TEN00166-01

Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

GALEO

PC130-7

SERIAL NUMBERS 71994 and up

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. if a foreign language manual is necessary, contact your local distributor for availability.

⚠ WARNING

Unsafe Use of this machine may cause serious injury or Death.Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

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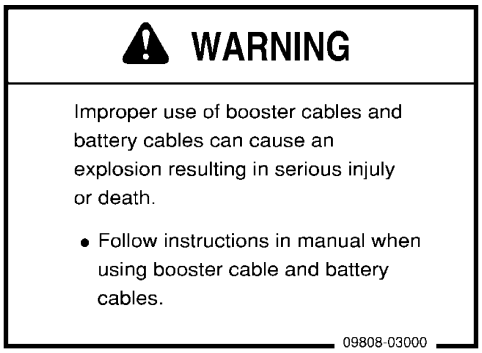

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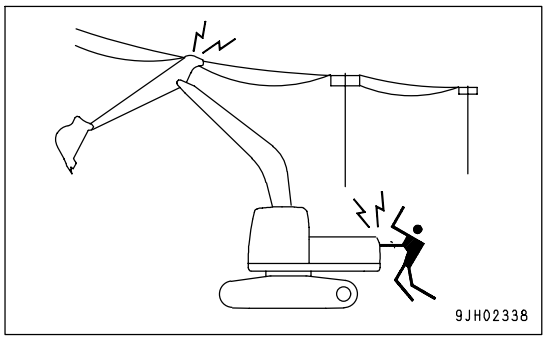
DISTANCE TO HIGH VOLTAGE CABLES

Do not travel or operate the machine near electric cables. There is a hazard of electric shock, which may cause serious injury or property damage. On jobsites where the machine may go close to electric cables, always do as follows.

- Before starting work near electric cables, inform the local power company of the work to be performed, and ask them to take the necessary action.



- Even going close to high-voltage cables can cause electric shock, which may cause serious burns or even death. Always maintain a safe distance (see the table on the right) between the machine and the electric cable. Check with the local power company about safe operating procedure before starting operations.
- To prepare for any possible emergencies, wear rubber shoes and gloves. Lay a rubber sheet on top of the seat, and be careful not to touch the chassis with any exposed part of your body.
- Use a signalman to give warning if the machine approaches too close to the electric cables.
- When carrying out operations near high voltage cables, do not let anyone near the machine.

Voltage of Cables	Safety Distance
100 V - 200 V	Over 2 m (7 ft)
6,600 V	Over 2 m (7 ft)
22,000 V	Over 3 m (10 ft)
66,000 V	Over 4 m (14 ft)
154,000 V	Over 5 m (17 ft)
187,000 V	Over 6 m (20 ft)
275,000 V	Over 7 m (23 ft)
500,000 V	Over 11 m (36 ft)

- If the machine should come too close or touch the electric cable, to prevent electric shock, the operator should not leave the operator's compartment until it has been confirmed that the electricity has been shut off. Also, do not let anyone near the machine.

ENSURE GOOD VISIBILITY

This machine is equipped with mirrors to improve the visibility, but even with mirrors, there are places, which cannot be seen from the operator's seat, so always be careful when operating.

When operating or traveling in places with poor visibility, if it is impossible to confirm the condition of the job side or obstacle is in the area around the machine, there is danger that the machine may suffer damage or the operator may suffer serious personal injury. When operating or traveling in places with poor visibility, always observe the following items strictly.

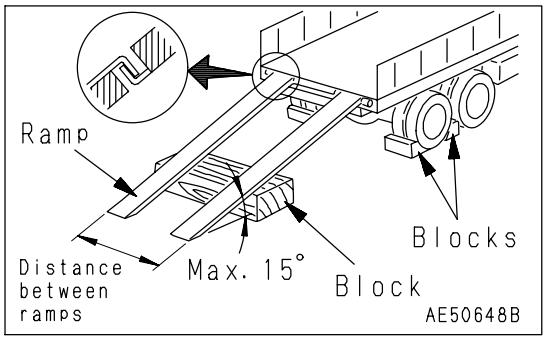
- If the visibility cannot be sufficiently assured, position a flagman if necessary. The operator should pay careful attention to the signs and follow the instructions of the flagman.
- The signals should be given only by one flagman.
- When working in dark places, turn on the working lamps and front lamps of the machine, and if necessary, set up additional lighting in the area.
- Stop operations if there is poor visibility, such as in fog, snow, rain, or sand storms.
- Check the mirrors on the machine before starting operations every day. Clean off any dirt and adjust the view to ensure good visibility.

TRANSPORTATION

The machine can be divided into parts for transportation, so when transportating the machine, please contact your Komatsu distributor to have the work carried out.

LOADING AND UNLOADING

When loading or unloading the machine, mistaken operation may bring the hazard of the machine tipping over or falling, so particular care is necessary. Always do as follows.



- Perform loading and unloading on firm, level ground only. Maintain a safe distance from the edge of the road or cliff.
- Never use the work equipment to load or unload the machine. There is danger that the machine may fall or tip over.
- Always use ramps of adequate strength. Be sure that the ramps are wide, long, and thick enough to provide a safe loading slope. Take suitable steps to prevent the ramps from moving out of position or coming off.
- Be sure the ramp surface is clean and free of grease, oil, ice and loose materials. Remove dirt from machine-tracks. On a rainy day, in particular, be extremely careful since the ramp surface is slippery.
- Turn the auto-decelerator switch OFF (auto-deceleration function released).
- Run the engine at low speed and travel slowly.
- When on the ramps, do not operate any lever except for the travel lever.
- Never correct your steering on the ramps. If necessary, drive off the ramps, correct the direction, then enter the ramps again.
- The center of gravity of the machine will change suddenly at the joint between the ramps and the track or trailer, and there is danger of the machine losing its balance. Travel slowly over this point.
- When loading or unloading to an embankment or platform, make sure that it has suitable width, strength, and grade.
- When swinging the upper structure on the trailer, the trailer is unstable, so pull in the work equipment and swing slowly.
- For machines equipped with a cab, always lock the door after boarding the machine. If this is not done, the door may suddenly open during transportation.
  Refer to "TRANSPORTATION (PAGE 3-107)".

SHIPPING THE MACHINE

When shipping the machine on a trailer, do as follows.

- The weight, transportation height, and overall length of the machine differ according to the work equipment, so be sure to confirm the dimensions.
- When passing over bridges or structures on private land, check first that the structure is strong enough to support the weight of the machine. When traveling on public roads, check first with the relevant authorities and follow their instructions.
- For details of the shipping procedure, see "TRANSPORTATION (PAGE 3-107)" in the OPERATION section.

WELDING WORKS

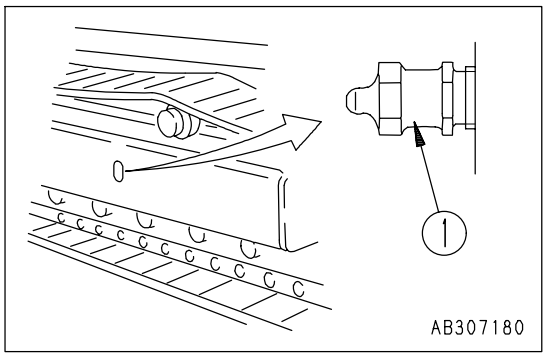
Welding operations must always be carried out by a qualified welder and in a place equipped with proper equipment. There is a hazard of gas, fire, or electrocution when carrying out welding, so never allow any unqualified personnel to carry out welding.

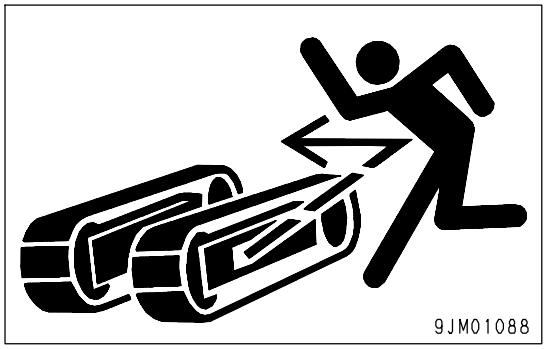
REMOVING BATTERY TERMINALS

When repairing or welding the electrical system, wait for approx. one minute after turning off the engine starting switch key, and then disconnect the negative (-) terminal of the battery to stop the flow of electricity.

