

Operation & Maintenance Manual

PC100, 100L-6 PC120-6 PC130-6 MIGHTY HYDRAULIC EXCAVATOR

	PC100-6	- 41401	
	PC100L-6	- 15106	
SERIAL NUMBERS	PC120-6	- 50201	and up
	PC130-6	- 50201	

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MAINTENANCE

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SPECIFICATIONS

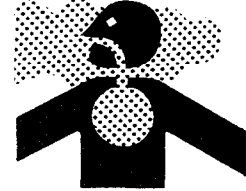
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⚠ WARNING: Failure to follow these safety precautions may lead to a serious accident.

7. PRECAUTIONS DURING OPERATION

VENTILATION FOR ENCLOSED AREAS

- If it is necessary to start the engine within an enclosed area, provide adequate ventilation. Exhaust fumes from the engine can KILL.



A0055060

PRECAUTIONS FOR MIRRORS, WINDOWS AND LIGHTS

- Remove all dirt from the surface of the windows and lights to ensure that you can see well.
- Adjust the rear view mirror so that you can see clearly from the operator's seat, and always keep the surface of the mirror clean. If any glass is broken, replace it with a new part.
- Check that the head lamps and working lamps are installed to match the operating conditions. Check also that they light up properly.

⚠ WARNING: Failure to follow these safety precautions may lead to a serious accident.

7. PRECAUTIONS DURING OPERATION

OPERATION SUPERVISOR

- Before performing lifting operation, designate an operation supervisor. Always execute operation according to his instructions.
 - Execute operating methods and procedures under his direction.
 - Select a person responsible for signaling. Operate only on signals given by such person.

HANDING OF WIRE ROPES ETC.

- Wear leather gloves when handling wire ropes.

1. Warnings for leaving operator's seat (203-00-61270)

⚠ WARNING

To avoid hitting unlocked operation levers, lower equipment to ground and move SAFETY LOCK LEVER (located near seat) to LOCK position before standing up from operator's seat.

Sudden and unwanted machine movement can cause serious injury or death.

203-00-61270

3. Warnings for operation, inspection and maintenance (14X-98-11580)

⚠ WARNING

Improper operation and maintenance can cause serious injury or death.

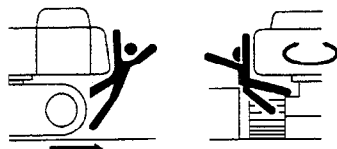
Read manual and labels before operation and maintenance.
Follow instructions and warnings in manual and in labels on machine.

Keep manual in machine cab near operator.
Contact Komatsu distributor for a replacement manual.

14X-98-11580

2. Warnings before operating machine (203-00-61291)

⚠ WARNING



To prevent SEVERE INJURY or DEATH. Do the following before moving machine or its attachments:


- Honk horn to alert people nearby.
- Be sure no one is on or near machine or in swing area.
- Rotate cab for full view of travel path if it can be done safely.
- Use spotter if view is obstructed.

Follow above even if machine equipped with travel alarm and mirrors.

203-00-61291

4. Warnings for high voltage (203-00-61310)

⚠ DANGER



Hazardous voltage hazard. Serious injury or death can occur if machine or attachments are not kept safe distance away from electric lines.

Line voltage	Safe Disatnce
6.6 kv	At least 10 ft (3 m)
66.0 kv	At least 16 ft (5 m)
275.0 kv	At least 33 ft (10 m)

203-00-61310

12.1.2 B: CAUTION ITEMS**⚠ CAUTION**

If the caution monitor lamp flashes, repair the problem as soon as possible.

1. CHARGE LEVEL

This monitor indicates an abnormality in the charging system while the engine is running.

If the monitor lamp flashes, check the V-belt tension. If any abnormality is found, see "16.6 OTHER TROUBLE".



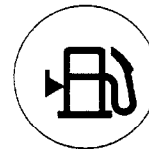
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REMARK

While the starting switch is ON, the lamp will remain lit and will go off once the engine is started.

2. FUEL LEVEL

If the fuel drops below 25 liters (6.6 US gal, 5.5 UK gal), the lamp will flash. Top up the fuel before this.



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3. AIR CLEANER CLOGGING

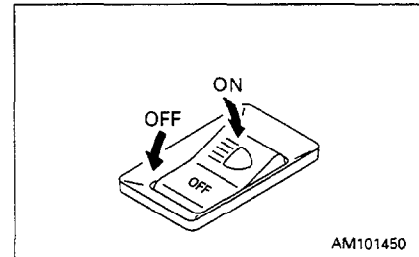
This warns that the air cleaner is clogged. If the monitor lamp flashes, stop the engine then inspect and clean the air cleaner.



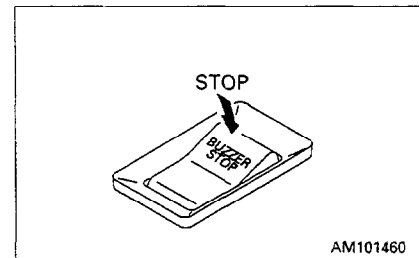
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6. LAMP SWITCH

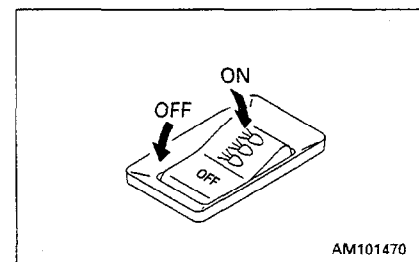
This switch turns on the head lamp, working lamp and monitor illumination.

**7. ALARM BUZZER STOP SWITCH**

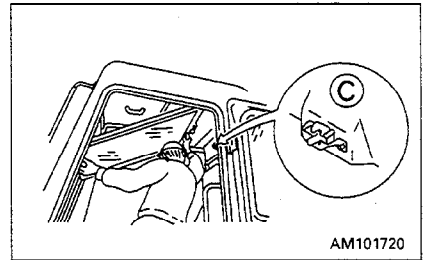
This is used to stop the alarm buzzer when it has sounded to warn of some abnormality in the EMERGENCY STOP ITEMS while the engine is running.

