

# 9060B Excavator

P.I.N. EAC0601026 and After

## Operators Manual

Bur 9-29381

Reprinted

The CASE logo is located in the bottom right corner of the page. It consists of the word "CASE" in a bold, italicized, sans-serif font, with a horizontal line underneath the letters.

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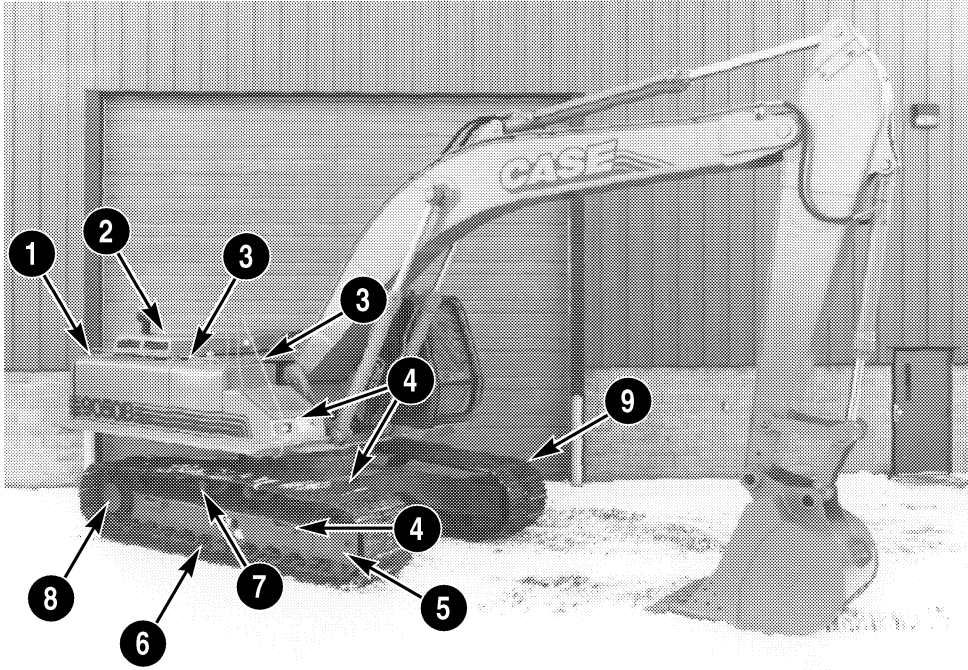
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## MACHINE COMPONENTS (CONT'D)



A27424

- 1. Rear Counterweight
- 2. Engine Compartment
- 3. Hand Rails

- 4. Steps
- 5. Idler
- 6. Track Rollers

- 7. Track Carrier Roller
- 8. Drive Sprocket
- 9. Track Chain

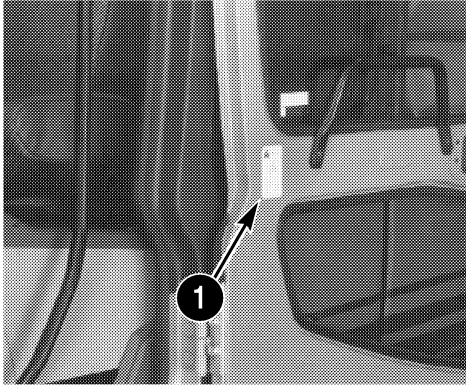
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## SAFETY/DECALS/HAND SIGNALS

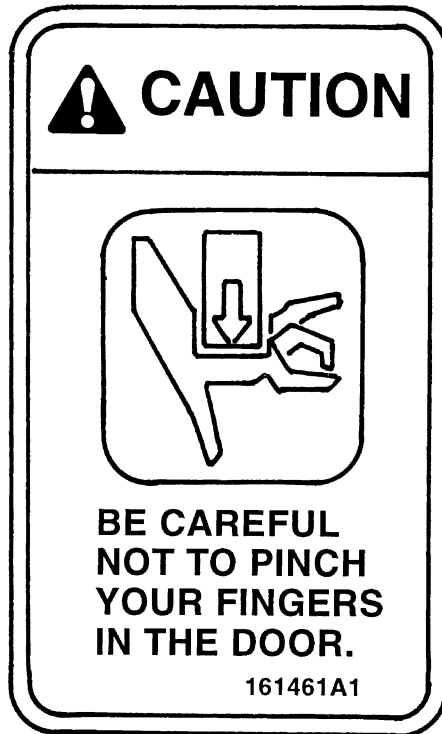
- Before you service this machine and before you dispose of the old fluids and lubricants, always remember the environment. Do not put oil or fluids into the ground or into containers that can leak.  
Check with your local environmental or recycling center or your Case dealer for correct disposal information.
- When you service this machine, always wear face or eye protection, safety shoes, and other protective items as required.
- Metal chips or debris can cause eye injury. Always wear eye or face protection when you use a hammer on this machine. Use a hammer with a soft face, such as brass, to drive hardened pins.
- Lower the bucket or tool to the ground or block up securely before working on the machine. Follow the instructions in this manual when you service the machine.
- Clean the machine regularly. A build-up of grease, dirt, and debris can cause possible injury or machine damage.
- Before welding on this machine, disconnect the battery ground (-), the alternator and the System Display Panel controller, located next to the fuse block.
- Hydraulic fluid or grease injected into your skin can cause severe injury or death. Keep your hands and body away from any pressurized leak. Use a piece of cardboard or paper to look for a pressurized leak. This will help keep your hands away from the danger. If fluid is injected into your skin, see a doctor immediately.
- This machine has an accumulator in the hydraulic system. Before you disconnect any hydraulic line or hose, see the following procedure to remove all hydraulic pressure.  
To Release Hydraulic System Pressure:
  1. Lower the attachment/bucket to the ground.
  2. Turn the key switch to OFF and stop the engine.
  3. Turn the key switch to ON but do not start the engine.
  4. Check the System Display Panel and make sure the Control Lock symbol is not ON.
  5. Move both operation control levers forward and rearward - left and right about ten times.
  6. Turn the key switch to OFF.
  7. Release the air pressure from the hydraulic reservoir (remove the cap nut from the top of the breather and push the button).

