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

Before Starting

CAUTION: *To help prevent personal injuries during tractor operation and maintenance, use safety shoes, a hard hat, safety glasses or goggles and good fitting clothing.*

CAUTION: *Provide a first aid kit for use in case of accident.*



CAUTION: *It is good practice to carry a fire extinguisher on the tractor. Be sure that the extinguisher is properly maintained and be familiar with its proper use.*

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APPROXIMATE MEASUREMENTS

MFD Tractor Without Cab

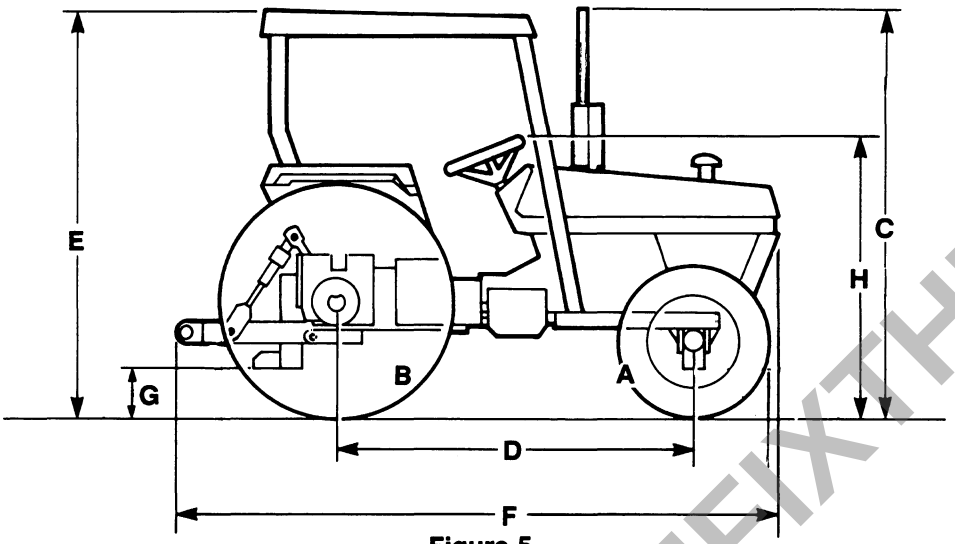


Figure 5

A	**13.6-28 TIRE**		**B**	**18.4-38 TIRE**	
C	**2 743 mm (108 INCHES)**		**D**	**2 540 mm (100 INCHES)**	
E	**2 667 mm (105 INCHES)**		**F**	**4 200 mm (165 INCHES)**	
G	**381 mm (15 INCHES)**		**H**	**1 917 mm (75.5 INCHES)**	

Turning Radius With MFD Engaged, MFD Axle Prior to P.I.N. 11221501.
Without Brake Assistance ..... 5 842 mm (230 Inches)
With Brake Assistance ..... 4 241 mm (167 Inches)

Turning Radius with MFD Engaged, for MFD Tractor PIN 11221501 and After.
Tread width set at 1 930mm (76 inches). Lock angle set at 50°
Without Brake Assistance ..... 5 169 mm (203 inches)
With Brake Assistance ..... 3 937 mm (155 inches)

APPROXIMATE TRANSPORT WEIGHT

Approximate Weight of Tractor Without Ballast ..... 3 720 kg (8 200 lb)
(Equipped with most common optional equipment)

IMPORTANT: *The total tractor weight with ballast and weights must never be more than 12,000 lb (5 443 kg) in North America, or 6123 kg (13,500 lb) in other countries.*

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FRONT WHEEL TREAD POSITIONS
MFD Tractors Prior to P.I.N. 11221501
With W12 X 24 Wheels Fitted

Measure the tread width between the center of each tire at a point as near to the ground as possible.
The tread is adjusted by fastening the wheel rim to the wheel center in the positions shown below.
The tread widths available are 62 to 77 inch (1 574 to 1 955 mm).
Tighten rim to wheel center nuts to 176 to 217 Nm (130 to 160 lb ft).
Tighten the wheel to hub nuts to 300 Nm (221 lb ft).