**8. ADDITIONAL LAMP SWITCH**

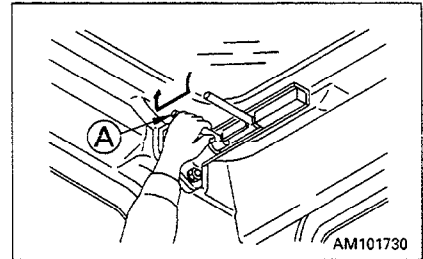
This switch is provided to turn on an additional lamp on the cab front top. Setting to OFF turns the switch off.



- From the inside of the operator's cab, hold the bottom grip with the left hand and the top grip with the right hand, pull up the window, and push it in fully until it is locked by catch ③.



- Lock with lock pins ① on the left and right sides.

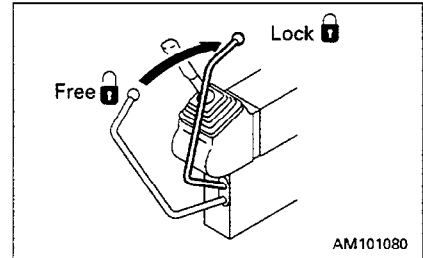


When closing

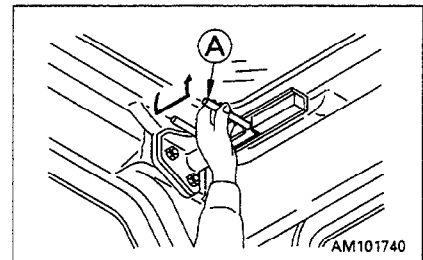
⚠ WARNING

When closing the window, lower it slowly and be careful not to get your hand caught.

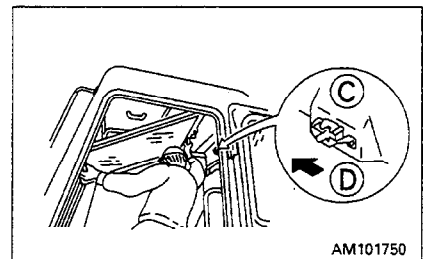
- Place the work equipment on a flat ground and stop the engine.
- Securely lock the safety lock lever.



- Release the lock pin ①.

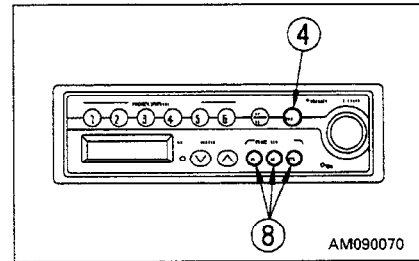


- Hold the grip at the bottom of the front window with your left hand and the grip at the top with your right hand, release the lock of catch ③ with your right thumb, then pull the top grip slowly and lower the front window. When releasing the lock of catch ③, push release lever ④ in the direction of the arrow to release the lock.

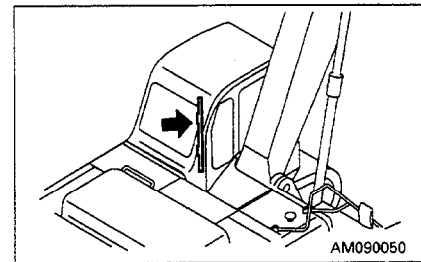


SETTING CORRECT TIME

1. Press display selector button ④ to display the time.
After 5 seconds, the display will return to the frequency display and the time cannot be corrected. If this happens, press display selector button ④ again.
2. Press time adjustment button ⑧ and adjust the hour and minute.
H button: Adjusts hour (advances one hour each time it is pressed)
M button: Adjusts minute (advances one minute each time it is pressed)
If the H or M button are kept pressed, the time will advance continuously until the button is released.
SET button: Sets to start of hour (when it is pressed, the minute returns to 00)
If the minute display is between 0 and 29, and the SET button is pressed, the minute reading will return to 00. If it is pressed when the minute display is between 30 and 59, the minute display will return to 00 and the hour will advance by 1.
Example 10:29 → 10:00
10:30 → 11:00
Press the H, M, and SET buttons to set to the correct time.

**ANTENNA**

In areas where the reception is weak or there is interference, extend the antenna. If the radio is set to a station with strong radio waves, retract the antenna to set to a weaker input.

**NOTICE**

Always retract the antenna before transporting the machine or driving the machine into a work shop or garage.

12.1.3 ADJUSTING SEAT POSITION (Rigid seat specification)

⚠ WARNING

- Adjust the seat position at the beginning of each shift or when operators change.
- Adjust the seat so that the travel pedal can be depressed all the way with the operator's back against the backrest.

OPERATOR'S SEAT

Ⓐ Fore-and-aft adjustment of seat

Pull lever ① up. After the seat is set to the desired position, release the lever.

Adjustable distance: 100 mm (3.9 in) in 5 steps

Ⓑ Adjustment of reclining seat

Pull lever ② up. After the seat back is set to the optimum position for easy operation, release the lever.

NOTICE

The amount of reclining for the seat is greatest when the seat is moved forward, and becomes smaller as the seat is moved to the rear. For this reason, when moving the seat to the rear, set the seat back to the upright position.

Pull lever ② up. After the seat back is set to the optimum position for easy operation, release the lever.

Sit with your back against the seat back when adjusting. If your back is not touching the seat back, the seat back may suddenly move forward.

Ⓒ Adjustment of seat tilting angle

1. Forward tilting (↕)

Pull lever ③ up to release locking. Adjust the angle at the front of the seat. After the seat is set to the optimum position for easy operation, release the lever and then lock it.

2. Backward tilting (↕)

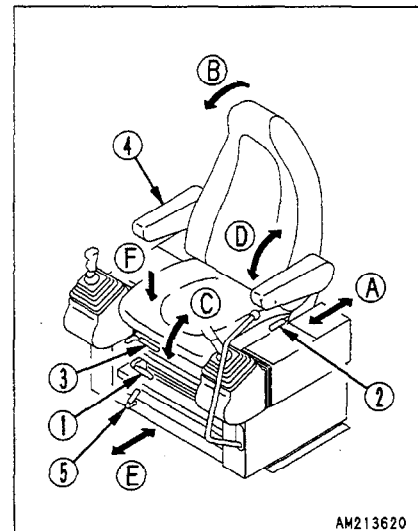
Push down lever ③ to release locking. Adjust the angle at the rear of the seat. After the seat is set to the optimum position for easy operation, release the lever then lock it.

3. Seat height adjustment

By a combination of steps 1 and 2, the seat can be moved up and down.

First, use the rear tilt operation to adjust the rear of the seat, then use the front tilt operation to set the seat horizontal.

Adjustable height: 65 mm (2.6 in)



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12.3 OPERATIONS AND CHECKS AFTER STARTING ENGINE

⚠ WARNING

- **Emergency stop**
If there has been any abnormal actuation or trouble, turn the starting switch key to the OFF position. The electrical system and engine will stop. Then contact your Komatsu distributor for inspection.
- If the work equipment is operated without warming the machine up sufficiently, the response of the work equipment to the movement of the control lever will be slow, and the work equipment may not move as the operator desires, so always carry out the warming-up operation. Particularly in cold areas, be sure to carry out the warming-up operation fully.

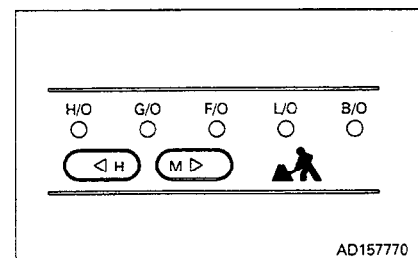
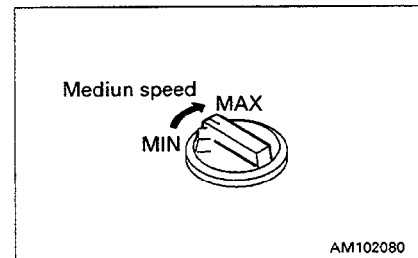
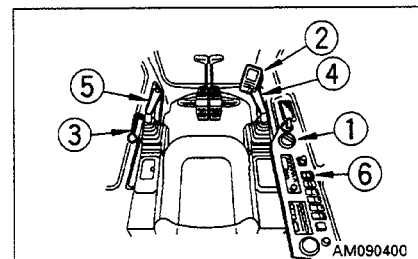
12.3.1 WHEN NORMAL

NOTICE

- When the hydraulic oil is at a low temperature, do not carry out operations or move the levers suddenly. Always carry out the warming-up operation. This will help to extend the machine life.
- Do not suddenly accelerate the engine before the warming-up operation is completed.
Do not run the engine at low idling or high idling continuously for more than 20 minutes. This will cause leakage of oil from the turbocharger oil supply piping.
If it is necessary to run the engine at idling, apply a load from time to time or run the engine at a mid-range speed.

After starting the engine, do not immediately start operations. First, carry out the following operations and checks.

1. Turn fuel control dial ① to the center position between LOW IDLING (MIN) and HIGH IDLING (MAX) and run the engine at medium speed for about 5 minutes with no load.
2. While running the engine at medium speed, press working mode switch ② until the heavy-duty operation mode lamp is turned on.

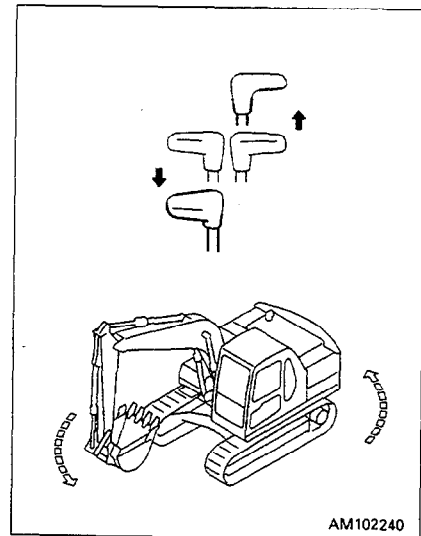


When making counter-rotation turn (spin turn)

When turning left using counter-rotation, pull the left travel lever back and push the right travel lever forward.

REMARK

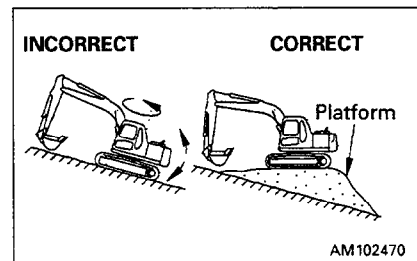
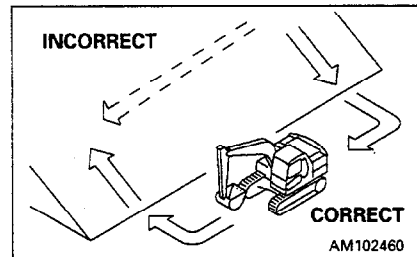
When turning right using counter-rotation, pull the right travel lever back and push the left travel lever forward.



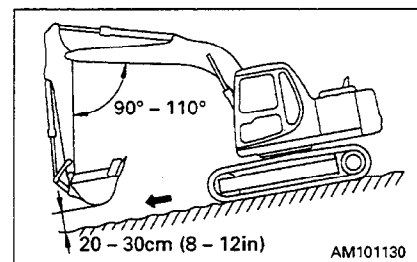
12.13 PRECAUTIONS WHEN TRAVELING UP OR DOWN HILLS

WARNING

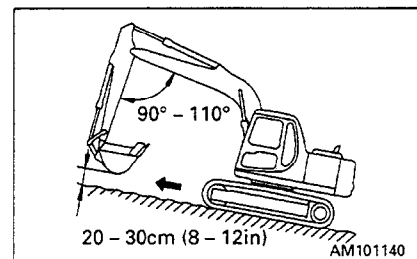
- When traveling, raise the bucket approx. 20 – 30 cm (8 – 12 in) from the ground.
Do not travel downhill in reverse.
- When traveling over ridges or other obstacles, keep the work equipment close to the ground and travel slowly.
- It is dangerous to turn on slopes or to travel across slopes. Always go down to a flat place to perform these operations. It may be longer, but it will ensure safety.
- If the machine starts to slide or loses stability, lower the bucket immediately and brake the machine.
- Turning or operating the work equipment when working on slopes may cause the machine to lose its balance and turn over, so avoid such operations. It is particularly dangerous to swing downhill when the bucket is loaded. If such operations have to be carried out, pile soil to make platform on the slope so that the machine can be kept horizontal when operating.
- Do not travel on slopes of over 30° as there is danger that the machine may overturn.



- 1) When traveling down steep hills, use the travel lever and fuel control lever to keep the travel speed low. When traveling down slopes of more than 15°, set the work equipment in the posture shown in the figure on the right, and lower the engine speed.



- 2) When traveling up a steep hill of more than 15°, set the work equipment in the posture shown in the diagram on the right.



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13. TRANSPORTATION

When transporting the machine, observe all related laws and regulations, and be careful to assure safety.

13.1 LOADING, UNLOADING WORK

⚠ WARNING

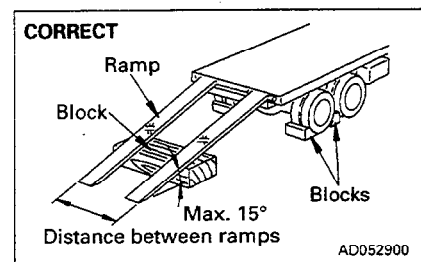
- Loading or unloading the machine can be a dangerous operation, so be particularly careful.
When loading or unloading the machine, run the engine at low idling and travel at low speed.
- Make sure the ramp has sufficient width, length and thickness to enable the machine to be safely loaded and unloaded. If the ramp sags appreciably, reinforce it with blocks, etc.
- When loading and unloading the machine, park the trailer on a flat firm roadbed. Keep a fairly long distance between the road shoulder and the machine.
- Remove the mud from the undercarriage to prevent the machine from slipping to the side on slopes. Be sure the ramp surface is clean and free of grease, oil, ice and loose materials.
- Never change the direction of travel when on the ramps. If it is necessary to change direction, drive off the ramps and correct the direction, then drive on to the ramps again.
- When turning the machine on the trailer, the machine's footing is unstable, so carry out the operation slowly.
- Always check that the door on the cab is locked, regardless of whether it is open or closed.
Do not open or close the door on ramps or on a platform. This may cause a sudden change in the operating force.
- When loading or unloading the machine with the automatic warming-up operation mode, if the automatic mode is released, the speed may change suddenly. Avoid loading or unloading during automatic warming-up operation.

When loading or unloading, always use ramps or a platform and carry out the operations as follows.

1. Properly apply the brakes on the trailer and insert blocks beneath the tires to ensure that it does not move. Then fix the ramps in line with the centers of the trailer and the machine. Be sure that the two sides are at the same level as one another.

Make the angle of the ramps a maximum of 15°.

Set the distance between the ramps to match the center of the tracks.

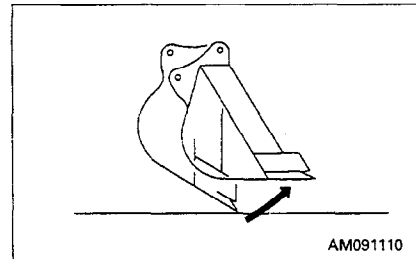
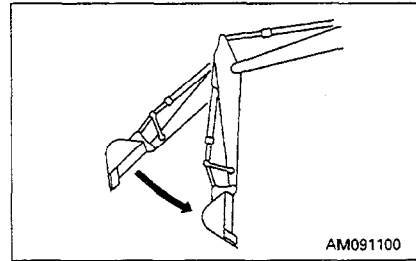


16. TROUBLESHOOTING

16.1 PHENOMENA THAT ARE NOT FAILURES

Note that the following phenomena are not failures:

1. When the arm is pulled in, the speed of movement will drop momentarily when the arm is more or less vertical.
2. The arm speed will drop momentarily when the bucket teeth are more or less horizontal.
3. When starting or stopping the swing, noise will be emitted from the brake valve.
4. When going down a steep slope at low speed, a noise will be emitted from the travel motor.



16.2 METHOD OF TOWING MACHINE

⚠ WARNING

When towing the machine, use a wire rope that has ample strength for the weight of the machine that is being towed.

If the machine sinks in mud and cannot get out under its own power, or if the drawbar pull of the excavator is being used to tow a heavy object, use a wire rope as shown in the diagram on the right. Place pieces of wood between wire ropes and body to prevent damage to ropes and body.

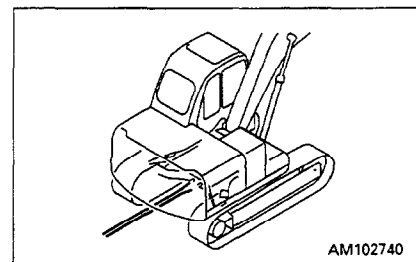
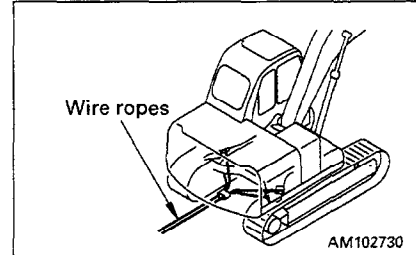
At this time, never use the hook for light-weight towing.

16.3 USING METHOD FOR LIGHT-WEIGHT TOWING HOOK

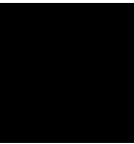
⚠ WARNING

- The shackle must always be used.
- Hold the rope level and direct it straight to the track frame.
- Move the machine slowly in the Lo mode.

The track frame has been equipped with a hook to pass the shackle for towing light objects.



MAINTENANCE



REMARK

- When fuel sulphur content is less than 0.5%, change oil in the oil pan every periodic maintenance hours described in this manual.
Change oil according to the following table if fuel sulphur content is above 0.5%.

Fuel sulphur content	Change interval of oil in engine oil pan
0.5 to 1.0%	1/2 of regular interval
Above 1.0%	1/4 of regular interval

- When starting the engine in an atmospheric temperature of lower than 0°C, be sure to use engine oil of SAE10W, SAE10W-30 and SAE15W-40, even though an atmospheric temperature goes up to 10°C more or less in the day time.
- Use API classification CD as engine oil and if API classification CC, reduce the engine oil change interval to half.
- There is no problem if single grade oil is mixed with multigrade oil (SAE10W-30, 15W-40), but be sure to add single grade oil that matches the temperature in the table.
- We recommend Komatsu genuine oil which has been specifically formulated and approved for use in engine and hydraulic work equipment applications.

Specified capacity: Total amount of oil including oil for components and oil in piping.

Refill capacity: Amount of oil needed to refill system during normal inspection and maintenance.

ASTM: American Society of Testing and Material

SAE: Society of Automotive Engineers

API: American Petroleum Institute

24. SERVICE PROCEDURE

24.1 INITIAL 250 HOURS SERVICE

Carry out the following maintenance only after the first 250 hours.

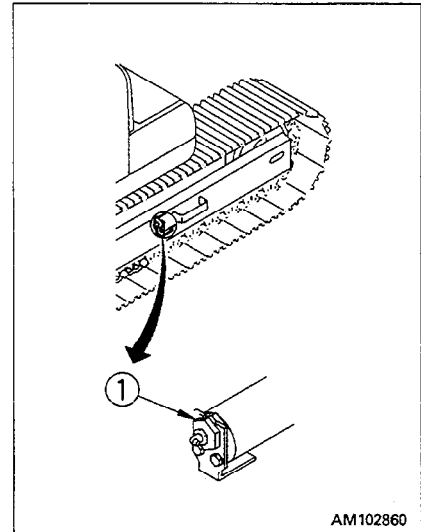
- **REPLACE FUEL FILTER CARTRIDGE**
- **CHECK ENGINE VALVE CLEARANCE, ADJUST**

For details of the method of replacing or maintaining, see the section on EVERY 500 HOURS and 2000 HOURS SERVICE.

When loosening tension**⚠ WARNING**

It is extremely dangerous to release the grease by any method except the procedure given below. If the track tension is not relieved by this procedure, please contact your Komatsu distributor.

1. Loosen lubricator ① gradually to release the grease.
2. Turn lubricator ① a maximum of one turn.
3. If the grease does not come out smoothly, move the machine backwards and forwards a short distance.
4. Tighten lubricator ①.
5. To check that the correct tension has been achieved, move the machine backwards and forwards.
6. Check the track tension again, and if the tension is not correct, adjust it again.

**24.2.5 CHECK ELECTRICAL INTAKE AIR HEATER**

Before the start of the cold season (once a year), contact your Komatsu distributor to have the electrical intake air heater repaired or checked for dirt or disconnections.

24.3.3 CHECK FUEL LEVEL, ADD FUEL

WARNING

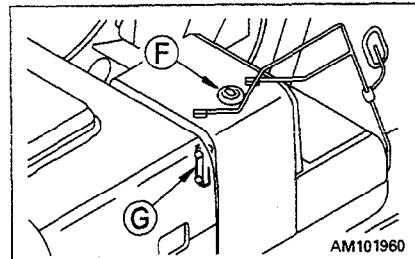
When adding fuel, never let the fuel overflow. This may cause a fire. If spilling fuel, thoroughly clean up any spillage.

1. Open the pump room door on the right side of the machine and use sight gauge ⑥ on the rear face of the fuel tank to check that the tank is full.
2. If the fuel level is not within the sight gauge, add fuel through filler port ⑤, while watching sight gauge ⑥.

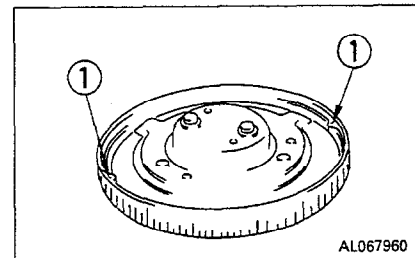
Fuel capacity: 240 ℓ (63.4 US gal, 52.8 UK gal)

For details of the fuel to use, see "20. USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE".

3. After adding fuel, tighten the cap securely.

**REMARK**

If breather hole ① on the cap is clogged, the pressure in the tank will drop and fuel will not flow. Clean the hole from time to time.



24.6.3 CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE

Perform this maintenance every 500 hours on machines equipped with bypass filter.

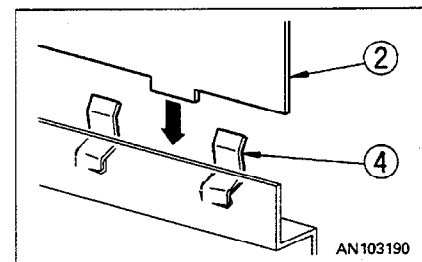
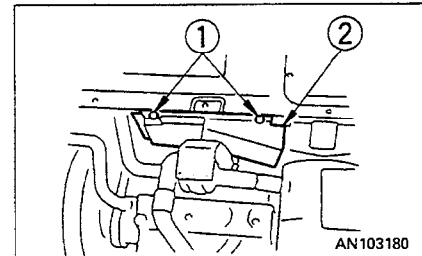
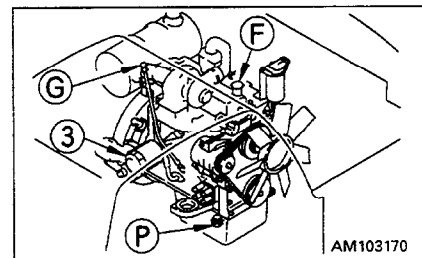
WARNING

The oil is at high temperature after the engine has been operated, so never change the oil immediately after finishing operations. Wait for the oil to cool down before changing it.