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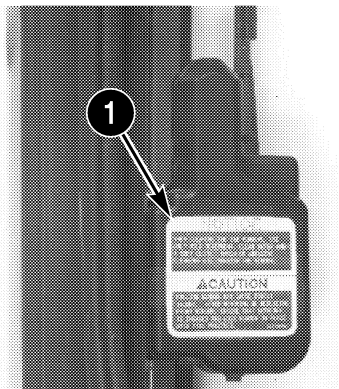
1. 161461A1

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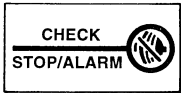


1. 161460A1

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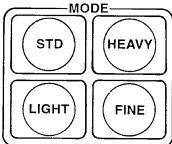


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B9408113

**4. ALARM STOP BUTTON:** Push and release this button to stop the alarm. Read the message panel.



B9408105

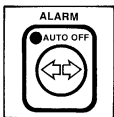
**5. MODE SELECT BUTTONS:** This feature allows you to select from four different modes of operation. You can select speed or machine power as the job requirements change. The **S** standard mode is automatically selected when the engine is first started.

**(H) HEAVY MODE:** This mode is used for tough digging conditions.

**(S) STANDARD MODE:** This is used for general excavation and overall fuel economy.

**(L) LIGHT MODE:** Use this mode when control, not speed, is important. This mode provides maximum fuel economy.

**(F) FINE MODE:** This mode is designed for greater lifting capacities with slower speeds. Power boost is ON full time. The lifting capacity charts in the Specifications section of this manual show both the standard lifting capacities and the increased lifting capacities of the (F) Fine Mode.



B9410031

**6. TRAVEL ALARM:** This feature has two positions. **AUTOMATIC** and **OFF**. Push and release this button to change the feature. When the lamp is **ON** and you drive the machine, the alarm sounds for about 10 seconds and then stops. When the lamp is **OFF**, the alarm is continuous as you drive.



B9408106

**7. ATTACHMENT CUSHION CONTROL BUTTON:** This switch has two positions, Cushioned **ON**, and Cushioned **OFF**. Push and release the button to change the feature. When the lamp in the button is illuminated, Cushioned **OFF** is selected. Select the Cushioned **ON** position when smoother operation of the arm and boom is required.

**NOTE:** When the engine is started, Cushioned **ON** is automatically selected.



B9408091

**8. FREE SWING BUTTON:** This switch has two positions, **ON** and **OFF**. When the engine is started, Free Swing is **OFF**. Push and release the button for the **ON** position (indicator lamp illuminates).

**ON POSITION:** Select this position for a smoother stopping action of the swing.

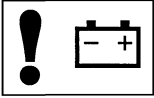
**OFF POSITION:** Select this position when you want normal operation of the swing.



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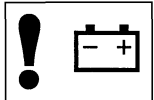
**9. WINDSHIELD WASHER BUTTON:** Push this button to actuate the windshield washer. Fluid is sprayed and the wipers operate as long as you push this button. The washer fluid reservoir is located in the front compartment to the right of the cab. See page 135.

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**ALTERNATOR:** If this message and symbols appear and the warning alarm sounds, stop the engine and check the alternator charging system. See the service manual for this machine or see your Case dealer.



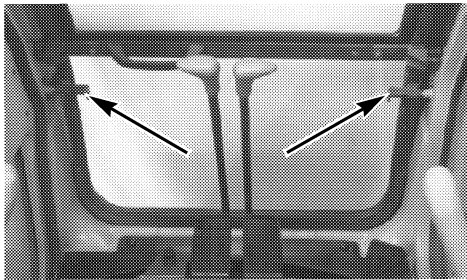
B9408083/9408082

**ELECTRICAL PROBLEM:** If this message and symbols appear and the warning alarm sounds, stop the engine and check the electrical system for a problem. See the service manual for this machine or see your Case dealer.

*To stop the warning alarm, push and release the Alarm Stop Button (See page 35). Make sure you do the required service or action to remove the problem.*

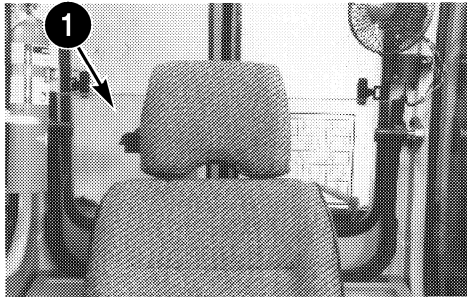
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### Lower Front Window



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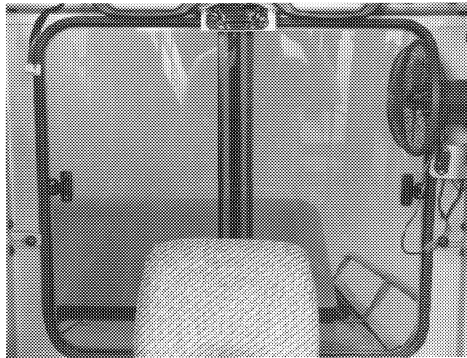
Release the two window locks and remove the window. Put the window in the STORAGE position behind the seat.



