

# **1150D/1155D Crawlers**

## **Operators Manual**

9-8710



Reprinted

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

## MACHINE OPERATION



**WARNING:** Understand the limits of the machine. Keep the machine under control at all times. **DO NOT TRY TO DO TOO MUCH TOO FAST.**

3-7-B



**WARNING:** Do not permit other persons on the machine. Other persons on the machine can cause an accident.

47-48



**WARNING:** Look at the instruments and gauges frequently when you operate. Make sure that all systems are in the correct operating zone.

47-59



**WARNING:** Do not work next to a bank where there is a danger that material can fall on the machine. Do not work where there is a danger of a landslide. You can be injured if you operate in these areas.

41-10-B

**WARNING:** Operate controls only from seat with seat belt fastened.



Lock transmission control(s) in neutral and apply parking brake before starting engine and before leaving operator's seat.

Lower or block elevated components before servicing and when leaving the machine.

D-47-8-A



**CAUTION:** Be careful at all times. Keep the area clear of persons who are not authorized to be there. Know the location of authorized persons in the area.

2-3-A



**WARNING:** The transmission is not in neutral if you put only one control lever for track direction in the Neutral position. You must put both of these control levers in the Neutral position. The crawler can move and personal injury can result if you do not follow these instructions.

27-7-A



**CAUTION:** Always use the hand rails and steps when you get on or off the machine. Do not use the controls as a hand rail. Any other method can cause an injury.

47-70



**WARNING:** When you go down a hill with the crawler, always put the transmission controls in the Low range position. Use the manual brake pedal to make the crawler go slower. Use the power brake pedals to stop the crawler. Do not go down the hill with the transmission controls in the Neutral position or with the engine stopped.

47-71-A

7. ENGINE OIL PRESSURE GAUGE: This gauge indicates the oil pressure in the engine lubrication system. Oil pressure is normal when the gauge pointer is in the green zone. The gauge pointer can move into the yellow zone when the engine is at idle speeds; this is normal. If the gauge pointer moves into the red zone, stop the engine and check for the cause of the problem.

8. TACHOMETER: This gauge indicates engine speed in revolutions per minute (rpm). Normal engine speed is in the green zone of the gauge.

9. INSTRUMENT PANEL LAMP: This lamp will illuminate when the lamp switch is in the On position. See item 2.

10. TRANSMISSION OIL PRESSURE GAUGE: This gauge indicates the oil pressure in the transmission when the direction control levers are in the FORWARD or REVERSE position. Oil pressure is normal when the gauge pointer is in the green zone. The gauge pointer can move into the yellow zone when the engine is at idle speeds; this is normal. If the gauge pointer moves into the red zone, stop the engine and check for the cause of the problem.

**NOTE:** *The gauge pointer will move completely to the left when one or both of the direction control levers are moved to Neutral or the power transfer pedal is pushed down (loader only).*

11. TRANSMISSION FILTER WARNING LAMP: This lamp illuminates when the transmission filter is in need of service. If the lamp illumi-

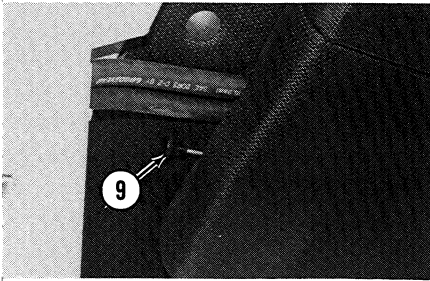
nates during machine operation and the oil is at operating temperature, stop the engine and change the hydraulic filter. If the lamp does not illuminate when you put the master disconnect switch in the ON position, replace the bulb. If the bulb will not illuminate after replacement, see your Case dealer or the service manual.

12. TORQUE CONVERTER/TRANSMISSION OIL TEMPERATURE GAUGE: This gauge indicates the temperature of the torque converter/transmission oil. The oil temperature is normal when the gauge pointer is in the green zone. If the gauge pointer moves into the yellow zone, select a lower transmission speed or reduce the operating load of the machine. If the gauge pointer moves into the red zone, stop the machine and run the engine at full throttle. If the gauge pointer does not move from the red area, stop the engine and check for the problem.