Prepare the following

- Container to catch drained oil: Min 11 ℓ capacity
- Refill capacity: 11 ℓ (2.9 US gal, 2.4 UK gal)
- Filter wrench

1. Remove the cover on the bottom of the machine.
2. Place a drain container under drain plug **P** located on the bottom of the machine.
3. Loosen drain plug **P** slowly to avoid getting oil on yourself, and drain the oil.
4. Check the drained oil, and if there are excessive metal particles or foreign material, please contact your Komatsu distributor.
5. Install drain plug **P**.
6. Open the engine hood, remove 2 locks **①**, then hold the handle and remove cover **②**.
7. Using a filter wrench from the top of the engine, turn filter cartridge **③** to the left. A large amount of oil will come out if this is done immediately after the engine is stopped, so wait for 10 minutes before carrying out this operation.
8. Clean the filter holder, coat the seal surface of the new filter cartridge with engine oil (or coat it thinly with grease), then install it.
9. When installing, bring the packing surface into contact with the seal surface of the filter holder, then tighten it at least a further 1/2 turn.
10. When installing cover **②**, fit it to the 2 catches **④**, then install it with the locks **①**.



24.8 EVERY 1000 HOURS SERVICE

Maintenance for every 100, 250 and 500 hours should be carried out at the same time.

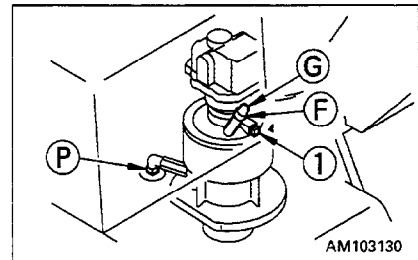
24.8.1 CHANGE OIL IN SWING MACHINERY CASE

⚠ WARNING

The oil is at high temperature immediately after the machine has been operated. Wait for the oil to cool down before carrying out maintenance.

- Container to catch drained oil: Min. 2.5 ℓ capacity
- Refill capacity: 2.5 ℓ (0.66 US gal, 0.55 UK gal)

1. Set an oil container under drain plug **(P)** under the machine body.
2. Remove drain plug **(P)** under the body, drain the oil, then tighten the drain plug again. Tightening torque of the drain plug: 98-185 Nm (10 - 19 kgm, 72 - 137 lbft)
3. Remove dipstick **(G)** and bleeding plug **(1)**.
Add the specified amount of engine oil through gauge hole **(F)**.



For details of the oil to use, see "20. USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE".

4. After refilling, install bleeding plug **(1)**.
5. Wipe off oil on the dipstick with a cloth.
6. Insert dipstick **(G)** into the gauge pipe thoroughly and then pull out it again.
7. When the oil level is between the H and L marks, on dipstick **(G)**, it is normal. If the oil does not reach the L mark, add more oil through oil filler **(F)**.
8. If the oil level exceeds the H mark, drain the excess engine oil from drain plug **(P)**, and check the oil level again.

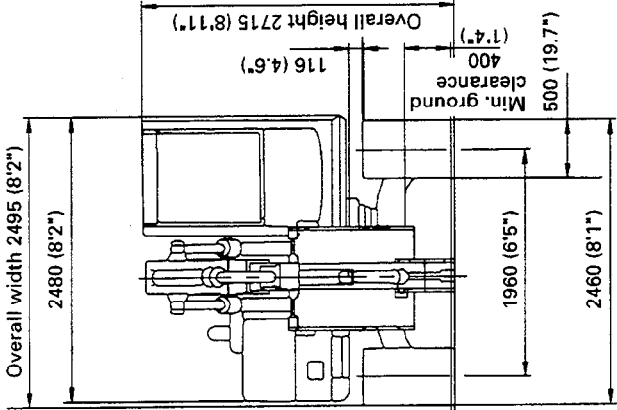
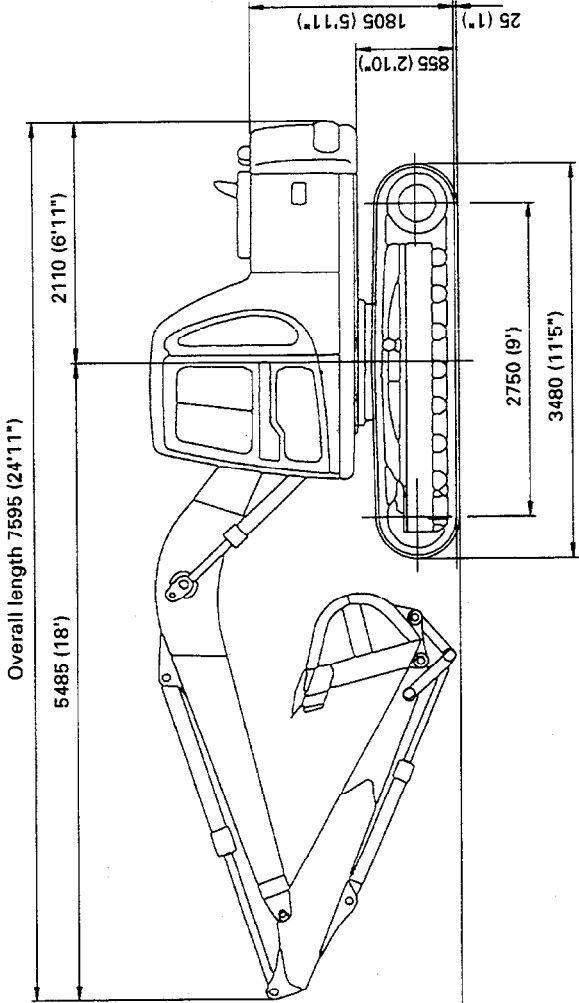
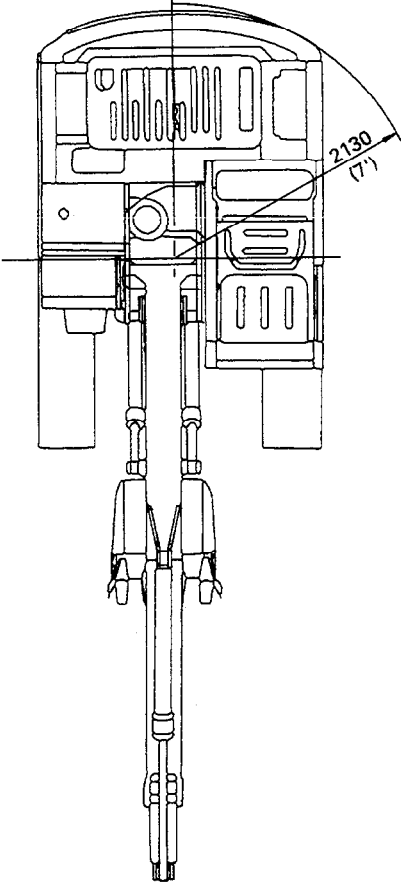
24.10 EVERY 4000 HOURS SERVICE

