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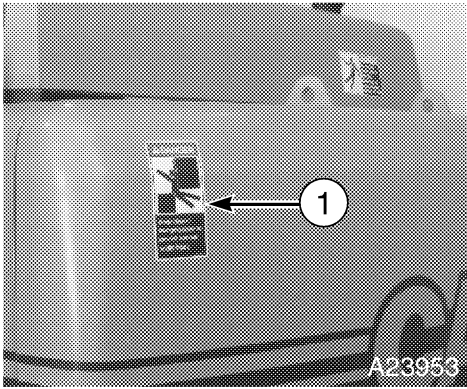
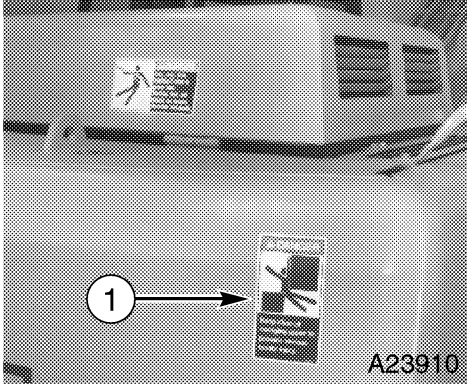
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SAFETY/DECALS/HAND SIGNALS

- You must make a judgement if weather, road, or earth conditions permit safe operation on a hill, ramp, or rough ground.
- Stay away from hazardous areas such as ditches, overhangs, etc. Walk around the work area before you start and look for hazards. Do not dig a trench too close to the machine.
- Be alert and always know the location of all workers in your area. Keep all other persons completely away from your machine and out of the job site area. Injury or death can result if you do not follow these instructions.
- Operate the machine controls from the operator's seat only.
- Digging through underground cables, pipes, lines, etc., can cause injury or death. Learn the location of all underground hazards before you operate your machine in any area.
- Operate the machine within the specified capacities and limits. Lifting capacities, digging depths, etc., are shown in the Specifications section of this manual.
- When loading trucks, DO NOT move the load over the top of the cab.
- When working in areas where traffic is heavy, always have a person direct the traffic and direct other persons for you. Have guard rails, warning signs, etc., as required for your job.
- Stop operating the machine if a malfunction occurs. Watch the indicator and warning lamps in the machine. Listen and smell for things that are not normal on your machine.
- Make sure that the travel route on the job site is safe. If there are any bridges, make sure the bridges will safely support the machine.
- Drive around large objects such as large rocks or trees.

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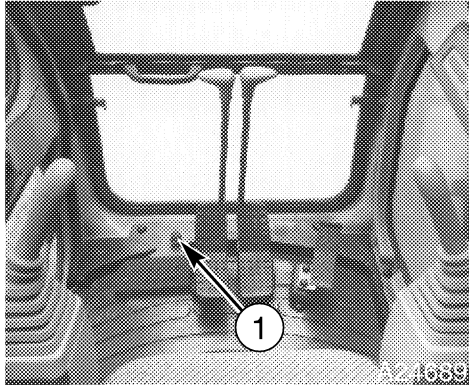
1. 151880A1 (One Each Side)



151880A1

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Selector Pedal for Travel Speed



1. Selector Pedal for Travel Speed

This machine has three travel speeds, HIGH, MEDIUM, and LOW. When you start the engine, MEDIUM is automatically selected. Push and release the pedal (1) for HIGH and push and release again for LOW.

The transmission automatically downshifts from HIGH to MEDIUM if you drive up a hill or the load increases. Then, the transmission automatically shifts back to HIGH when the driving surface levels out or when the load is removed.

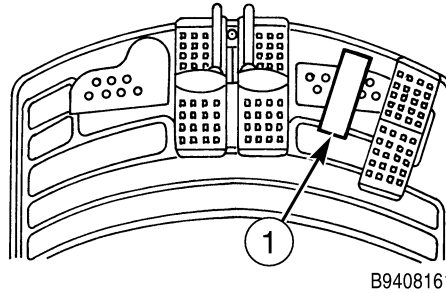
HIGH speed is used for level ground or small hills.

MEDIUM speed is used when the ground is rough or when driving up a hill.

LOW speed is used when low speed or maximum power is required.