13. RESTRICTION INDICATOR: The restriction indicator indicates the condition of the air cleaner elements. When the red band is in full view, service the air cleaner.

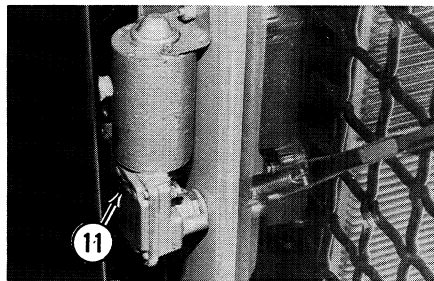
14. HAND THROTTLE (Engine): Move the lever up to increase engine speed and move the lever down to decrease engine speed.

15. FUEL SHUTOFF CONTROL (Engine Stop): Pull the knob out to stop the engine. Push the knob in after the engine has stopped.



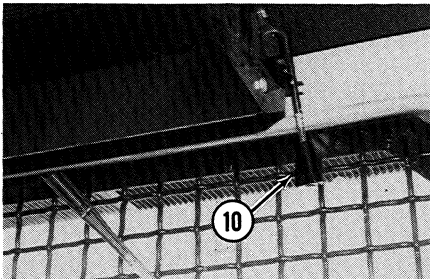
815894

**9. HEATER CONTROL:** Pull the control knob out (to the right) to increase the cab heat. Push the control knob in to stop the heat.



815895

**11. REAR WINDSHIELD WIPER SWITCH:** This switch has two positions; ON and OFF.



815896

**10. CONTROL LEVER FOR AIR FLOW PANEL:** This lever has two positions; FRESH AIR and RECIRCULATED AIR. Use the Fresh Air position to pressurize the cab. The door and windows must be closed to pressurize the cab.

## Steering

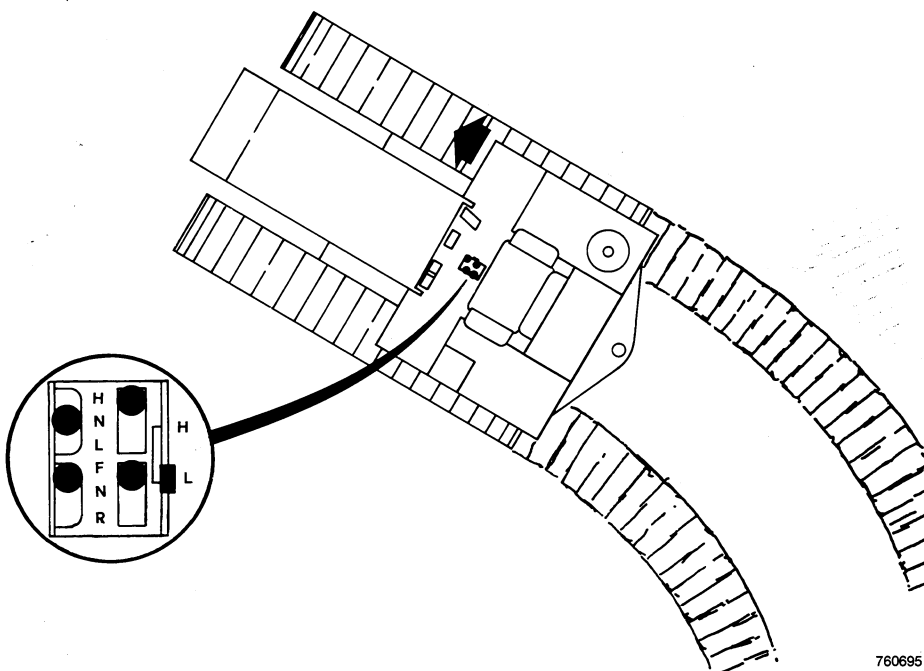
The crawler can be steered by four methods: Gradual Turn, Power Turn, Brake Turn, and Counter-Rotation Turn.

