

650 Crawler

Operators Manual

9-15970

Reprinted

CASE

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 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

 **BEFORE OPERATION** 

Avoid loose fitting clothing, loose or uncovered long hair, jewelry and loose personal articles.

Different jobs will require different protective equipment. Items such as hard hats, protective shoes, heavy gloves, reflector type vests, respirators, and ear protection can be required. Know and use the equipment that is required before you start the job.

Be prepared for emergencies. Always have a first aid kit and a good fire extinguisher with you and know how to use them.

Know the hand signals used on your job. Follow the instructions of the flagman, signs, etc. See page 19.

Check that all doors, guards, and covers are installed correctly and closed.

Foreign material or grease on the steps and hand rails can cause an accident. Keep the steps and hand rails clean.

Before you start each day, walk around the machine and check for oil or fluid leaks. Replace all broken or missing parts and do the required lubrication and maintenance as shown in this manual. Clean all trash and debris from the machine.

Always face the machine and use the hand rails and steps when getting on. Do not rush.



Remove all loose objects from the operators area and from the machine. Loose objects can jam controls and cause accidents.

Before you start the engine, always fasten the seat belt.

Make sure the parking brake is applied and the transmission control levers are in NEUTRAL before starting the engine.

Engine exhaust fumes can cause death. If you operate this machine in an enclosed area, use good ventilation to replace the exhaust fumes with fresh air.

Make sure all persons are away from the machine and give a warning before you start the engine.

Know the rules, laws, and safety equipment necessary for transporting this machine on a road or highway.

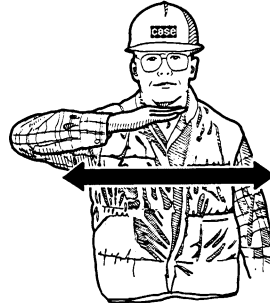
HAND SIGNALS

It is recommended that you and the flagman on the job use hand signals for communications. Before you start, make sure that you both understand the signals that will be used.

Start Engine



Stop Engine



AS112

Come To Me

Move hand forward and rearward (palms in).



Move Away From Me

Move hands forward and rearward (palms out).



AS113

Go This Far



All Stop and Hold



AS114

SECTION INDEX

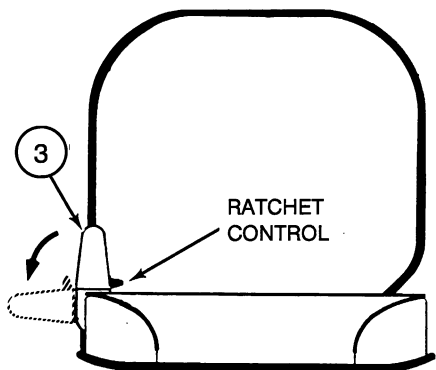
Air Filter Restriction Indicator 30
Blade Control Levers 36
Engine Hand Throttle 31
Engine Hourmeter 30
Engine Run Switch 31
Ether Start Aid Button 30
Foot Throttle and Brake Pedals 33
Gauges
 Alternator (Ammeter) 32
 Converter Temperature 31
 Engine Oil Pressure 32
 Transmission Oil Pressure 31
 Water Temperature (Coolant) 32
Instrument Panel 30, 31, 32
Horn Button 30
Light Switch 30
Master Disconnect Switch 35
Neutral Lock 35
Operators Seat
 Standard Seat 38
 Suspension Seat 38, 39
Operators Seat Belt
 Three Inch (76 mm) Wide Belt 41
 Two Inch (50 mm) Wide Belt 40
Parking Brake Lever 35
Ripper Control Lever 37
Starter Button 35
Transmission Control Levers
 Track Direction Control Lever 34
 Track Speed Control Levers 34
 Transmission Range Control Lever 34
Warning Lamp
 Transmission Filter 31

INSTRUMENTS AND CONTROLS

3. CONTROL LEVER FOR WEIGHT ADJUSTMENT: This is a ratchet control that adjusts the seat to the weight of the operator.

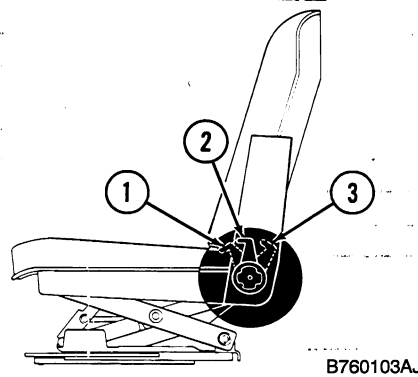
MORE SUPPORT FOR HEAVY OPERATOR: Pull the ratchet control up and actuate the weight control lever several times. Check the weight indicator.

LESS SUPPORT FOR LIGHT OPERATOR: Push the ratchet control down and operate the weight control lever several times. Check the weight indicator.



B841631J

4. WEIGHT INDICATOR:



1. *More Support Required*
2. *Adjustment Correct*
3. *Less Support Required*

5. CORRECT ADJUSTMENT INDICATOR: This indicator is located on the inside of the left frame of the seat. To check the adjustment:

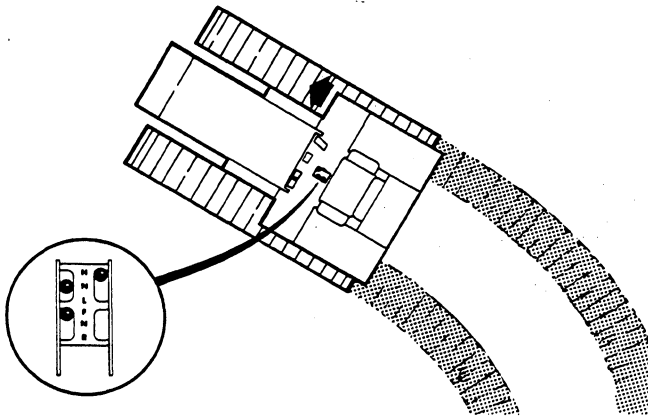
1. Sit in the seat.
2. Look at the adjustment indicator. Refer to the above illustration.
3. The adjustment indicator will be at position (2) when the seat is adjusted correctly.

Steering

Gradual Turn

1. To turn the crawler to the left put the left track speed control lever in the NEUTRAL position and the right track speed control lever in HIGH or LOW position. The crawler will gradually turn to the left.

2. To turn the crawler to the right, put the right track speed control lever in the NEUTRAL position and the left track speed control lever in HIGH or LOW position. The crawler will gradually turn to the right.

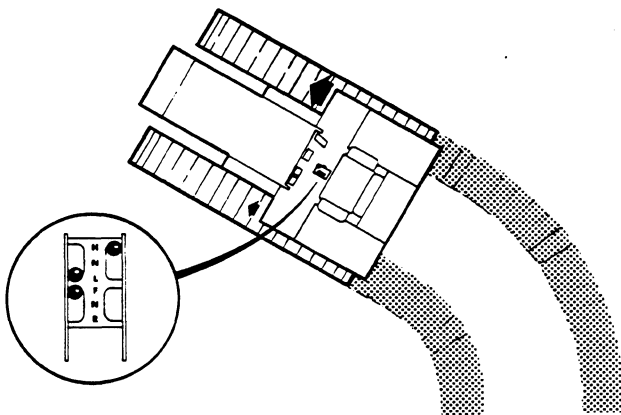


B840002AJ

Power Turn

1. To turn the crawler to the left, (1) put the left track speed control lever in the LOW position and (2) put the right track speed control lever in the HIGH position. The crawler will turn to the left with power to each track.

2. To turn the crawler to the right (1) put the right track speed control lever to the LOW position and (2) put the left track speed control lever in the HIGH position. The crawler will turn to the right with the power to each track.



B840003AJ

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 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

OPERATING INSTRUCTIONS _____

This page left blank.

LUBRICATION/MAINTENANCE CHARTS _____

SECTION INDEX

Engine Hourmeter 72

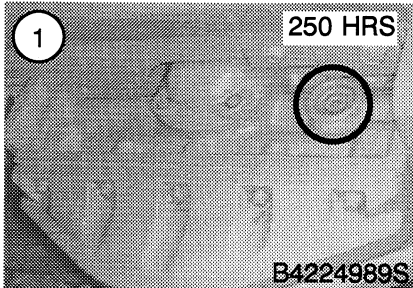
General Safety Before You Service..... 70

Lubrication/Maintenance Chart 73 to 75

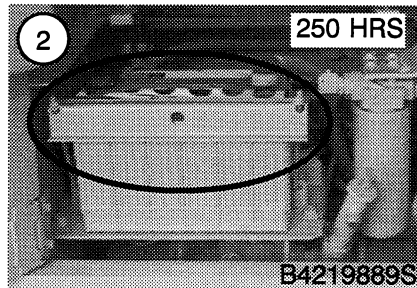
Systemgard Lubrication Analysis Program..... 71



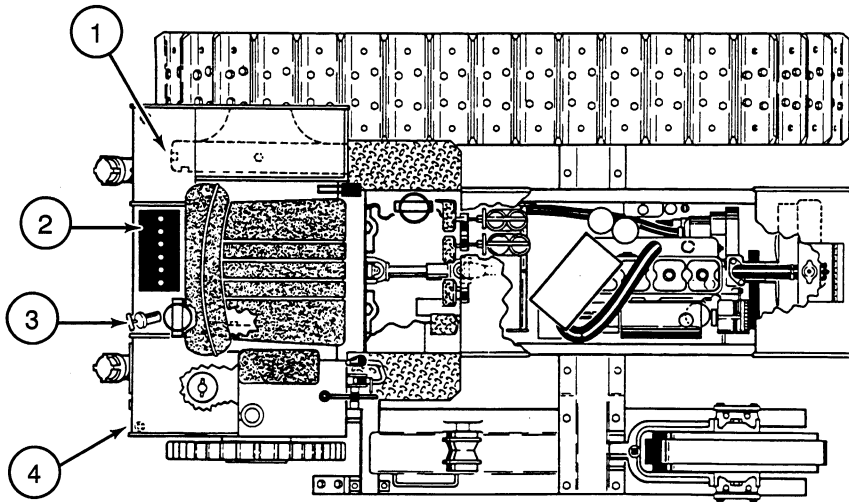
FLUID LEVELS



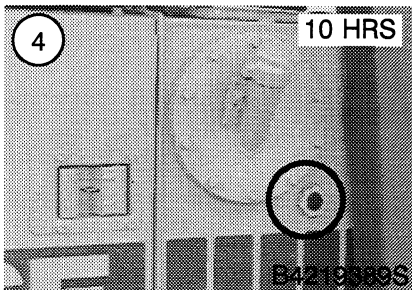
FINAL DRIVE OIL
CASEIH 135-H EP GEAR LUBE



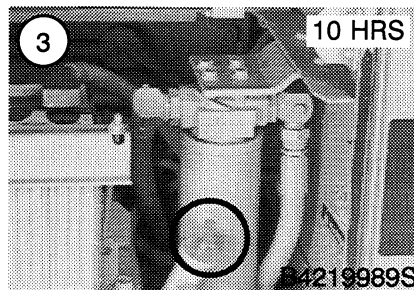
BATTERY
DRINKING OR DISTILLED WATER



B892647J



HYDRAULIC FLUID
CASE TCH FLUID



TRANSMISSION FLUID
CASE TCH FLUID

Cleaning the Primary (Outer) Element

Check the dirty element for damage and check the rubber seal on the end. Push the rubber seal with your finger. If the rubber seal feels hard and does not move back to original shape, discard the element.

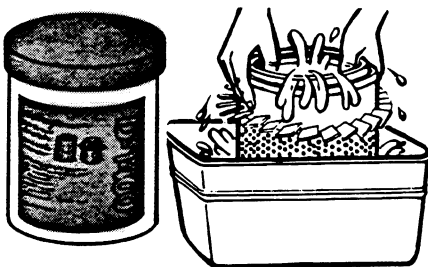
1. Remove the loose dirt with compressed air at 30 psi (207 kPa, 2.1 bar) maximum. Hold the nozzle at least one inch (25) from the element.



CA5000J

2. Mix two tablespoons of D1400 detergent (Case part number A40910) with two gallons (7.5 litres) of water, one cup for 16 gallons (60 litres) of water.

3. Soak the element in the soap solution for 15 minutes and then move the element up and down rapidly to loosen as much dirt as possible.



CA5001J

4. Use a water hose without a nozzle with pressure less than 40 psi (275 kPa, 2.8 bar) to remove all soap from the element.



CA5002J

5. Allow the element to air dry. If you use a drier, do not exceed 160°F (71°C) and make sure the air is circulating in the drier.

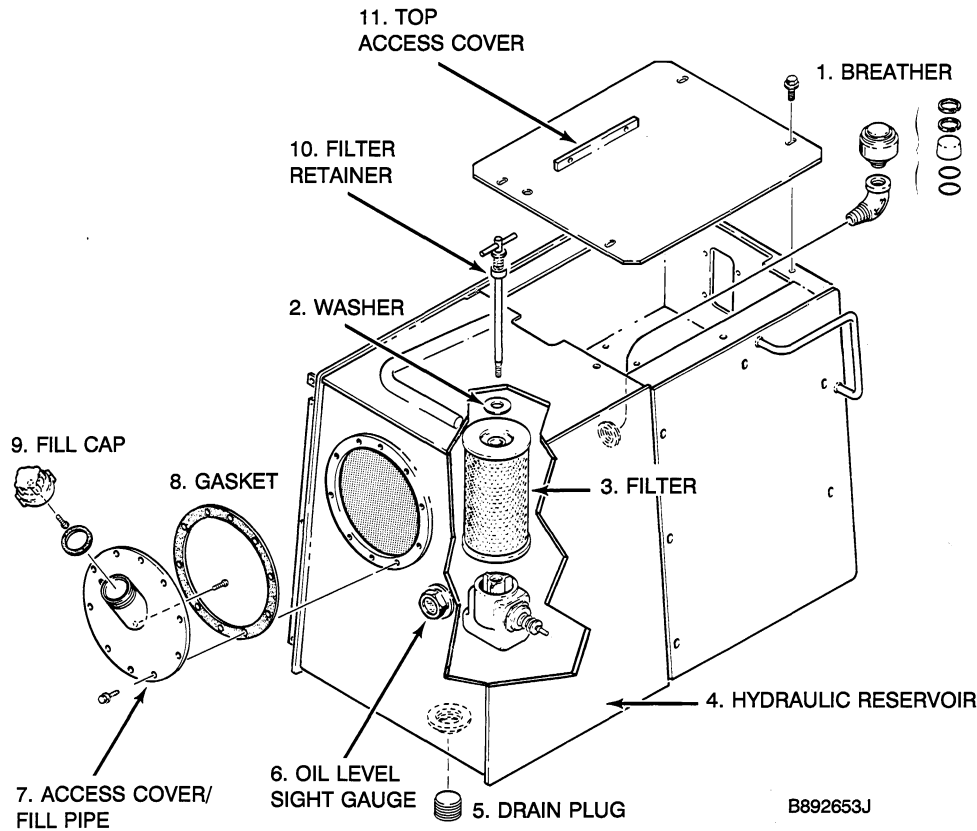
6. Use a light and inspect the element for holes or splits in the pleats. Check for damage to the metal parts and rubber gasket. Replace the element if damaged.



CA5003J

NOTE: *If the element is not to be used for some time, cover the element with paper for storage.*

Fluid Change, Breather and Filter Service



1. Make sure the hydraulic fluid is warm.

2. Lower the equipment to the ground and stop the engine.

3. Put a Do Not Operate tag on the instrument panel.

4. Have a container that will hold about 15 U.S. gallons (57 litres).

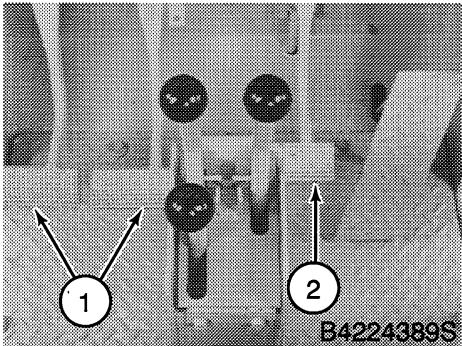
5. Clean the area around the access cover/fill pipe and remove the access cover/fill pipe.

6. Remove the drain plug and remove all fluid from the reservoir.

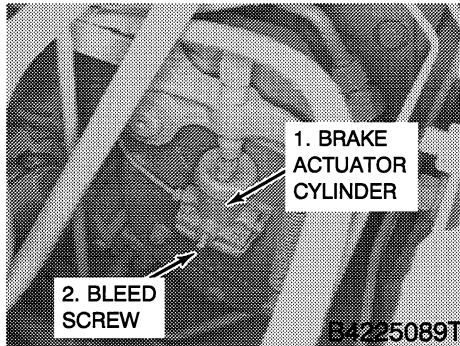
7. Remove the filter.

8. Clean the inside of the reservoir with solvent and wipe with a clean cloth.

MAINTENANCE AND ADJUSTMENTS



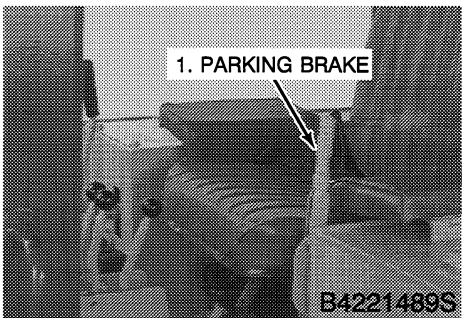
1. Hydraulic Brake Pedals
2. Mechanical Brake Pedal



- f. Do the same procedure to the left brake pedal.

- g. Add Case TCH fluid to the brake master cylinders as required.

- h. Install the floor plates.



1. AIR IN THE LINES: Push on both pedals, if the pedal effort is soft, you must remove air from the brake lines. This is a two person operation.

- a. Make sure the fluid level in the brake master cylinders is correct.

- b. Remove the floor plates.

- c. Push and release the right brake pedal 3 or 4 times to increase pressure in the brake system.

- d. Loosen the right bleed screw on the brake actuator cylinder.

- e. Slowly push down the right brake and hold the pedal down until you tighten the bleed screw. Repeat this procedure until air free fluid flows from the bleed screw.

2. HEIGHT OF PEDALS ABOVE THE FLOOR PLATE: Refer to the illustration on page 108 and measure the distance of each brake pedal from the floor plate. If this dimension is not correct, refer to the illustration on page 108 and do the following:

- a. Remove the adjusting screw (1) for the pedal height from each brake pedal (3).

- b. Clean the Loctite from each screw (1).

- c. Put new Loctite, grade 242 on each screw (1) and install in the brake pedals (3).

- d. Adjust each adjusting screw (1) for the correct brake pedal height (5).

ELECTRICAL SYSTEM _____

SECTION INDEX

Battery Service 120

 Battery Fluid Level 121

 Battery Vents 121

Circuit Breakers 122

Transmission Filter Warning Lamp 122

Work Lights 121



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 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