IMPORTANT: *DO NOT change travel modes when the machine is moving. Always stop the machine before making the shift change.*

Auxiliary Attachment Control Pedal

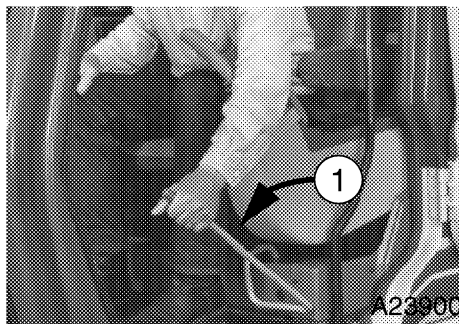


1. Control Pedal for Aux Attachment

If equipped, this control pedal (1) is used to actuate an auxiliary attachment such as a breaker, hammer, etc.

Make sure you read and understand the instruction manual for the auxiliary attachment before you operate the attachment. If you have any questions, see your Case dealer.

Gate Lock Control

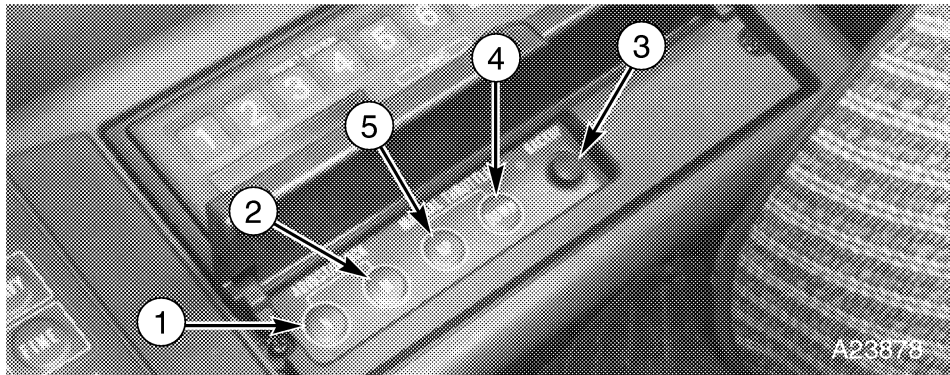


1. Push Down Before Operating

Push the Gate Lock control completely down before you operate the machine. Before you leave the machine, pull the Gate Lock control completely up. All controls are locked in NEUTRAL. The machine cannot operate with the lever up.

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Right Rear Control Panel



1. **CLOCK HOUR ADJUST BUTTON:** Push this button to increase the number of hours. Push and release the button to increase the hours by one. Push and hold this button to rapidly increase the hours.

2. **CLOCK MINUTE ADJUST BUTTON:** Push this button to increase the number of minutes. Push and release the button to increase the minutes by one. Push and hold the button to rapidly increase the minutes.

3. **REDUNDANT / BACKUP BUTTON (CONTROLLER BYPASS):** This feature has two positions, ON and OFF. During normal operation, the feature is OFF. During an emergency, use this feature to manually control Engine Speed, Swing Brake and the Control LOCK feature.

Example: The engine speed cannot be controlled with the hand throttle. Push the Backup button and control the engine speed manually.

Example: Swing brake does not release. Push the Backup button to release the swing brake.

Push and release the backup button and the indicator lamp illuminates and the Backup feature is ON. When this feature is actuated, the following functions are automatically set:

- (1) Control Lock does not function.
- (2) Work mode is fixed in the L mode.
- (3) Engine speed is controlled by the two buttons (4 and 5) shown above.
- (4) Travel mode is fixed in MEDIUM.
- (5) All monitor functions are stopped.
- (6) Swing brake is released and will not apply with engine running.

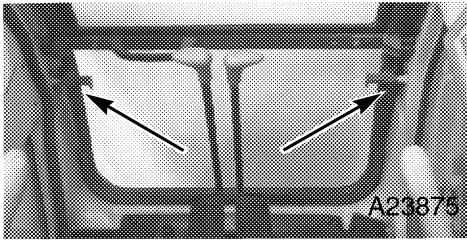
4. **MANUAL THROTTLE DOWN BUTTON:** Push and hold this button to reduce the engine speed. Release the button when the desired speed is reached.

5. **MANUAL THROTTLE UP BUTTON:** Push and hold this button to increase the engine speed. Release the button when the desired speed is reached.

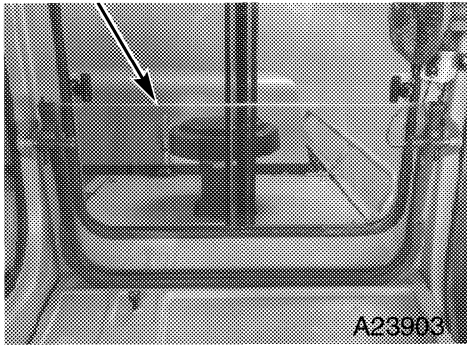
IMPORTANT: *This Backup system is provided only so you can move the machine to a repair area or finish that day's work. If you must start the engine with the Backup system ON, turn the key switch ON, push the Manual Throttle Up button several times, then start the engine.*

TRIM THIS EDGE

Lower Front Window

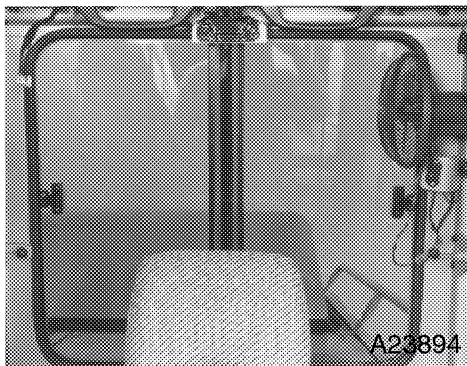


Release the two window locks and remove the window. Put the window in the STORAGE position behind the seat.



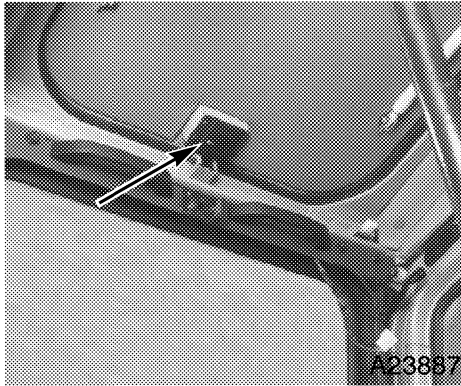
Window in Storage

Rear Window



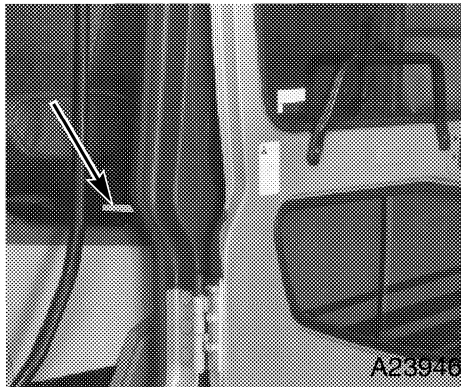
Both rear windows slide toward the center. Release the latch and slide the window. The rear window or the hinged roof panel can be used as a secondary exit.

Hinged Roof Panel



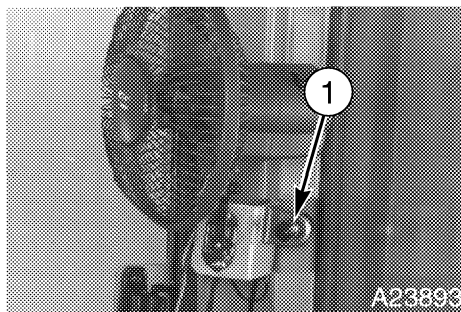
Release the roof panel latch and push to open.

Door



Door Release Lever

Cab Air Circulation Fan

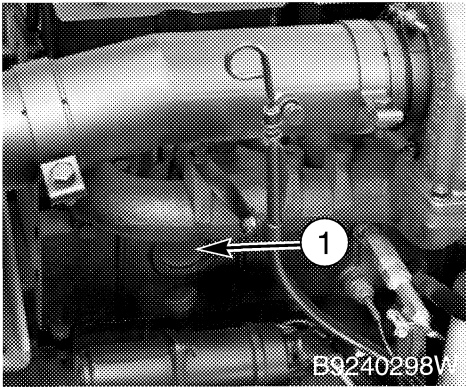


1. Fan Switch

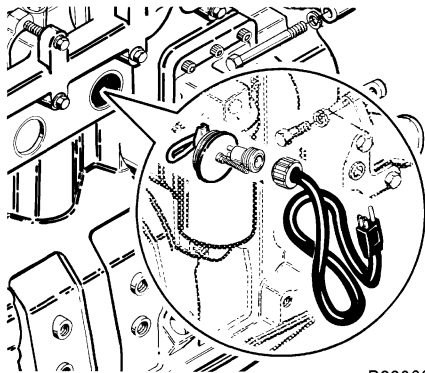
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Engine Coolant Heater (If Equipped)

The engine coolant heater is installed on the side of the engine. See your Case dealer for this option. Follow the heater manufacturer's instructions for installing.



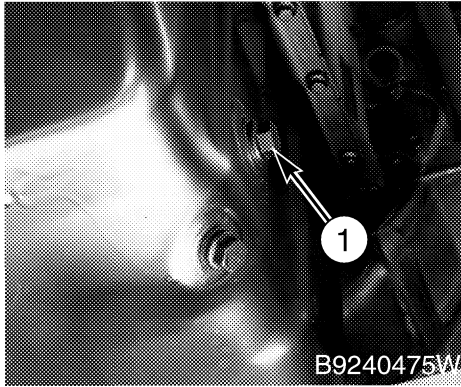
1. Coolant Heater Location -
Remove the Plug



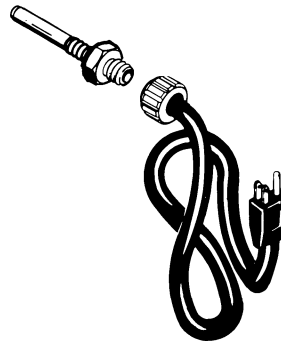
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Engine Oil Heater (If Equipped)

The engine oil heater is installed on the left side of the engine oil pan. See your Case dealer for this option. Follow the heater manufacturer's instructions for installing.



1. Engine Oil Heater Location



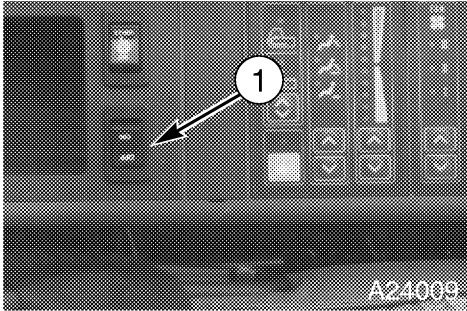
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AUXILIARY ATTACHMENT OPERATION

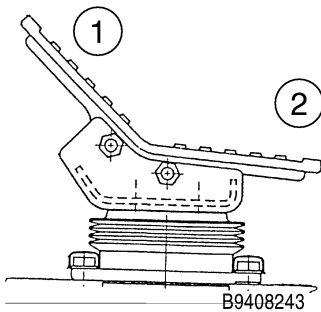
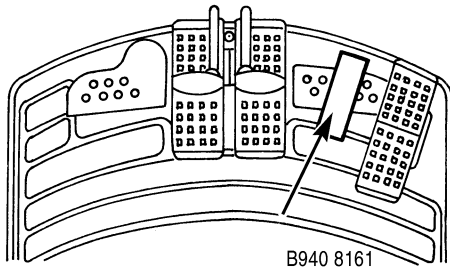
Setup, Controls, and Operating Instructions

Control Switch



1. Control Switch - ON and OFF

Attachment Foot Pedal

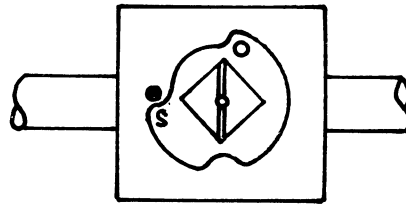


1. Push Down (1) to Actuate Breaker
2. Push Down 1 and 2 to Actuate Double Acting Attachments

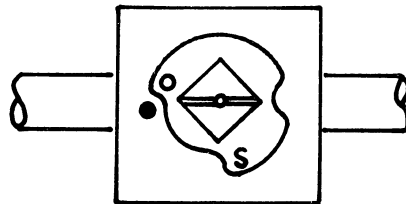
Hydraulic Line ShutOff Valves

After you have connected the auxiliary attachment to the machine, make sure that the two shutoff valves at the base of the arm are in the **O** (OPEN) position. There is an **O** (OPEN) and **S** (SHUT-OFF) stamped on the top plate of each valve. Use a wrench and turn the valve to the **O** (OPEN) position. Refer to the following illustration and open the valve.

(S) SHUTOFF



(O) OPEN



To lock each valve in the OPEN position, refer to the following illustration.

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Lifting Loads with the Machine



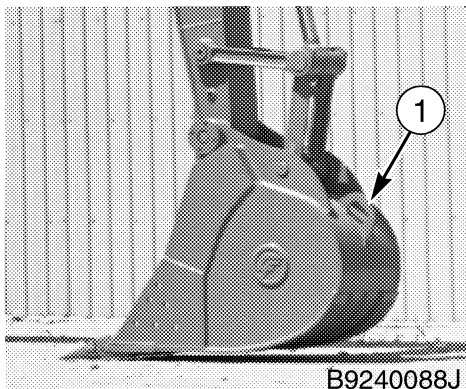
WARNING: *This machine is not a crane. For this reason, be very careful if you lift a load. You or others in the area can be injured or killed if you do not follow the instructions below.*

SA141

This machine is not a crane. For this reason, always be very careful when you lift a load.

F Mode: Lifting capacities are increased in the **F** (Fine Mode). It is recommended that you use this mode when you lift loads. See the lifting capacity charts in the specifications section of this manual. Do not use the Power Boost button to lift a load.

H, S, or L Modes: If you lift loads in the **H** (Heavy Mode), **S** (Standard Mode), or **L** (Light Mode), use the lifting capacity charts in the specifications section of this manual and the lifting capacity charts in the cab.



1. Lifting Point - Attach Rigging Here

● If this excavator is to be used to lift loads, for safety purposes it is recommended that the machine is properly equipped. Contact your Case dealer and install a "Load Holding Control Device" on your machine's boom cylinders. This system prevents

the sudden lowering of the load in the event of a failure of a hydraulic hose, line, or fitting in the boom hydraulic system. Such a failure can cause personal injury or death.

- Know and understand each signal from the signal person before you start. See pages 25 and 26.
- Always know the location of all persons in your work area before you start.
- Be sure there is no damage to the wire rope that is used to lift loads.
- Be sure the wire rope and rigging parts are strong enough for the load being lifted.
- Do not exceed either the radius or the height restrictions shown on the lift capacity charts posted in the cab or in this manual.
- Always move the load slowly. Do not move the load over the top of persons. Keep all persons away from the load.
- When the load is raised, keep all persons away until the load is placed on blocks or on the ground.
- It is dangerous if the load being lifted begins to swing.
- Be very careful to balance the load correctly.

TRIM THIS EDGE

LUBRICATION / MAINTENANCE CHARTS

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

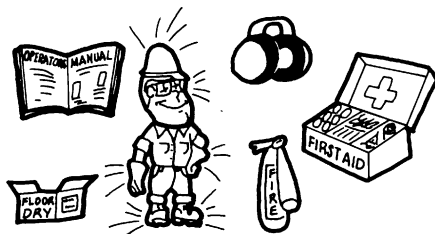
Read the safety decals and information decals on the machine. Read the operator's manual and safety manual. Understand the operation of the machine before you start servicing.

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

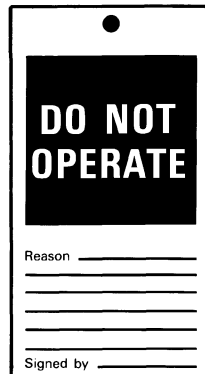


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Before you service the machine, put a Do Not Operate tag on the instrument panel. One Do Not Operate tag, is included with your new machine. Additional tags, part number 321-4614, are available from your Case dealer.



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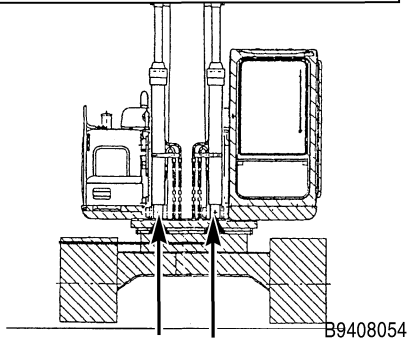
TRIM THIS EDGE

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.

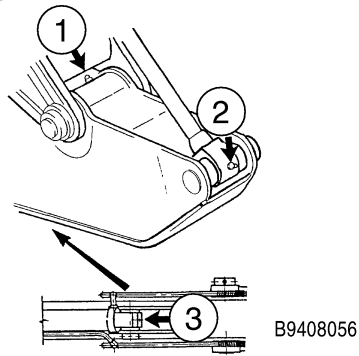
Check with your local environmental or recycling center or your Case dealer for correct disposal information.