A27371

1. Window in Storage

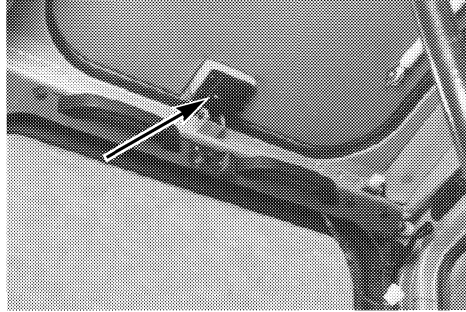
### Rear Window



A23894

Both rear windows slide toward the center. Release the latch and slide the window. The rear window or the hinged roof panel can be used as a secondary exit.

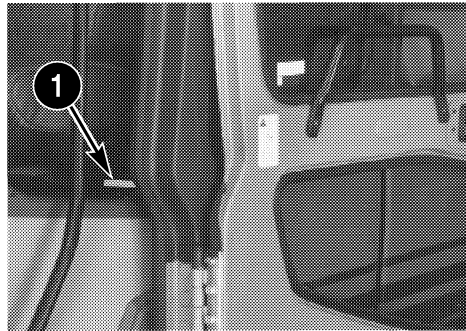
### Hinged Roof Panel



A23887

Release the roof panel latch and push to open.

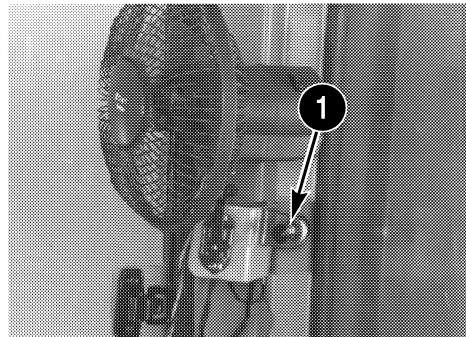
### Door



A23946

1. Door Release Lever

### Cab Air Circulation Fan



A23893

1. Fan Switch

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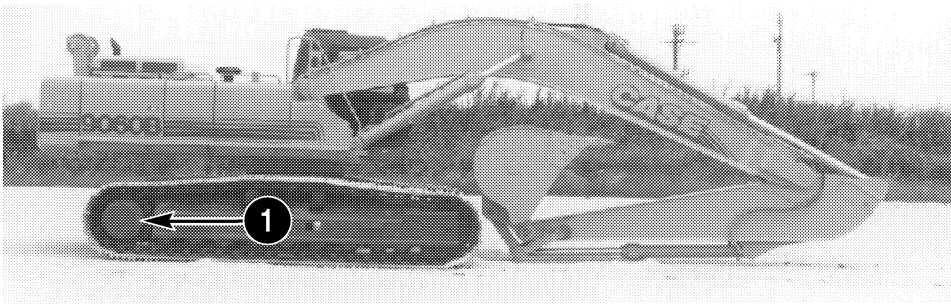
## DRIVING THE MACHINE



**WARNING:** If the drive sprockets are at the front of the machine the steering controls are reversed. This can cause an accident. Before you drive the machine, make sure the drive sprockets are at the rear of the machine. SA151

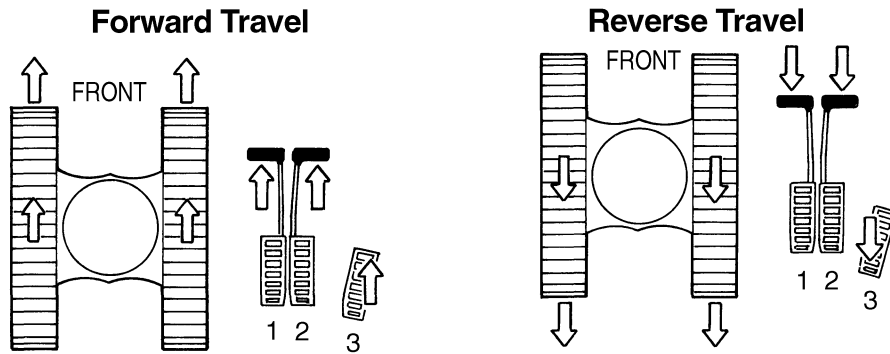


**WARNING:** You can cause an accident and severe personal injury to others around your machine if you do not know how to use the Travel controls correctly. Read the information about driving this machine. Before working this machine around other persons, drive this machine in a clear open area to learn correct operation of the Travel controls. SA157



RP95G130

1. Drive Sprocket at the Rear for Normal Driving



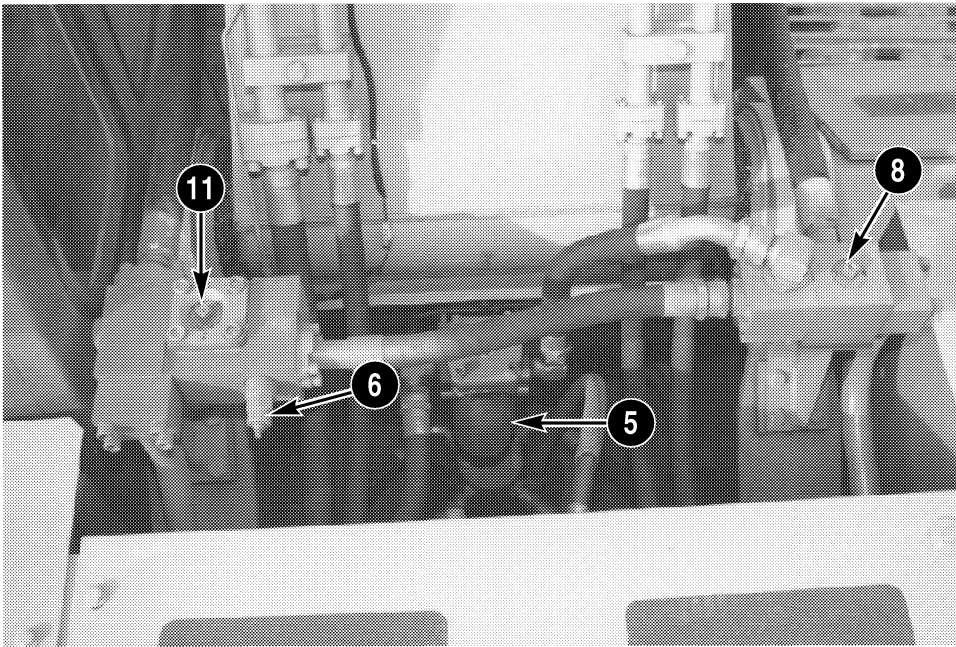
B9501207

1. Left Steering Lever/Pedal
2. Right Steering Lever/Pedal
3. Combined Travel Pedal

Push the top of the Combined Travel pedal forward for FORWARD travel and push the bottom of the pedal down for REVERSE. You can also use both Steering Lever/Pedals to drive straight or turn the machine. Refer to the next two pages.

TRIM THIS EDGE

3. Turn selector valve (11) to the O (OPEN) position.
4. Make sure the auxiliary relief valve (6) has been adjusted by your Case dealer to the correct pressure for your breaker.
5. Push the top of the Auxiliary Attachment Flow Control switch for single pump flow. Push the bottom of the switch for dual pump flow.
6. To actuate the breaker, push down the top of the auxiliary control pedal.



B9502038

5. Auxiliary Return Filter  
6. Auxiliary Relief Valve

8. Selector Valve  
11. Selector Valve

**NOTE:** The photograph above will help you locate the components of the auxiliary hydraulic systems referred to on the previous page. The same reference number is used for each component in each of these illustrations and photographs.

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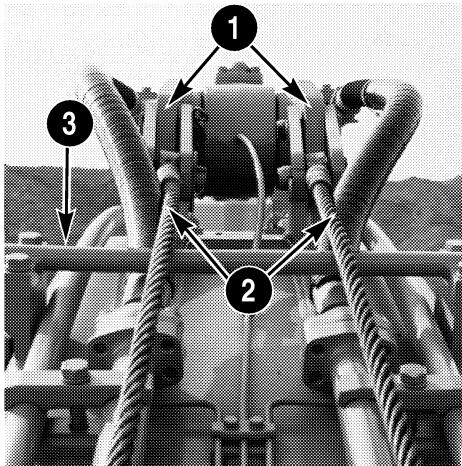
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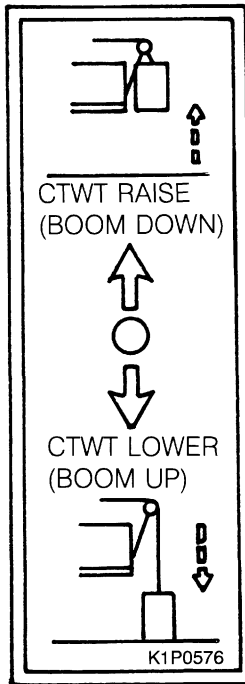
10. Remove the two cables from the front storage compartments. Connect both cables to the boom.



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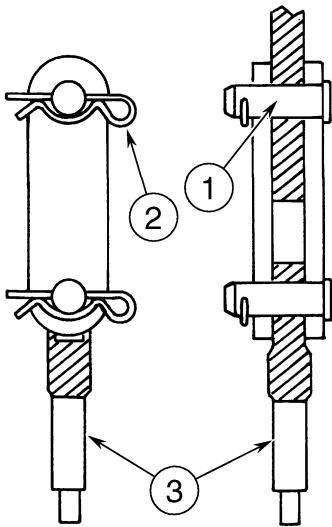
1. Boom Mounting Ears  
2. Cables  
3. Ladder Rung

11. Carefully raise the boom to full height. Put the right cable on the right pulley and the left cable on the left pulley.



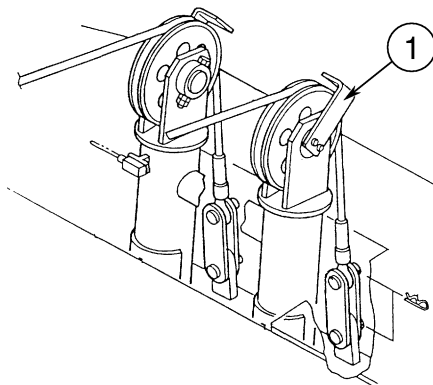
B9302177A

12. Install a cable guard on each pulley.



B9302181A

1. Clevis Pin  
2. Hair Pin  
3. Cable




B9302180A

1. Cable Guard

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## LUBRICATION/FILTERS/FLUIDS GENERAL SAFETY BEFORE YOU SERVICE

 **WARNING:** *Improper service or repair can cause injury or death. If you do not understand the service procedures for this machine, see your Case dealer or the Service Manual for this machine.* SA021

Read the safety decals and information decals on the machine. Read the operator's manual and safety manual. Understand the operation of the machine before you start servicing.



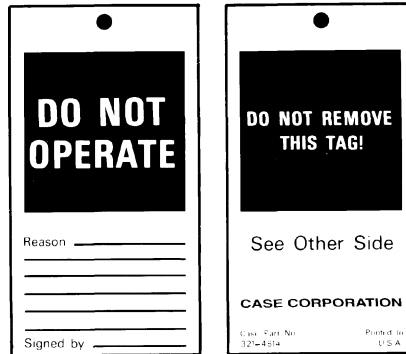
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Before you service the machine, put a Do Not Operate tag on the instrument panel. One Do Not Operate tag, is included with your new machine. Additional tags, part number 321-4614, are available from your Case dealer.

Use the correct safety clothing and safety equipment. Understand how to use a fire extinguisher and first aid kit.



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## ENVIRONMENT

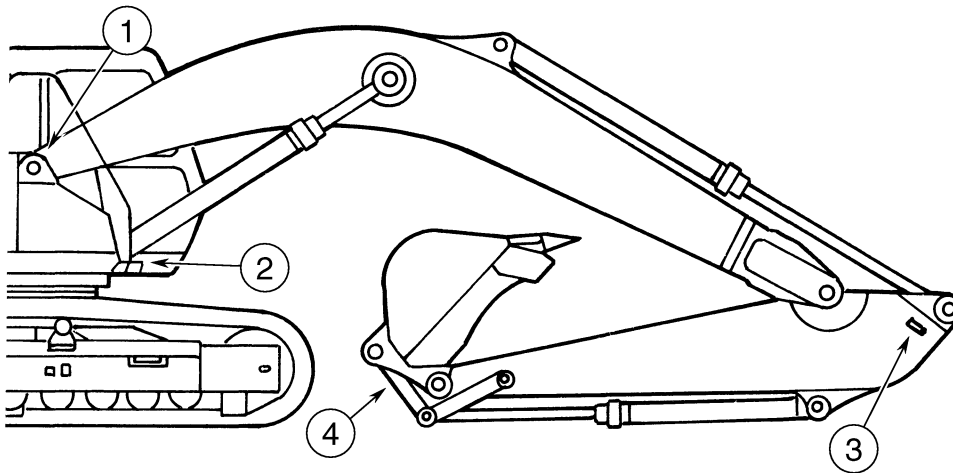
Before you service this machine and before you dispose of the old fluids and lubricants, always remember the environment. Do not put oil or fluids into the ground or into containers that can leak.

Check with your local environmental or recycling center or your Case dealer for correct disposal information.

## GREASE FITTINGS

Lubricate the machine according to the intervals in the lubrication chart on page 97. If you operate the machine in severe conditions, lubricate the machine each day. Remove all dirt from the grease fittings before you lubricate. See page 99 for the correct type of grease.

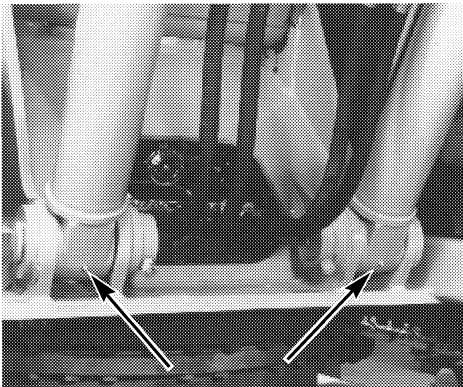
EVERY 50 HOURS OF OPERATION



- |  |            |
|--|------------|
| 1. Boom Pivot Area (See page 106) .....          | 6 fittings |
| 2. Boom Cylinders - Closed End (See below) ..... | 2 fittings |
| 3. Arm Pivot Area (See page 106) .....           | 4 fittings |
| 4. Bucket Pivot Area (See below) .....           | 6 fittings |

B9502072

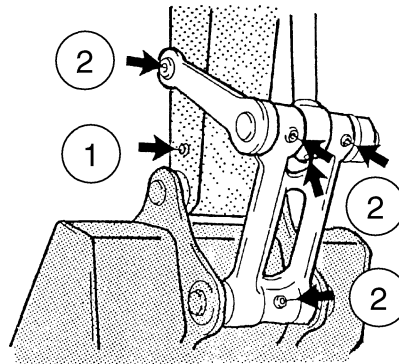
EVERY 50 HOURS



Boom Cylinder - Closed End... 2 fittings

A27388

EVERY 50 HOURS



- |                                |            |
|--------------------------------|------------|
| 1. Bucket Pivot .....          | 1 fitting  |
| 2. Bucket Linkage Pivots ..... | 5 fittings |

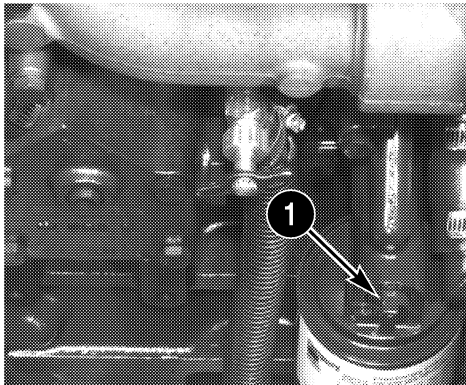
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## Replacing the Coolant System Filter

Replace the coolant filter every 250 hours of operation. Drain and flush the Engine Cooling System every 2000 hours of operation or every 2 years. Replace the coolant filter after every draining and flushing of the Engine Cooling System.

1. Rotate the shutoff valve 1/4 turn counterclockwise to the OFF position.



JD01802

1. Shutoff Valve
2. Turn the coolant filter counterclockwise to remove the filter. Discard the filter.
3. Use a clean cloth and clean the coolant filter mounting area on the engine.
4. Apply a thin layer of clean grease or oil to the gasket of the new coolant filter.
5. Turn the new coolant filter clockwise until the gasket comes in contact with the filter head. Tighten the coolant filter 1/2 to 3/4 turn by hand.

**IMPORTANT:** *DO NOT* use a filter strap wrench to install the coolant filter. When the coolant filter is too tight you can cause damage to the gasket and coolant filter.

6. Rotate the shutoff valve 1/4 turn clockwise to the ON position.

## Cleaning the Cooling System

Drain, flush, and replace the engine coolant every 2 years. Clean the system and replace the coolant if the coolant becomes dirty or has the color of rust.



**WARNING:** *Hot coolant can spray out if radiator cap is removed. To remove radiator cap: Let system cool, turn to first notch, then wait until all pressure is released. Scalding can result from fast removal of radiator cap. Check and service engine cooling system according to maintenance instructions. SA023*

**IMPORTANT:** *DO NOT* remove the radiator cap if the coolant is hot. Allow the system to cool, then:

1. Open the radiator drain valve and remove the radiator cap.
2. After all coolant is removed, close the drain valve.
3. Add cleaning solution to the cooling system and fill the cooling system with clean water.
4. Follow the directions included with the cleaning solution.
5. After you drain the cleaning solution, flush with clean water and drain.

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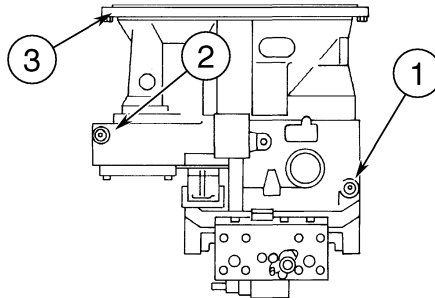
## Hydraulic Fluid Change

Change the hydraulic fluid every 5000 hours of operation.

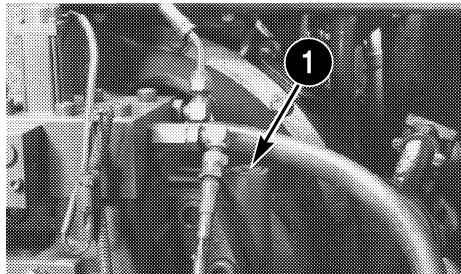
1. Wear face protection and release the air pressure from the reservoir and remove the fill plug.
2. Remove the cover plate that is located under the hydraulic reservoir.
3. Using a pump, remove the fluid from the hydraulic reservoir. Have a container that has a capacity of 152 litres (40 U.S. gallons).
4. Remove the drain plug to remove the remaining fluid from the reservoir.
5. Replace the suction filter, return filter, pilot filter, drain filter, and Ultra Clean filter.
6. Install the reservoir drain plug.
7. Put new hydraulic fluid into the reservoir. Raise the oil level up to a point between the two lines on the oil level sight gauge.
8. Install the reservoir fill cover plate.
 

**IMPORTANT:** Before you start the engine, it is very important that you bleed air from the hydraulic pump. Damage can occur to the pump if you do not follow these instructions.
9. Open the right engine access door.
10. Clean the top of the hydraulic pump and the two air bleed plugs with solvent.
11. Loosen the right air bleed plug on top of the pump and pressurize the hydraulic reservoir with air from an outside source. When Air free oil comes out of the plug hole, install the plug. See the following photographs and illustration.

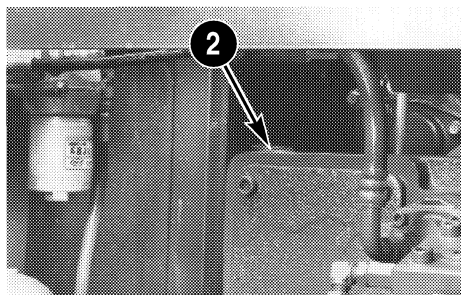
12. Loosen the left air bleed plug on top of the pump and pressurize the hydraulic reservoir with air from an outside source. When air free oil comes out of the plug hole, install the plug.



- B9502231
1. Right Air Bleed Plug on Pump
  2. Left Air Bleed Plug on Pump
  3. Mounting Plate to Rear of Engine



1. Right Air Bleed Plug



1. Left Air Bleed Plug

13. Start the engine and run at idle speed. Do not swing the upper structure.

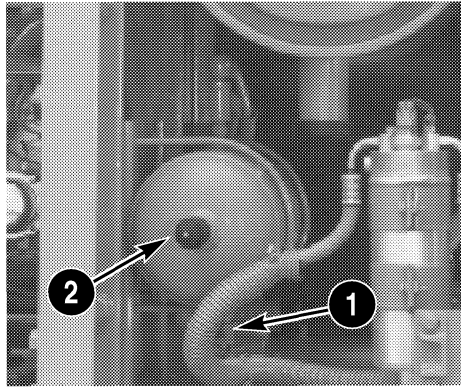
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## AIR PRESSURE RESERVOIR

While wearing face protection drain water from the air pressure reservoir every 50 hours of operation.

1. Open the battery compartment door.
2. Turn the drain valve on the bottom of the air pressure reservoir 90 degrees to the OPEN position and remove all water.
3. Turn the drain valve 90 degrees again to the OFF position.
4. Close the battery compartment door.

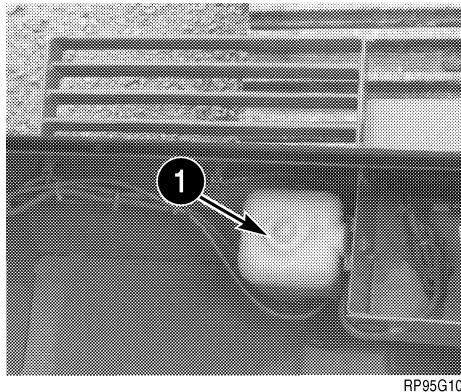


1. Drain Valve
2. Air Pressure Reservoir

## WINDSHIELD WASHER RESERVOIR

The windshield washer reservoir is located on the right side of the machine inside the front access door. To add fluid, pull the cap up.

**IMPORTANT:** *When the temperature of the outside air is below freezing, 0°C (32°F) and below, use an antifreeze type washer solution.*



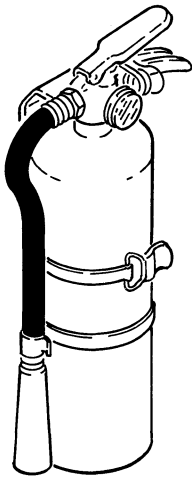
1. Windshield Washer Reservoir

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## FIRE EXTINGUISHER

### Type of Fire Extinguisher

It is recommended that you have a fire extinguisher on your machine. The fire extinguisher shown below is available from your Case dealer and can be installed on the machine.



B9409008

### Inspection and Care

**EVERY MONTH:** It is recommended that you inspect the fire extinguisher once each month for damage and to insure that the gauge is working correctly.

**ONCE EACH YEAR:** Have the fire equipment representative inspect the fire extinguisher.

**ONCE EVERY 6 YEARS:** Have the dry chemical removed and refilled by a fire equipment representative.

**ONCE EVERY 12 YEARS:** Have the fire equipment representative hydrostatically test your fire extinguisher.

This dry chemical fire extinguisher (Case part number 549974C91) has a 5 pound capacity and is approved for class A, B, and C type fires. The operating temperature is from  $-54^{\circ}$  to  $49^{\circ}\text{C}$  ( $-65^{\circ}$  to  $120^{\circ}\text{F}$ ).



A27369

TRIM THIS EDGE

SPECIFICATIONS

- A. Overall height of machine with attachment on the ground.
  - with 3.36 m (11 ft 1 in) arm..... 3.49 m (11 ft 5 in)
  - with 4.00 m (13 ft 1 in) arm..... 3.57 m (11 ft 8 in)
  - with 5.40 m (17 ft 8 in) arm..... 4.92 m (16 ft 2 in)
- B. Overall length of machine in TRANSPORT position.
  - with 3.36 m (11 ft 1 in) arm..... 11.95 m (39 ft 2 in)
  - with 4.00 m (13 ft 1 in) arm..... 11.96 m (39 ft 3 in)
  - with 5.40 m (17 ft 8 in) arm..... 11.84 m (38 ft 10 in)
- C. Length from swing pivot to end of arm in TRANSPORT position
  - with 3.36 m (11 ft 0 in) arm..... 8.40 m (27 ft 6 in)
  - with 4.00 m (13 ft 1 in) arm..... 8.42 m (27 ft 6 in)
  - with 5.40 m (17 ft 8 in) arm..... 8.21 m (26 ft 8 in)
- D. Tail swing radius .....3.60 m (11 ft 10 in)
- E. Length between centerlines of idler and drive sprocket ..... 4.26 m (14 ft)
- F. Track overall length..... 5.29 m (17 ft 4 in)
- G. Clearance height of upper structure ..... 1.39 m (4 ft 7 in)
- H. Overall width of upper structure ..... 3.10 m (10 ft 2 in)
- J. Overall width of upper structure, including catwalk ..... 3.71 m (12 ft 2 in)
- K. Width of each catwalk ..... 305 mm (12 in)
- L. Height to top of cab ..... 3.30 m (10 ft 10 in)
- M. Minimum ground clearance ..... 550 mm (1 ft 10 in)
- N. Track overall width - with 800 mm (31.5 in) shoes ..... 3.65 m (12 ft)
- P. Track gauge ..... 2.74 m (9 ft)
- Q. Standard track plate width ..... 910 mm (35.8 in)

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SPECIFICATIONS

### 3.4 m (11 ft 1 in) SHORT ARM F (FINE) MODE

Includes 1 402 kg (3 090 lb.) bucket and 8 664 kg (19 100 lb.) counterweight.  
Boom hoist cylinders with 1.9 m (6.3 in.) bore and 7.1 m (23 ft. 4 in.) boom.