SAFETY FIRST WHEN USING HIGH-PRESSURE GREASE TO ADJUST TRACK TENSION

- Grease is pumped into the track tension adjustment system under high pressure.
  If the specified procedure for maintenance is not followed when making adjustment, grease drain plug (1) may fly out and cause serious injury or property damage.
- When loosening grease drain plug (1) to loosen the track tension, never loosen it more than one turn. Loosen the grease drain plug slowly.
- Never put your face, hands, feet, or any other part of your body close to grease drain plug (1).



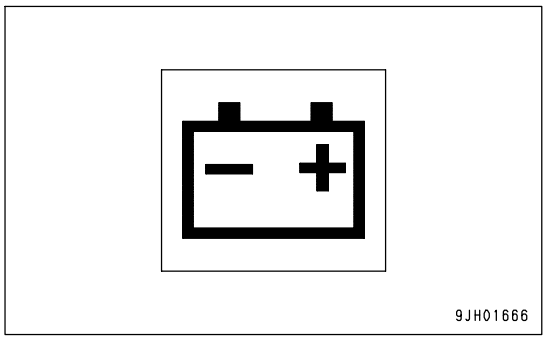


DO NOT DISASSEMBLE RECOIL SPRINGS

Never attempt to disassemble the recoils spring assembly. It contains a spring under high pressure which serves as a shock absorber for the idler. If it is disassembled by mistake, the spring will fly out and cause serious injury. When it becomes necessary to disassemble it, ask your Komatsu distributor to do the work.

Charge Level Monitor

This monitor (1) flashes if the battery is not being properly charged when the engine is running.
If it flashes, check the V-belt for looseness. If any problem is found, take the action given in "OTHER TROUBLE (PAGE 3-128)".

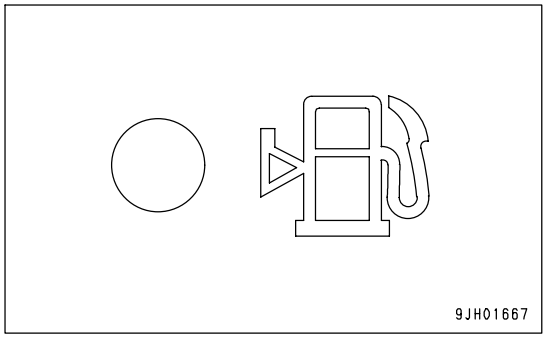


REMARK

- When the starting switch is ON, the lamp stays lighted up. After the engine starts, it goes out.
- When the starting switch is ON, and the engine is started or stopped, the lamp may light up momentarily and the buzzer may sound, but this does not indicate any problem.

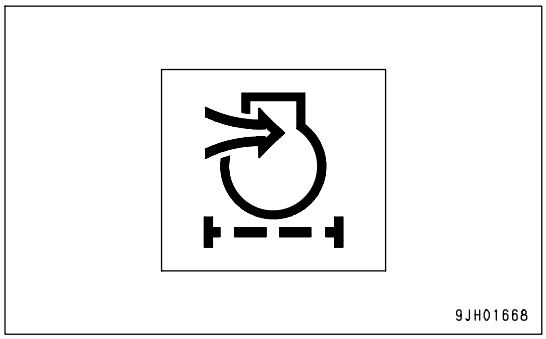
Fuel Level Monitor

This monitor (2) warns the operator the reduced fuel level in the fuel tank is low.
When the remaining oil level drops to approx. 46 liters (12.15 US gal), this monitor flashes, add fuel as soon as possible.



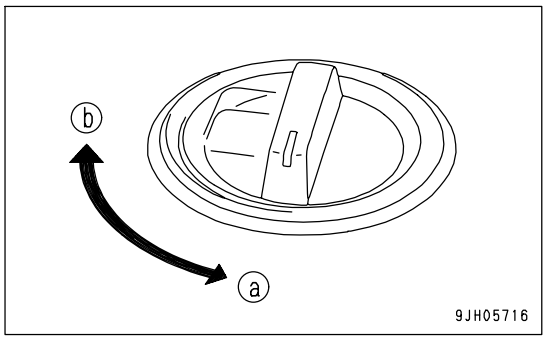
Air Cleaner Clogging Monitor

This monitor (3) warns the operator the air cleaner is clogged.
If the monitor lamp flashes, stop the engine, then inspect and clean the air cleaner.



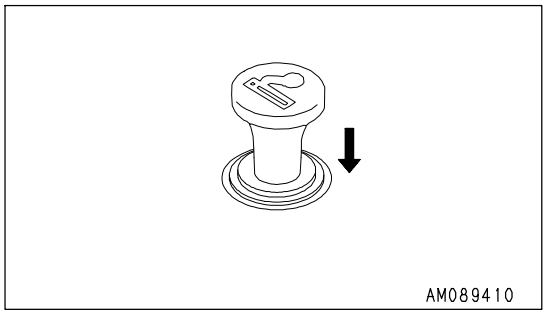
Fuel Control Dial

This dial (2) adjusts the engine speed and output.
(a) Low idle (MIN): Turned fully to the left
(b) Full speed (MAX): Turned fully to the right



Cigarette Lighter

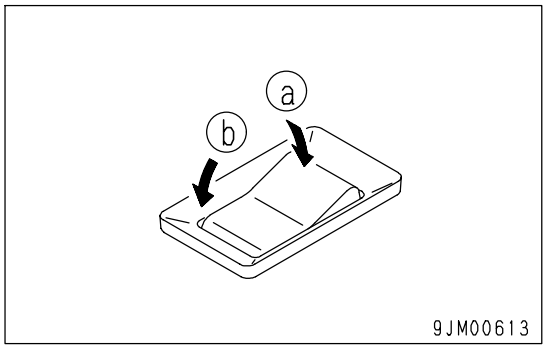
This switch (3) is used to light cigarettes. To use, push the lighter in. After a few seconds it will spring back.
Pull out the lighter and light your cigarette.
By removing the cigarette lighter, the socket is available as a power source for the yellow flashing lamp. Max. current is 3.5 A (85 W).



Swing Lock Switch

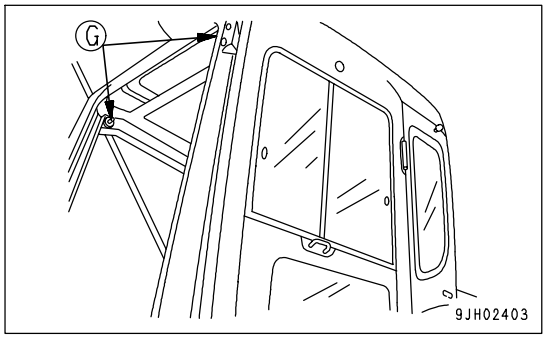
WARNING

- **When not using the swing operation, e.g. when traveling, put the swing lock switch to the OFF position.**
- **On slopes, even when the swing lock switch is at the ON position, the weight of the work equipment may cause the upper structure to swing if the swing control lever is operated in the downhill direction.**

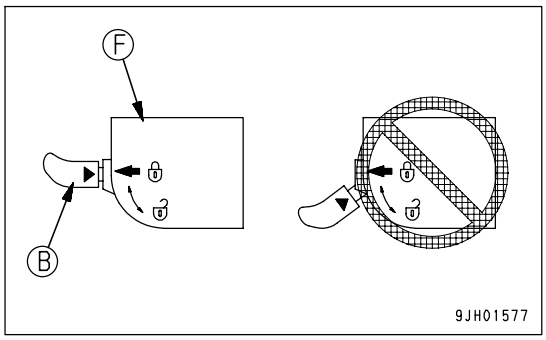


Switch (4) is used to lock the upper structure so it will not swing.
(a) ON position: The swing lock is always applied, and the upper structure will not swing even if the swing is operated. In this condition, the swing lock lamp lights up.
(b) OFF position: The swing lock is applied only when the swing control lever is in the neutral position, and released when operating the swing control lever. The swing lock is actuated in 7 seconds after putting the swing control lever in the neutral position.

