

SUMITOMO

SH145X-6

HYDRAULIC EXCAVATOR OPERATOR'S MANUAL



Please keep this manual inside the machine using a manual holder cable to refer to whenever needed. (See the back cover for how to attach the manual to the manual holder cable.)

Serial No.
145X6-1101-

WDL1356-1T	001
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1-General Information

Model, Serial Number, and Year of Manufacture of This Machine

When ordering parts or requesting information or support for this machine or an accessory, contact your dealer and the certified service plant.

At this time, always tell the dealer the model and serial number of the machine or accessory.

Write the following information in the corresponding box on the decal.

- Machine or accessory type
- Machine or accessory serial number
- Year of manufacture
- Hydraulic part numbers

Machine

1. Product identification number (PIN):
2. Model number:
3. Serial number:



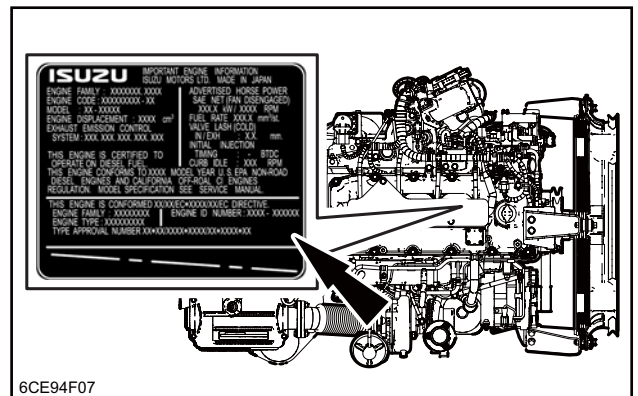
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Engine

Make and type: **ISUZU AM - 4JJ1X**

Serial number:

It is attached to the cylinder head cover.



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Component serial numbers

- Hydraulic pump:
- Swing reduction gear:
- Travel reduction gears:
- Travel control valve:
- Attachment control valve:
- Swing control valve:

2-Safety Information

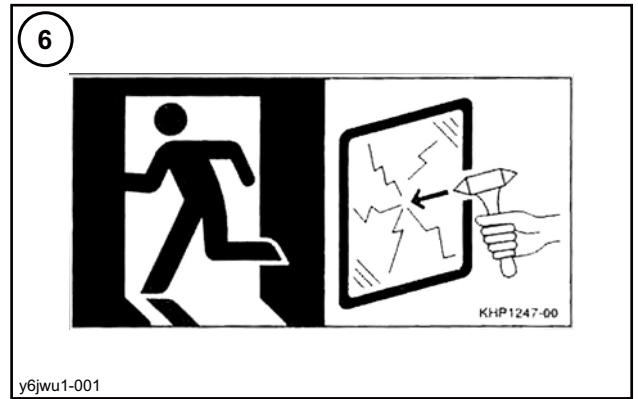
10. If fluid or grease gets on your skin and soaks deep in, this can cause serious injury.
Always take necessary safety measures, such as wearing protective clothes and protective gear for the face and hands, to avoid risk.
Before using fluid or grease, read over the usage method in the operator's manuals for these products.
If fluid or grease soaks deep into your skin, consult a doctor immediately.
 11. Coolant solution is toxic.
Keep it away from your skin, eyes, and clothes.
First aid:
If it gets on your skin or clothes: Rinse it away with plenty of water. Take off any clothes with coolant solution on them.
Ingested: Do not force vomiting.
Rinse out your mouth with plenty of water.
Seek immediate medical attention.
If it gets in your eyes: Immediately wash it out with plenty of water, then seek immediate medical attention.
 12. A grease cylinder has high pressure inside.
Adjust the shoe tension carefully according to this manual.
 13. Always receive permission from the manufacturer before welding the undercarriage or upper swing body and always follow the manufacturer's instructions.
When working, disconnect the battery and alternator B+ and D+ terminals, then connect the ground cable for the welding equipment to the component being welded.
When welding the upper swing body, never connect the welding equipment to the undercarriage.
Or vice versa.
Never connect the welding equipment earth to a component of the hydraulic system.
 14. When using compressed air, wear protective gear for the face.
 15. Clean this machine periodically.
If grease, dirt, or dust build up, they can cause damage to the machine and injuries to people.
 16. Inspect this machine periodically.
Periodically inspect the fastening state of the main components of the counterweight, turntable bearing, and cab.
If there is any problem, consult your dealer and the certified service plant.
 17. If the accumulator is not functioning normally, consult your dealer and the certified service plant.
Never perform service on the accumulator.
There is a danger of a serious accident.
 18. The accumulator has nitrogen gas at high pressure sealed inside.
Do not do welding work or use an open flame around the accumulator.
 19. While the engine is running and immediately after it stops, high-pressure fuel remains in the fuel supply pipe.
Stop the engine, then wait at least 2 minutes for the pressure in the fuel supply pipe to drop before starting service.
 20. While the engine is running and immediately after it stops, high voltage remains in the controller and injectors.
Do not touch the controller or injector.
If it is necessary to touch the controller or injector in order to service, consult your dealer and the certified service plant.
- ### Preventing Fire and Explosion
1. The engine fuel can become a cause of explosion or fire.
 - Never refuel with the engine running.
 - Never smoke while refueling.
 - When welding, polishing, or working near open flames, take all necessary safety measures.
 2. When cleaning parts, always use a non-volatile solvent.
 3. There is a danger of a spark or open flame causing an explosion of hydrogen in the battery.
In order to avoid the danger of explosion, always observe the following.
 - When disconnecting the battery cables, disconnect the negative side cable first.
 - When connecting the battery cables, connect the negative side cable last.
 - Keep metal parts away from the battery terminals.
Metal parts might short them.
 - Do not do welding work or grinding or polishing work around the battery.
Do not smoke either.
 - Before servicing electrical systems or performing electric welding, cut off electrical circuits by either turning the battery disconnect switch to the "OFF" position "○" or disconnecting the (-) terminal of the battery.
 4. Store batteries in a safe location out of the reach of children.
 5. There is a danger of a spark from the electrical system or the engine exhaust system.
If a location has flammable gas, ventilate it well before operating this machine.
 6. Have a fire extinguisher right at hand in the cab.
Periodically service this fire extinguisher according to the manufacturer's instructions.
 7. Clean this machine periodically to remove soiling and combustible material.
 8. Check that there are no leaks and replace any damaged hose, line, or connector.
After repair work, make this machine neat and clean before using it.

2-Safety Information

Emergency Exit

Part number: KHP1247

When escaping in an emergency, you can use the hammer mounted in the operator's compartment to break the rear window to escape.

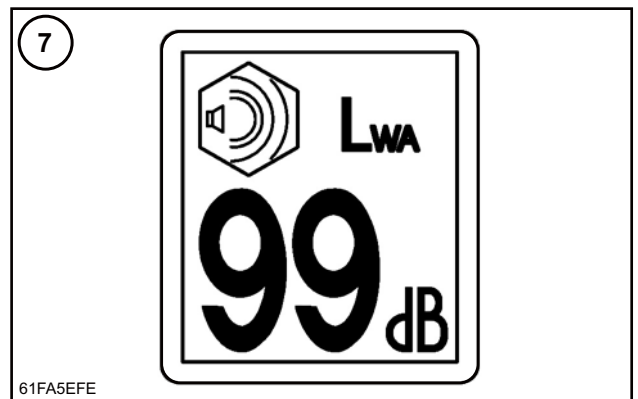


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Noise Level

Part number: KHP1827

This label shows the noise level (dB) outside the machine guaranteed by the manufacturer according to the EU noise directive 2000/14/EC.

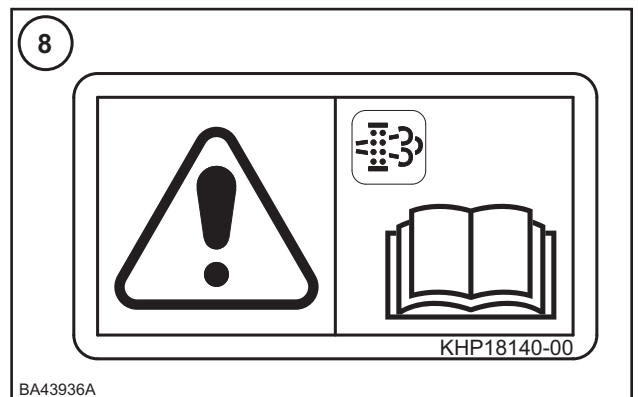


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DPD

Part number: KHP18140

This machine is equipped with a DPD.
For details on how to handle a DPD, refer to 4-28 .

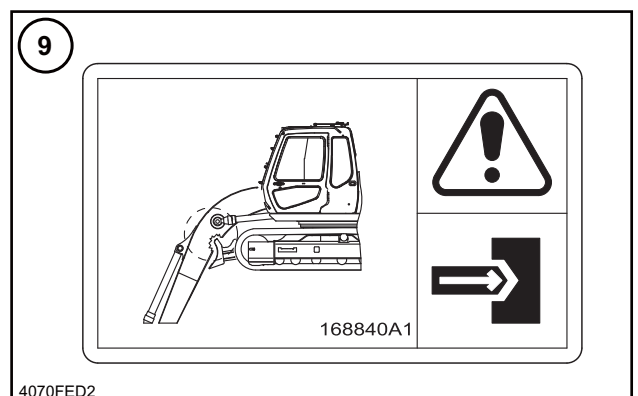


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Blade Cautions

Part number: KHP1384

Avoid interference between the blade and attachment while operating the machine.

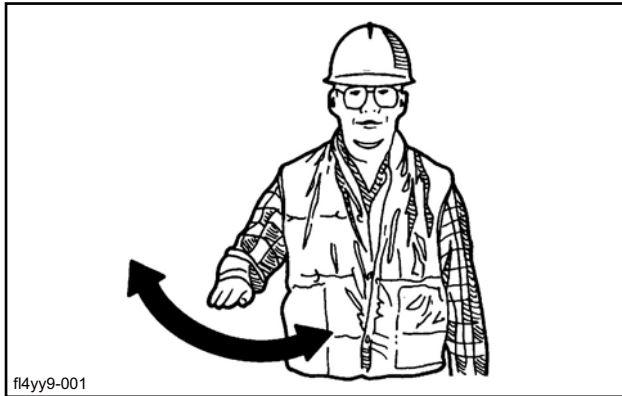


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2-Safety Information

Stop

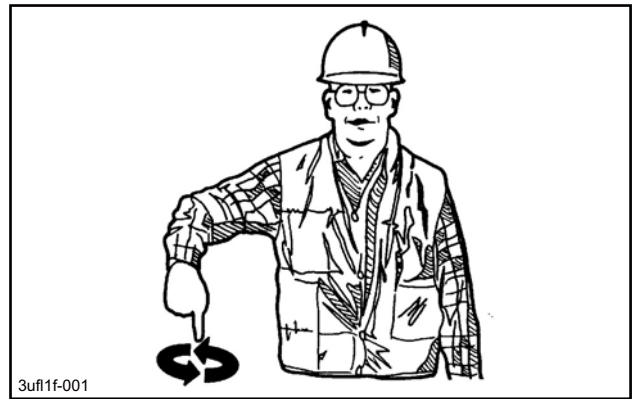
Wave one hand back and forth.



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Lower Load or Attachment

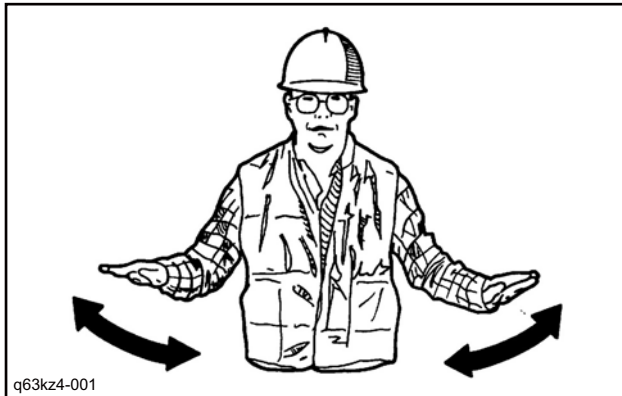


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Emergency stop

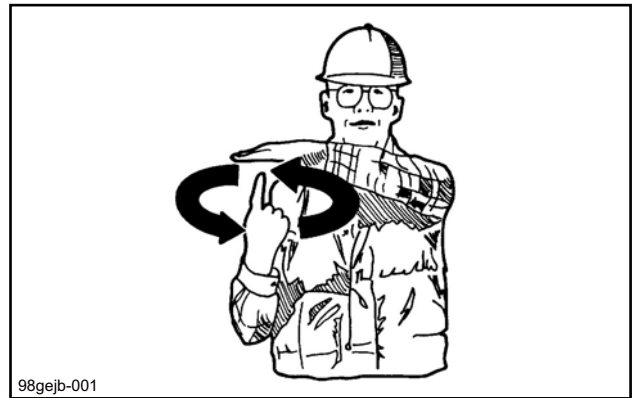
Wave hands back and forth.



q63kz4-001

q63kz4-001

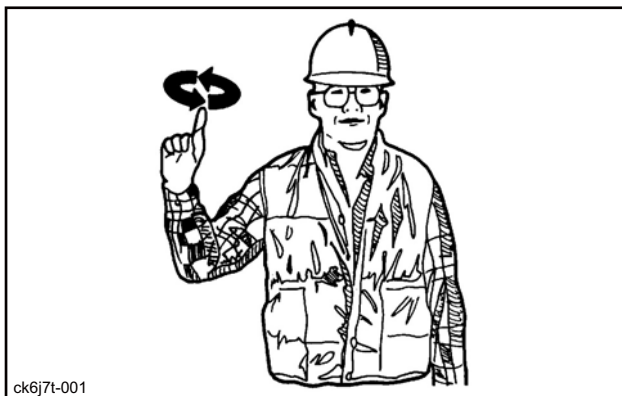
Slowly Raise Load or Attachment



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Raise Load or Attachment



ck6j7t-001

ck6j7t-001

Slowly Lower Load or Attachment

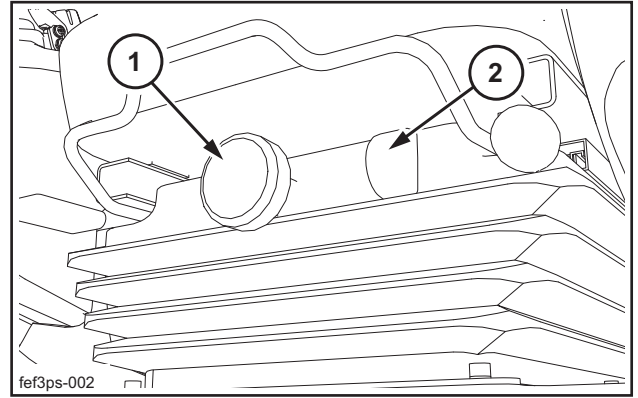


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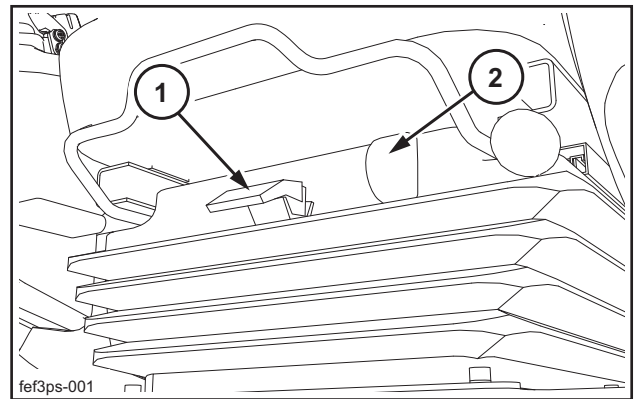
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Height Adjustment Section

Turning the knob (1) clockwise raises the seat.
Turning the knob (1) counter-clockwise lowers the seat.
When the operator is sitting on the seat, the indicator (2) lights up green.



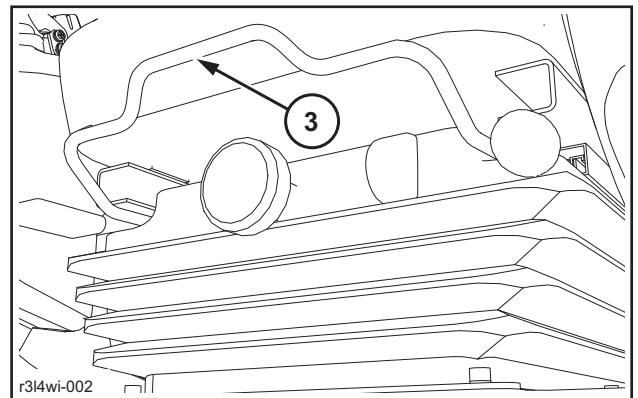
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Forward-back Position Adjustment Section

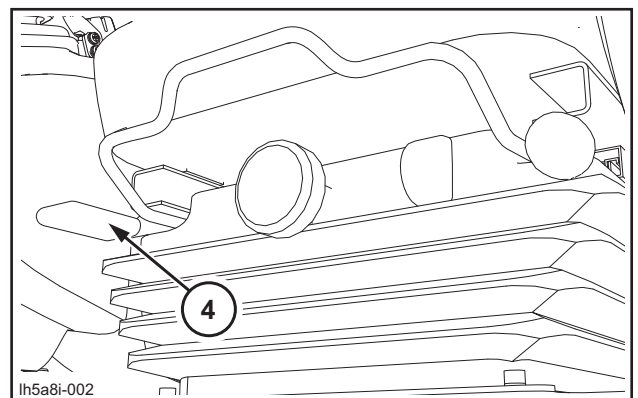
1. With the slide lever (3) pulled up, move the seat forward and back.
2. When the seat reaches the desired position, release the slide lever (3).



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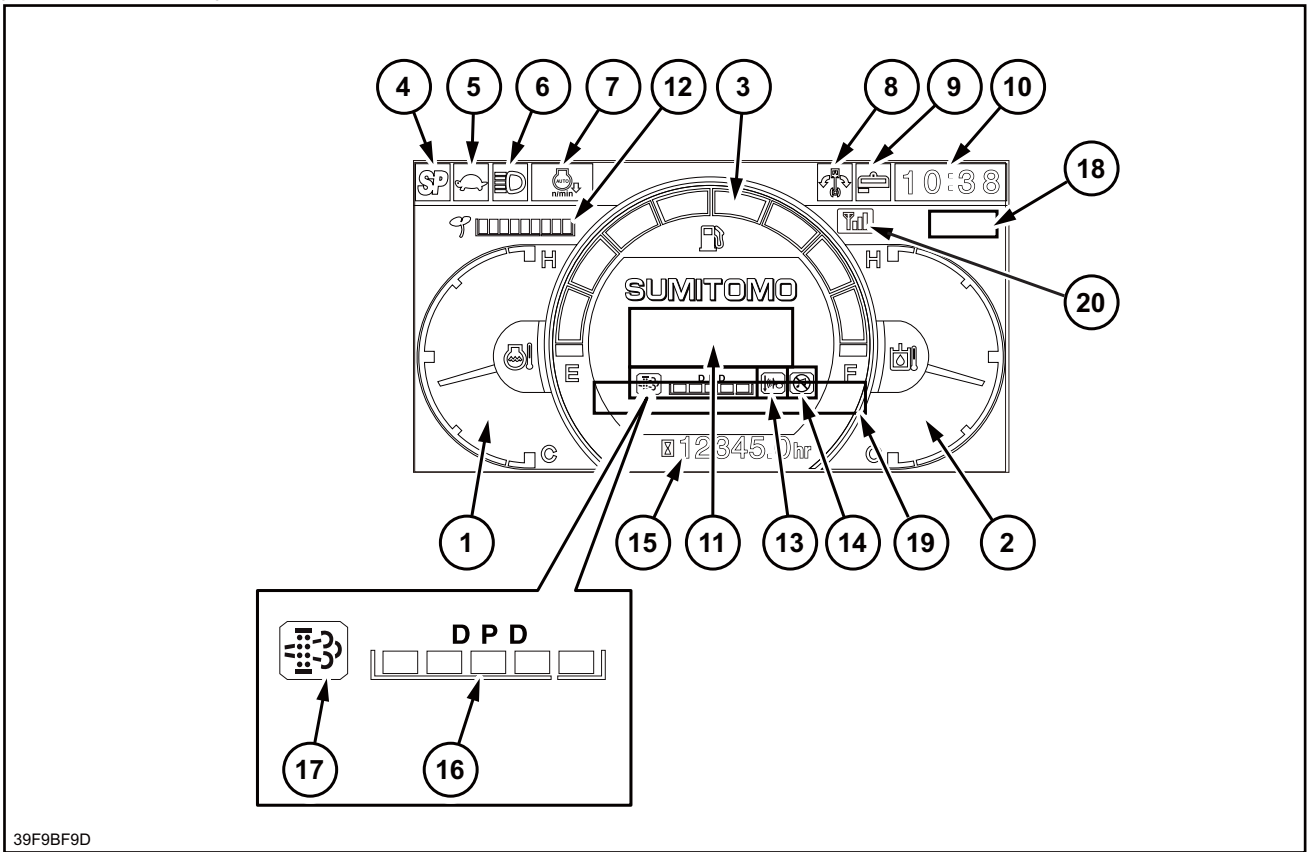
Seatback Angle Adjustment Section

1. Pull up the lever (4).
2. Move the backrest to the desired position, then release the lever (4).

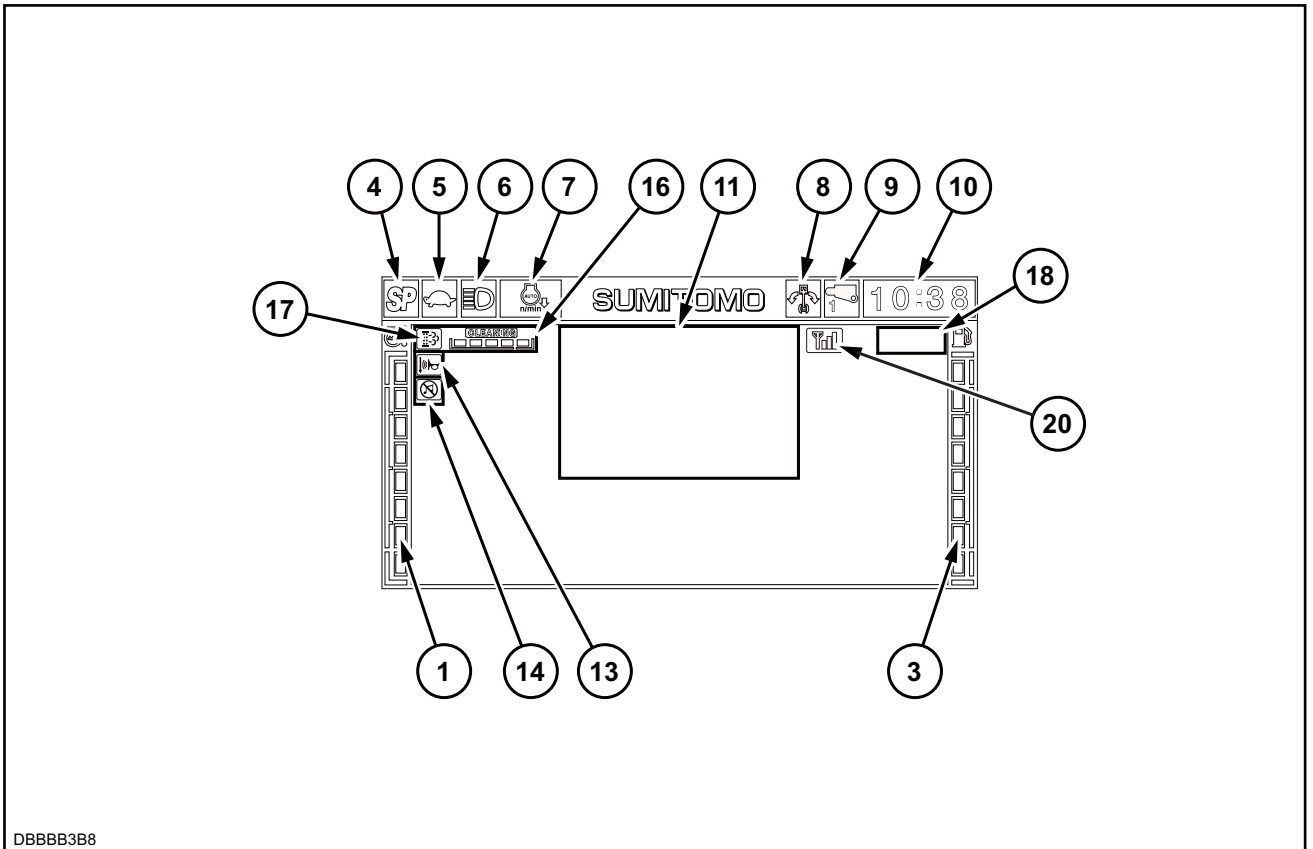


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System Display and Function Control Panel



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Option Line Pressure

Type 1

There are the following 2 types for displaying the option line pressure screen.

1. Press the button (1) to display the menu screen.



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2. Press the buttons (2) and (3) and select "AUXILIARY HYDRAULICS" (special attachment circuit setting) on the menu screen.

The option line pressure screen is displayed.

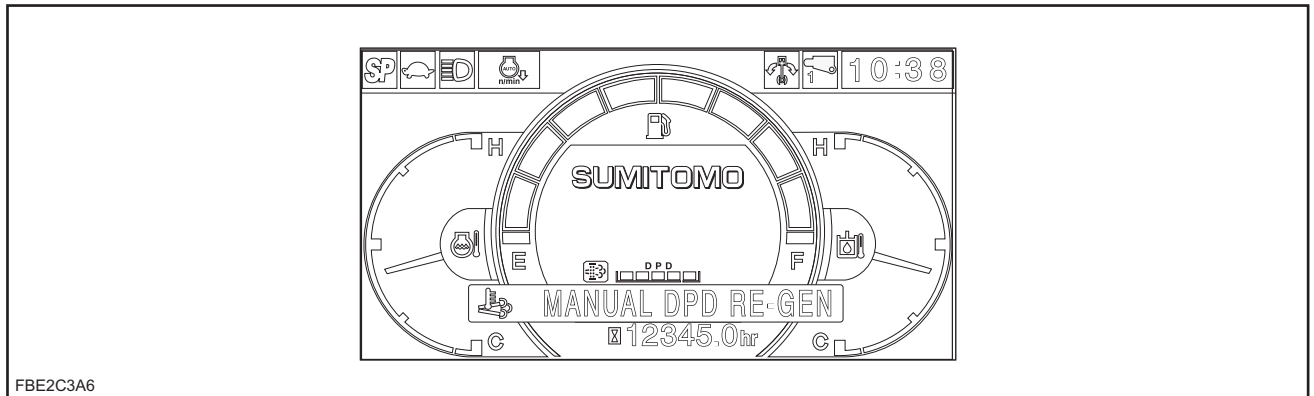


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Stopping DPD Manual Regeneration



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- If any of the following is performed, the manual regeneration stops.
- The gate lock lever is put in the unlock position.
- The engine throttle switch is operated.
- Press the DPD switch.
- If this machine is run for a long time with manual regeneration stopped, the DPD may break down. Immediately move to a safe location and restart regeneration. If the machine is left in this state, the engine problem warning lamp will light up and DPD repairs will become necessary.

1. During manual regeneration, the orange DPD lamp is lit up.

- The following messages are displayed periodically.



MANUAL DPD RE-GEN (DPD manual regeneration underway)



DO NOT OPERATE (Do not operate the machine.)

2. Perform any of the following.

- Move the gate lock lever to the unlock position.
- Operate the engine throttle switch.
- Press the DPD switch.

3. Manual regeneration stops and the orange DPD lamp flashes.

- The orange DPD lamp flashes.
- A message is displayed.



PUSH DPD SWITCH TO ACTIVATE

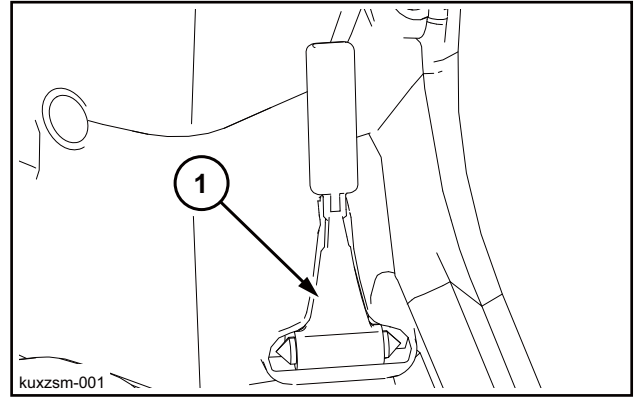
4. Move this machine to a safe location where there is no danger of starting a fire and try manual regeneration again.

Emergency Exit Hammer

⚠ CAUTION

- Never place anything in the operator's compartment or at the rear window that could impede escape.
- When breaking the window, be careful not to injure yourself with any pieces of glass.

If it should become impossible to open the cab door, use the rear window as an emergency exit. Use the emergency escape hammer mounted in the rear left of the cab to break the rear window and escape.



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Outside Control

Fuel tank

The fuel tank capacity is: 200 l (53 US gal).
Use suitable fuel, refer to page 6-4 .

NOTICE: Do not put a moisture elimination product (water draining agent) in the fuel tank. (It may damage the engine).

NOTE: Clean around the fuel cap before refuelling and do not remove the filter located in the filler orifice. (Refer to page 6-58)

NOTE: In cold weather, use fuel corresponding to the ambient temperature. (Refer to page 6-3)

NOTE: In cold weather, fill the fuel tank after each working day to prevent the formation of condensation.

⚠ WARNING

Fire hazard!

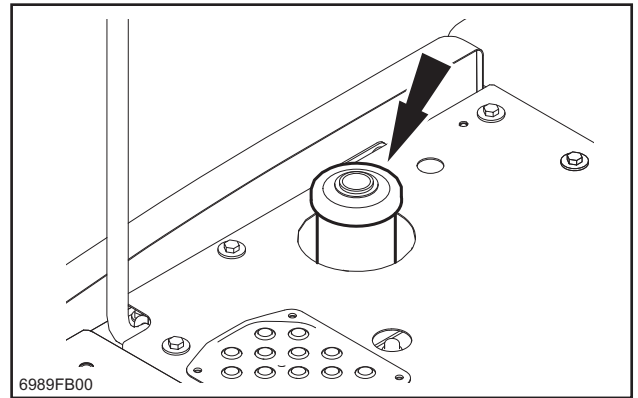
When handling diesel fuel, observe the following precautions:

1. Do not smoke.
2. Never fill the tank when the engine is running.
3. Wipe up spilled fuel immediately.
Failure to comply could result in death or serious injury.

When installing the fuel cap, make sure that it is correctly placed in the notches and then lock it by turning it up against the stop.

NOTE: Use the starter switch key to lock the fuel cap.

The fuel cap is equipped with a max level visual gauge.



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Safety valves (optional)

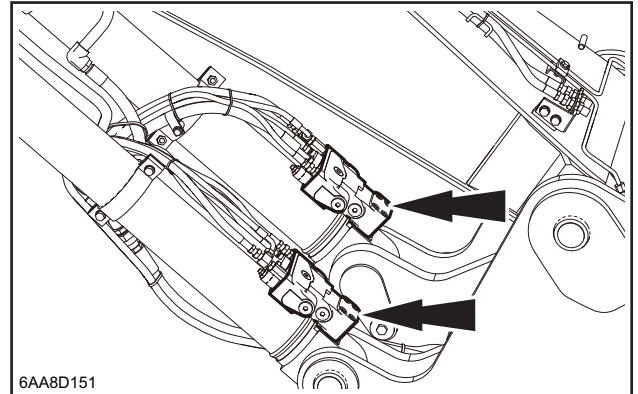
Service Specifications

Check by your nearest dealer or certified service plant: Every 6 months

The role of the safety valve is to stop the attachment from dropping due to valve spool leakage in neutral position or in the event of a line or hose accidentally breaking.

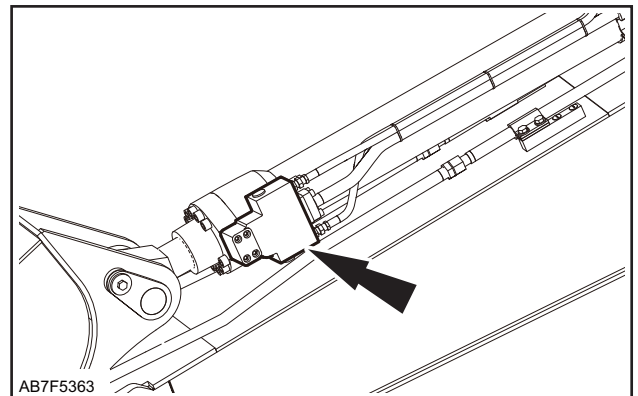
In the latter event, they also ensure that the attachment may be lowered gently to the ground.

Boom Cylinder Upper



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Arm Cylinder Upper



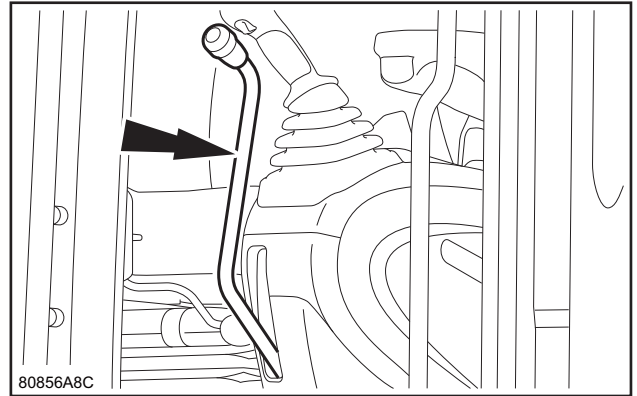
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4-Operation Explanations

Starting the Engine

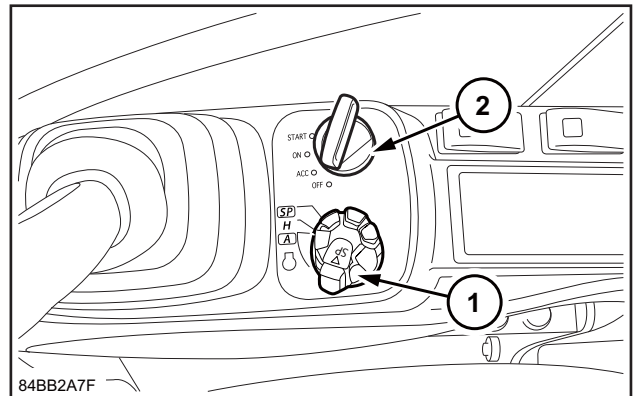
NOTE: If this machine has not been used for 1 month, refer to " Starting Up After Storage " (6-100) in [Maintenance].