### Gradual Turn

1. To turn the crawler to the left, put the left track speed control in the

Neutral position. The right track of the crawler will gradually turn the crawler to the left.

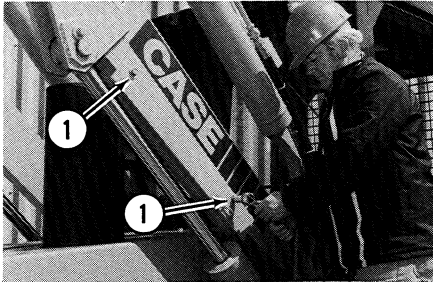
2. To turn the crawler to the right, put the right track speed control in the Neutral position. The left track of the crawler will gradually turn the crawler to the right.



760695

## SUPPORT STRUT FOR LOADER LIFT ARMS

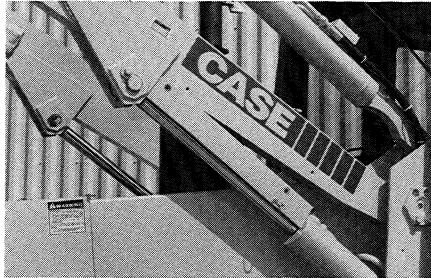
1. Remove cap screws.



1. Cap Screw

835496

3. Lower loader onto support strut.



835513

2. Slide support strut onto the cylinder rod.



835495

4. Put strut in storage when finished. Raise the lift arms and move the support strut to the rear. Install the cap screws.

**WARNING:** *If you service the machine with the lift arms raised, always use the support strut.*

1. *Empty the loader bucket, raise the loader lift arms to full height and stop the engine.*
2. *Remove two bolts from the support strut and move the support strut forward onto the cylinder rod.*
3. *Slowly lower the lift arms onto the support strut.*



*To put the support strut in the storage position, raise the lift arms, move the support strut rearward and install the two bolts.*

*If you do not follow this procedure, you can cause serious injury or death if the lift arms are lowered by accident.*

D-48-61

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



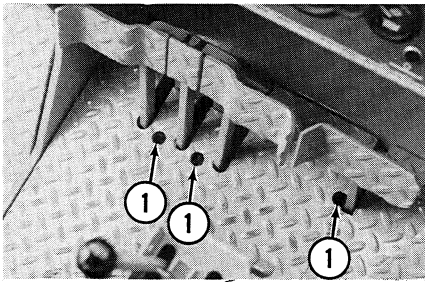
- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

## Every 250 Hours of Operation

Lubricate all pivot points with molydisulfide grease.

### Loader and Dozer Brake Pivots



1. Grease Fitting

835522

The control valve lever pivots can be lubricated from the outside of the valve compartment after removing the side panel. (Not Shown).

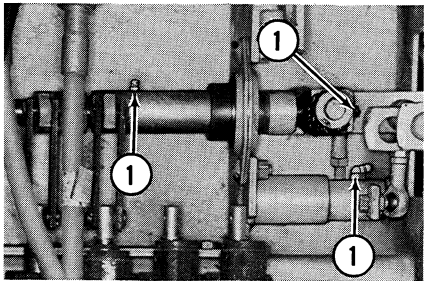
To lubricate the linkage pivots remove the valve compartment side cover for access to those fittings.

Machines with one control lever have 3 grease fittings.

Machines with two control levers have 5 grease fittings.

Machines with three control levers have 6 grease fittings.