Maintenance for every 100, 250, 500, 1000 and 2000 hours should be carried out at the same time.

24.10.1 CHECK WATER PUMP

Check that there is oil leakage, water leakage, or clogging of the drain hole. If any abnormality is found, contact your Komatsu distributor for disassembly and repair or replacement.

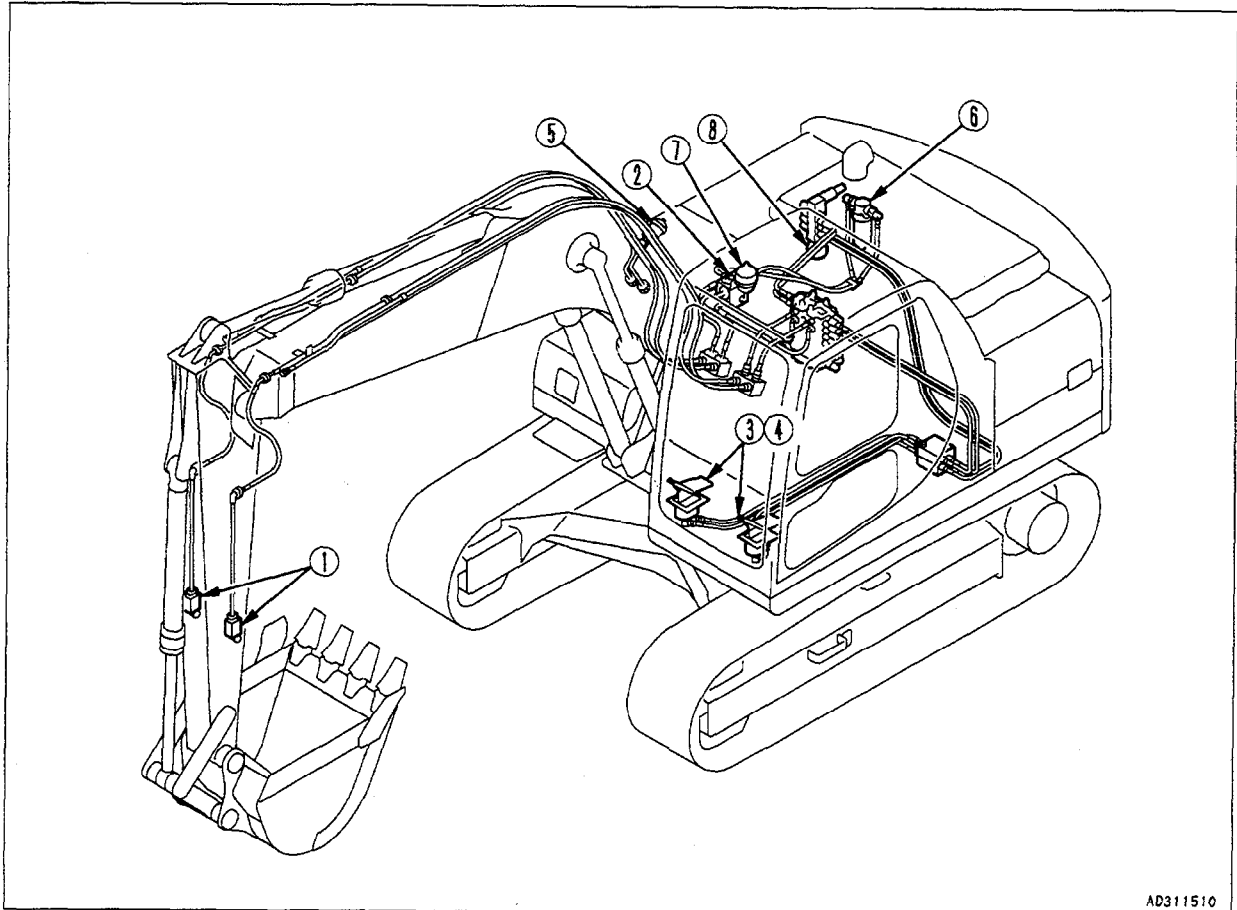
PC130-6 MIGHTY



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30. MACHINES READY FOR ATTACHMENTS

30.1 GENERAL LOCATIONS



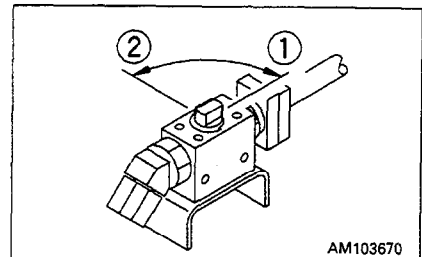
1. STOP VALVE

This valve stops the flow of the hydraulic oil.