OVER END								
Load (Lift) Point Height	Load Radius							Maximum
	3.0 m (10 ft)	4.6 m (15 ft)	6.1 m (20 ft)	7.6 m (25 ft)	9.1 m (30 ft)	10.7 m (35 ft)	12.2 m (40 ft)	
7.6 m (25 ft)								4 599* at 10.4 m (10 140* at 34.2 ft)
6.1 m (20 ft)				9 149 kg* (20 170 lb*)	8 419 kg* (18 560 lb*)			4 577* at 11.1 m (10 090* at 36.4 ft)
4.6 m (15 ft)			11 925 kg* (26 290 lb*)	10 038 kg* (22 130 lb*)	8 913 kg* (19 650 lb*)			4 667* at 11.5 m (10 290* at 37.7 ft)
3.0 m (10 ft)		19 305 kg* (42 560 lb*)	13 662 kg* (30 120 lb*)	11 050 kg* (24 360 lb*)	9 439 kg* (20 810 lb*)			4 878* at 11.6 m (10 750* at 38.1 ft)
1.5 m (5 ft)		21 473 kg* (47 340 lb*)	15 386 kg* (33 920 lb*)	11 925 kg* (26 290 lb*)	9 793 kg* (21 590 lb)			5 212* at 11.5 m (11 490* at 37.8 ft)
Ground Level	9 063 kg* (19 980 lb*)	20 561 kg* (45 330 lb*)	16 230 kg* (35 780 lb*)	12 487 kg* (27 530 lb*)	9 603 kg* (21 170 lb)			5 729* at 11.2 m (12 630* at 36.8 ft)
-1.5 m (-5 ft)	13 884 kg* (30 610 lb*)	21 899 kg* (48 280 lb*)	16 180 kg* (35 670 lb*)	12 560 kg* (27 690 lb)	9 503 kg* (20 950 lb)			6 514* at 10.6 m (14 360* at 34.8 ft)
-3.0 m (-10 ft)	19 210 kg* (42 350 lb*)	20 321 kg* (44 800 lb*)	15 363 kg* (33 870 lb*)	11 966 kg* (26 380 lb*)	9 303 kg* (20 510 lb*)			7 589* at 9.7 m (16 730* at 31.8 ft)
-4.6 m (-15 ft)	23 514 kg* (51 840 lb*)	17 559 kg* (38 710 lb*)	13 485 kg* (29 730 lb*)	10 292 kg* (22 690 lb*)				5 928* at 8.3 m (13 070* at 27.3 ft)
-6.1 m (-20 ft)	16 629 kg* (36 660 lb*)	12 959 kg* (28 570 lb*)	9 730 kg* (21 450 lb*)					
-7.6 m (-25 ft)								
OVER SIDE								
Load (Lift) Point Height	Load Radius							Maximum
	3.0 m (10 ft)	4.6 m (15 ft)	6.1 m (20 ft)	7.6 m (25 ft)	9.1 m (30 ft)	10.7 m (35 ft)	12.2 m (40 ft)	
7.6 m (25 ft)								4 599* at 10.4 m (10 140* at 34.2 ft)
6.1 m (20 ft)				9 149 kg* (20 170 lb*)	6 727 kg* (14 830 lb)			4 577* at 11.1 m (10 090* at 36.4 ft)
4.6 m (15 ft)			11 925 kg* (26 290 lb*)	8 922 kg* (19 670 lb)	6 568 kg* (14 480 lb)			4 418 at 11.5 m (9 740 at 37.7 ft)
3.0 m (10 ft)		18 543 kg* (40 880 lb)	11 979 kg* (26 410 lb)	8 505 kg* (18 750 lb)	6 346 kg* (13 990 lb)			4 223 at 11.6 m (9 310 at 38.1 ft)
1.5 m (5 ft)		17 309 kg* (38 160 lb)	11 317 kg* (24 950 lb)	8 124 kg* (17 910 lb)	6 123 kg* (13 500 lb)			4 200 at 11.5 m (9 260 at 37.8 ft)
Ground Level	9 063 kg* (19 980 lb*)	16 783 kg* (37 000 lb)	10 891 kg* (24 010 lb)	7 843 kg* (17 290 lb)	5 951 kg* (13 120 lb)			4 364 at 11.2 m (9 620 at 36.8 ft)
-1.5 m (-5 ft)	13 884 kg* (30 610 lb*)	16 846 kg* (37 140 lb)	10 714 kg* (23 620 lb)	7 688 kg* (16 950 lb)	5 860 kg* (12 920 lb)			4 758 at 10.6 m (10 490 at 34.8 ft)
-3.0 m (-10 ft)	19 210 kg* (42 350 lb*)	16 982 kg* (37 440 lb)	10 732 kg* (23 660 lb)	7 675 kg* (16 920 lb)	5 888 kg* (12 980 lb)			5 543 at 9.7 m (12 220 at 31.8 ft)
-4.6 m (-15 ft)	23 514 kg* (51 840 lb*)	17 141 kg* (37 790 lb)	10 904 kg* (24 040 lb)	7 815 kg* (17 230 lb)				5 928* at 8.3 m (13 070* at 27.3 ft)
-6.1 m (-20 ft)	16 629 kg* (36 660 lb*)	12 959 kg* (28 570 lb*)	9 730 kg* (21 450 lb*)					
-7.6 m (-25 ft)								

TRIM THIS EDGE

\* Capacities are limited by hydraulic capacities.

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