5. When the bottom of the window reaches the top of the bottom window, push the top of the window to the front to push it against left and right lock catches (G) and engage the lock.

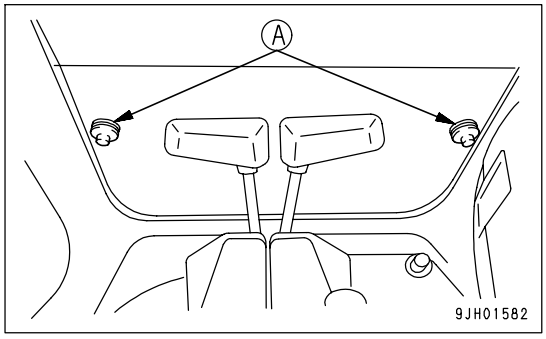


6. Check that lock lever (B) is securely in the LOCK position.
   - The lock is engaged if the arrow on lock case (F) matches the position of the arrow on lock lever (B). Check visually.
   - If the arrow on lock case (F) does not match the position of the arrow on lock lever (B), the lock is not engaged. Repeat the operation in Step 5 to engage the lock.

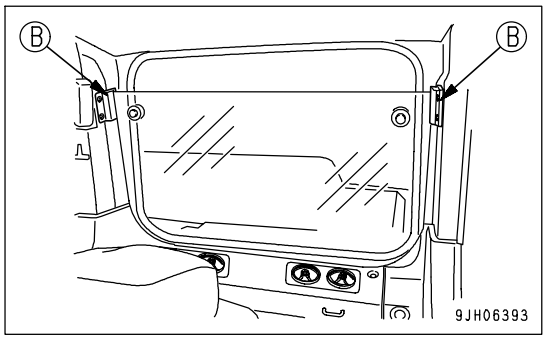


Removing Lower Windshield

1. Open the front window, then hold grip (A), pull up, and remove the bottom window.



2. After removing the bottom window, store it at the rear of the operator's cab and lock it securely with left and right locks (B).
   - When removing, always hold the glass with one hand and release the lock with the other hand.

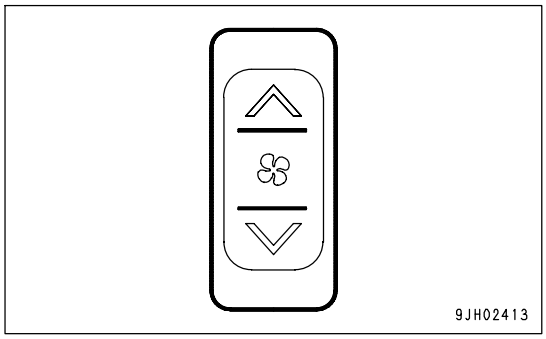


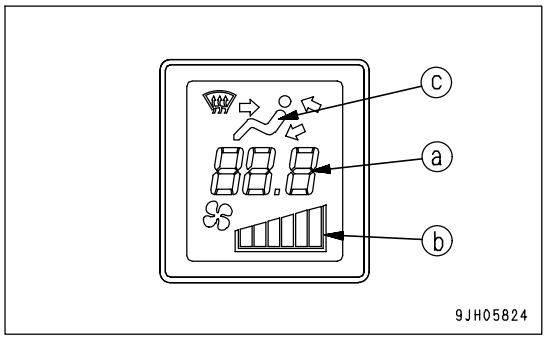
Stopping Automatic Operation

Press OFF switch (1). The displays for temperature setting (a) and air flow (b) on monitor (7), and lamps above auto switch (5) and air conditioner switch (8) go out, the operation stops.

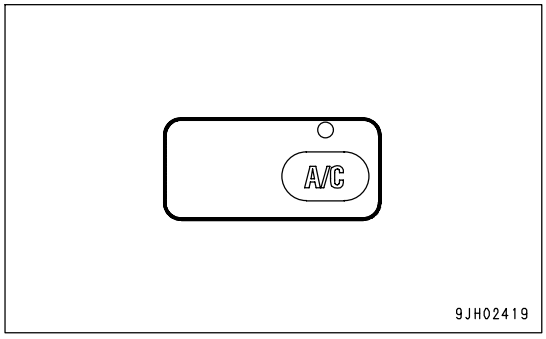
Manual Operation

1. Press fan switch (2) and adjust the air flow. When doing this, check that temperature setting (a) and air flow (b) are displayed on monitor (7).



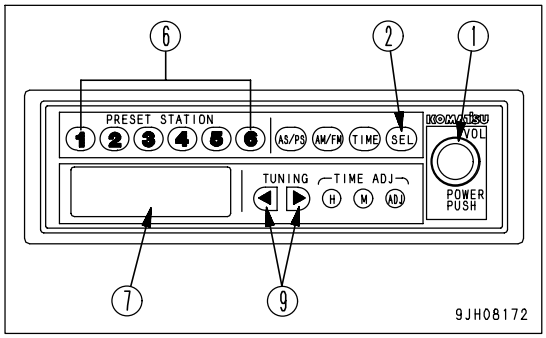


2. Turn air conditioner switch (8) ON. Check that the lamp above air conditioner switch lights up.



Controls of Radio

Method of Setting with Preset Button



1. Press power switch (1) and display the frequency on display (7).
2. Use tuning button (9) to set to the desired frequency. There are two methods for tuning: auto tuning and manual tuning.
3. With the display (7) showing the desired frequency, keep the desired Preset button No pressed for at least 1.5 seconds. The reception sound will disappear, but when the presetting operation (saving to memory) is completed, the sound will appear again and the Preset No and frequency will be shown on the display to show that the presetting operation has been completed.
   After completing the presetting, press Preset button (6) and release it within approx. 1.5 seconds. This will make it possible to receive the channel preset to that button. One channel each for AM and FM can be preset to each Preset button.

REMARK
It is also possible to save to the Preset button by using the auto store button.

Method of Tuning

1. Press power switch (1) and display the frequency on display (7).
2. Use tuning button (9) to set to the desired frequency. There are two methods for tuning: auto tuning and manual tuning.

• Manual tuning

Press tuning button (9) until the frequency is displayed on display (7).
< button: Frequency moves down
> button: Frequency moves up
When the frequency reaches the top or bottom frequency, it automatically continues as follows: Top → Bottom, or Bottom → Top.

• Auto tuning

Press tuning button (9) for at least 3 seconds. When a station is picked up, the tuning automatically stops. To search for the next station, press the tuning button again for at least 3 seconds.
< button: Frequency moves down
> button: Frequency moves up
If this button is pressed during auto tuning, the auto tuning will be cancelled and the setting will return to the frequency in use before the button was pressed.

Checks Before Starting

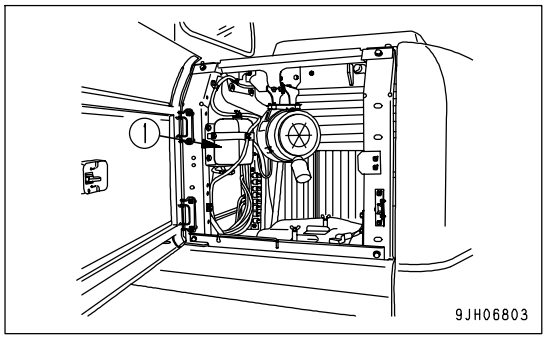
Always check the items in this section before starting the engine each day.

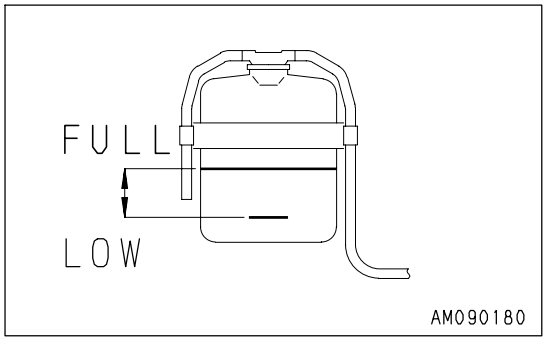
Check Coolant Level, Add Coolant

⚠ WARNING

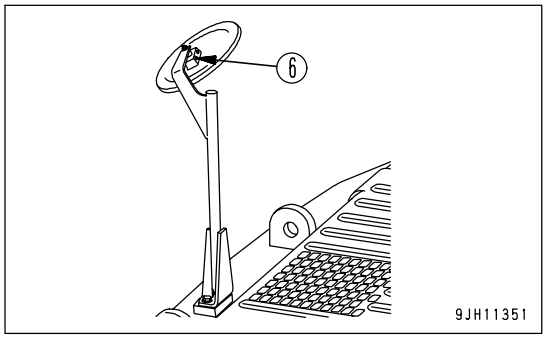
- **Do not open the radiator cap unless necessary. When checking the coolant, always wait for the engine to cool down and check the sub tank.**
- **Immediately after the engine is stopped, the coolant is at a high temperature and the radiator is under high internal pressure. If the cap is removed to check the coolant level in this condition, there is a hazard of burns. Wait for the temperature to go down, then turn the cap slowly to release the pressure and remove it carefully.**

1. Open the door at the rear left of the machine, and check if the coolant in sub-tank (1) (shown in the diagram on the right) is between the FULL and LOW marks. If the coolant level is low, add coolant to the FULL level through the filler port of sub-tank (1).
2. After adding coolant, tighten the cap securely.
3. If the sub-tank (1) is empty, there is probably leakage of coolant. After inspecting, repair any problem immediately. If there is no problem, check the coolant level in the radiator. If the coolant level is low, add coolant to the radiator, then fill the sub-tank (1).

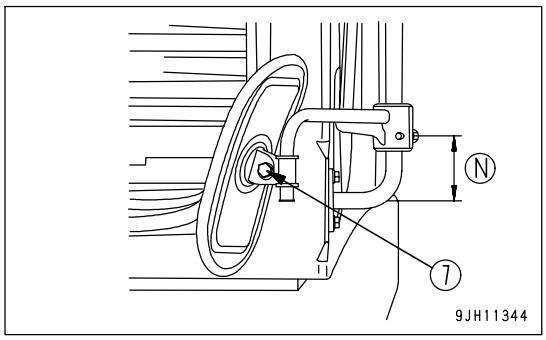




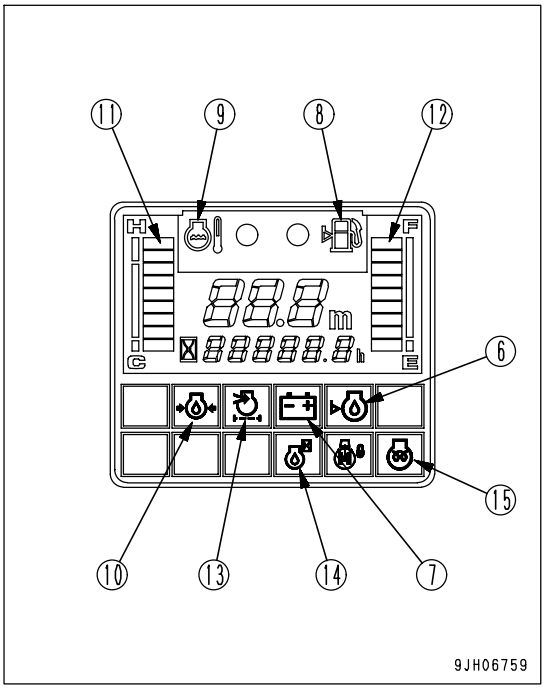
- If side view mirror (D) does not move smoothly when adjusting its angle, loosen mirror securing screw (6).
  Tightening torque of screw (6): 0.98 - 1.47 Nm
  (0.10 - 0.15 kgm , 0.7 - 1.1 lbft)

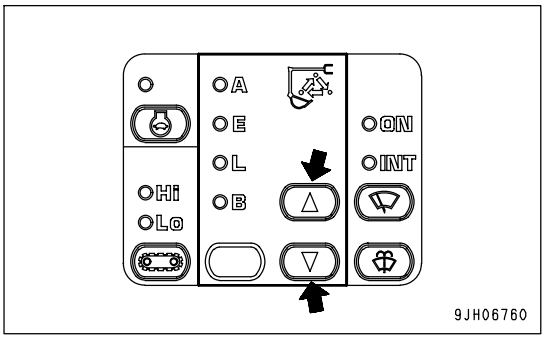


- Install the side view mirror (E) in the location indicated in the figure at right.
  (N): 85 mm (3.3 in)
- If the side view mirror (E) does not move smoothly when adjusting its angle, loosen mirror securing bolt (7).
  Tightening torque of bolt (7): 7.85 - 9.81 Nm
  (0.8 - 1.0 kgm , 5.8 - 7.2 lbft)



5. After the warming-up operation is completed, check that each gauge and monitor lamp is in the following condition:
   - Engine oil level monitor (6): Is it lighted up?
   - Charge level monitor (7): Is it lighted up?
   - Fuel level monitor (8): Is it lighted up?
   - Engine coolant temperature monitor (9): OFF
   - Engine oil pressure monitor (10): ON
   - Engine coolant temperature gauge (11): Is it in green range?
   - Fuel gauge (12): Is it in green range?
   - Air cleaner clogging monitor (13): Is it lighted up?
   - Engine oil change monitor (14): Is it lighted up?
   - Engine pre-heating monitor (15): Is it lighted up?
6. Check for abnormal exhaust gas color, noise, or vibration. If any problem is found, contact your Komatsu distributor.
7. If air cleaner clogging monitor (13) is lighted up, clean or replace the element immediately.
   For details of the method of cleaning the element, see "CHECK, CLEAN AND REPLACE AIR CLEANER ELEMENT (PAGE 4-18)".
8. Use the working mode switch on monitor panel (16) to select the working mode to be used.





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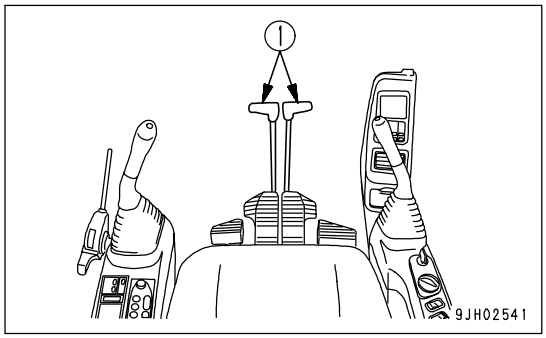
STEERING THE MACHINE

Steering

WARNING

Before operating the travel levers, check the direction of the track frame (the position of the sprocket). If the sprocket is at the rear, the machine moves in the reverse direction to the operation of the travel levers.

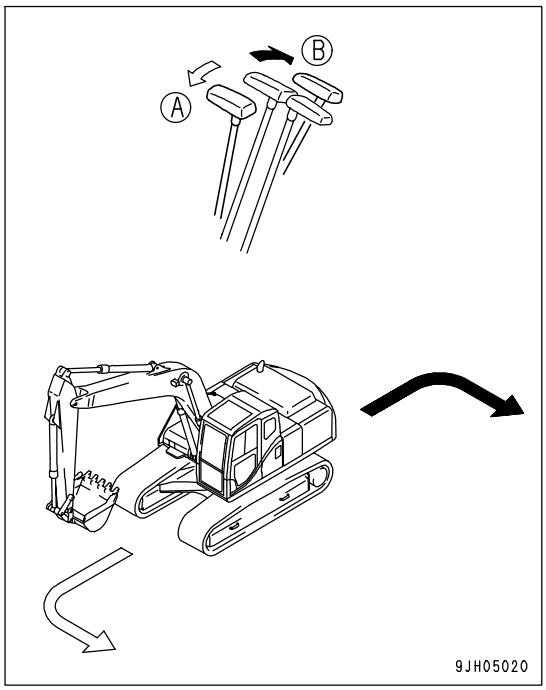
Use the travel levers to change direction.
Avoid sudden changes of direction as much as possible. Especially when performing counter-rotation (spin turn), stop the machine before turning.
Operate two travel levers (1) as follows.



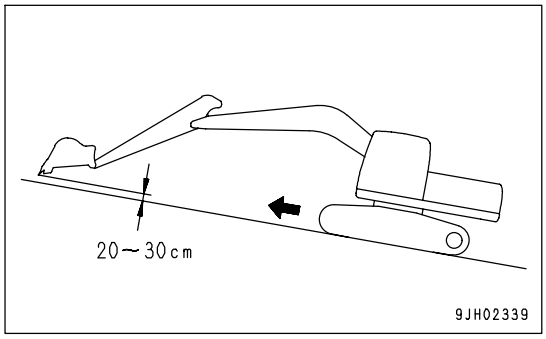
Steering the Machine when Stopped

When turning to the left:
Push the right travel lever forward to turn to the left when traveling forward; and pull it back to turn left when traveling in reverse.
(A): Forward left turn
(B): Reverse left turn

REMARK
When turning to the right, operate the left travel lever in the same way.



- When traveling up a steep slope, extend the work equipment to the front to improve the balance, keep the work equipment approximately 20 to 30 cm (8 to 12 in) above the ground, and travel at low speed.



Traveling Downhill

Put the travel lever in the neutral position. This will cause the brake to be automatically applied.

Engine Stopped on Slope

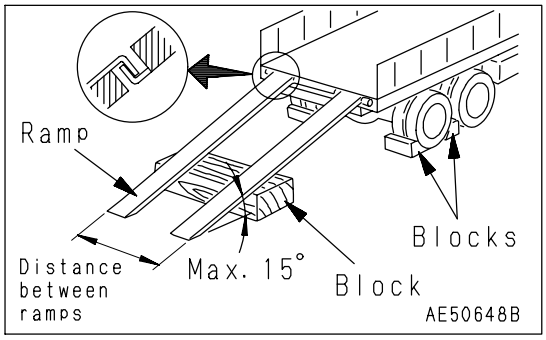
If the engine stops when traveling uphill, move the travel levers to the neutral position, lower the bucket to the ground, stop the machine, then start the engine again.

Cab Doors on Slope

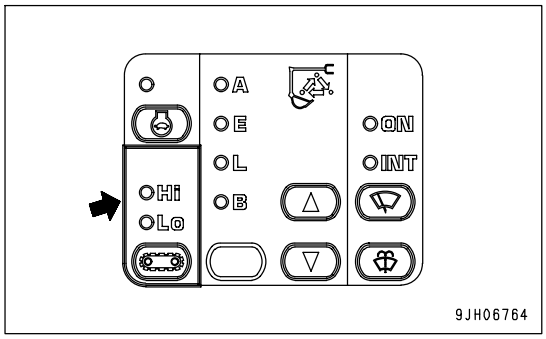
- If the engine stops when the machine is on a slope, never use the left work equipment control lever to carry out swing operations. The upper structure will swing under its own weight.
- Do not open or close the door when the machine is on a slope. The operating effort may suddenly change. Always keep the door locked in position when it is open and when it is closed.

Loading

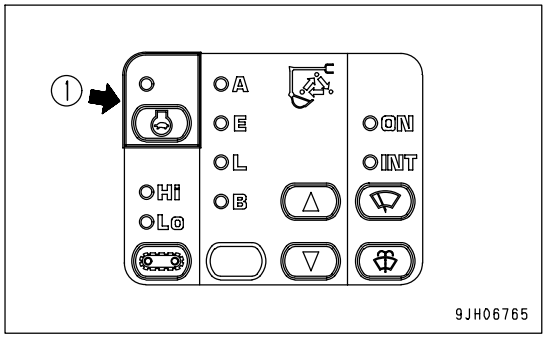
1. Load and unload on firm level ground only.
   Maintain a safe distance from the edge of a road.
2. Properly apply the brakes on the trailer and put blocks under the tires to ensure that the trailer does not move.
   Make the slope of the ramps a maximum of 15°.



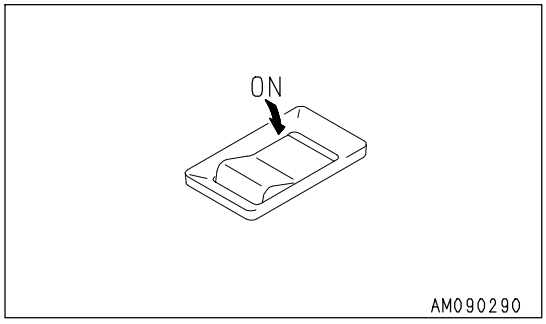
3. Set the travel speed switch to the Lo position.



4. Turn auto-deceleration switch (1) OFF and operate the fuel control dial to set the engine speed to low idle.



5. Turn the swing lock switch ON to apply the swing lock.



Battery

WARNING

- **The battery generates flammable gas. Do not bring fire or sparks near the battery.**
- **Battery electrolyte is dangerous. If it gets in your eyes or on your skin, wash it off with a large amount of water and consult a doctor.**
- **Battery electrolyte dissolves paint. If it gets on the bodywork, wash it off immediately with water.**
- **If the battery electrolyte is frozen, do not charge the battery or start the engine with a different power source. There is danger that the battery may explode.**
- **Battery electrolyte is toxic. Do not let it flow into drainage ditches or spray it on to the ground surface.**

When the ambient temperature drops, the capacity of the battery will also drop. If the battery charge ratio is low, the battery electrolyte may freeze. Maintain the battery charge as close as possible to 100%. Insulate it against cold temperature to ensure the machine can be started easily the next morning.

REMARK
Measure the specific gravity and calculate the charging rate from the following conversion table.

Charging Rate (%) \ Electrolyte Temperature (°C)	20	0	-10	-20
100	1.28	1.29	1.30	1.31
90	1.26	1.27	1.28	1.29
80	1.24	1.25	1.26	1.27
75	1.23	1.24	1.25	1.26

- As the battery capacity drastically drops in low temperatures, cover or remove the battery from the machine, store the battery in a warm place, and install it again the next morning.
- If the electrolyte level is low, add distilled water in the morning before beginning work. Do not add water after the day's work to prevent diluted electrolyte in the battery from freezing during the night.

OTHER TROUBLE

Electrical System

- ( ): Always contact your Komatsu distributor when dealing with these items.
- In cases of problems or causes which are not listed below, contact your Komatsu distributor for repairs.

Problem	Main causes	Remedy
Lamp does not glow brightly even when the engine runs at high speed	• Defective wiring, deterioraion of battery	(• Check, repair loose terminals, disconnections, replace battery)
Lamp flickers while engine is running	• Loose fan belt	• Check, adjust fan belt tension • Replace fan belt
Charge level monitor does not go out even when engine is running	• Defective alternator • Defectivr wiring • Loose, broken fan belt	(• Replace) (• Check, repair) • Check, adjust fan belt tension • Replace fan belt
Abnormal noise is generated from alternator	• Defective alternator	(• Replace)
Starting motor does not turn when starting switch is turned to ON	• Defective wiring • Defective starting motor • Insufficient battery charge	(• Check, repair) (• Replace) • Charge
Pinion of starting motor keeps going and out	• Insufficient battery charge • Defective safety relay	• Charge (• Replace)
Starting motor turns engine sluggishly	• Insufficient battery charge • Defective starting motor	• Charge (• Replace)
Starting motor disengages before engine starts	• Defective wiring, defective ring gear pinion • Insufficient battery charge	(• Check, repair) • Charge
Pre-heating monitor does not light	• Defective wiring • Defective heater relay • Defective monitor	(• Check, repair) (• Replace) (• Replace)
Oil pressure monitor does not light up when engine is stopped (starting switch at ON position)	• Defective monitor • Defective caution lamp switch	(• Replace) (• Replace)
Outside of electrical heater is not warm when touched by hand	• Defective wiring • Disconnection in electric heater • Defective operation of heater relay switch	(• Check, repair) (• Replace) (• Replace)

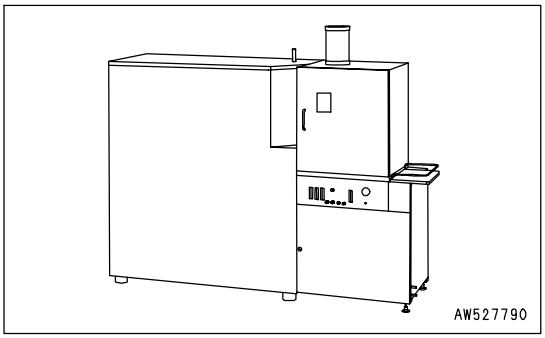
CARRYING OUT KOWA (Komatsu Oil Wear Analysis)

KOWA is a maintenance service that makes it possible to prevent machine failures and downtime. With KOWA, the oil is periodically sampled and analyzed. This enables early detection of wear of the machine drive parts and other problems.

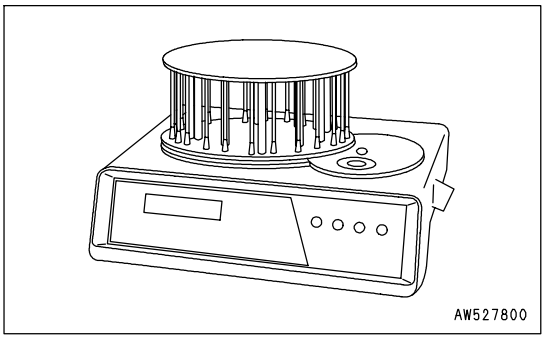
We strongly recommend you to use this service. The oil analysis is carried out at actual cost, so the cost is low, and the results of the analysis are reported together with recommendations which will reduce repair costs and machine downtime.

KOWA ANALYSIS ITEMS

- Measurement of density of metal wear particles
  This uses an ICP (Inductively Coupled Plasma) analyzer to measure the density of iron, copper, and other metal wear particles in the oil.



- Measurement of quantity of particles
  This uses a PQI (Particle Quantifier Index) measurer to measure the quantity of iron particles of 5μm or more, enabling early detection of failures.



- Others
  Measurements are made of items such as the ratio of water in the oil, density of the antifreeze coolant, ratio of fuel in the oil, and dynamic viscosity, enabling a highly precise diagnosis of the machine's health.

OIL SAMPLING

- Sampling interval
  250 hours: Engine
  500 hours: Other components
- Precautions when sampling
  - Make sure that the oil is well mixed before sampling.
  - Perform sampling at regular fixed intervals.
  - Do not perform sampling on rainy or windy days when water or dust can get into the oil.

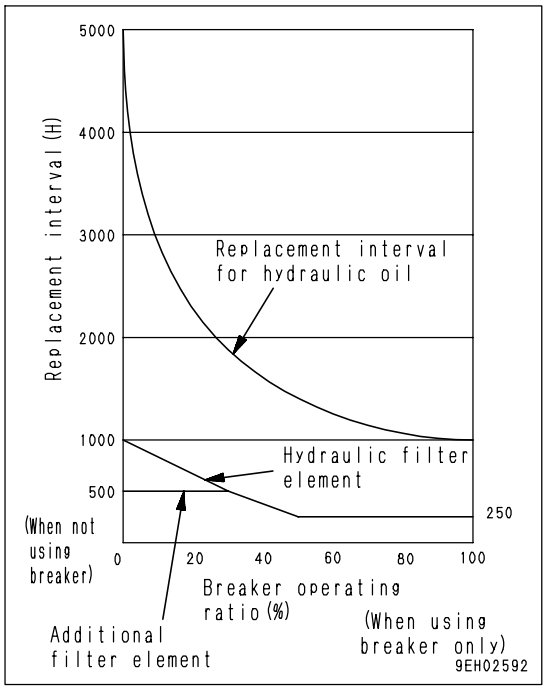
For further details of KOWA, please contact your Komatsu distributor.

MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER

For machine equipped with a hydraulic breaker, the hydraulic oil deteriorates faster than for normal bucket digging operations, so set the maintenance intervals as follows.

REPLACE HYDRAULIC OIL FILTER ELEMENT

- On new machines, replace the element after the first 100 to 150 hours, then carry out further replacement of the element according to the table on the right.



CHANGE OIL IN HYDRAULIC TANK

- Change the oil according to the table on the right.

REPLACE ADDITIONAL FILTER ELEMENT FOR BREAKER

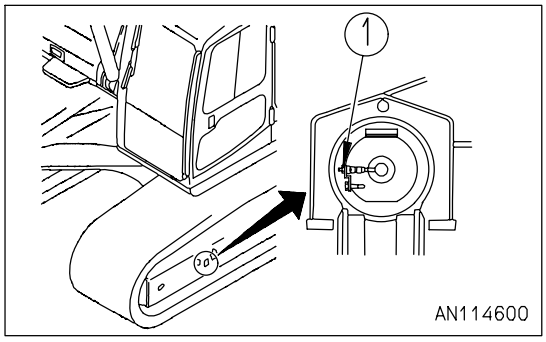
- Use a guideline of 250 hours for use of the breaker (operating ratio for the breaker: 50 % or more), and replace the element according to the table on the right.

If the track tension is not at the standard value, adjust it in the following manner.

Adjustment

WARNING

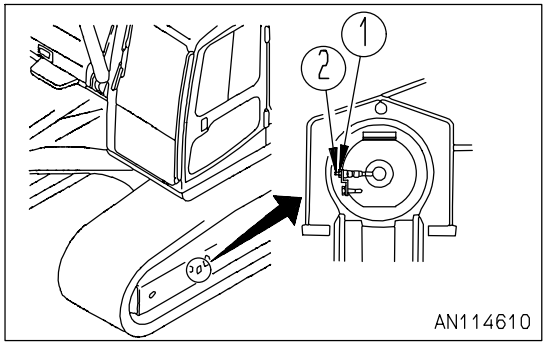
There is danger of plug (1) flying out under the high internal pressure of the grease. Never loosen plug (1) more than 1 turn.
Never loosen any part other than plug (1). Never put your face in the mounting direction of plug (1).
If the track tension cannot be loosened with the procedure given here, please contact your Komatsu distributor.



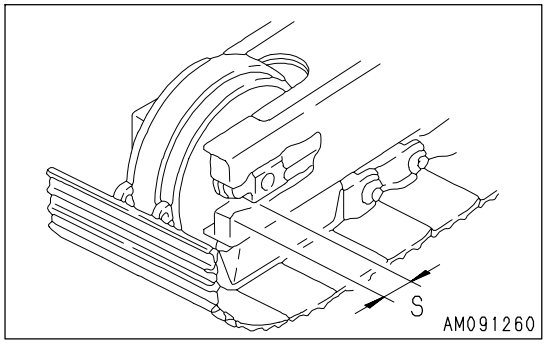
Increasing Track Tension

Prepare a grease pump.

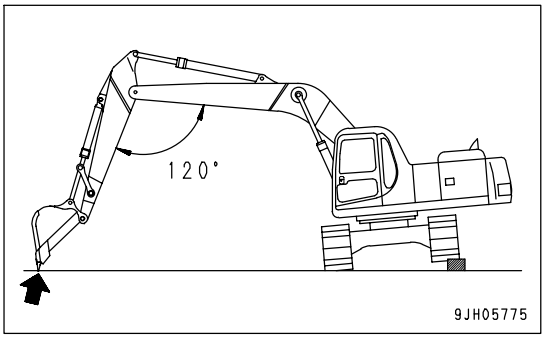
1. Pump in grease through grease fitting (2) with a grease pump. (Grease fitting (2) forms one part with plug (1).)
2. To check if the tension is correct, run the engine at low idle, move the machine slowly forward (by an amount equal to the length of track on ground), then stop the machine.
3. Check the track tension again, and if the tension is not correct, adjust it again.