1. Sit correctly in the operator's seat and fasten the seat belt tight. For details, refer to " Seat Belt " (3-9).
2. Check that the gate lock lever is in the lock position.



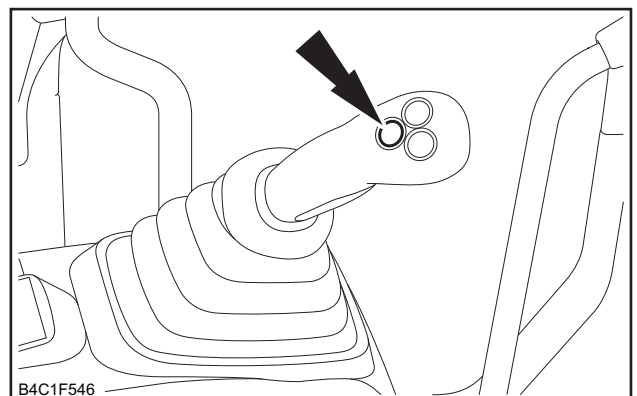
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3. Check that the engine throttle switch (1) is at the "low speed" position.
4. Turn the starter switch key (2) to ON.
5. If the anti-theft function is activated, enter the password.
For details, refer to " Anti-theft Function " (4-4).
During cold weather, the "Engine preheat" icon is displayed on the system display panel.
For details, refer to " Seat Belt " (3-9).



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6. Press the horn button on the left control lever. The horn sounds to announce that this machine is starting up.



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4-Operation Explanations

Handling This Machine

Retract the boom cylinder, extend the bucket cylinder and arm cylinder, and lower the attachment to the ground.

After the engine stops, leave the operator's seat.

NOTE: Check the following before handling this machine. For details, refer to " Weight " (8-6) in [Specification].

- The sling must be in good condition.
- The sling must be able to withstand the weight of this machine.

NOTE: Always use the lifting point shown on the label on this machine. For details, refer to " Safety Decals " (2-8) in [Safety Information].

NOTICE: Keep this machine level and handle it slowly.

WARNING

Decide the manager who is to give instructions about the work at the work site.
Disseminate all the safety measures, work ranges, and appropriate hand signals to all personnel.
Incorrect operation or service of this machine could cause a serious accident.

WARNING

The lifting device must only be operated by qualified operator who understands the work procedures.
Check that there are no abnormalities with the lifting equipment and that safety latches are securely installed on all the hooks.
Otherwise the machine might fall, which is quite dangerous.

WARNING

Wear appropriate clothes and comply with all relevant safety messages.
Failure to do so may cause injury and is quite dangerous.

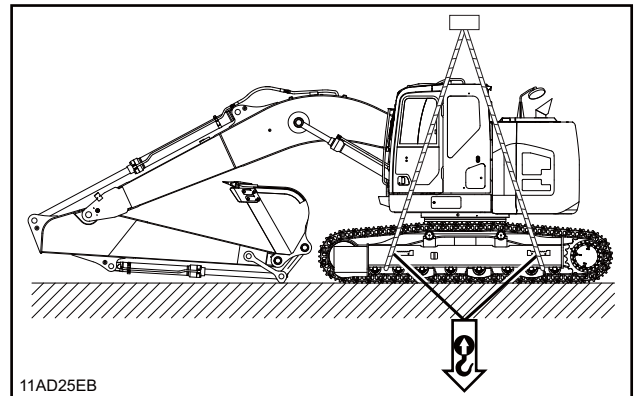
WARNING

Check the following before starting work.

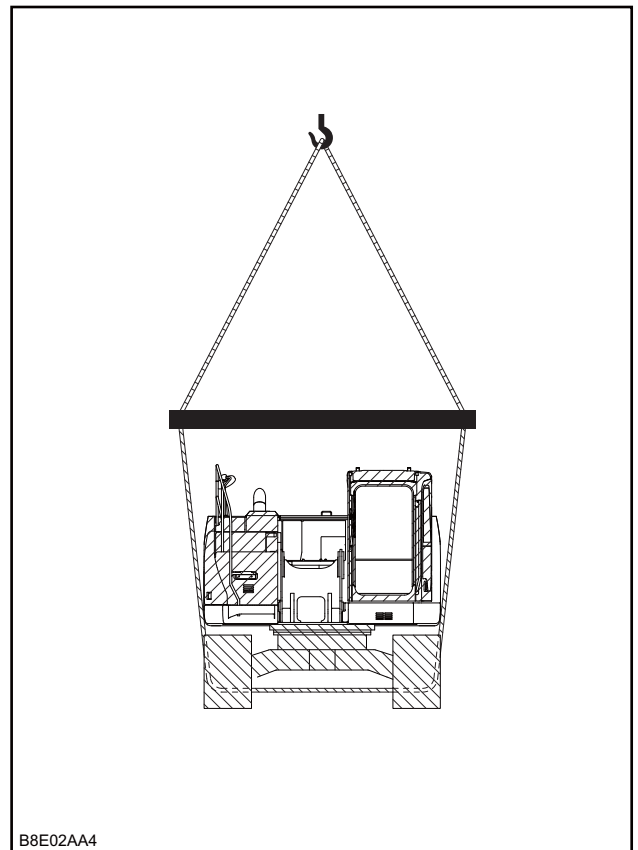
- There must be no persons and no animals in the work range.
- Understand the range of movement of this machine.

While working, prohibit entry of any third parties into the work site.

Their being present could be dangerous.



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4-Operation Explanations

7. Check that the cab, hood, lower panel, and side door are locked.

NOTE:

Check that no part of this machine sticks out into the public road.

If any part does stick out onto the public road, install appropriate signs.

⚠ WARNING

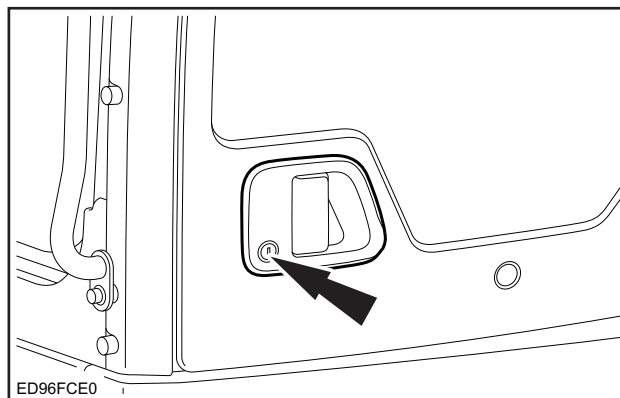
Never jump up into this machine or jump down from it. Doing so could result in injury.

Face the machine, use the handrails and steps, and go up or down slowly.

In order to prevent falls, support your body at 3 points by either of the following ways.

- Grip the handrails with both hands and one foot on a step.
- Grip the handrails with one hand and both feet on a step.

Failure to do so could cause death or serious injury due to falling.



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Fluids, Fuels, and Lubricants

Use lubricants suitable for the locations where it is applied.

NOTICE:

Be sure to comply with the usage conditions for fluids and lubricants.

Always use genuine Sumitomo oil to get machine's optimal performance.

Fluid

Clean Red (ISO-VG46)

The type of fluid to be used depends on the ambient temperature.

Temperate Climates

-20°C (-4.0°F) to 40°C (104.0°F)

Hot Climates

0°C (32.0°F) to 50°C (122.0°F)

Contact your dealer and the certified service plant when using the machine in a hot region.

Perform servicing on the fluid, engine oil, radiator, and coolant solution.

Cold Climates

-25°C (-13.0°F) to 20°C (68.0°F)

When using the machine in a cold region, contact your dealer and the certified service plant.

Use engine oil, fluid and coolant solution appropriate for this machine.

Biodegradable fluid

-30 °C (-22.0 °F) to 40 °C (104.0 °F).

This yellow-coloured fluid is miscible with standard fluid.