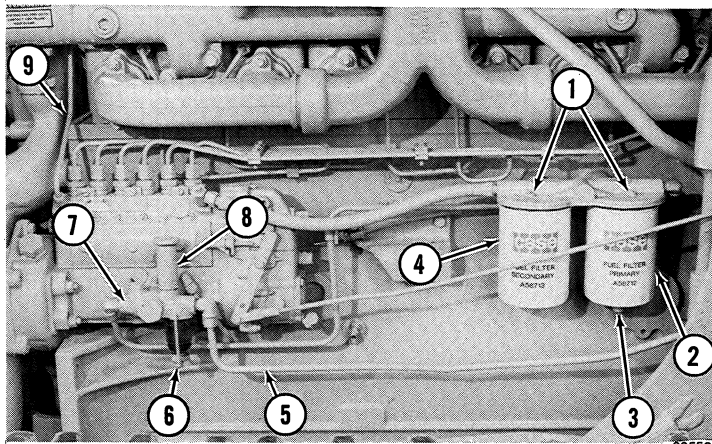
### Control Lever and Control Valve Linkage Pivots



1. Grease Fitting

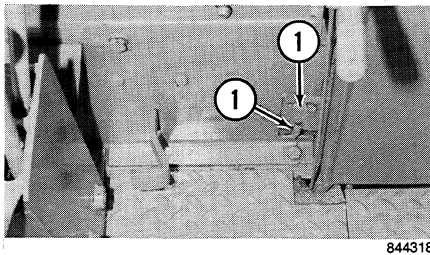
781260

## FUEL SYSTEM



- |                            |                             |
|----------------------------|-----------------------------|
| 1. Screws for Air Removal  | 6. Sediment Bowl and Filter |
| 2. First Stage Filter      | 7. Transfer Pump            |
| 3. Screw for Water Removal | 8. Hand Primer Pump         |
| 4. Second Stage Filter     | 9. Return Line to Tank      |
| 5. Supply Line from Tank   |                             |

### Fuel Tank Shutoff Valves



1. Shutoff Valve

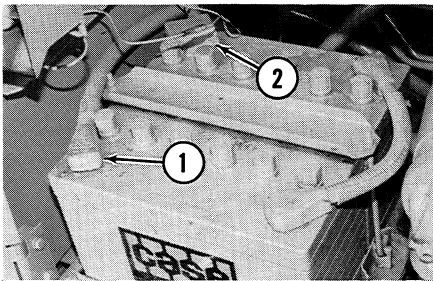
Close the shutoff valves at the fuel fuel tank when the sediment bowl is being cleaned, the fuel filters are being replaced, or if you service the fuel system.

### Replacing Fuel Filters

1. Close the shutoff valves at the fuel tank.
2. Clean the bodies of the fuel filters and the area around the fuel filters. Remove both fuel filters by turning counterclockwise with a strap wrench or special filter wrench, part number CAS-111. The special filter wrench is available through your J I Case dealer.
3. Remove the seal from the filter body and install a new seal.

## ELECTRICAL SYSTEM

1. This machine has a 24 volt, negative ground system.
2. Before you use an electric welder, disconnect the alternator wires.
3. Before you service components of the electrical system, always disconnect the negative battery cables.
4. Do not make a wrong connection with the battery cables.



1. Positive Battery Terminal
2. Negative Battery Terminal

5. Do not run the engine with the battery cables disconnected or with the alternator wires disconnected.

6. Do not use a steam cleaner or cleaning solvent to clean the alternator.

7. See the service manual for your machine or see your Case dealer if you do not understand the servicing procedures.

### Battery Fluid Level

Check the fluid level of the batteries every 250 hours of operation. If the fluid level is low, add clean or distilled water to each cell until the fluid level is at the split ring at the bottom of each cell opening.

**IMPORTANT:** If the temperature is 32° F (0° C) or below and you add water to the battery, make sure you connect a battery charger to the battery or run the engine for at least two or three hours after the water is added. This will mix the water with the electrolyte and will prevent freezing.



**CAUTION:** When you remove a battery, always disconnect the (-) negative ground cable first. When you install a battery, always connect the (-) negative ground cable last. This procedure can prevent an explosion that is caused by a spark. 47-38



**CAUTION:** Never wear metal rings or metal watch bands. You can make a ground for the electrical circuit and get a burn on your hand or arm. 46-55-A



**CAUTION:** Know the electrical circuit before you connect or disconnect an electrical component. A wrong connection can cause injury or damage. 5-4-A



**POISON/DANGER:** Batteries contain sulfuric acid which can cause severe burns. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL flush with water; INTERNAL, drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately; EYES, flush with water for 15 minutes and get prompt medical attention. Keep out of reach of children. D-19-2-A

## Procedure to Fasten a Cable to the Drum



**CAUTION:** Always use heavy duty gloves when you are handling cable. If the cable has broken strands, you can injure your hands.