EVERY 50 HOURS OF OPERATION



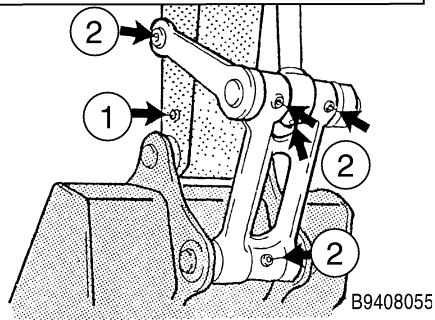
Boom Cylinders - Closed End2 fittings

EVERY 50 HOURS OF OPERATION



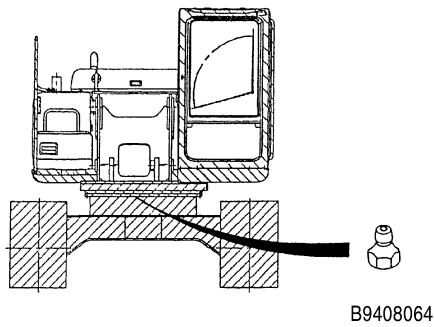
- 1. Arm Pivot..... 1 fitting
- 2. Arm Cylinder - Rod End..... 1 fitting
- 3. Bucket Cylinder - Closed End ..1 fitting

EVERY 50 HOURS OF OPERATION



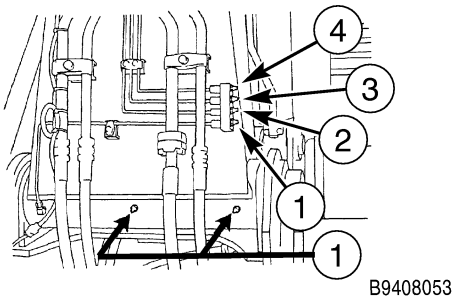
- 1. Bucket Pivot 1 fitting
- 2. Bucket Linkage Pivots5 fittings

EVERY 250 HOURS OF OPERATION



- Turntable Bearing 3 fittings

EVERY 50 HOURS OF OPERATION



- 1. Boom Pivot..... 3 fittings
- 2. Left Boom Cyl - Rod End..... 1 fitting
- 3. Arm Cyl - Closed End 1 fitting
- 4. Right Boom Cyl - Rod End 1 fitting

TRIM THIS EDGE

Cleaning the Cooling System and Bleeding Air



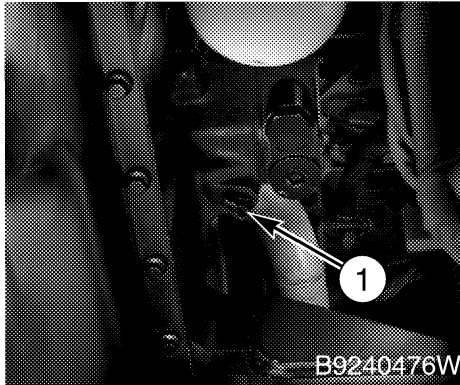
WARNING: Hot coolant can spray out if radiator cap is removed. To remove radiator cap: Let system cool, turn to first notch, then wait until all pressure is released. Scalding can result from fast removal of radiator cap. Check and service engine cooling system according to maintenance instructions.

SA023

Drain, flush, and replace the engine coolant every 2000 hours of operation or each year, whichever occurs first. Clean the system and replace the coolant if the coolant becomes dirty or has the color of rust. Check each hose and replace as required.

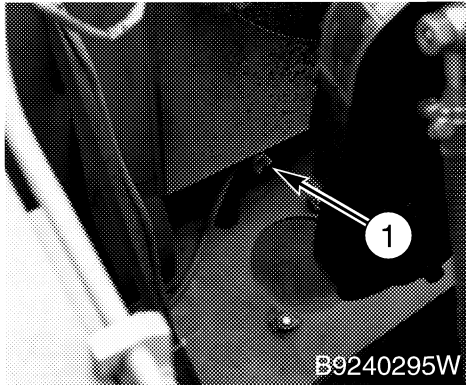
DO NOT remove the radiator cap if the coolant is hot. Allow the system to cool, then:

1. Use a container that has a capacity of 7 U.S. gallons (26.5 litres).
2. Open the radiator drain valve and remove the radiator cap. Open the engine block drain valve.
3. After all coolant is removed, close the drain valves.



1. Radiator Drain Valve

4. Add cleaning solution to the cooling system and fill the cooling system with clean water. Follow the directions included with the cleaning solution.
5. After you drain the cleaning solution, flush with clean water and drain the water.
6. Put a mixture of 55% ethylene glycol and 45% water in the radiator. Completely fill the radiator and coolant reservoir slowly to the neck with coolant.
7. Install the radiator cap and coolant reservoir cap. Make sure both caps are tight.
7. Close the heater shutoff valve.



1. Radiator Drain Valve

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1. Turn the new filter clockwise to install.
Do not over tighten.

Return Filter

Replace the return filter every 1000 hours of operation.