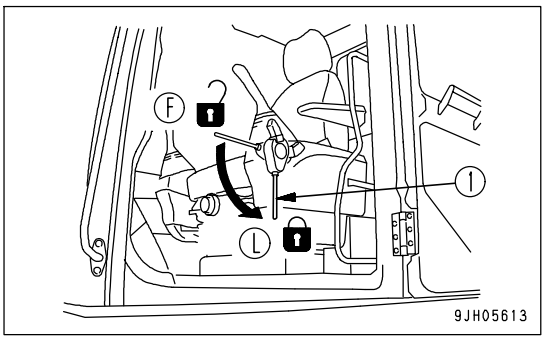
4. Continue to pump in grease until dimension (S) becomes zero (0). If the tension is still loose, the pin and bushing are excessively worn, so they must be either turned or replaced. Please contact your Komatsu distributor for repairs.



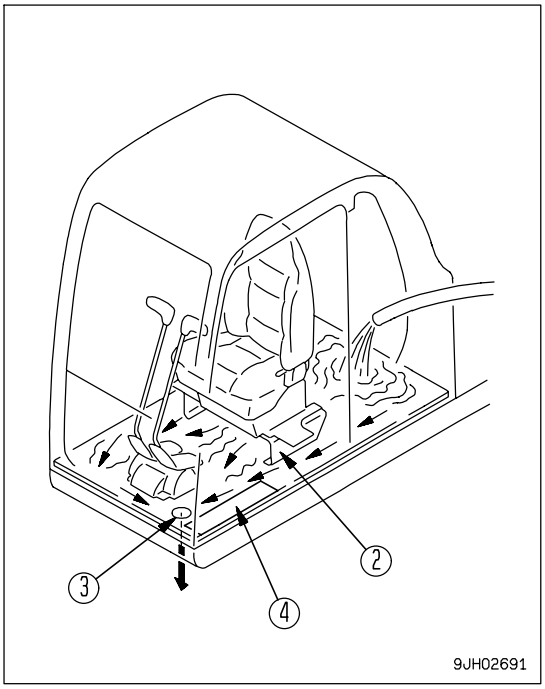
3. Lower the work equipment to the ground and set the machine in a stable condition.



4. Set lock lever (1) to LOCK position (L) and stop the engine.
5. Remove the floor mat holder plate (4).
6. Remove the floor mat.
7. Remove the cap from water drain hole (3).



8. Flush out the dirt on the floor directly with water through water drain hole (3).



9. After completing the washing operation, install the cap in water drain hole (3).
10. Fit the floor mat, then secure it with floor mat holder plate (4).

EVERY 250 HOURS MAINTENANCE

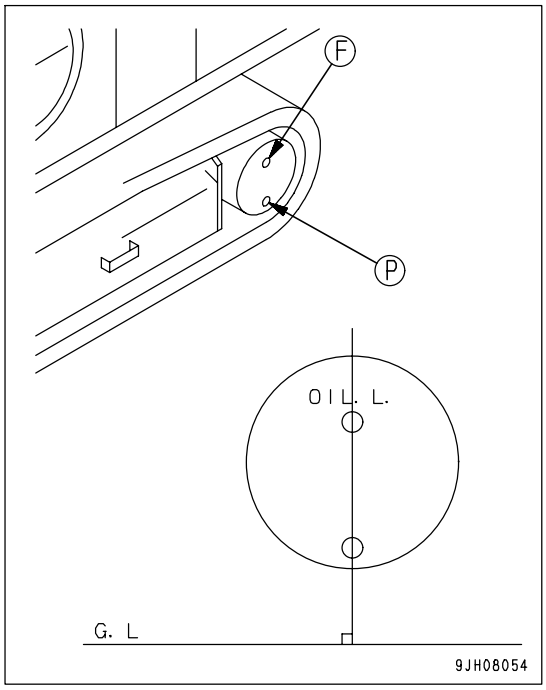
CHECK OIL LEVEL IN FINAL DRIVE CASE, ADD OIL

WARNING

- **The parts and oil are at high temperature immediately after the engine is stopped, and may cause serious burns. Wait for the temperature to go down before starting the operation.**
- **If there is still pressure remaining inside the case, the oil or plug may fly out. Loosen the plug slowly to release the pressure.**

- Prepare a hexagon wrench.

1. Set so that plug (F) is at the top, with plug (F) and plug (P) prependicular to the ground.
2. Using a hexagonal wrench, remove plug (F) and check that the oil level is within a range from the bottom of the plug hole to a point 10 mm (0.4 in) below it.
3. If the oil level is too low, install plug (F), operate the travel levers, and drive forward or in reverse to rotate the sprocket one turn. Then repeat Step 2 to check again.
4. If the oil level is low, add engine oil through plug hole (F) until the oil overflows from plug hole (F).
5. After checking, install plug (F).

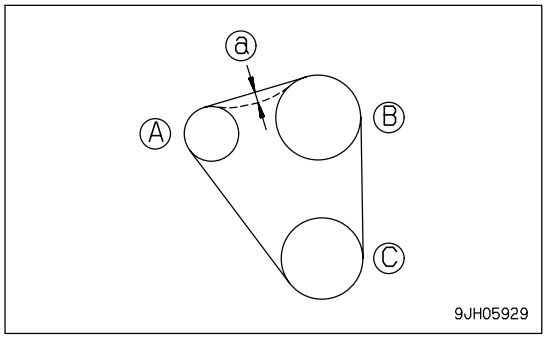


CHECK AND ADJUST COOLING FAN BELT TENSION

Checking

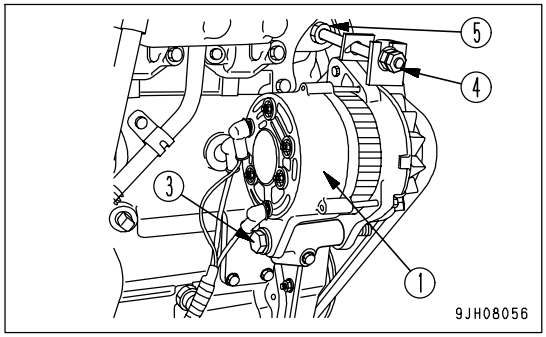
Deflection (a) should be 6 to 10 mm (0.2 to 0.4 in) at a point midway between the alternator pulley and fan pulley when pressed with a finger force of approx. 58.8 N (6 kg).

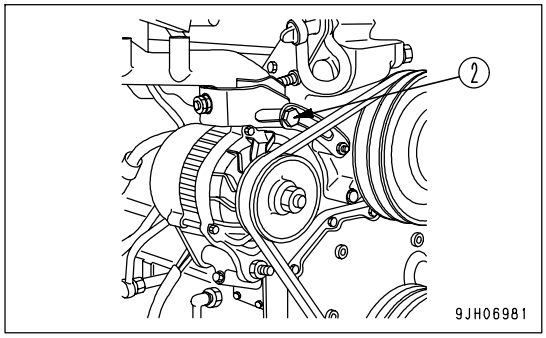
(A): Alternator pulley
(B): Fan pulley
(C): Crankshaft pulley



Adjustment

1. Loosen bolts and nuts (2) and (3).
2. Loosen locknut (4) and move alternator (1) with adjustment bolt (5) so that the deflection of the belt is 6 to 10 mm (0.2 to 0.4 in) when pressed with a finger force of approx. 58.8 N (6 kg).
3. Tighten locknut (4) and bolts and nuts (2) and (3) to hold alternator (1) in position.