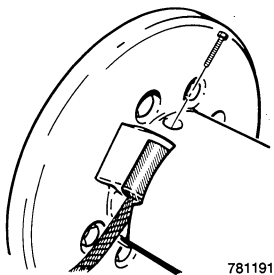
47-76



**WARNING:** Do not use a cable that is damaged. A cable is damaged if you can see a decrease in the cable diameter, broken strands or twists.

47-75

Get the end of the cable that has the ferrule. Put this end into the ferrule slot in the winch drum. Fasten the ferrule with the 1/4 inch bolt. Keep the cable under light tension during the first six revolutions of the winch drum to make sure that the ferrule is held in position.



## Procedure to Put a Ferrule on a Cable

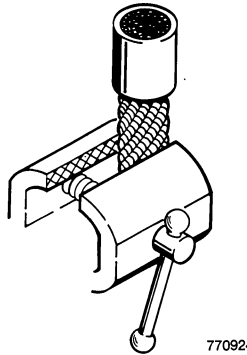
**IMPORTANT:** See your J I Case dealer and get the correct size ferrule for the cable you are using. A loss of strength will occur if the ferrule is too large.

**NOTE:** If you are putting a ferrule on a cable that has been used, inspect the cable first. Do not use a cable that has been damaged. Do the following to install a ferrule:

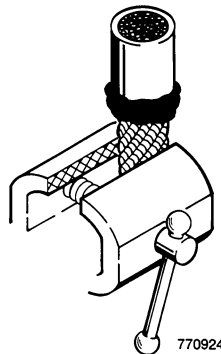
1. Cut the cable evenly on the ferrule end.