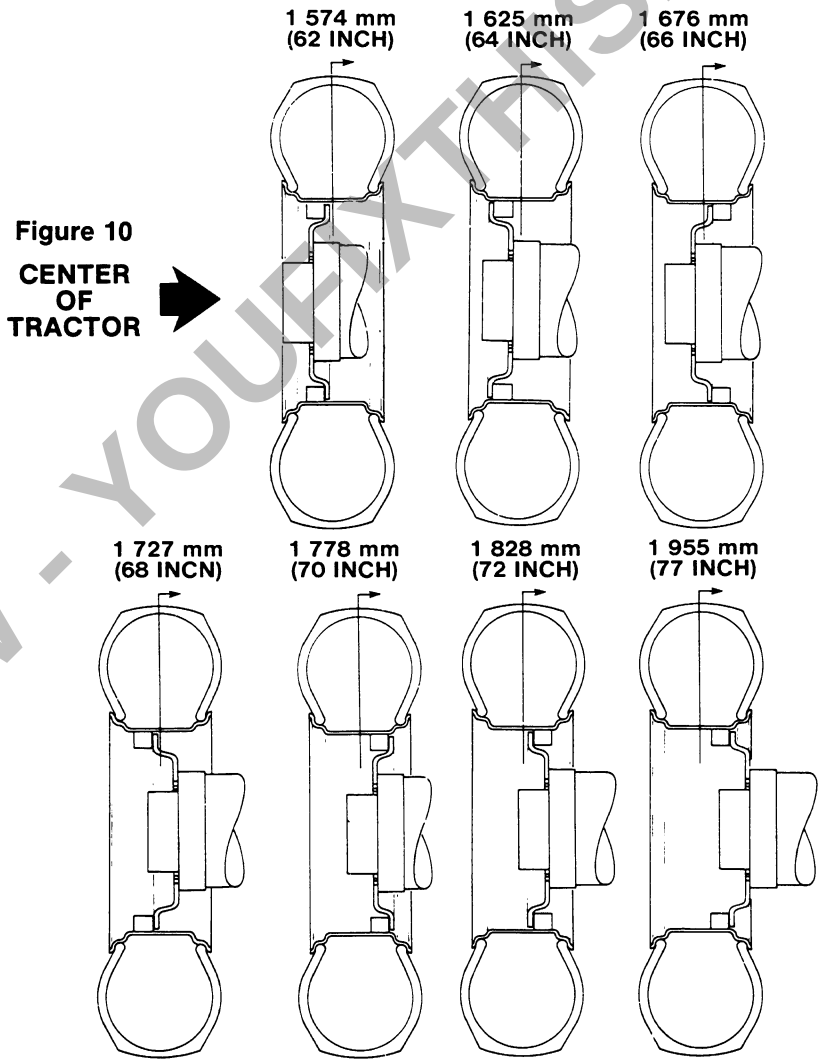


Figure 10

IMPORTANT: *The minimum tread of 1 450 mm (57 inch) must not be used or damaged will be caused.*

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Hydraulic Motors

A hydraulic motor can be operated by a detented remote valve with float position. Connect the left-hand tractor coupling to the motor supply pipe. Connect the motor return pipe to the right-hand tractor coupling.

Start the tractor engine.

Move the control lever forward into the first detent position. The motor will operate. To stop the motor, decrease the engine speed then move the control lever fully forward into the float position (second detent). When the motor has stopped, move the control lever to the center (Neutral) position.