If used to change standard fluid, it is advisable to drain the circuit completely before refilling with this fluid.

CASE AKCELA HYDRAULIC EXCAVATORS FLUID

BIO

(MS 1230. ISO VG 46. DIN 51524 PART 2 HV)

Transmission Component Oil

This is extreme pressure oil used for enclosed transmission components.

Clean Elite (class 4)

(API-GL-4 SAE 90)

Grease

Clean Cassette (extreme pressure lithium grease No.2)

This is multipurpose grease for "extreme pressure" and that uses lithium soap and calcium.

Lubricating the Turntable Bearing

Grease capacity: 9.9 kg (21.8 lb)

Grease type: Refer to 6-3 .

Every 500 Hours

1. Remove the inspection cover (1).
2. Visually check the condition of the gear surface for any damage.
3. If the gear surface is not well greased, add grease.
4. If water has built up, remove the plug (2) with the following procedure and drain the water and contaminated grease.

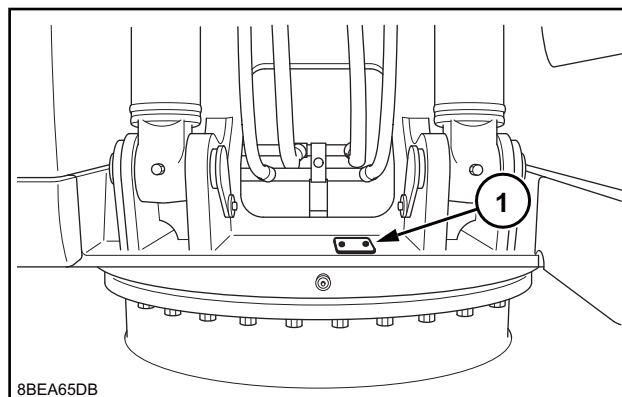
[1] Remove the lower under cover from the bottom center.

[2] Remove the plug (2).

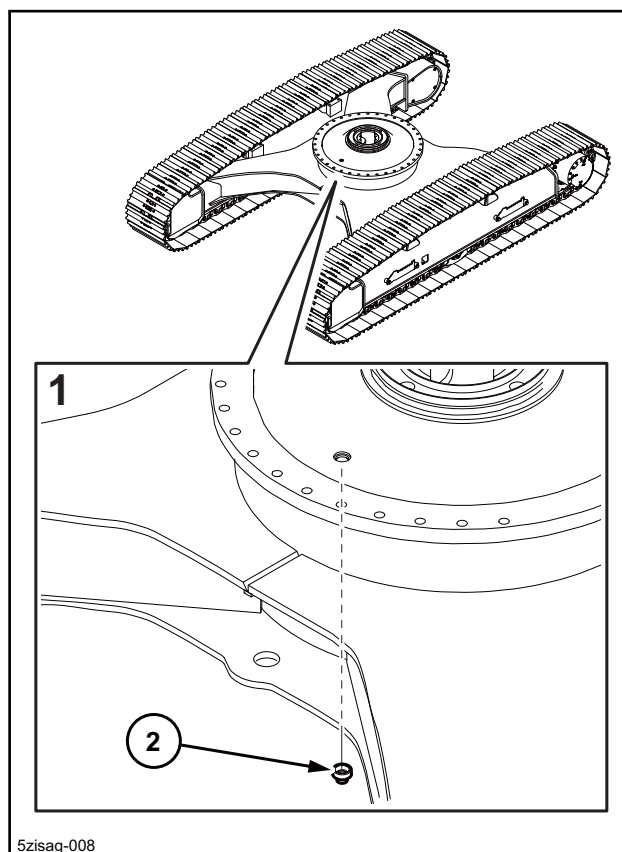
[3] Drain the water and dirty grease.

[4] Install the plug (2).

[5] Inject new grease into the port, and install the inspection cover (1).



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Fuel pre-filter

When the float reaches the level line (A):

1. Place a receptacle of a suitable capacity under the pre-filter.
2. Loosen the drain plug (1) and the bleed screw (2) then drain the water and sediment.
3. When the float (3) settles on the bottom, tighten the drain plug (1) and the bleed screw (2).
Tightening torque: 8 - 12 N · m (5.9 - 8.9 lb ft)

NOTICE: Overtightening can damage the seal.

4. Check for any signs of leak.

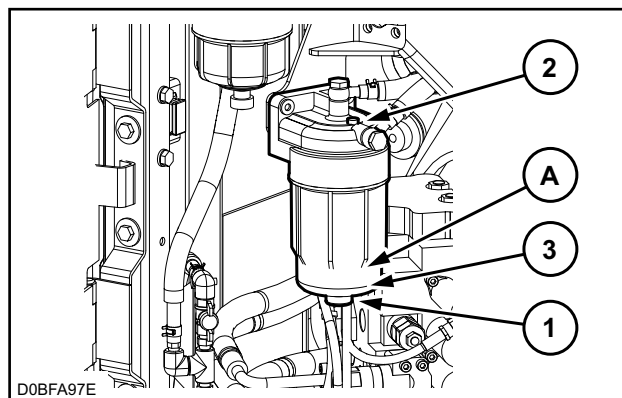
NOTICE:

In cold weather, the water can freeze on the top part of the bowl.

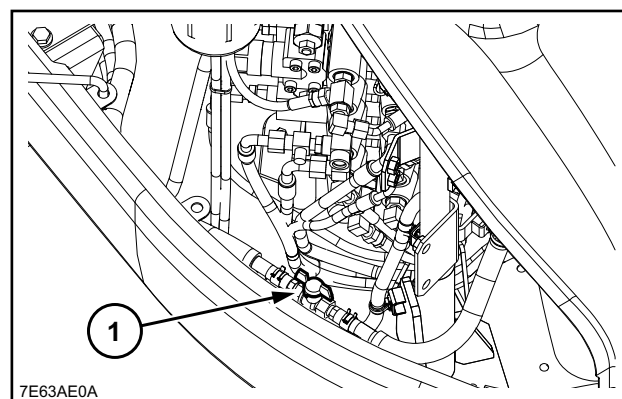
Bleed after the ice has melted.

Changing the pre-filter element

1. Place a receptacle of a suitable capacity under the pre-filter.
2. Close the valve (1) on the supply line.

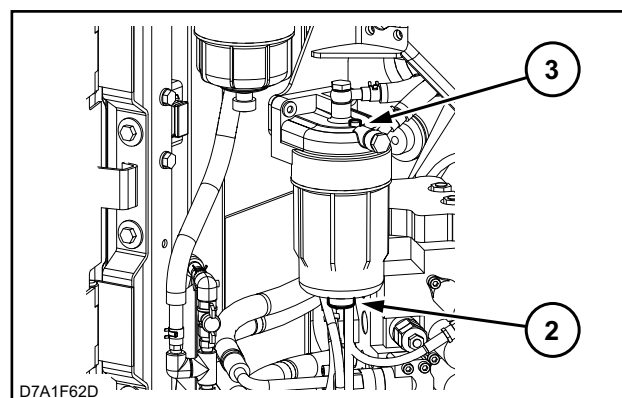


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3. Loosen the drain plug (2) and the bleed screw (3), then drain the fuel and sediments from the pre-filter.



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4. Clean around the pre-filter body then remove it using the wrench provided with the machine.
5. Install the new filter element.
Replace the filter body seal, then install the body, turning it until it is in contact with the pre-filter head.

NOTICE: Do not fill the filter body with fuel before installing.

Hydraulic circuit

Service specifications

Check the hydraulic tank fluid level: Every 10 hours or each day

Check the lines: Every 50 hours

Draining water and sediment from the hydraulic tank: Every 250 hours

Check the condition of the hydraulic fluid: Every 1000 hours

Change the reservoir breather filter element: Every 1000 hours

Clean the suction filter: Every 2000 hours

Change the return filter: Every 2000 hours (after the first 250 hours during the run-in period)

Change the pilot filter: Every 2000 hours (after the first 250 hours during the run-in period)

Change the main pump outlet hoses: Every 2 years or every 4000 hours (whichever comes first)

Change the boom, arm and bucket cylinder hoses: Every 2 years or every 4000 hours (whichever comes first)

Change the suction filter: Every 5000 hours

Change the hydraulic fluid: Every 5000 hours

Reservoir capacity: 75 l (20 US gal)

Total system capacity: 158 l (42 US gal)

Type of oil: Refer to page 6-3

NOTE: If biodegradable hydraulic fluid is used, it is essential to reduce the following servicing intervals to the number of hours shown:

Change the return filter: Every 1000 hours (after the first 50 hours during the run-in period)

Change the hydraulic fluid: Every 2000 hours

NOTE:

If the machine is new or if a major component has been overhauled or changed in the hydraulic system, change the pilot filter and return filter after 50 hours of operation.

After that, change these filters at the stipulated interval.

NOTE:

After changing the hydraulic fluid, it is necessary to bleed all air from the hydraulic components.

See "Bleeding air from the hydraulic components".

WARNING

Burn hazard! Before performing any service on the hydraulic system, you must allow it to cool.

Hydraulic fluid temperature should not exceed 40 °C (104 °F).

Failure to comply could result in death or serious injury.

WARNING

Escaping fluid! Hydraulic fluid or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury.

To prevent personal injury:

Relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system.

Before applying pressure, make sure all connections are tight and all components are in good condition.

Never use your hand to check for suspected leaks under pressure.

Use a piece of cardboard or wood for this purpose.

If injured by leaking fluid, see your doctor immediately.

Failure to comply could result in death or serious injury.

WARNING

Pressurized system! Never attempt to drain fluids or remove filters when the engine is running.

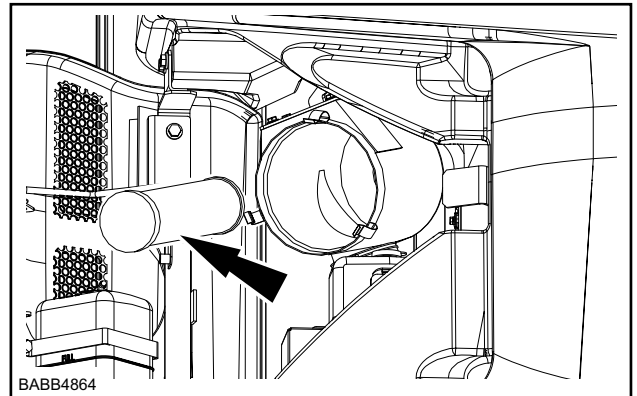
Turn off the engine and relieve all pressure from pressurized systems before servicing the machine.

Failure to comply could result in death or serious injury.

3.If replacement is necessary, remove the inner element.

NOTE:

Always replace the inner element.
Do not clean it.



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Outer Element Cleaning

⚠ WARNING

Compressed air can propel dirt, rust, etc. into the air. When cleaning, use protective eyewear and a dust mask. Failure to comply with these precautions can cause accident and injury.

When the outer element is dry:
Blow compressed air from the inside to the outside at very low pressure.
Keep the compressed air nozzle at least 3 cm (1.181 in.) away from the inside wall of the element.
When no more dust comes out of the outer element, cleaning is complete.

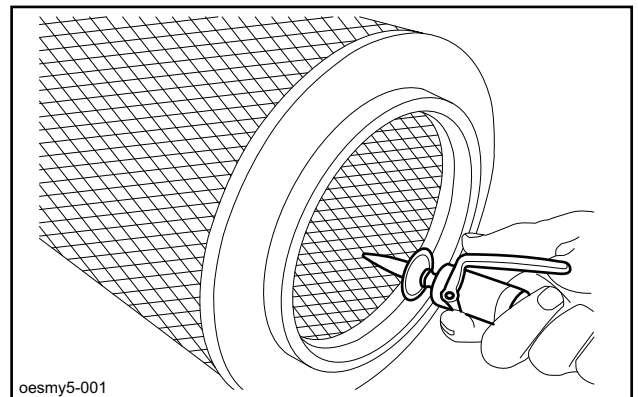
NOTE: Be sure to keep the compressed air pressure below 7 bars (101.526 psi).

NOTE: Do not use compressed air if there is oil or soot in the element.

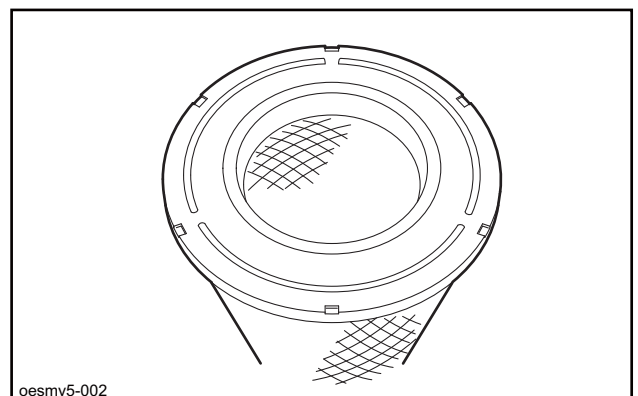
If the cartridge is greasy:
Clean it in water, with suitable detergent. (If the oil cannot be removed, consult your dealer and the certified service plant.)
Instructions for using the detergent are printed on the package.

NOTE:

Dry the element out completely before installing it. It is advisable to keep a clean spare element ready that can be installed on the air cleaner while the cleaned element is drying.



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oesmy5-002

Radiator and coolers

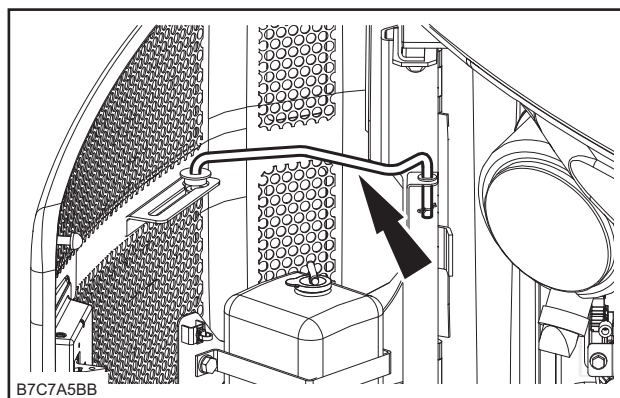
Service Specifications

Leak check: Every 10 hours or in start-up inspection

Cleaning: Every 500 hours

Cleaning

1. Stop the engine, then remove the key from the starter switch.
2. Open the rear left-hand door and block it with the brace. Then, open the engine hood.



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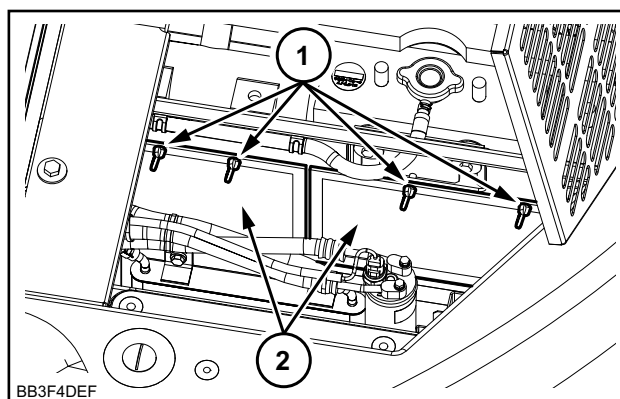
3. Remove the one-touch clips (1) and remove the protective grill (2).

⚠ WARNING

Flying dirt in the air. Compressed air can propel dirt, rust, etc. into the air.

When using compressed air, wear protective eyewear and a dust mask.

Failure to do so could cause death or serious injury.



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4. Clean the radiator and oil coolers. Use compressed air on dry dirt.
Clean off mud with a water jet.
For greasy dirt, use tetrachloroethylene.

NOTE: The use of trichloroethylene is strictly forbidden.

Checking the Machine Settings

Service Specifications

Inspected by our dealer: every 6 month

Air conditioning

Service Specifications

Air circulation filter cleaning: Every 50 hours

Filter replacement: Every 2000 hours

Inspection by specialist: Every 6 months

Periodically service the components of the air conditioner.

Observe the servicing intervals, in order that the air conditioner functions correctly and can control the temperature efficiently.

The air conditioner contains gas which is subject to strict legislation.

Air conditioner defects must be fixed rapidly.

WARNING

Air conditioner service should never be performed by the user.

Consult your dealer and the certified service plant.

This could lead to a serious accident.

NOTE: Operate the air conditioner at least once a week, if only for a short period of time. For details, refer to " Air Conditioner " (3-43) in [Controls/Instruments].

Inspection

In order to ensure the air conditioning functions correctly, inspect the air conditioner using the procedure outlined below before starting work.

Dirty Condenser

If the condenser is dirty, it does not release heat the way it should.

Also, clean the condenser periodically with water even if it does not look dirty.

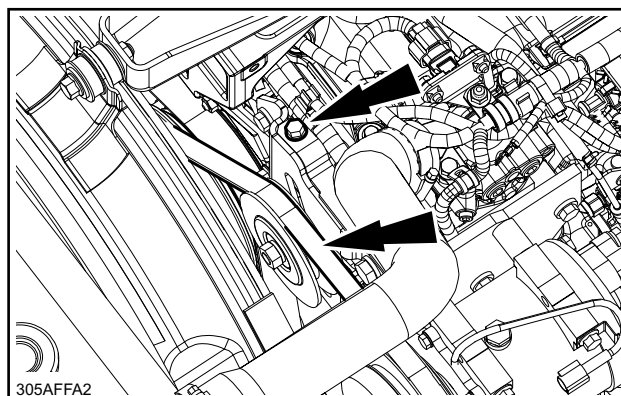
NOTE: Never use high-pressure water to clean the condenser.

Belt Tension Check

Press the center of the drive belt with a finger with a force of about 10 kg (22.046 lb).

Set the slack to be in the range 6 - 8 mm (0.236 - 0.315 in.).

Adjust the belt tension as necessary.



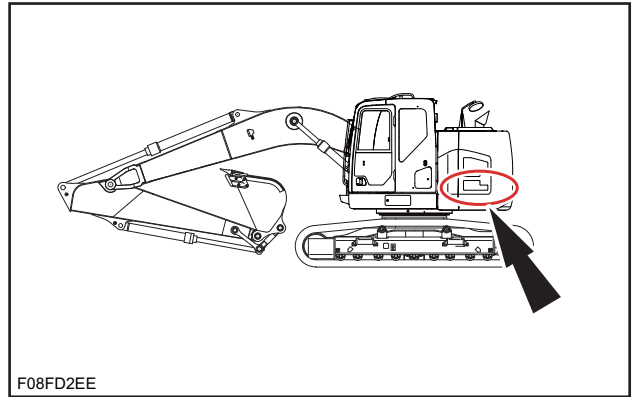
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Checking the lines

Make a visual check of the lines and make sure there are no accumulations of dust, grease, etc.

Battery disconnect switch

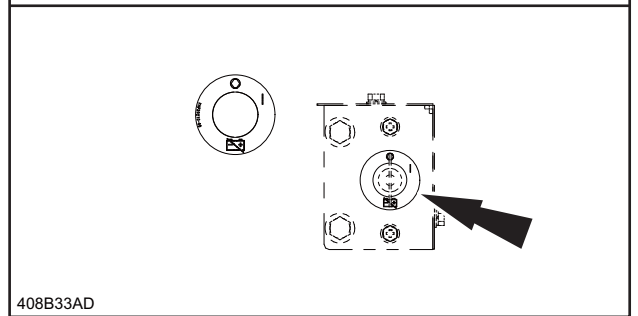
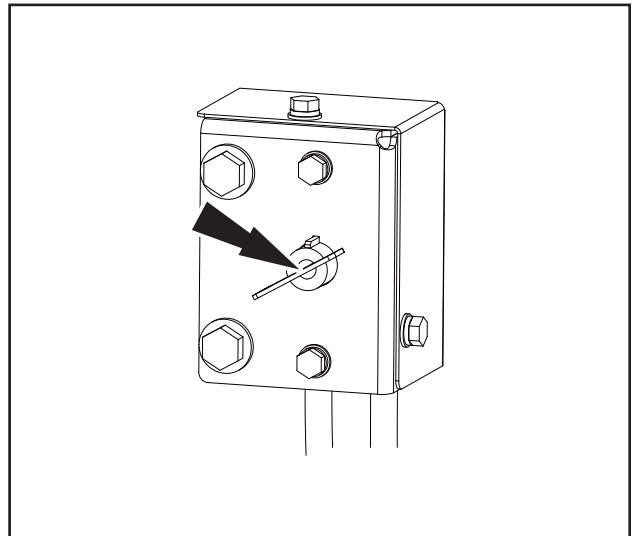
This switch is located near the battery behind the left side door.



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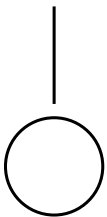
Make sure that the switch is set in " | " (ON position) other than for storing the machine for a long period or for performing maintenance for the electrical systems.



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NOTE:When the switch is turned to "O" (OFF position), all the electric circuits are cut off and the stations stored on the radio presets and the time set for the clock will be all cleared.

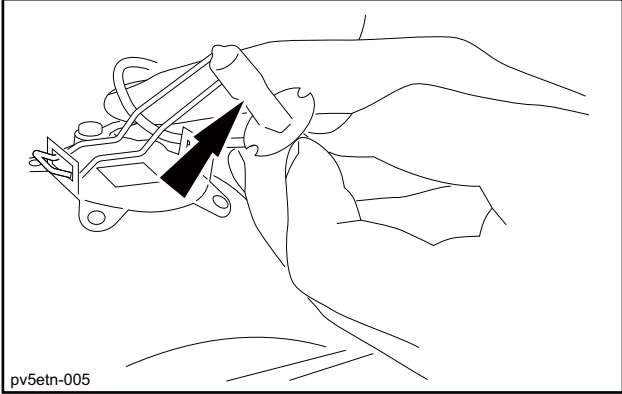


(ON) : When the key is inserted and turned in the clockwise direction, the electric circuits are connected.

Make sure that the switch is set in " | " (ON position) before starting the engine.

(OFF) : When the key is turned in the anti-clockwise direction, the electric circuits are cut off. Before storing the machine for a long period or performing maintenance for the electrical systems, always turn the switch to "O" (OFF position) and then remove the key.

5.Install the switch bracket.



pv5etn-005

pv5etn-005

8-Specification

General specification

Engine

High pressure common rail engine, in conformity with the European requirements applicable to low fumes emission, in accordance with the directive 97/68/EC.

Make and type	ISUZU AM-4JJ1X
Common rail, turbocharger with air cooled intercooler, DPD (Diesel Particulate Diffuser) system, fuel cooler	yes
Injection	electric control
Number of cylinders	4
Bore/stroke	95.4 mm (3.76 in) x 104.9 mm (4.13 in)
Displacement	2999 cm ³ /rev (183 in ³ /rev)
Maximum displacement (ISO 9249)	359 N · m (265 lbf · ft) at 1600 min ⁻¹ (1600 rpm)
Cooling	by water
Battery starting	2 x 12 V 72 A · h/5HR
Voltage	24 V
Alternator	50 A
Starter	24 V 4.0 kW

Working conditions

Speed	2000 min ⁻¹ (2000 rpm)
Power (80/1269/EEC)	74.9 kW (100 HP) at 2000 min ⁻¹ (2000 rpm)
Engine oil capacity (with remote oil filter)	17.0 l (4.5 US gal)
Fuel tank capacity	200 l (53 US gal)
Fuel filler pump	if equipped
Engine/pump assembly mounted on flexible mountings	
Filtration in dusty conditions	
Electronically controlled governor	

Hydraulic System

Variable flow piston-type double pump Main pump maximum flow [at 2000 min ⁻¹ (2000 rpm)]	2 x 129 L/min (34.1 US gpm)
Fixed pump flow (pilot circuit) maximum flow:	20 L/min (5.3 US gpm)
Working pressure Attachment/power boost	34.3 MPa (4970 psi, 350 kgf/cm ²)/36.3 MPa (5260 psi, 370 kgf/cm ²)
Air-cooled engine oil cooler	
High-pressure multi-spiral hose minimum safety coefficient factor	2 - 4 times operating pressure
Self-lubricating hydraulic swivel	
Hydraulic tank capacity	75 L (20 US gal.)
Hydraulic system total capacity	158 L (42 US gal.)

8-Specification

Arm	2.11 m (83.07 in.)	2.50 m (98.43 in.)	3.01 m (118.5 in.)
(A) (Maximum digging depth)	7940 mm (312.598 in.)	8290 mm (326.378 in.)	8740 mm (344.094 in.)
(B) (Maximum digging depth on surface)	7780 mm (306.299 in.)	8140 mm (320.472 in.)	8600 mm (338.583 in.)
(C) (Maximum digging depth)	5110 mm (201.181 in.)	5510 mm (216.929 in.)	6010 mm (236.614 in.)
(D) (Maximum digging depth for length of 2.44 m (96.06 in.))	4870 mm (191.732 in.)	5290 mm (208.268 in.)	5830 mm (229.528 in.)
(E) (Maximum dump height)	6660 mm (262.205 in.)	6940 mm (273.228 in.)	7290 mm (287.008 in.)
(F) (Maximum work height)	9060 mm (356.693 in.)	9340 mm (367.717 in.)	9690 mm (381.496 in.)
(G) (Minimum swing radius for attachments)	1890 mm (74.409 in.)	1950 mm (76.772 in.)	2330 mm (91.732 in.)
(H) (Maximum digging depth for vertical surface)	4560 mm (179.528 in.)	4900 mm (192.913 in.)	5280 mm (207.874 in.)
(I) (Maximum digging length for flat-bottom ditch)	2440 mm (96.063 in.)	2440 mm (96.063 in.)	2440 mm (96.063 in.)

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