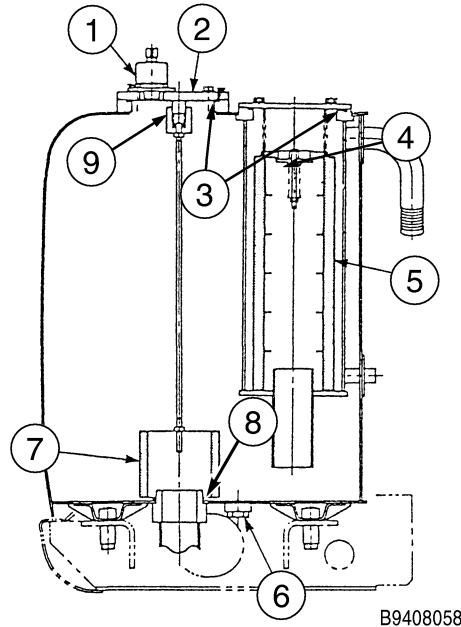
1. Clean the top of the hydraulic reservoir and clean the return filter cover.
2. Remove the cover.
3. Remove the spring, relief valve and old return filter element. Discard the old element.
4. Install a new return filter element with relief valve and spring.

Suction Filter

Clean the suction filter every 1000 hours of operation. Replace the suction filter every 5000 hours of operation.

1. Remove the reservoir fill cover and spring on the top of the suction filter rod assembly.
2. Remove the suction filter and clean with solvent.
3. Install a new O-ring and install the suction filter, spring and rod assembly.
4. Install the cover.

NOTE: *Install a new suction filter every 5000 hours of operation. Discard the old filter.*



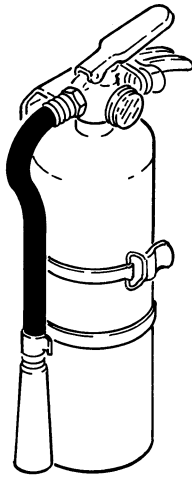
1. *Breather*
2. *Cover Plate*
3. *O-ring*
4. *Relief Valve*
5. *Return Filter*
6. *Drain Plug*
7. *Suction Filter*
8. *O-ring*
9. *Spring*

TRIM THIS EDGE

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.

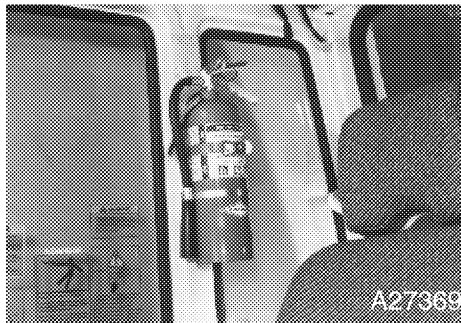


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EVERY 6 MONTHS: Have the dry chemical removed and refilled by a fire equipment representative.

ONCE EACH YEAR: Have the fire equipment representative inspect the 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 -65° to 120°F (-54° to 49°C).



A27369

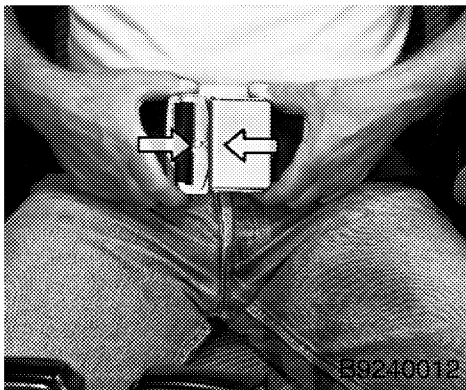
Inspection and Care

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.

TRIM THIS EDGE

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SEAT BELT



B9240012

1. Check the seat belts for damage. Replace all parts that are damaged.
2. Make sure the mounting bolts for the seat belts are tight.
3. Keep the seat belts clean. Wash the seat belts only in soap and water.
4. Do not put the seat belts in bleach or dye. This procedure can weaken the seat belt material.