IMPORTANT: *Never move the control lever into the rear detent position. If you do, there will be damage to the tractor hydraulic system and the hydraulic motor.*

NOTE: *To reverse motor direction, reverse the hydraulic couplings. Move the control lever forward ONLY.*

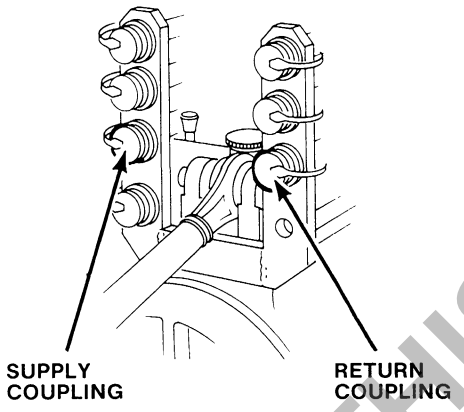


Figure 161

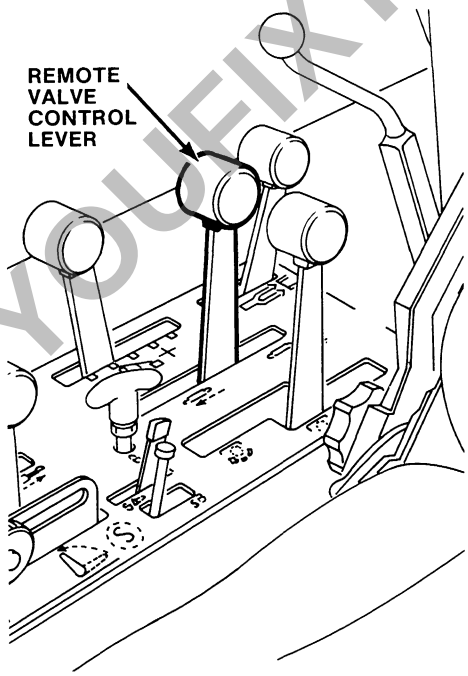


Figure 162

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Spacer Bar Adjustment 127
Operating Jeffes Linkage 128
Operating the Linkage 129-133
Lower Link Sensing 131
Operating Draft 132,133
Operating Above Ground 134
Operating External Equipment ... 135-143
Hydraulic Hose Couplers 144
Transmission Oil Cooler 145
Front Axle Adjustment - 2WD 146
Front Axle Adjustment - MFD 147-149
Steering Lock Adjustment 150
Tractor Ballast 151,152
Front End Weights 153
Rear Wheel Weights 154
Liquid Ballast 155
Measuring Wheel Slip 156
157
Roll Over Protection Structure ROPS
..... 158,161
PREVENTATIVE MAINTENANCE ...162-205
First 20 Hour Service 163
Raising Engine Cover 164
Removing Front Panel 165
Removing Side Panels 166,167
Service Periods 168
Daily 10 Hour Inspection 169
50 Hour Service 170-174
100 Hour Service 175-176
200 Hour Service 177
400 Hour Service 178-185
800 Hour Service 186-190
Air Cleaner 183-184
Air Conditioning 191-196
Alternator 200
Auxiliary Battery 199
Battery 197,198
Brake Adjustment 173
Brake Fluid 187
Cab Air Filter 190
Clutch Adjustment 171
Coolant 189
Compressor Belt 177,194
Differential - MFD 39
Engine Cover 164
Engine Oil 34
Engine Oil Filter 35
Final Drives 175
Front Hubs - MFD 40
Fuel Filters 181
Fuel Pump Water Trap 170
Fuses 205
Injectors 178
Lamps 201-204
Power Steering 170
ROPS 185
Seat Belt 180
Transmission Oil 172
Transmission Filter 172
Valve Clearances 178
Wheel Nuts 174
OPTIONAL EQUIPMENT 206
CASE TECHNICAL MANUALS 209

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To Raise or lower the foldable ROPS frame do the following:

1. Use a overhead hoist or a second person to support the upper part of the ROPS, while removing or instaling the locking bolts and to lower or raise the ROPS.