2. If the cable has a center made of rope, remove 1 inch (25 mm) of rope from the center of the cable.

3. Put the ferrule on the cable. See the following illustration. Open the strands of the cable.



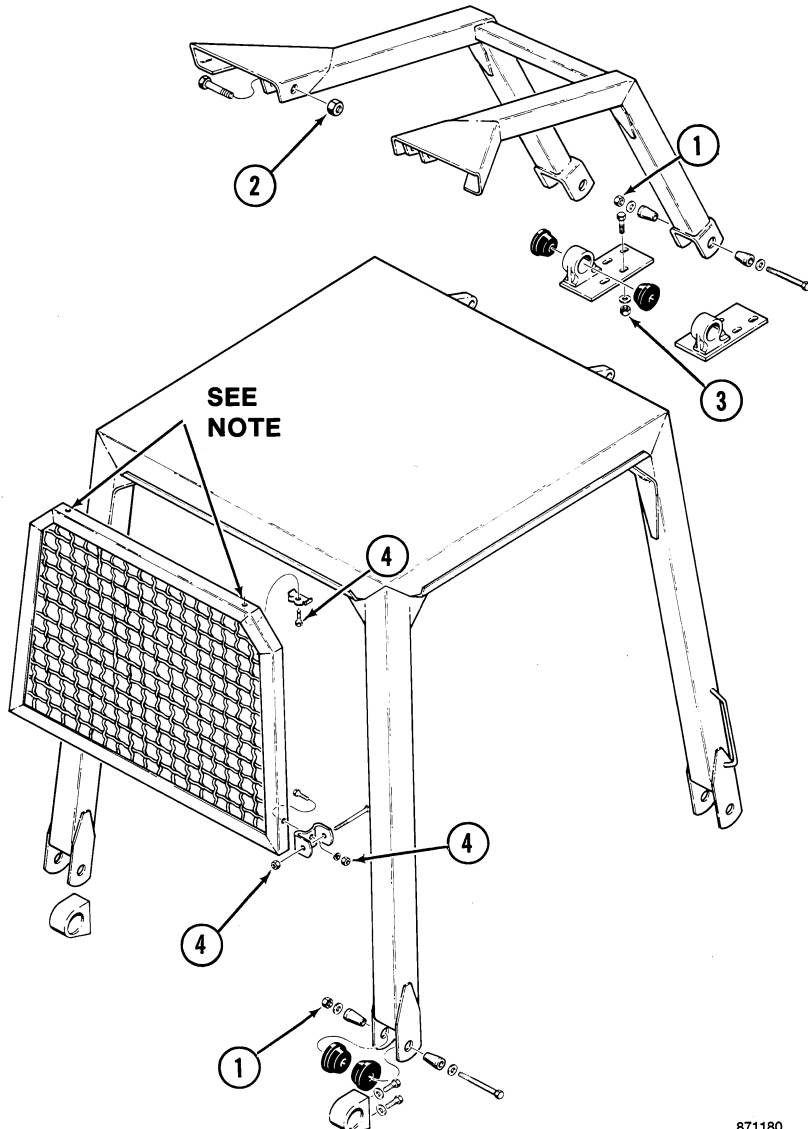
Ferrule Installed on Cable Correctly



Put a Wet Cloth or Other Acceptable Material Around the Bottom of the Ferrule

## TORQUE SPECIFICATIONS

### ROPS Cab And ROPS Canopy



871180

1. 190 to 210 pound-feet (258 to 285 N m, 26.3 to 29 kg/m)
2. 590 to 610 pound-feet (780 to 827 N m, 81.6 to 84.3 kg/m)
3. 235 to 285 pound-feet (319 to 386 N m, 32.5 to 39.4 kg/m)
4. 65 to 85 pound-feet (88 to 115 N m, 9 to 11.8 kg/m)

**NOTE:** After you tighten the two upper bolts (4), bend locking tab down to lock bolt.

## DIESEL FUEL

In temperatures above 32° F (0° C), use number 2 diesel fuel in your diesel engine. See NOTE. When you operate in temperatures below 32° F (0° C), use number 1 diesel fuel.

**NOTE:** *If the temperature lowers to the "Cloud Point" of the diesel fuel, wax particles will be in the fuel. These wax particles will cause a restriction of the fuel filters. Then the engine power will decrease. See your fuel dealer for more information.*

Different manufacturers can have diesel fuels of different specifica-

tions. All diesel fuel must meet specification D975 of the American Society for Testing and Materials. See the following chart.

### Fuel Storage

If you keep fuel in storage for a period of time, you can get foreign material or water in the fuel storage tank. Many engine problems are caused by water in the fuel.

Keep the fuel storage tank outside and keep the fuel as cool as possible. Remove water from the storage container at regular intervals.

### Diesel Fuel Specification Chart

Cloud point, maximum (No. 2 diesel fuel) .....	-10° F (-23° C)
Pour point, maximum .....	10 Fahrenheit degrees (6 Celsius degrees) below lowest atmospheric temperature at which engine must start and operate.
Cetane number, minimum .....	40 (45-55 for winter or high altitudes)
Sulphur, by weight, maximum .....	.50 of 1%
Water and sediment, by volume, maximum .....	.05 of 1%
Ash, by weight, maximum .....	.01 of 1%
Carbon residue on 10%, maximum .....	.20 of 1%
Distillation, 90% point .....	540° - 625° F (282° - 329° C)
End point .....	675° F (357° C)
Flash point, minimum .....	125° F (51° C) or legal
Viscosity, centistokes at 100° F (38° C) .....	2.0 - 4.3
Saybolt Universal Seconds at 100° F (38° C) .....	32 - 40
Corrosion, copper strip, 3 hours at 212° F (100° C) .....	No. 3 ASTM
API gravity, minimum .....	30

781008



**WARNING:** *Do not put fuel into the machine if (1) the engine is running, (2) you are near an open flame or (3) you have a burning cigarette, cigar, etc. You can cause a fire and a serious injury.*

6-6-A

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: [www.heydownloads.com](http://www.heydownloads.com) by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL