9050B

9050B Excavator

Operators Manual

Bur 9-25850

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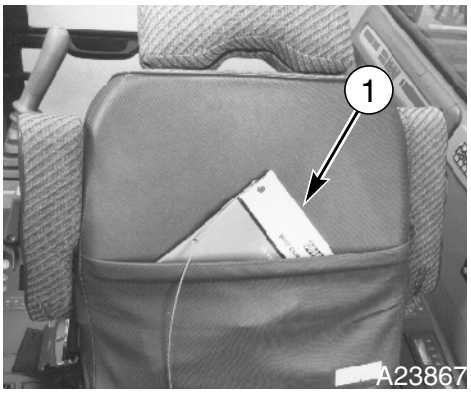
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SAFETY / DECALS / HAND SIGNALS

SAFETY RULES

Most accidents involving machine operation and maintenance can be avoided by following basic rules and precautions. Read and understand all the safety messages in this manual, the EMI Safety Manual, and the safety decals on the machine before you operate or service the machine. See your Authorized Case dealer or the Case Corporation if you have any questions.



1. Operator's Manual and EMI Safety Manual Storage

Safety messages in this section point out situations which can be encountered during the normal operation and maintenance of your machine. These safety messages also give possible ways of dealing with these conditions.

Additional safety messages appear in the manual to indicate specific safety hazards.

READ THIS MANUAL COMPLETELY and make sure you understand the characteristics of speed, stability, steering, and operation of this machine.

Do not remove this manual or the safety manual from this machine. See your Case dealer for additional manuals. Also see the inside of the rear cover of this manual for detailed information for ordering manuals.

The safety information given in this manual does not replace safety codes, insurance regulations, or federal, state/provincial, or local laws. Make sure your machine has the correct equipment according to these rules or laws.

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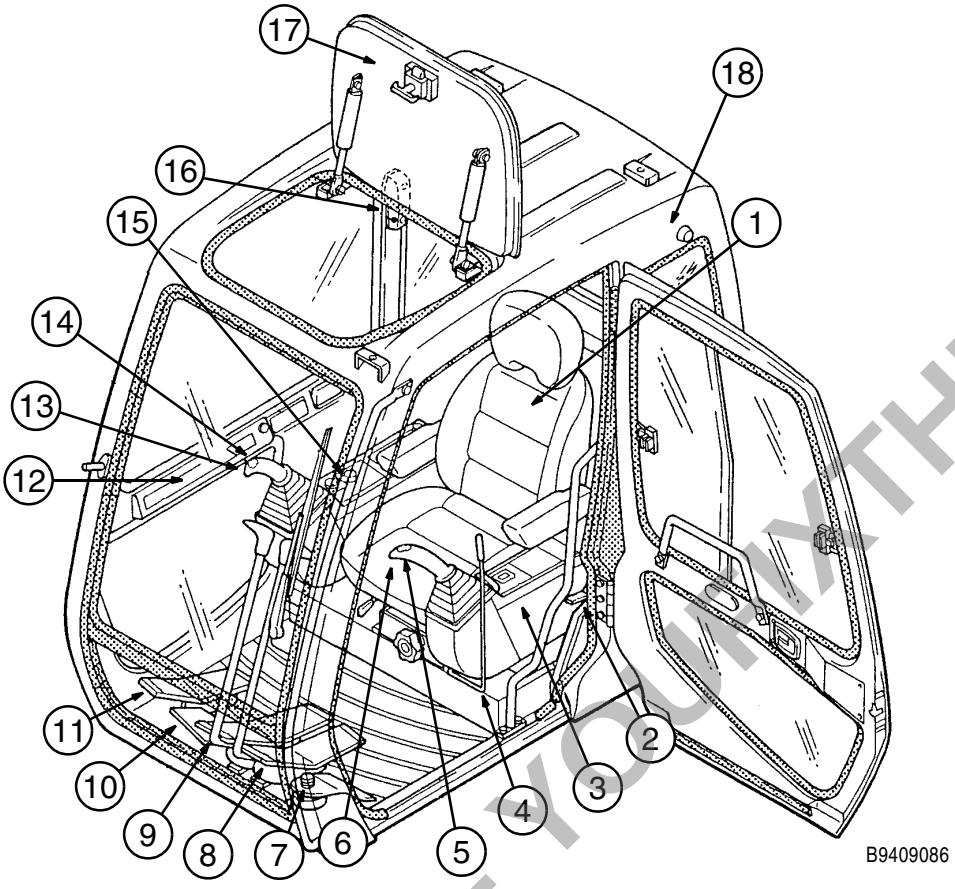
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INSTRUMENTS AND CONTROLS
LOCATION OF COMPONENTS
Operator's Cab (Details Begin on Page 30)



1. *Operator's Seat*
2. *Door Release Control*
3. *Left Console*
4. *Gate Lock Control*
5. *Horn Button*
6. *Arm and Swing Control*
7. *Selector Pedal for Travel Speed*
8. *Left Travel Control*
9. *Right Travel Control*
10. *Auxiliary Equipment Control*
11. *Combined Travel Pedal*
12. *System Display Panel*
13. *Boom and Bucket Control*
14. *Engine Idle Button*
15. *Right Console*
16. *Cab Lamp*
17. *Hinged Roof Panel*
18. *Cab Fan*

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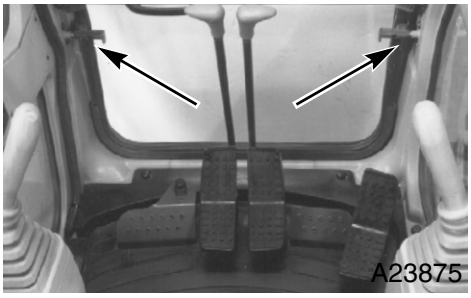
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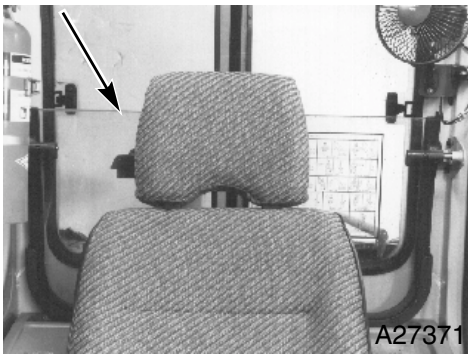
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Lower Front Window

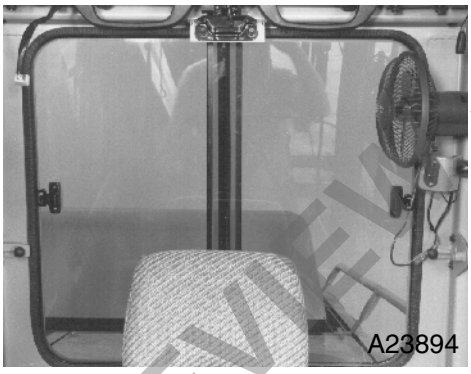


Release the two window locks and remove the window. Put the window in the STORAGE position behind the seat.



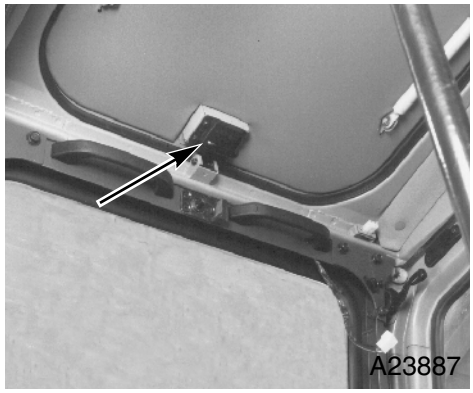
Window in Storage

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



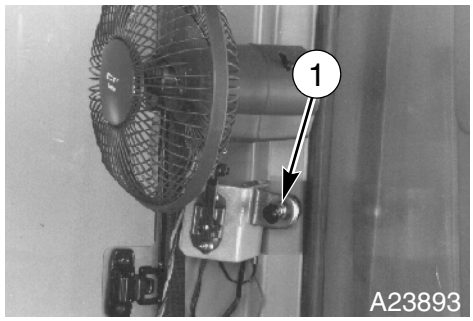
Release the roof panel latch and push to open.

Door



Door Release Lever

Cab Air Circulation Fan



1. Fan Switch

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Operating in Water

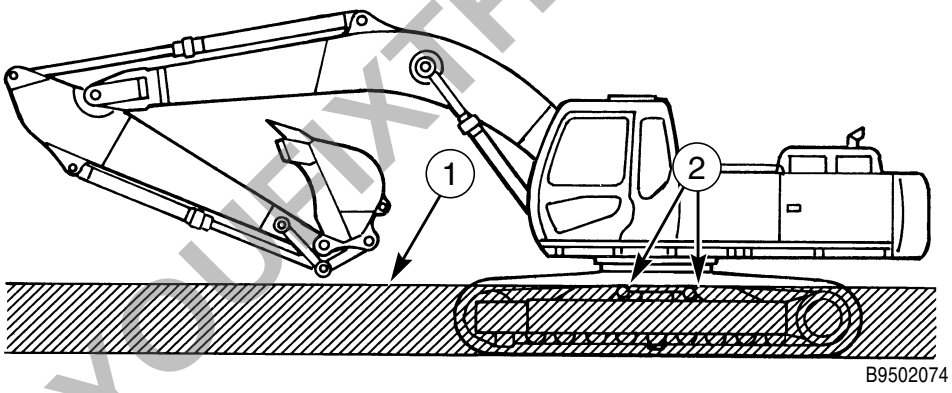
You can operate the machine in water only if you follow these instructions:

1. The water level must not be deeper than the top of the track carrier rollers.
2. Make sure that the bottom of the stream or pond where you work will support the machine.
3. Do not operate your machine in a fast current.
4. If the water level increases to the level of the swing bearings, refer to the lubrication section of this manual and:

   A. Add new grease to the swing bearings.

   B. Replace the grease in the swing ring gear. Remove the two belly plates below the swing ring gear and clean the compartment.

   C. Change the oil in each final drive gear box. If water is found, replace the seals.



1. Water Level 2. Track Carrier Rollers

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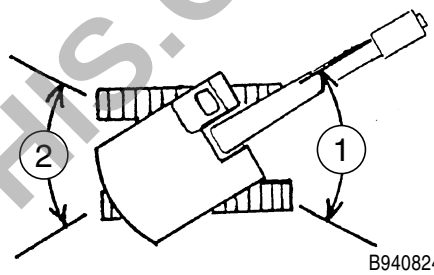
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Hydraulic Crusher Operation

Hydraulic crusher attachments are designed to break stone and concrete and to wreck buildings. Read the instructions for controls, operation and service in this manual and the attachment manufacturer's manual before you start.

> **WARNING:** *During demolition, a building, wall, structure, etc., higher than the cab of the machine can fall on your machine and cause injury or death. Do not operate the hammer, breaker, or other attachment at operator level or above.* SA154

1. Do not actuate the crusher when any of the cylinders are at the end of the stroke. Damage can occur to the cylinders
2. Do not try to lift loads using the crusher. See "Lifting Loads with the Machine" in this manual.
3. When transporting the machine on a trailer, remove the crusher attachment. This will prevent damage to the machine.
4. If you change attachments often, sample the hydraulic oil frequently and check for contamination.
5. Do not swing to the side of the machine and use the crusher. Use the crusher in front of the track or at the rear.



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1. Front Operating Area
2. Rear Operating Area

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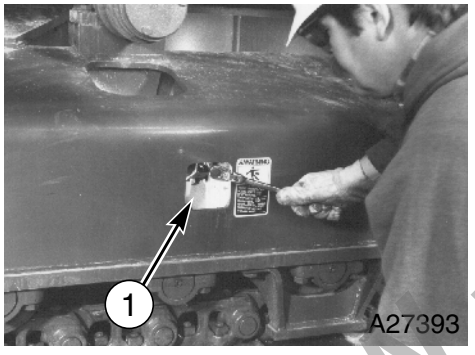
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To Loosen the Track Chain

WARNING: *High pressure grease. Grease injected into your skin can cause severe injury or death. Wear heavy gloves and face protection when working in this area. If grease is injected into your skin, see a doctor immediately and have the grease removed.* SA132

WARNING: *The check valve can come out of the adjustment cylinder with extreme force and you can be injured. To loosen the track chain, loosen the check valve slowly a small amount to allow grease to flow from the adjustment cylinder.* SA133

1. Use a deep socket and slowly loosen the check valve until grease flows from the adjustment cylinder. Grease will flow from a groove in the check valve. DO NOT REMOVE the check valve. The grease in the adjustment cylinder is highly pressurized. Do not remove the check valve mounting bracket.
2. When the track tension is correct, tighten the check valve.
3. Clean the grease from the check valve.
4. Start the engine and lower the track to the ground. Check the track tension on the other side using the same procedure.



