fasten seat belt. Use of ROPS and seat belt minimize the possibility of injury or death if roll over or upset occurs.

For low clearance operation, such as operating in buildings, orchards or vineyards, the ROPS can be lowered and secured in the down position. No ROPS protection is provided in the lowered position. When the low clearance operation is completed, return the ROPS to the secured upright position for all other tractor uses and transport.

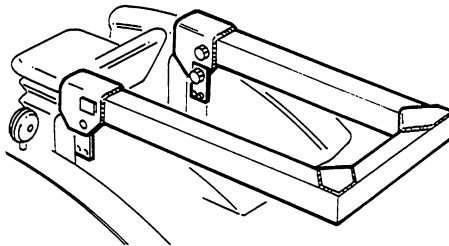


Figure 140
LOW CLEARANCE POSITION

IMPORTANT: When the ROPS frame is in the lowered position, make sure there is clearance between the frame and hitch mounted equipment. Slowly raise the hitch to maximum height to check for necessary clearance. For draw-bar attached and/or PTO driven equipment, check for clearance including turning corners.

LOADS MUST NOT BE CARRIED ON THE ROPS FRAME WHEN LOWERED OR UPRIGHT

50 Hour Service

Do the daily/10 hour service and then the following jobs:

1. Grease Fittings

Add lubricant to the points shown in the Lubrication Charts.

2. Power Steering

Check the level of the fluid in the power steering reservoir on the right-hand side of the tractor. Remove the fill level plug. Add the specified fluid up to the bottom of the fill hole. Install the plug.

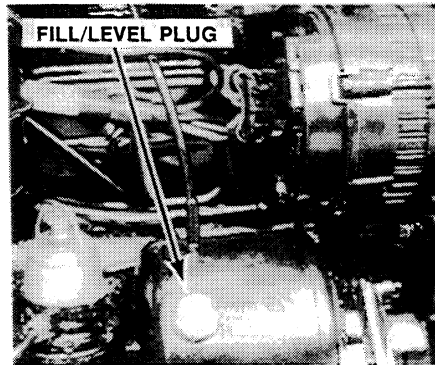


Figure 147

IMPORTANT: *The front wheels must be in the correct position before you check the level of the fluid.*

MFD Tractor - FULLY LEFT

2WD Tractor With Side Ram -

FULLY RIGHT

2WD Tractor With Tranverse Ram -

STRAIGHT FORWARD

3. Fuel Pump Water Trap

Loosen the screw and remove the clamp from the glass bowl. Remove and clean the glass bowl. Clean the filter if necessary. Check condition of seal, replace if necessary. Install the glass bowl. Make sure that it is seated on the seal. Fit the clamp then tighten the screw.

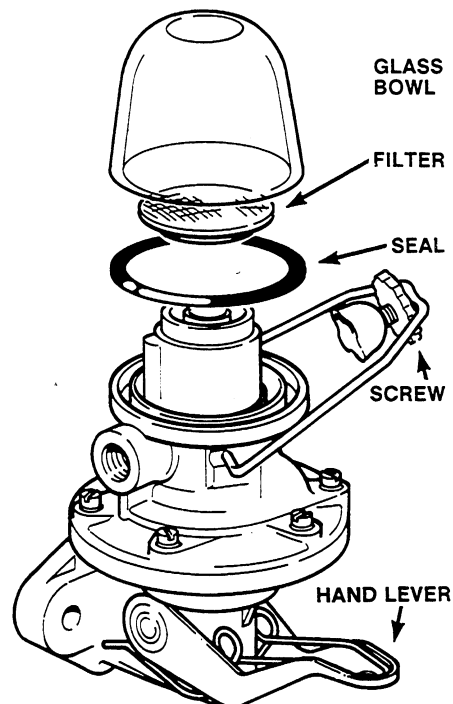


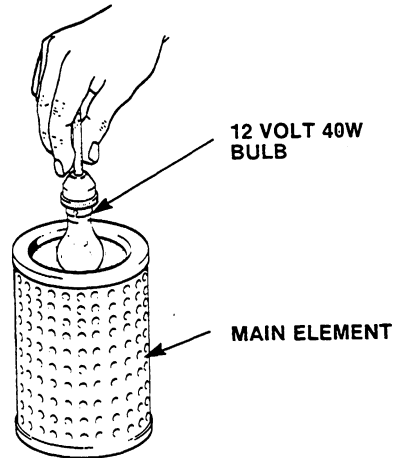
Figure 148

Check for damage by lowering a 12 volt 40 watt headlamp bulb down the center of the main element. If there is any damage, install a NEW main element and a NEW safety element.

IMPORTANT: Do not use a lamp with a rating or more than 12 volts 40 watts.

If, after cleaning the main element, the warning lamp illuminates in a shorter than normal running period, install a new main and safety element.

STEP 5



STEP 6

Do the following to remove the safety element:

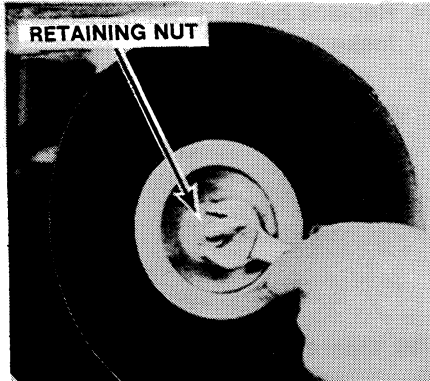
Remove the end cover and the main element.

Remove the safety element retaining nut.

Remove the safety element. DO NOT try to clean the safety element.

Install NEW elements in the reverse sequence.

Make sure the elements are seated correctly.



STEP 7



Instrument Cluster Lamps

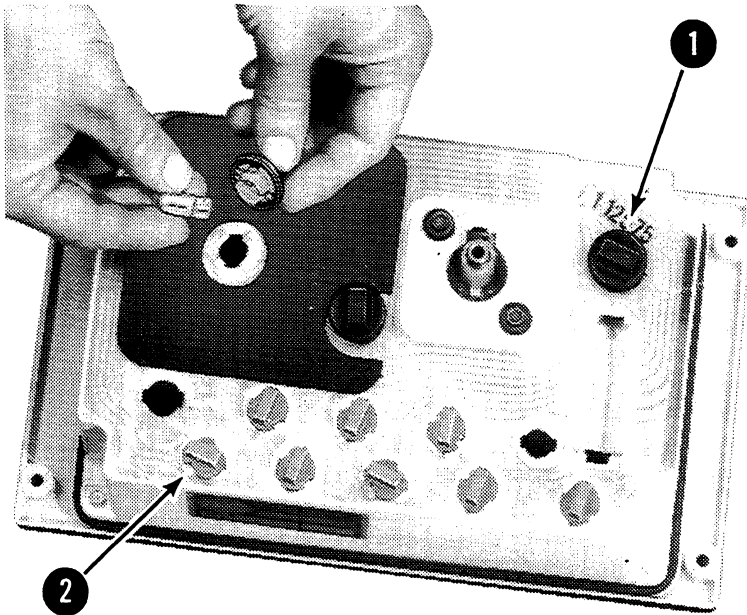


Figure 171

Remove the instrument panel cover. Turn the socket counterclockwise on the back of the bulb to be replaced and lift the socket out of the panel. Pull the bulb straight out of the socket and replace with a new bulb.

1. Number 194 Bulbs for illumination (3)
2. Number 168 Bulbs for Warning Lamps (9)

NOTE: To check for warning lamps that do not illuminate turn and hold the key switch between *IGNITION* and *START* position. After a short time delay, all the warning lamps must illuminate. Replace any bulb that is not illuminated.

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