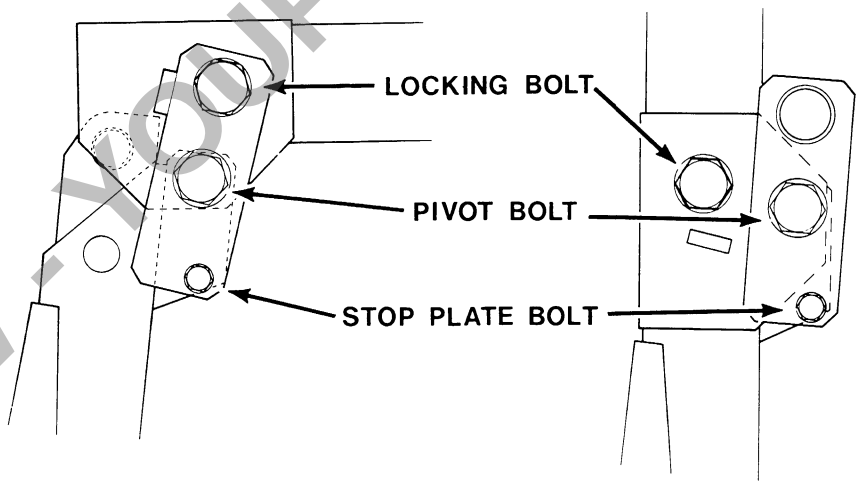
2. Remove the locking bolt on each side of the ROPS. Do not loosen the pivot bolts

3. Slowly raise and lower the upper part of the frame.

4. Install the locking bolt in the correct location to secure the ROPS in the desired position.

5. Tighten the bolts to a torque of 271 Nm (27.1 kgm)(200 lb ft)

IMPORTANT: *Do not remove the stop plate fastening bolts. These bolts are removed for shipping only*



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APPROXIMATE TRACTOR SPEEDS

TRACTORS FROM P.I.N. 11219488 WITH POWER SHIFT TRANSMISSION
FINAL DRIVE RATIO: 11:58
REAR TIRE SIZE 18.4-34
ROLLING RADIUS ..... 770 mm (30.31 inch)

LEVER POSITION		700 r/min		1100 r/min		1800 r/min		2050 r/min		2300 r/min	
RANGE	POWER SHIFT	mile/h	km/h	mile/h	km/h	mile/h	km/h	mile/h	km/h	mile/h	km/h
1	1	0.47	0.75	0.73	1.18	1.20	1.93	1.37	2.20	1.53	2.47
1	2	0.64	1.03	1.00	1.61	1.64	2.64	1.87	3.01	2.10	3.38
1	3	0.83	1.34	1.30	2.10	2.14	3.44	2.43	3.91	2.73	4.39
1	4	1.13	1.83	1.78	2.87	2.92	4.70	3.32	5.35	3.73	6.00
2	1	1.01	1.62	1.58	2.54	2.59	4.16	2.95	4.74	3.30	5.32
2	2	1.37	2.21	2.16	3.48	3.53	5.69	4.03	6.48	4.52	7.27
2	3	1.79	2.88	2.81	4.52	4.60	7.40	5.24	8.43	5.87	9.45
2	4	2.44	3.93	3.84	6.18	6.28	10.11	7.16	11.52	8.03	12.92
3	1	2.10	3.38	3.30	5.30	5.39	8.68	6.14	9.89	6.89	11.09
3	2	2.87	4.61	4.50	7.25	7.37	11.86	8.40	13.51	9.42	15.16
3	3	3.73	6.00	5.86	9.43	9.59	15.43	10.92	17.57	12.25	19.72
3	4	5.10	8.20	8.01	12.89	13.10	21.09	14.93	24.02	16.75	26.95
R	1	1.07	1.73	1.69	2.71	2.76	4.44	3.14	5.06	3.53	5.67
R	2	1.47	2.36	2.30	3.71	3.77	6.07	4.30	6.91	4.82	7.76
R	3	1.91	3.07	3.00	4.82	4.91	7.90	5.59	8.99	6.27	10.09
R	4	2.61	4.20	4.10	6.59	6.70	10.79	7.64	12.29	8.57	13.79

Speed at maximum engine speed with light load: 2450 R.P.M. = 17.84 M.P.H. = 28.71 K.P.H.