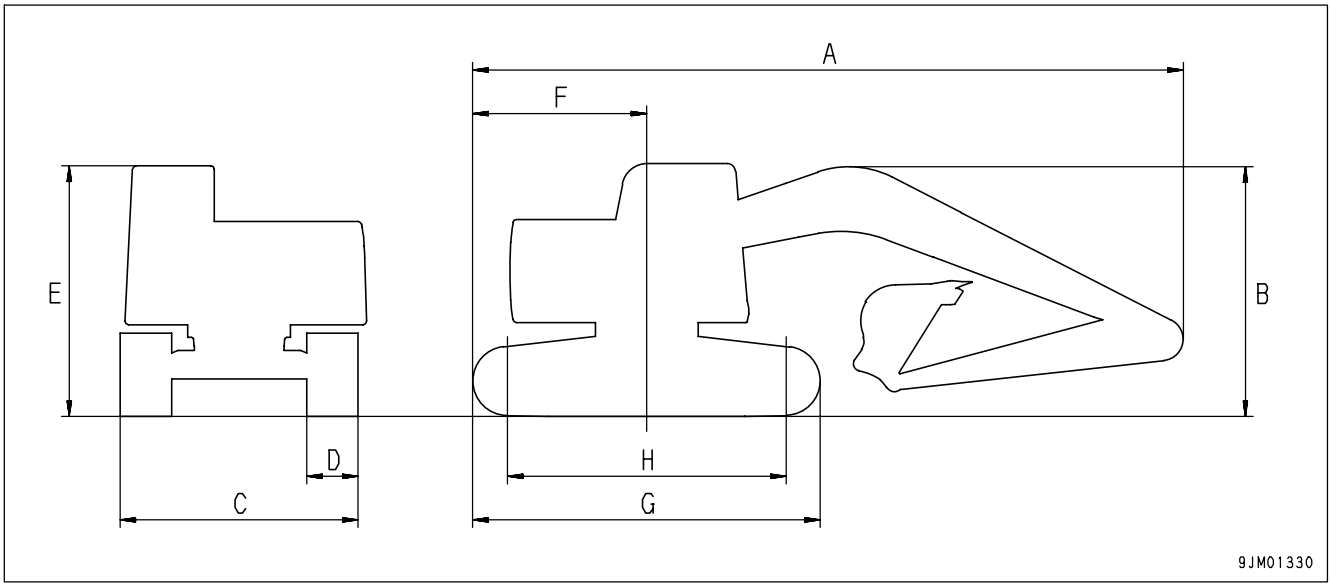




4. Check for damage to the pulleys, and wear of the V-groove and V-belt. Be particularly careful to check that the V-belt is not in contact with the bottom of the V-groove.
5. If the belt has elongated and there is no more allowance for adjustment, or if the belt is cut or cracked, replace the belt.
6. After replacing the V-belt, operate for one hour, then adjust again.

SPECIFICATIONS

	Item	Unit	PC130-7
	Operating weight	kg (lb)	12,400 (27,342)
	Bucket capacity	m^3 (cu.yd)	0.53 (0.69)
	Name of engine	-	Komatsu SAA4D95LE-3 diesel engine
	Rated horsepower of engine	kW (HP)/rpm	66.2 (88.7)/2,200
A	Overall length	mm (ft in)	7,595 (24' 11")
B	Overall height	mm (ft in)	-
C	Overall width	mm (ft in)	2,490 (8' 2")
D	Track shoe width	mm (ft in)	500 (1' 8")
E	Height of cab	mm (ft in)	2,810 (9' 3")
F	Radius of upper structure	mm (ft in)	2,190 (7' 2")
G	Overall length of track	mm (ft in)	3,610 (11' 10")
H	Tumbler center distance	mm (ft in)	2,880 (9' 5")
	Min. ground clearance	mm (ft in)	400 (1' 4")
	Traveling speed (Low/High)	km/h (MPH)	2.7/5.5 (1.7/3.4)
	Swing speed	rpm	11



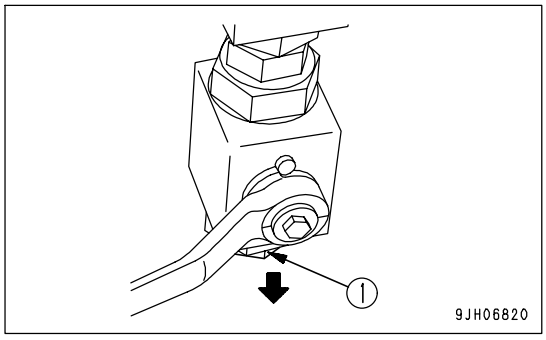
HYDRAULIC CIRCUIT

Hydraulic Circuit Connection

When connecting the attachment, connect the hydraulic circuit as follows.

One Line Attachment

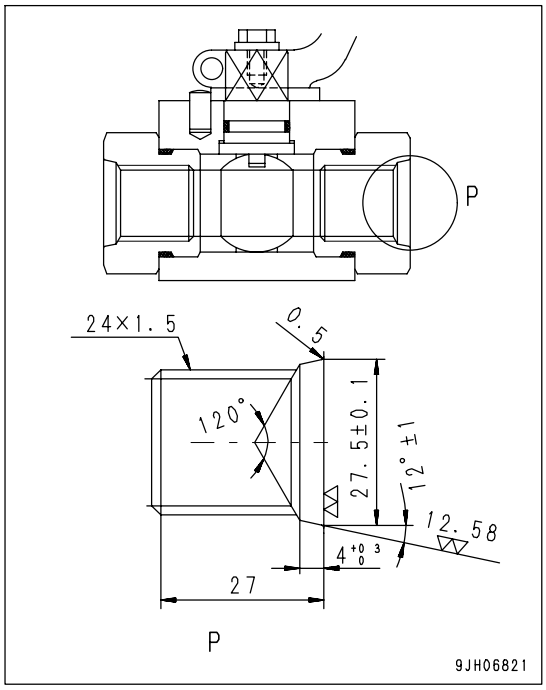
1. Check that the stop valve is at the LOCK position, then remove plug (1).
   Be careful not to lose or damage the removed parts.
2. Connect the piping for the attachment provided by the attachment maker.
   The dimensions on the stopper valve side are as indicated at right. For those on the attachment side, confer with each manufacturer of attachment and determine.
3. After connecting the piping, bleed the air from the circuit.
   1) Start the engine, referring to "STARTING ENGINE (PAGE 3-72)", and run it at low idle for the subsequent 10 minutes. Then proceed to the next work.
   2) Run the engine at low idle until the air in the attachment circuit is completely removed, then operate the attachment pedal repeatedly (approx. 10 times) to bleed the air.



NOTICE

If the attachment maker specifies an air bleeding procedure for the attachment itself, follow the specified procedure to bleed the air.

   3) After completing the bleeding of the air, stop the engine, and wait for at least 5 minutes before starting operations. This will release the bubbles in the oil inside the tank.
   4) Check that there is no oil leakage, and wipe off any oil that has been spilled.



ATTACHMENT COMBINATIONS

⚠ WARNING

Depending on the type or combination of work equipment, there is danger that the work equipment may hit the cab or machine body.

When using unfamiliar work equipment for the first time, check before starting if there is any danger of interference, and operate with caution.

This is the combination table for attachments to install to the standard arm, short arm, or long arm.

○: Can be used

△: Can be used only for light duty work

×: Cannot be used

NOTICE

- **When the long arm is equipped, if the bucket is pulled in to the machine body, the arm interferes with the body. Operate the long arm carefully.**
- **When the boom is fully lowered during oblique digging, the boom interferes with the undercarriage. Operate the boom carefully.**

Categories of use

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

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

For loading work: Loading dry, loose earth 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 (cu.yd)	Outside idth (bucket body) mm (in)	Outside width (side cutter) mm (in)	Model PC130	Use	Standard arm	Short arm	Long arm
Narrow bucket	Vertical	0.36 (0.47)	700 (27.6)	820 (32.3)	-	Narrow digging	○	○	○
Narrow bucket	Vertical	0.45 (0.59)	833 (32.8)	953 (37.5)	OP	Heavy-duty digging	○	○	×
Standard bucket	Vertical	0.53 (0.69)	859 (33.8)	979 (38.6)	-	Heavy-duty digging	○	○	×
Light duty bucket	Vertical	0.64 (0.84)	1000 (39.4)	-	-	Loading	△	△	×

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