SPECIFICATIONS _____

- A. Overall height - with attachment
 - With 10 ft 2in (3.1 m) arm 10 ft 0 in (3.05 m)
 - With 11 ft 7in (3.5 m) arm..... 10 ft 7 in (3.22 m)
- B. Overall length - with attachment
 - With 10 ft 2in (3.1 m) arm32 ft 8 in (9.96 m)
 - With 11 ft 7in (3.5 m) arm.....32 ft 10 in (10.01 m)
 - Overall length - without attachment 17 ft 5 in (5.31 m)
- C. Length from swing pivot to end of arm - arm in TRANSPORT position
 - With 10 ft 2in (3.1 m) arm22 ft 1 in (6.97 m)
 - With 11 ft 7in (3.5 m) arm.....23 ft (7.02 m)
- D. Length from swing pivot to rear of counterweight.....9 ft 2 in (2.99 m)
- Swing radius to rear.....9 ft 10 in (3.0 m)
- E. Length between centerlines of idler and drive sprocket..... 12 ft 7 in (3.84 m)
- F. Track overall length 15 ft 2 in (4.64 m)
- G. Overall width of upper structure 8 ft 2 in (2.5 m)
- H. Height to top of cab.....9 ft 9 in (2.99 m)
- J. Minimum ground clearance..... 1 ft 6 in (4.6 m)
- K. Track gauge8 ft 6 in (2.59 m)
- L. Overall undercarriage width - with 32 in (800 mm) shoes..... 10 ft 6 in (3.19 m)
- M. Track plate width.....32 in (800 mm)

TRIM THIS EDGE

SPECIFICATIONS _____

LIFTING CAPACITIES

Standard Machines in S (Standard), H (Heavy), or L (Light) Modes

11 ft 7 in (3.5 m) Arm

Pounds

Load (Lift) Point Height	OVER END					Unit-lb
	Load Radius					Maximum
	10 ft	15 ft	20 ft	25 ft	30 ft	
20 ft				8 700*		5 300* at 31 ft 8 in
15 ft				9 200*	7 750*	5 300* at 33 ft 6 in
10 ft		14 500*	11 650*	10 100*	9 000*	5 400* at 34 ft 4 in
5 ft	29 200*	18 750*	13 650*	11 150*	9 200	5 700* at 34 ft 4 in
Ground Level	22 800*	22 050*	15 350*	11 950*	9 000	6 250* at 33 ft 5 in
-5 ft	26 600*	22 900*	16 350*	11 800	8 850	7100* at 31 ft 7 in
-10 ft	33 400*	22 400*	16 250*	11 700		8 600* at 28 ft 8 in
-15 ft	30 100*	20 400*	14 850*	10 600*		8 600* at 24 ft 0 in
-20 ft	22 650*	15 650*	10 250*			

Load (Lift) Point Height	OVER SIDE					Unit-lb
	Load Radius					Maximum
	10 ft	15 ft	20 ft	25 ft	30 ft	
20 ft				8 700*		5 300* at 31 ft 8 in
15 ft				8 750*	6 200	5050 at 33 ft 6 in
10 ft		14 500*	11 650*	8 500	6 050	4 650 at 34 ft 4 in
5 ft	29 200*	18 150	11 600	8 050	5 850	4 550 at 34 ft 4 in
Ground Level	22 800*	16 850	10 850	7 650	5 600	4 700 at 33 ft 5 in
-5 ft	26 600	16 200	10 400	7 350	5 500	5 150 at 31 ft 7 in
-10 ft	31 950	16 150	10 250	7 300		6 100 at 28 ft 8 in
-15 ft	30 100*	16 500	10 450	7 500		8 300 at 24 ft 0 in
-20 ft	22 650*	15 650*	10 250*			

TRIM THIS EDGE

NOTE: Capacities that are marked with an asterisk (*) are limited by hydraulic capacities.

SPECIFICATIONS _____

STANDARD BOLT TORQUES

GRADE	8.8				10.9 & 12.9			
	NEWTON METERS		POUND-FEET		NEWTON METERS		POUND-FEET	
SIZE	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
M6	8	9	6	7	11	13	8	10
M8	20	23	14	17	28	32	20	24
M10	39	46	29	34	55	64	41	47
M12	68	80	50	59	96	112	71	83
M16	173	202	128	149	242	282	178	208
M20	337	393	249	291	475	554	350	408
M22	464	541	342	399	652	761	481	561
M24	584	681	431	503	821	958	606	707
M27	864	1008	637	743	1220	1423	900	1050
M30	1170	1365	863	1007	1650	1925	1217	1420
M33	1600	1867	1180	1377	2260	2637	1667	1945
M36	2050	2392	1512	1764	2880	3360	2124	2478
M39	2680	3127	1977	2307	3760	4387	2773	3235
M42	3300	3850	2434	2840	4640	5413	3422	3992
M45	4140	4830	3054	3563	5820	6790	4293	5009
M48	4960	5787	3658	4268	6970	8132	5141	5998
M52	6450	7525	4757	5549	9070	10582	6690	7805
M56	8010	9345	5908	6893	11300	13183	8334	9723
M64	12100	14117	8925	10413	17100	19950	12612	14714

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