1. Deep Socket on the Check Valve

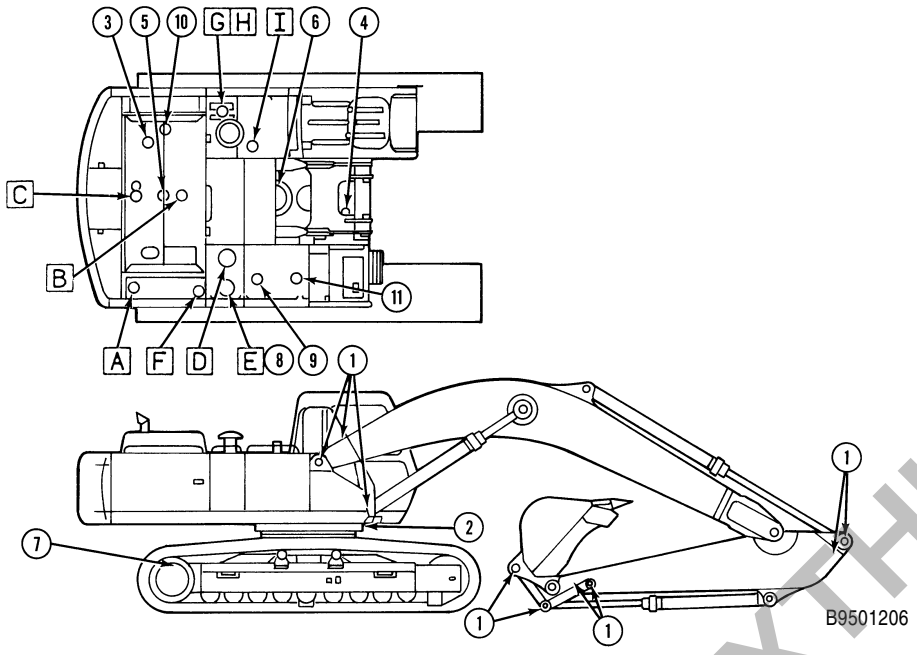
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NOTE: *For the correct daily or periodic maintenance in the Lubrication/Filters/Fluids section, see the first page of each system.*

IMPORTANT: *A new pilot filter, return filter, and drain filter are provided with each new machine. These filters must be replaced after the first 50 hours of operation. See page 112.*

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9050B LUBRICATION CHART

REF. NO.	DESCRIPTION	NO. POINTS	SPECIFICATION	INTERVAL (hr)					
				50	250	500	1000	3000	5000
1	FRONT ATTACHMENT PIN	17	EP. GREASE NO. 2				○		
2	TURNTABLE BEARING	3			○				
3	IDLE PULLEY	2				○			
4	SWING RING GEAR	17 kg, 37.5 lbs				○			
5	ENGINE OIL PAN -SEE NOTE UNDER CHART	29 L, 7.7 gal	ENGINE OIL	△		◎			
6	SWING GEAR REDUCER	14.5 L, 3.8 gal	GEAR OIL		△		◎		
7	TRAVEL GEAR REDUCER	6.8 L x 1.8 gal x 2	GEAR OIL		△		◎		
8	HYDRAULIC SYSTEM	320 L, 84.5 gallons	HYDRAULIC OIL						◎
9	HYDRAULIC SUMP TANK	152 L, 40 gallons	HYDRAULIC OIL						◎
10	ENGINE RADIATOR	38 L, 10 gallons	45% WATER + 55% ANTIFREEZE	EVERY 2 YEARS					
11	FUEL TANK	580 L, 153.2 gallons	DIESEL FUEL	WHEN REQUIRED					
A	PILOT LINE FILTER	1	ELEMENT (153233A1)	△			◎		
B	FUEL FILTER	1	ELEMENT (151193A1)			◎			
C	ENGINE OIL FILTER	1	ELEMENT (151197A1)	△		◎			
D	RETURN FILTER	1	ELEMENT (153344A1)	△			◎		
E	SUCTION FILTER	1	ELEMENT (152721A1)				□		◎
F	DRAIN FILTER	1	ELEMENT (150794A1)	△			◎		
G	AIR CLEANER (OUTER)	1	ELEMENT (150783A1)		□		◎		
H	AIR CLEANER (INNER)	1	ELEMENT (151397A1)		□		◎		
I	ULTRA CLEAN FILTER	1	ELEMENT (159282A1)				◎		

○ : LUBRICATE GREASE
△ : CHANGE INITIALLY
◎ : CHANGE OIL OR REPLACE ELEMENT
□ : CLEAN

RECOMMENDED GREASE AND OIL SPEC. ARE AS FOLLOWS.

EP. GREASE : LITHIUM GREASE NO. 2
ENGINE OIL : SEE OPERATORS MANUAL
GEAR OIL : API GL-4 SAE 90
HYDRAULIC OIL : SEE OPERATORS MANUAL

NOTES: 1. LUBRICATE FRONT ATTACHMENT PINS DAILY DURING SEVERE OPERATION IN WATER.
2. SEE OPERATORS MANUAL FOR DETAILED PROCEDURES AND SPECIFICATIONS.
3. INTERVAL - HOURS ON THIS CHART ARE BASED ON SAE J752b AS FOLLOWS.

50 (OR WEEKLY) * 1000 (OR 6 MONTHS) *
250 (OR MONTHLY) * 5000 (OR 2.5 YEARS) *
500 (OR 3 MONTHS) *

* WHICHEVER OCCURS FIRST

NOTE: Engine oil capacity with filter change is 31 U.S. quarts (29.3 litres).

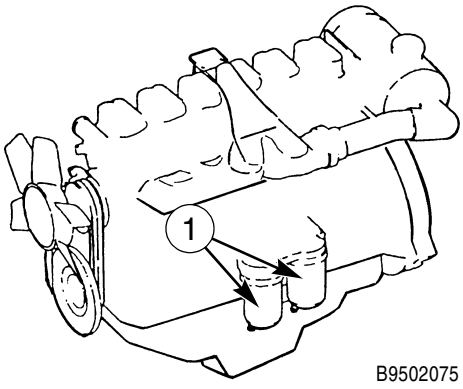
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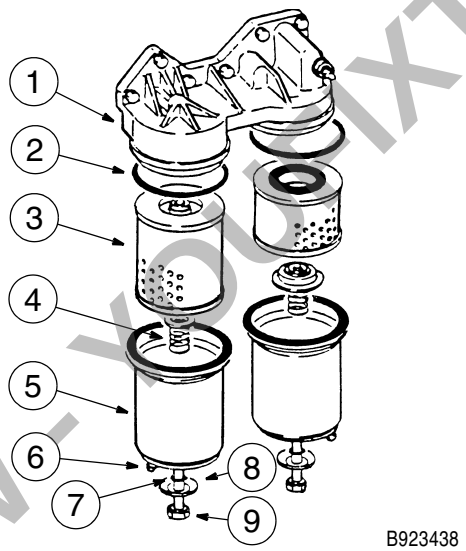
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1. Engine Oil Filters

3. Open the top engine access door.
4. Loosen and remove the center bolt from each filter. Remove each filter.



1. Filter Head
2. O-ring
3. Element
4. Spring
5. Body
6. Drain Plug
7. O-ring
8. Washer
9. Center Bolt

5. Remove and discard both filter elements and all O-rings.
6. Use face protection and clean the parts with solvent. Then, blow dry.
7. Put new engine oil on the new O-rings and install the new filter elements.
8. Tighten each center bolt 45 to 50 pound-feet (60 to 70 Nm).
9. Put new oil into the engine.
10. Fill the turbocharger oil lines with oil.
    A. Turn the key switch to ON but do not start the engine.
    B. Push and release the Emergency Stop button. EMERGENCY STOP is shown on the Message Panel.
    C. Turn the key switch to START and actuate the starter for about 10 to 15 seconds.
    D. Push and release the Emergency Stop button again. EMERGENCY STOP is removed from the Message Panel.
11. Rotate the engine throttle knob to Idle speed.
12. Start the engine and run at idle speed. Check the engine oil filter for leaks. After two minutes, stop the engine, wait 2 or 3 minutes, and check the engine oil level with the dipstick.
13. Close the engine access door.

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SPECIFICATIONS

ENGINE DATA

Make and model ..... Mitsubishi 6D22T
Firing order 1-5-3-6-2-4
Air induction ..... Turbocharged
Bore and stroke ..... 5.12 x 5.51 inches (130 x 140 mm)
Displacement ..... 680 cu in (11.15 litres)
Horsepower - rated, SAE net ..... 227 at 1650 rpm (169 kW at 1650 r/min)

Engine speeds
- Full throttle - full load ..... 1 650 rpm
- Idle speed ..... 890 rpm

Electrical system
- System voltage ..... 24 volts
- Batteries ..... (2) 12 volt, 170 ampere
- Alternator ..... 40 ampere

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