To calculate approximate speeds for other tire sizes, do the following

18.4-38, Rolling Radius 820mm (32.28 inch) Multiply speeds in chart by 1.06
15.5-38, Rolling Radius 745mm (29.33 inch) Multiply speeds in chart by 0.97
16.9-38, Rolling Radius 795mm (31.30 inch) Multiply speeds in chart by 1.03
13.6-38, Rolling Radius 740 mm (29.13 inch) Multiply speeds in chart by 0.96.

EXAMPLE: Gear selected ..... Range 2, Power Shift 2
Engine Speed ..... 2300 r/min
Speed in Chart ..... 4.52 mile/h
Speed for 13.6-38 Tire ..... 4.52 × 0.96 = 4.34 mile/h

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Controlled Pressure and Air Flow With Heater

1. Permit the tractor engine to reach operating temperature. Open the recirculating control door, put the heat temperature control to maximum heat, the blower on HI, the louvers closed, defroster and deflectors open.
2. To keep the outside air entering the cab to a mimumum which will decrease the time needed to heat the cab, keep the air recirculating control door open.
3. With the blower on LO, air flow is decreased and so is air speed, so the heated air temperature will be a little higher than the blower at HI or MED.

NOTE: *With the air recirculating control door open or closed, outside air will be pulled in to keep moisture off the glass.*



Figure 65

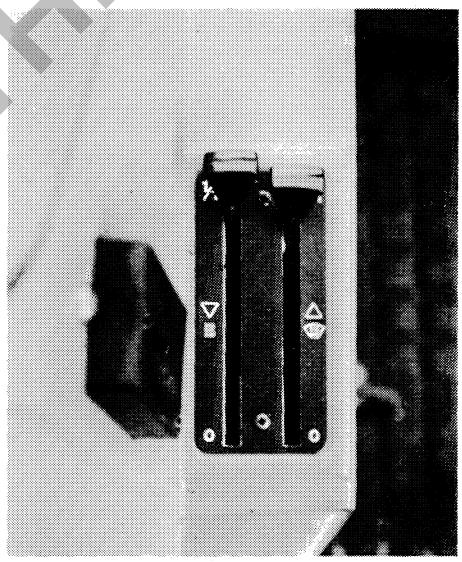


Figure 66

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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 turning assistance, 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.***

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 - 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.

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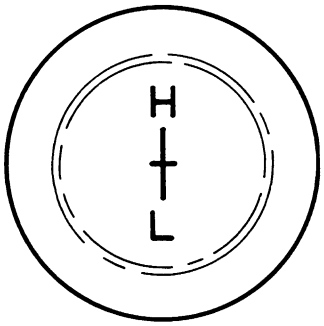


MFD TRACTOR WITH CAB
Figure 2

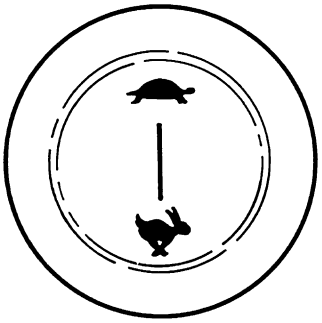
NOTE: *When left-hand and right-hand are used in this manual, they are the same as your left and right when you are sitting in the tractor seat looking forward.*

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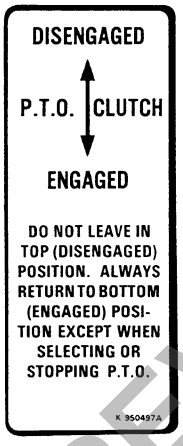


1. HIGH/LOW RANGE LEVER:
TRACTORS WITH SYNCHROMESH TRANSMISSION - This is the left-hand range lever. It has a white knob with the letters H (High) or L (Low) printed on top. Move the lever forward to select H and rearward to select L. Use this lever with the other range lever to select any of the four operating ranges.