① FREE : Hydraulic oil flows.

② LOCK: Hydraulic oil stops.

When removing or installing attachments, set this valve to the LOCK position.

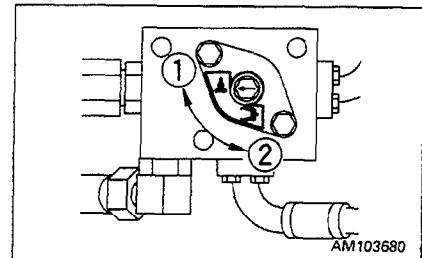


2. SELECTOR VALVE

This switches the flow of the hydraulic oil.

Position ①: When breaker is used

Position ②: When general attachment is used (crusher, etc.)



31.2 ATTACHMENT INSTALLATION COMBINATION TABLE

This table lists the combination of attachments which can be installed to the standard arm, short arm and long arm.

○ : Can be used

△ : Can be used only for light duty work

x : Cannot be used

NOTICE

When a long arm is installed, if the bucket is pulled in fully to the front of the machine it may hit the chassis; when digging at an angle, the bucket may hit the undercarriage, so be careful when carrying out these operations.

Categories of use

For general digging: digging or loading sand, gravel, clay etc.

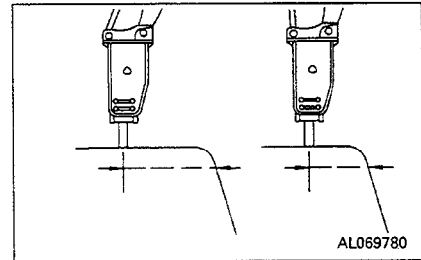
For light duty digging: digging or loading dry, uncaked soil and sand, mud etc.

For loading work: loading dry, loose soil and sand

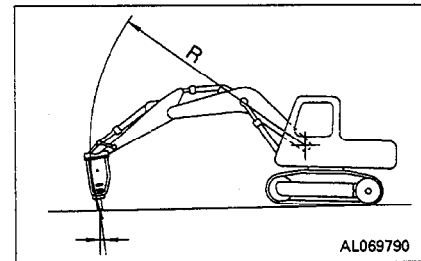
- For digging or loading hard soil or soft rock, it is recommended that the strengthened bucket with high durability and high wear resistance be employed.

Name	Tooth mounting pin	Capacity (m ³) SAE/CECE	Outside width (bucket body) (mm)	Outside width (side cutter) (mm)	Model			Use	Standard arm	Short arm	Long arm
					PC100 PC100L	PC120	PC130				
Narrow bucket	Vertical	0.18/0.16	450 (18")	570 (22")	OPT.	OPT.	-	Narrow digging	○	○	○
Narrow bucket	Vertical Horizontal	0.28/0.26	600 (24")	720 (28")	OPT. OPT.	OPT. OPT.	- -	Narrow digging	○	○	○
Narrow bucket	Vertical Horizontal	0.36/0.33	700 (28")	820 (32")	OPT. OPT.	OPT. OPT.	- -	Narrow digging	○	○	○
Standard bucket	Vertical Horizontal	0.44/0.40	833 (33")	953 (38")	Standard OPT.	- -	- -	General digging	○	○	x
Strengthened bucket	Vertical Horizontal	0.44/0.40	833 (33")	953 (38")	OPT. OPT.	- -	- OPT.	Heavy duty digging	○	○	x
Standard bucket	Vertical Horizontal	0.50/0.45	859 (34")	979 (39")	- -	Standard OPT.	- -	General digging	○	○	x
Strengthened bucket	Vertical Horizontal	0.50/0.45	859 (34")	979 (39")	- -	OPT. OPT.	- Standard	Heavy duty digging	○	○	x
Light duty bucket	Vertical Horizontal	0.55/0.50	1000 (39")	-	OPT. OPT.	- -	- -	Loading	△	△	x
Light duty bucket	Vertical	0.60/0.55	1000 (39")	-	-	OPT.	-	Loading	△	△	x

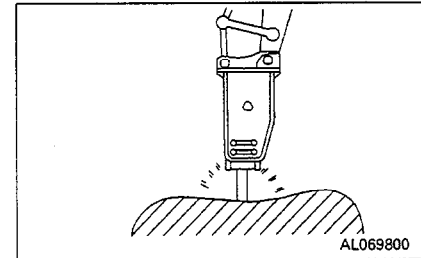
When applying continuous impact to the same impact surface, if the chisel does not penetrate or break the surface within 1 minute, change the point of impact and carry out breaking operations closer to the edge.



The direction of penetration of the chisel and the direction of the breaker body will gradually move out of line with each other, so always adjust the bucket cylinder to keep them aligned.



Always keep the chisel pressed against the impact surface properly to prevent using the impact force when there is no resistance.

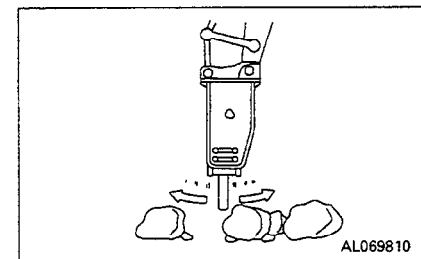


MISTAKEN METHODS OF USE

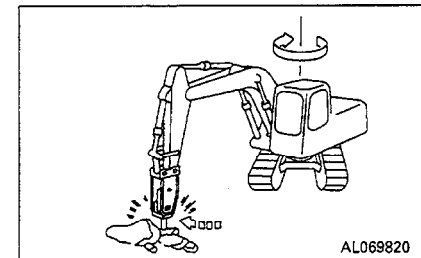
To ensure that the machine has a long life, and to ensure that operations are carried out in safety, do not operate the machine in any of the following ways.

- Do not operate the cylinder to the end of its stroke.
Always leave approx. 5 cm (2 in) to spare.

Using the mount to gather in pieces of rock



Operations using the swing force



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