2. FAST/SLOW RANGE LEVER:
TRACTORS WITH SYNCHROMESH TRANSMISSION - This is the left-hand range lever. It has a black knob with the symbols of a tortoise (Slow) and a hare (Fast) printed on top. Move the lever forward to select slow and rearward to select fast. Use this lever with the other range lever to select any of the four operating ranges.

NOTE: *The tractor must be stopped and the transmission clutch disengaged before moving the range levers.*



3. POWER TAKEOFF CLUTCH LEVER -The PTO clutch is operated by a lever at the left-hand side of the operators seat. When the lever is in the down position, the PTO clutch is engaged. To disengage the PTO clutch, pull the lever up until the ratchet is engaged. To engage the PTO clutch, pull the clutch lever up, press the ratchet lever inwards then slowly lower the clutch lever.

NOTE: *The PTO clutch must be disengaged before engaging or disengaging the PTO*

WARNING: ***PTO driven machinery can cause serious injury. Before working on or near the PTO shaft, or servicing or clearing the driven machine, put the PTO clutch lever in the DISENGAGE position, the PTO lever in the NEUTRAL POSITION, and STOP the tractor engine.***

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LOWER LINK SENSING

Lower link sensing is an accurate method of measuring draft forces from a draft implement in work. The draft forces are transferred from the implement, through the lower links to two curved sensing springs mounted underneath the tractor. Changes in depth and ground conditions will cause the draft forces to increase and decrease during operation. When the draft force increases, the lower links pull on the sensing spring which will increase in length (the springs will straighten). This movement is transferred through plates and rods to the Selectamatic control valve which will raise the linkage by a small amount. This will decrease the draft force from the implement.

A decrease in draft force allows the sensing springs to return to their original curved shape (the sensing springs shorten). The movement causes the linkage to lower by a small amount.

The sensitivity of the system is controlled by the sensing lever on the operators console. The position of the sensing lever depends on the implement, ground conditions and tractor travel speed.

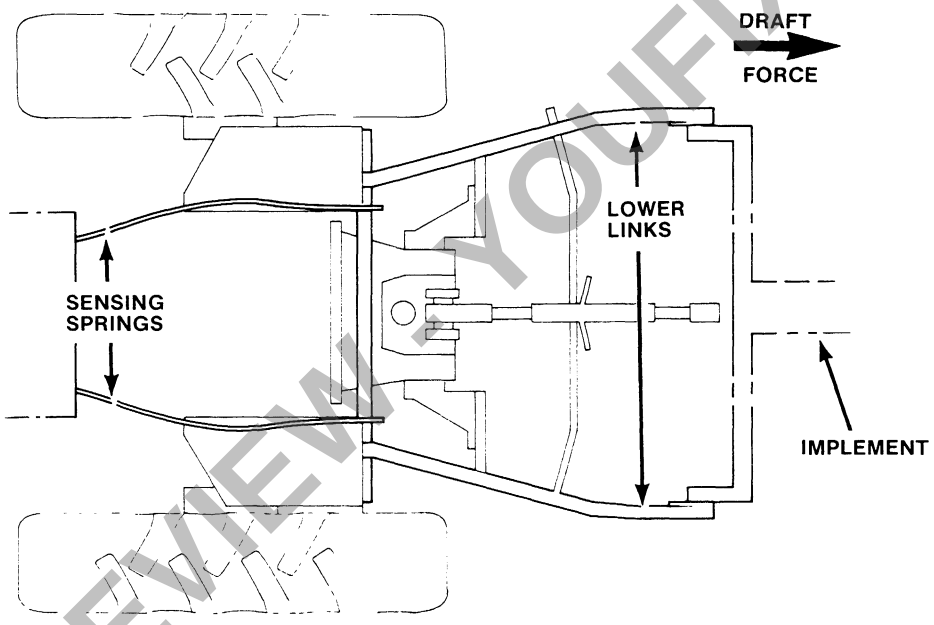


Figure 139

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