Operation & Maintenance Manual

UEAM003604

PC130-7

HYDRAULIC EXCAVATOR

SERIAL NUMBER **PC130-7 - 72642 and up**

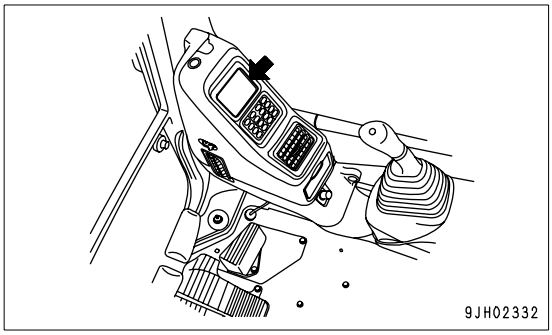
WARNING

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 inside the cab for reference and periodically reviewed by all personel who will come into contact with the machine.

KOMATSU

SERVICE METER LOCATION

On top of the machine monitor

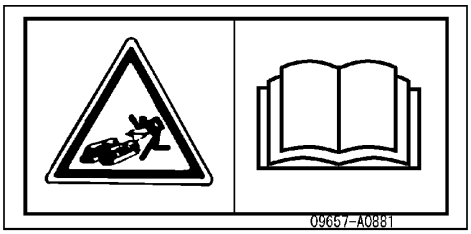


YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR

Machine serial No.	
Engine serial No.	
Product Identification Number	
Manufacturers name: Address:	KOMATSU UK Ltd. Durham Road Birtley Chester-Le street County Durham DH32QX United Kingdom
Distributor Address	
Phone	
Service personnel for your machine:	

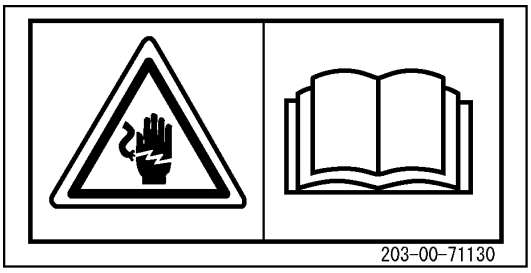
(5) Precautions when adjusting track tension (09657-A0881)

- Sign indicates a hazard of flying plug from track adjuster that could cause injury.
- Read manual and adjusting track for safe and proper handling.



(6) Precautions when handling cable (203-00-71130)

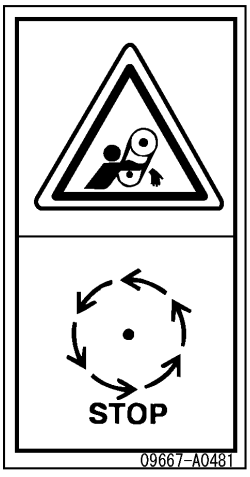
- Sign indicates an electric hazard from handling the cable.
- Read manual for safe and proper handling.



(7) Stopping rotation for inspection and maintenance

(09667-A0481)

- Sign indicates a hazard of rotating parts, such as belt.
- Turn off before inspection and maintenance.



No attempt should be made to repair these parts as this may have an adverse effect on component strength or durability.

If such a repair is undertaken without authorisation from Komatsu there is a danger that a problem might occur that will lead to serious personal injury.

If in doubt please contact your Komatsu distributor.

Komatsu can not take any responsibility for accidents, failures or damage caused by unauthorized repair to the above mentioned components.

ATTACHMENT INSTALLATION

- When installing optional parts or attachments, there may be problems with safety or legal restrictions. Therefore contact your Komatsu distributor for advice.
- Any injuries, accidents, or product failures resulting from the use of unauthorized attachments or parts will not be the responsibility of Komatsu.
- When installing and using optional attachments, read the instruction manual for the attachment, and the general information related to attachments in this manual.

ATTACHMENT COMBINATIONS

Depending on the type or combination of work equipment, there is a hazard that the work equipment may hit the cab or other parts of the machine. Before using unfamiliar work equipment, check if there is any hazard of interference, and operate with caution.

CAB WINDOW GLASSES

- If the cab glass on the work equipment side is broken, there is a hazard that the work equipment may contact the operator's body directly. Stop operation immediately and replace the glass.
- The ceiling window is made of organic glass (polycarbonate), and as such it is apt to break easily when receiving damage on the surface, thereby deteriorating its protective characteristic. If there is a crack or damage caused by a fallen rock, or when any sign of them is noticed, replace it with a new window.

UNAUTHORIZED MODIFICATIONS

If this machine is modified without the permission from Komatsu, there is a danger that problems may occur with safety and that this may lead to serious personal injury. Modifications may have an adverse effect on items such as machine strength and visibility. Before making any modifications please consult your Komatsu distributor. Komatsu cannot take any responsibility for accidents, failures or damage caused by modifications not authorized by Komatsu.

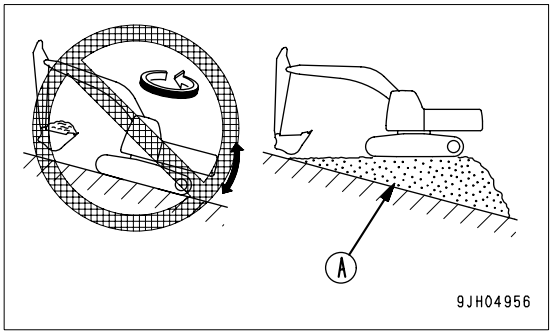
SAFETY AT JOBSITE

Before starting operations, thoroughly check the area for any unusual conditions that could be dangerous.

- When carrying out operations near combustible materials such as thatched roofs, dry leaves or dry grass, there is a hazard of fire, so be careful when operating.
- Check the terrain and condition of the ground at the worksite, and determine the safest method of operation. Do not carry out operations at places where there is a hazard of landslides or falling rocks.

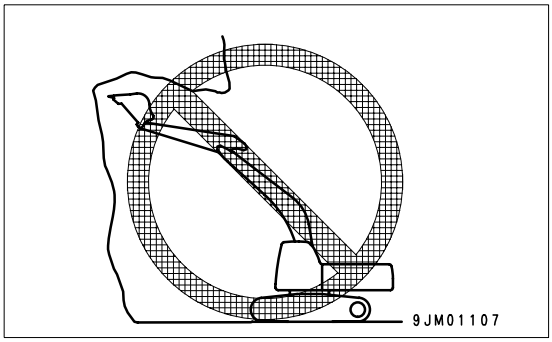
OPERATIONS ON SLOPES

- When working on slopes, there is a hazard that the machine may lose its balance and turn over when the swing or work equipment are operated. This may lead to serious injury or property damage, so always provide a stable place when carrying out these operations, and operate carefully.
- Do not swing the work equipment from the uphill side to the downhill side when the bucket is loaded. This operation is dangerous, and may cause the machine to tip over.
- If the machine has to be used on a slope, pile the soil to make a platform (A) that will keep the machine as horizontal as possible.

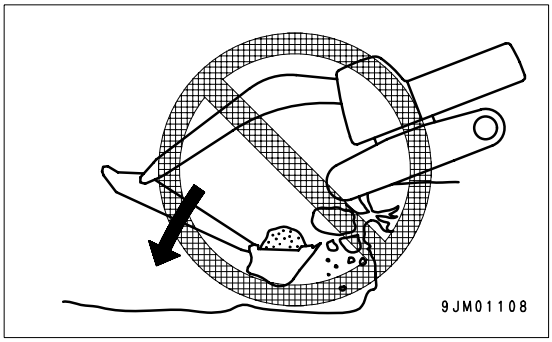


PROHIBITED OPERATIONS

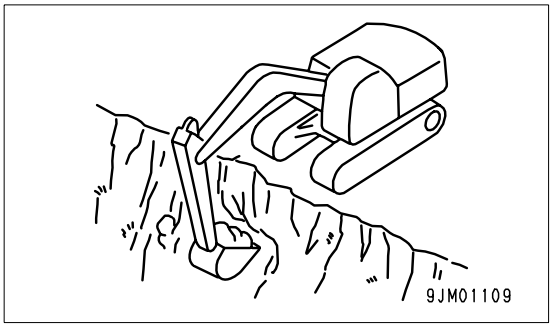
- Never dig the work face under an overhang. There is a hazard that rocks may fall or that the overhang may collapse and fall on top of the machine.



- Do not excavate too deeply under the front of the machine. The ground under the machine may collapse and cause the machine to fall.

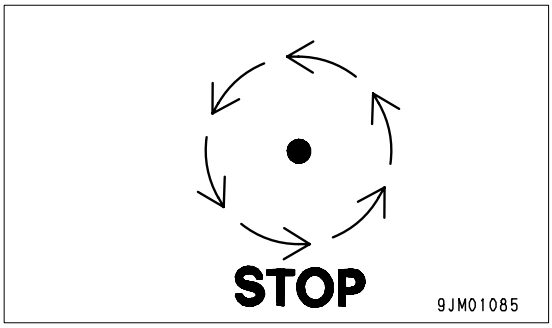


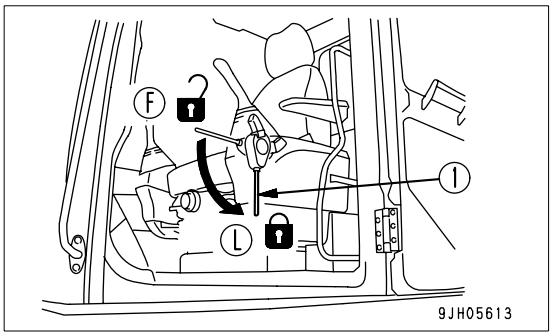
- To make it easier to escape if there is any problem, set the tracks at right angles to the road shoulder or cliff with the sprocket at the rear when carrying out operations.



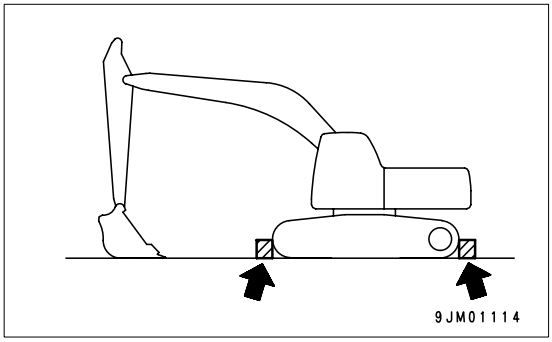
STOP ENGINE BEFORE CARRYING OUT MAINTENANCE

- Stop the machine on firm, level ground.
- Select a place where there is no hazard of falling rocks or landslides, or of flooding if the land is low.
- Lower the work equipment completely to the ground and stop the engine.
- Turn the starting switch to the ON position. Operate the work equipment control lever back and forth, left and right at the full stroke 2 to 3 times to eliminate the remaining internal pressure in the hydraulic circuit, and then push up safety lock lever (1) to the LOCK position (L).





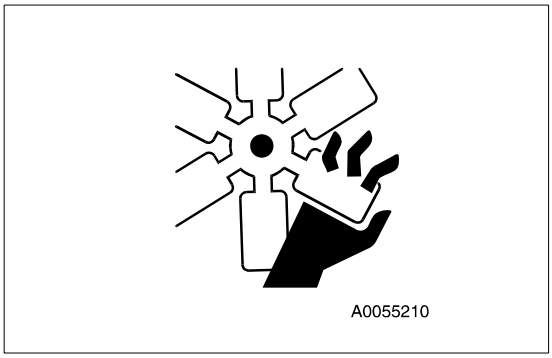
- Put blocks under the track to prevent the machine from moving.



TWO WORKERS FOR MAINTENANCE WHEN ENGINE IS RUNNING

To prevent injury, do not carry out maintenance with the engine running. If maintenance must be carried out with the engine running, carry out the operation with at least two workers and do as follows.

- One worker must always sit in the operator's seat and be ready to stop the engine at any time. All workers must maintain contact with the other workers.



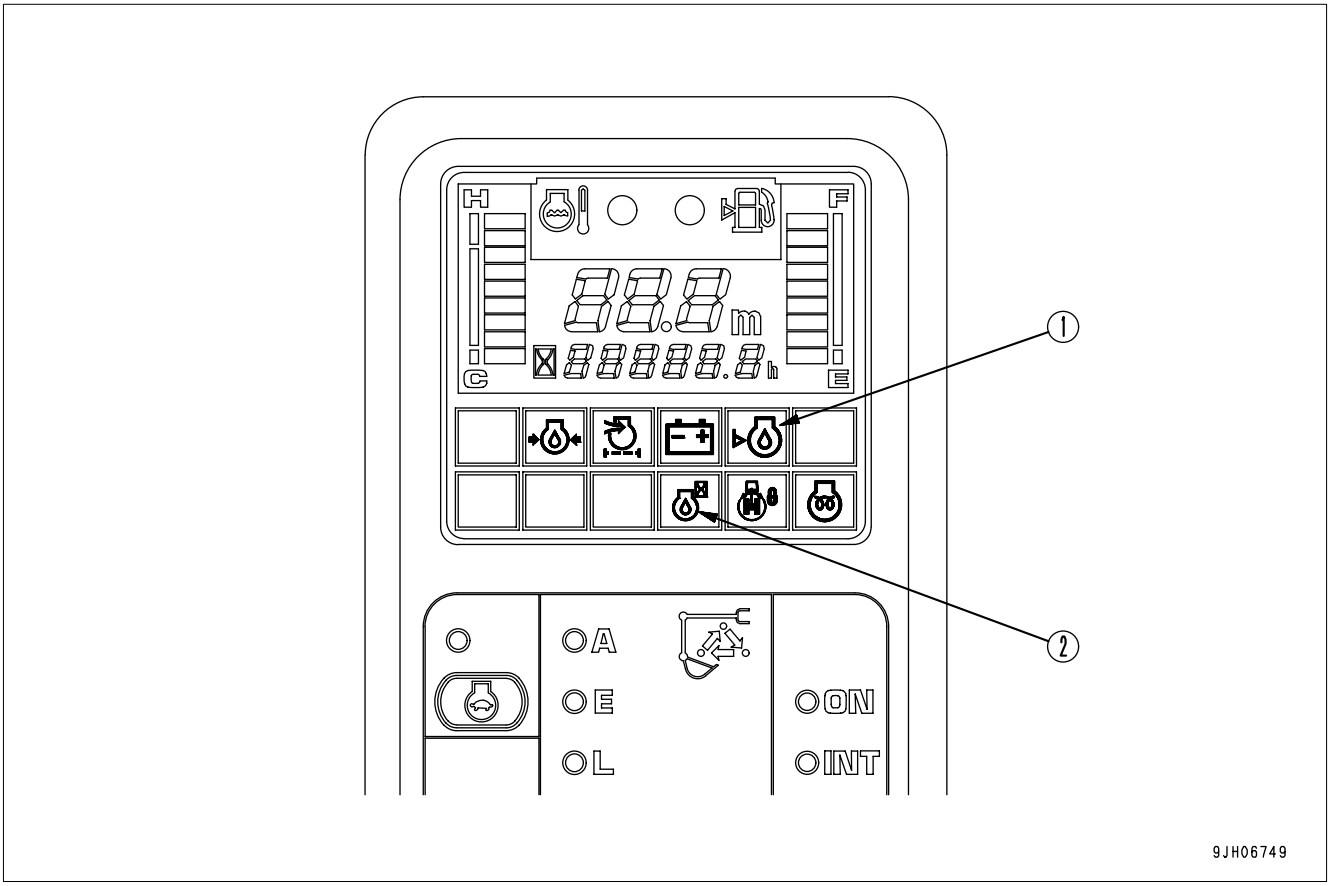
Basic Check Monitors

⚠ CAUTION

These monitors DO NOT ensure that the machine is in good condition. When performing checks before starting (daily checks), do not simply rely on the monitors. Always dismount the machine and check each item directly.

This displays the basic items that should be checked before starting the engine.

If there is any abnormality, the appropriate monitor lamp will flash.



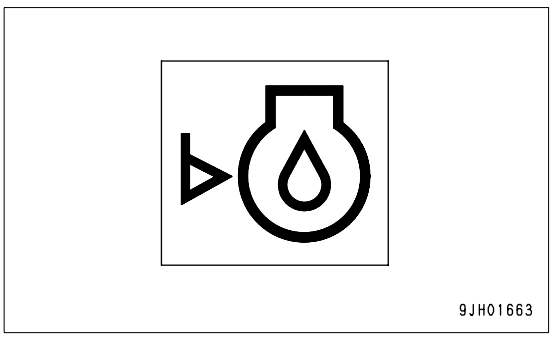
A (1) Engine oil temperature monitor

A (2) Engine oil change monitor (only if equipped)

Engine Oil Level Monitor

This monitor (1) lights up to warn the operator that the oil level in the engine oil pan has gone down.

If the monitor lamp flashes, check the oil level in the engine oil pan, and add oil.



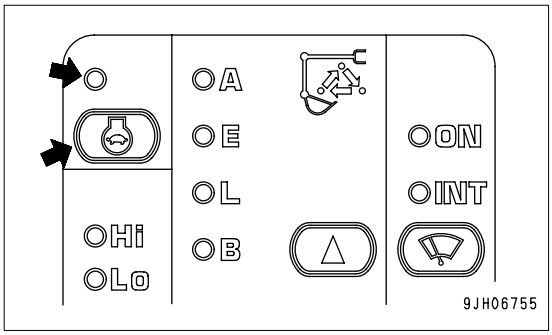
Auto-deceleration Switch (Selection Switch)

This switch (2) acts to activate the function that automatically lowers the engine speed and reduces fuel consumption when the control levers are at neutral.

Auto-deceleration lights up: Auto-deceleration is actuated

Auto-deceleration goes out: Auto-deceleration is canceled

Each time the switch is pressed, the auto-deceleration is actuated or canceled.



Travel Speed Selector Switch

⚠ WARNING

- **When loading on or unloading from a trailer, always travel at low speed (with the travel speed selector switch put at the Lo position). Never operate the travel speed selector switch during the loading or unloading operation.**
- **If the travel speed is switched between Hi and Lo when the machine is traveling, the machine may deviate to one side, even when traveling in a straight line.**
  Stop the machine before switching the travel speed.

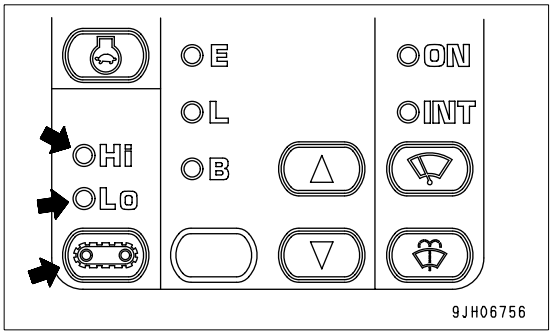
This switch (3) is used to switch the travel speed between two levels (high and low).

Lo lights up: Low speed

Hi lights up: High speed

When the engine is started, the speed is automatically set to Lo.

When traveling in Hi, if more travel power is needed, such as on soft ground or traveling uphill, the transmission automatically switches to low speed (Lo), so there is no need to operate the switch. The monitor display stays at Hi.



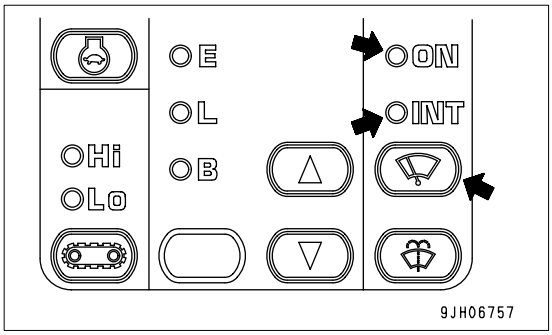
Wiper Switch

This switch (4) actuates the front window wiper.

ON lights up: The wiper works continuously.

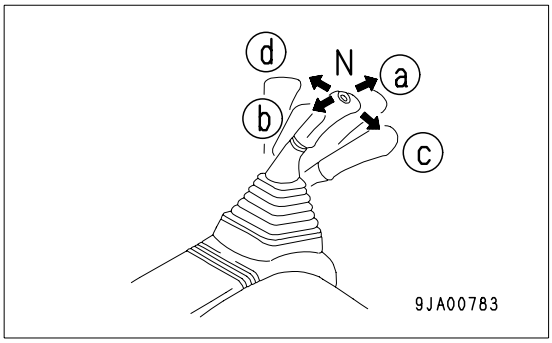
INT lights up: The wiper works intermittently.

OFF: The wiper stops.



Work Equipment Control Lever

This Left work equipment control lever (3) is used to operate the arm and upper structure.



Arm operation

(a) Arm OUT

(b) Arm IN

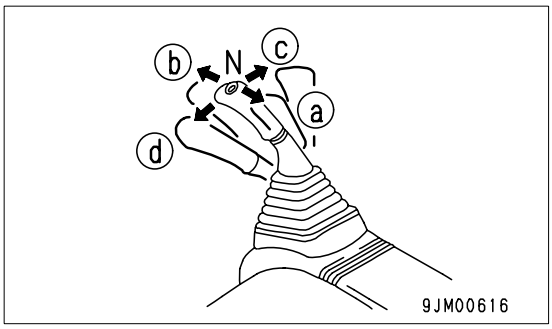
Swing operation

(c) Swing to right

(d) Swing to left

N (Neutral) : The upper structure and arm are held in position and do not move.

This Right work equipment control lever (4) is used to operate the boom and bucket.



Boom operation

(a) RAISE

(b) LOWER

Bucket operation

(c) DUMP

(d) CURL

N (Neutral) : The boom and bucket are held in position and do not move.

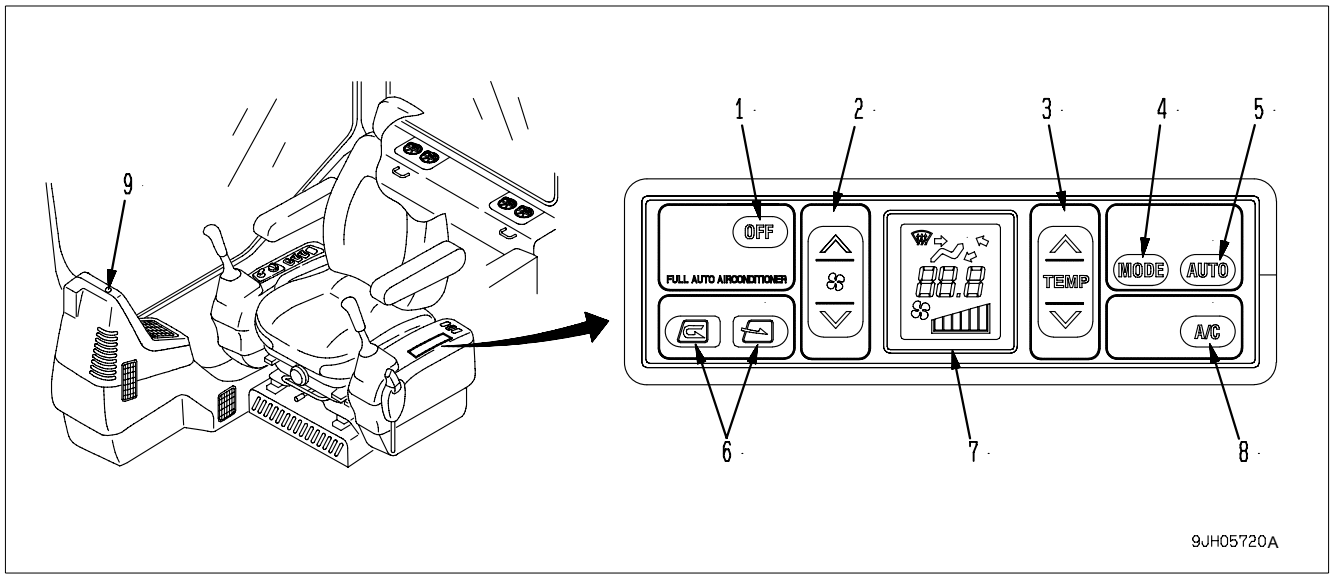
REMARK

The engine speed for all control levers (travel, work equipment, attachment) is changed as follows by the auto-deceleration mechanism.

- When the travel lever and work equipment control levers are at the neutral position, even if the fuel control dial is above midrange speed, the engine speed will go down to a midrange speed. If one of these levers is operated, the engine speed will rise to the speed set by the fuel control dial.
- If all the control levers are at the neutral position, the engine speed goes down approx. 100 rpm, then after approx. 4 seconds, the engine speed goes down to the deceleration speed (approx. 1400 rpm).

AIR CONDITIONER CONTROLS

Air Conditioner Control Panel

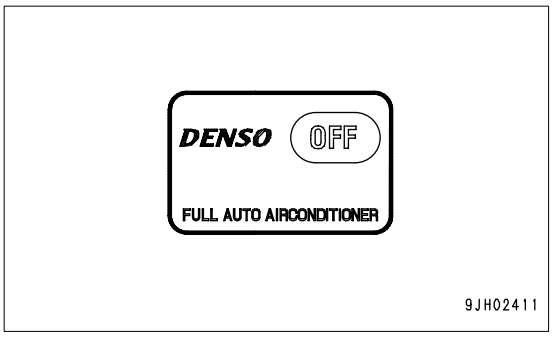


(1) OFF switch
(2) Fan switch
(3) Temperature control switch
(4) Vent selector switch
(5) Auto switch
(6) FRESH/RECIRC selector switch
(7) Display monitor
(8) Air conditioner switch
(9) Sunlight sensor

OFF Switch

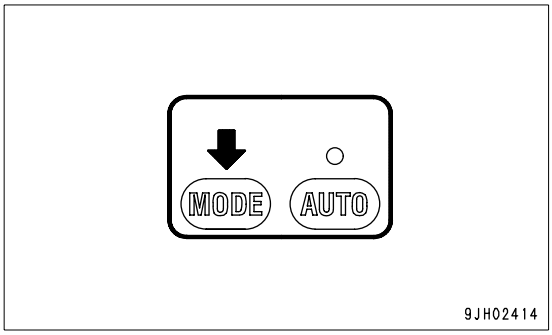
Switch (1) is used to stop the fan and air conditioner.

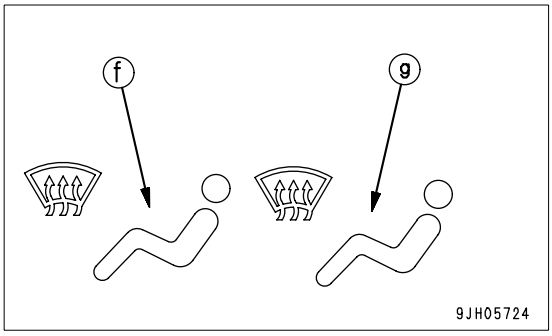
- When OFF switch (1) is pressed, the set temperature and air flow displayed on monitor (7), the lamps above auto switch (5), and air conditioner (8) go out, and operation stops.



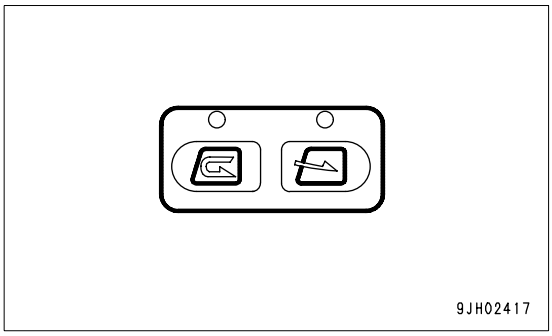
REMARK
When switch (1) is turned to the OFF position, the lamp above FRESH/RECIRC selector switch (6) does not go out, but this is not an abnormality.

2. Press vent selector switch (4) and set the vent display on the display monitor (C) to the display shown in (f) or (g) in the diagram on the right.

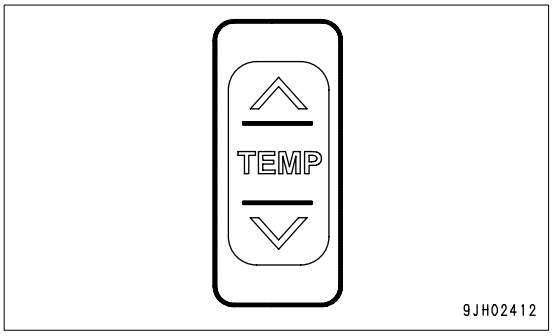




3. Press FRESH/RECIRC selector switch (6) and set it to take in fresh air.

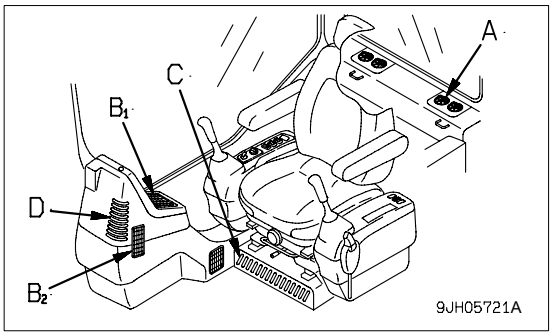


4. Press temperature setting switch (3) and set temperature on the display (7) monitor to maximum heating.



5. Adjust vents (A), (B1), and (B2) so that the air blows onto the window glass.

   (Vents (C) and (D) are fixed and cannot be adjusted.)



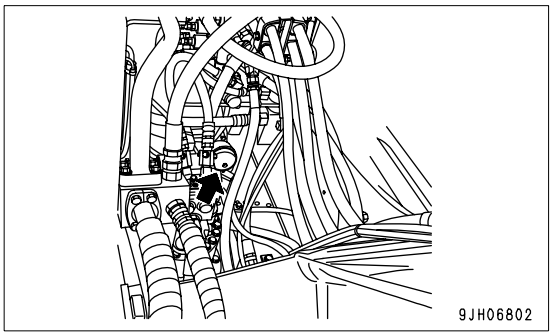
ACCUMULATOR

⚠ WARNING

The accumulator is charged with high-pressure nitrogen gas, so mistaken operation may cause an explosion which will lead to serious injury or damage. When handling the accumulator, always do as follows.
The pressure in the control circuit cannot be completely removed. When removing the hydraulic equipment, do not stand in the direction that the oil spurts out when carrying out the operation.
Loosen the bolts slowly.
Do not disassemble the accumulator.
Do not bring it near flame or dispose of it in fire.
Do not make holes in it or weld it.
Do not hit it, roll it, or subject it to any impact.
When disposing of the accumulator, the gas must be released. Please contact your Komatsu distributor to have this work carried out.

This machine is equipped with an accumulator in the control circuit. The accumulator is a device to store oil pressure for the control circuit, and when it is installed, the control circuit can be actuated for a short time even after the engine is stopped. Due to this device, the work equipment lowers under its own weight, if the control lever is moved in the lowering direction.

The accumulator is installed to the position shown in the diagram on the right.



Releasing Hydraulic Pressure with Accumulator

1. Place the work equipment on the ground. Close the crusher attachment jaws, etc.
2. Stop the engine.
3. Turn the starting switch to the ON position.
4. Move the safety lock lever to the free position. Move the work equipment control lever and the attachment control pedal to full stroke back and forth, right and left so as to release the pressure in the control circuit.
5. Move the safety lock lever to the lock position. Lock the control lever and attachment control pedal.
6. Turn the key in starting switch to the OFF position.

Pull lever (4) up to adjust the angle of the rear of the seat. (4 stages)

- To raise the angle at the rear of the seat,keep the lever (3) pulled up and stand up slightly to remove your weight from the seat.
- To lower the angle at the rear of the seat,keep the lever (3) pulled up and apply your weight to the

Amount of tilt: Up 13°, down 13°

- Adjusting seat height

It is possible to move the seat up or down by combining adjustments forward tilt and rear tilt.

After setting the forward tilt or rear tilt to the desired height, operate the opposite part to set the seat horizontal then secure in position.

Height adjustment: 60 mm

(D) Adjusting armrest angle

Armrest (5) can be made to spring up by hand approx. 90°.

In addition, by turning the bottom (6) of the armrest by hand it is possible to make fine vertical adjustments of the armrest angle.

Armrest adjustment angle: 25°.

REMARK
If the seat back is tipped to the front without raising the armrest(5), the armrest will rise automatically.

(E) Overall fore-and-aft adjustment of seat

Move lever (7) to right, set to the desired position, then release the lever. In this case, the operator's seat, left and right control levers, and safety lock lever all slide together.

Fore-and-aft adjustment: 180 mm (9 stages)

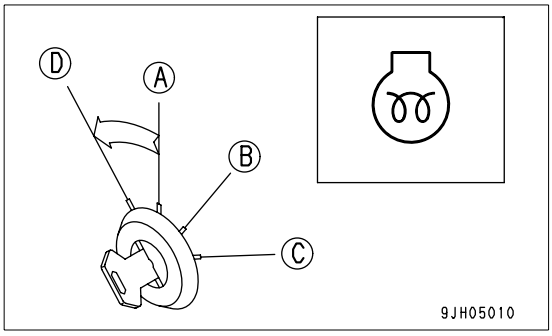
(F) Adjusting suspension (if equipped)

Turn knob (8) to the right to make the suspension harder,or to the left to make the suspension softer. Adjust the reading of the dial to match the operator's weight and select the optimum suspension.

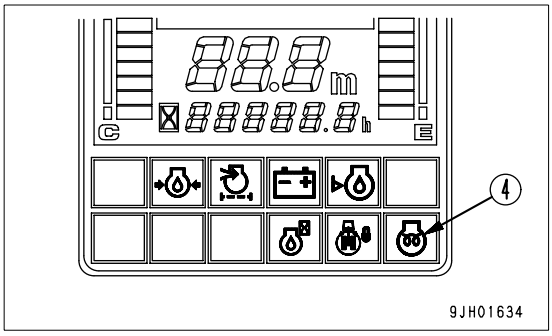
REMARK
To obtain the optimum adjustment, turn the knob (8) so that the indicator of the weight display (kg) in the transparent portion of knob (8) is the same as the operator's weight.

3. Hold the key in starting switch (3) at the HEAT position (D), and check that preheating monitor (4) lights up. After about 30 seconds, preheating monitor lamp (4) will flash to indicate that preheating is finished.

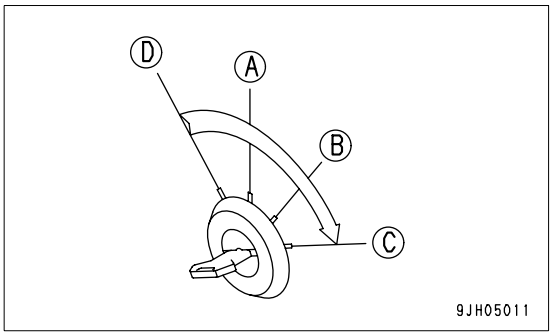
   (The flashing will stop after approx. 10 seconds.)



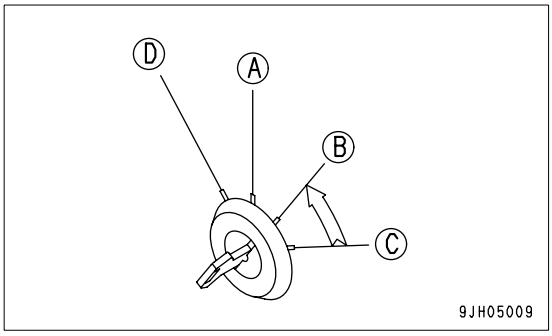
REMARK
The monitors and gauges will light up also when the key is turned to the HEAT position, but this is not an abnormality.
If the temperature is low, the monitor screen may become dark or it may take time for the display to appear, but this is not an abnormality.



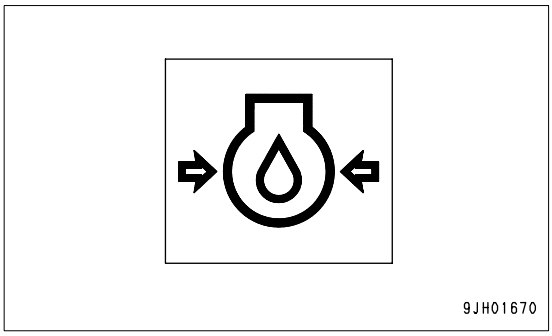
4. When preheating monitor (4) flashes, turn the key in starting switch (3) to the START position (C) to start the engine.



5. After the engine starts, release the key in starting switch (3). The key will automatically return to the ON position (B).

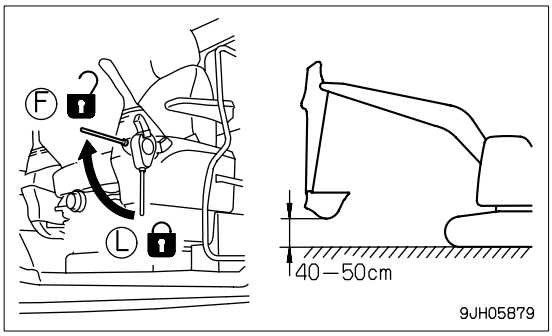


6. After starting the engine, do not touch the work equipment control lever or travel pedal while the engine oil pressure monitor lamp is lighted up.



Moving Machine Forward

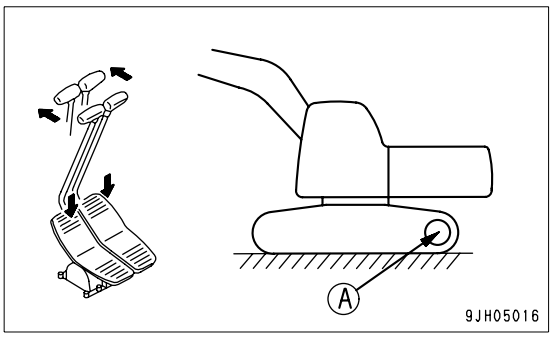
1. Set safety lock lever (4) in the FREE position (F), fold the work equipment, and raise it 40 to 50 cm from the ground.



2. Operate right and left travel levers (5) or right and left travel pedals (6) as follows.

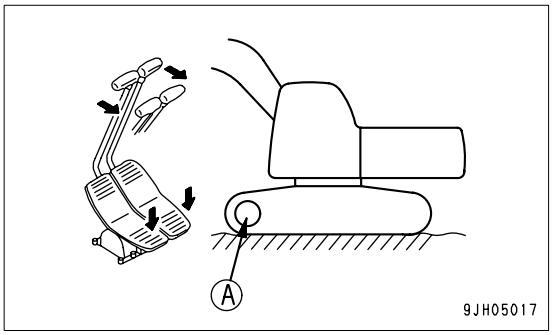
- When the sprocket (A) is at the rear of the machine

  Push levers (5) forward slowly or depress the front part of pedals (6) slowly to move the machine off.



- When the sprocket (A) is at the front of the machine

  Pull levers (5) backward slowly or depress the rear part of pedals (6) slowly to move the machine off.

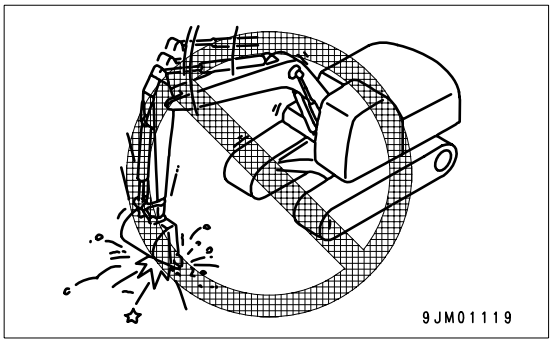


3. For machines equipped with a travel alarm, check that the alarm sounds. If the alarm does not sound, please contact your Komatsu distributor for repair.

REMARK
In cold temperatures, if the machine travel speed is not normal, carry out the warming-up operation thoroughly.
In addition, if the undercarriage is clogged with mud and the machine travel speed is not normal, remove the soil and mud from the undercarriage.

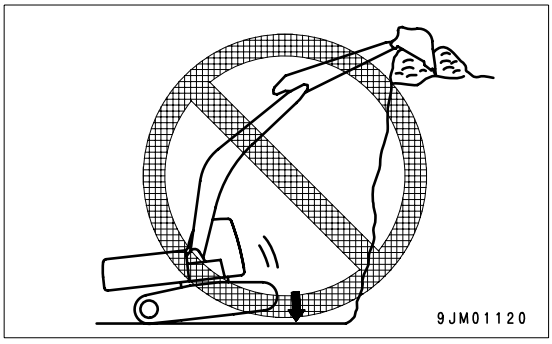
Operations Using Bucket Dropping Force

Do not use the dropping force of the machine for digging, or use the dropping force of the bucket as a pickaxe, breaker, or pile driver. This will markedly reduce the life of the machine.



Operations Using Machine Dropping Force

Do not use the dropping force of the machine for digging.



Digging Hard Rocky Ground

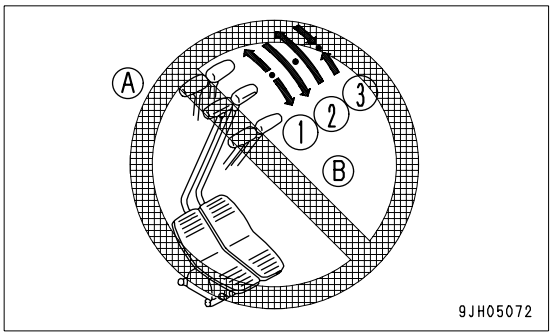
Do not attempt to directly excavate hard rocky ground with the work equipment. It is better to excavate it after breaking up by some other means. This will not only save the machine from damage but make for better economy.

Sudden Lever Shifting High Speed Travel

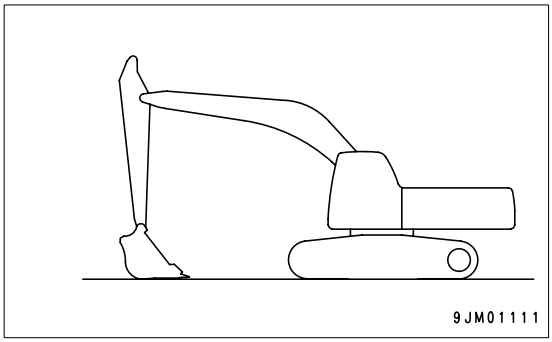
(1) Never carry out sudden lever shifting as this may cause sudden starting.

(2) Avoid sudden lever shifting from forward (A) to reverse (B) (or from reverse (B) to forward (A)).

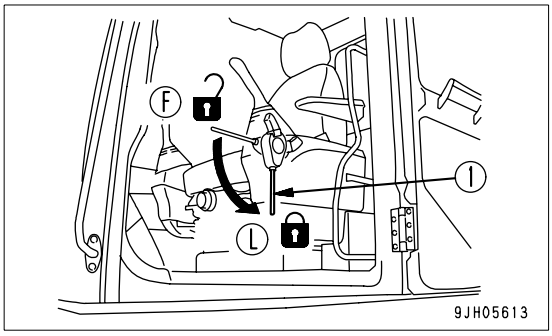
(3) Avoid sudden lever shifting change such as sudden stopping from near top speed (lever release operation).



3. Lower the bucket horizontally until the bottom touches the ground.



4. Set safety lock lever (3) in the LOCK position.

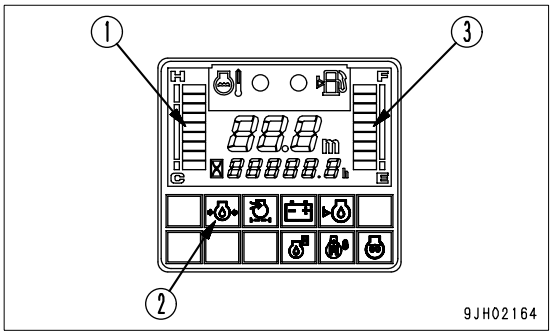


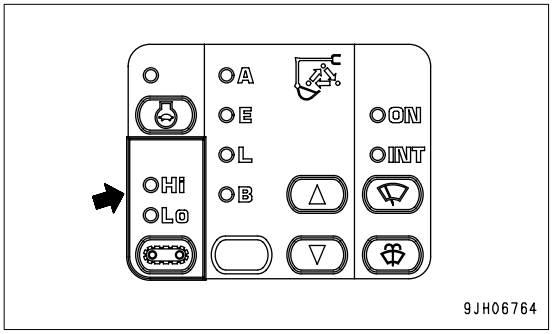
5. Stop the engine. For details of the procedure for stopping the engine, see “STOPPING THE ENGINE (3-83)“.

CHECK AFTER SHUT OFF ENGINE

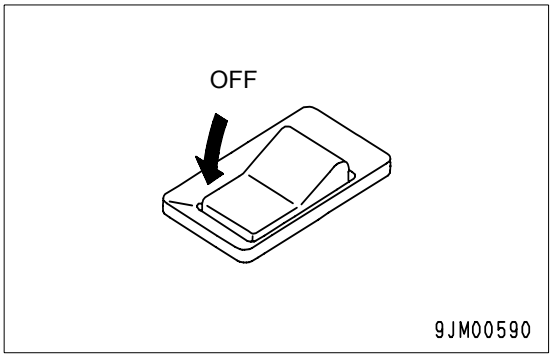
Use the machine monitor to check engine water temperature (1), engine oil pressure (2), and fuel level (3).

REMARK
After stopping the engine, if the starting switch is turned within approx. 10 seconds to the ON or START position to start the engine again, the monitor display is not reset, and the screen before the starting switch was turned OFF is displayed.

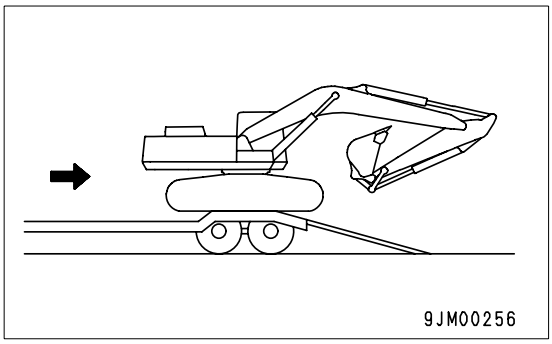




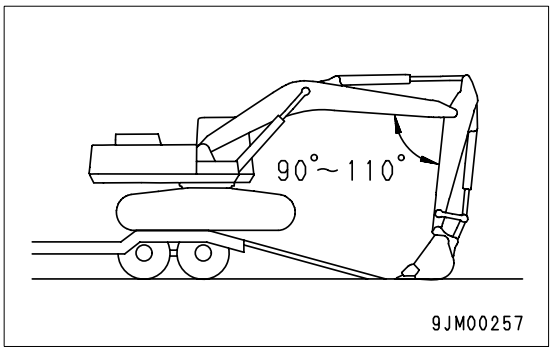
8. Turn the swing lock switch OFF to release the swing lock.
   - When the swing lock switch is turned OFF, display monitor (4) goes off.



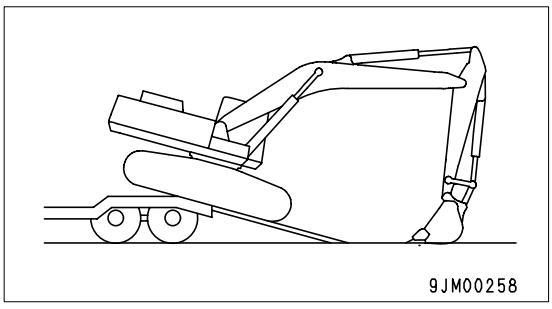
9. Raise the work equipment, pull in the arm under the boom, then move the machine slowly.
10. When the machine is horizontal on top of the rear wheels of the trailer, stop the machine.



11. When moving from the rear of the trailer on to the ramps, set the angle of the arm and boom to 90° to 110°, lower the bucket to the ground, then move the machine slowly.



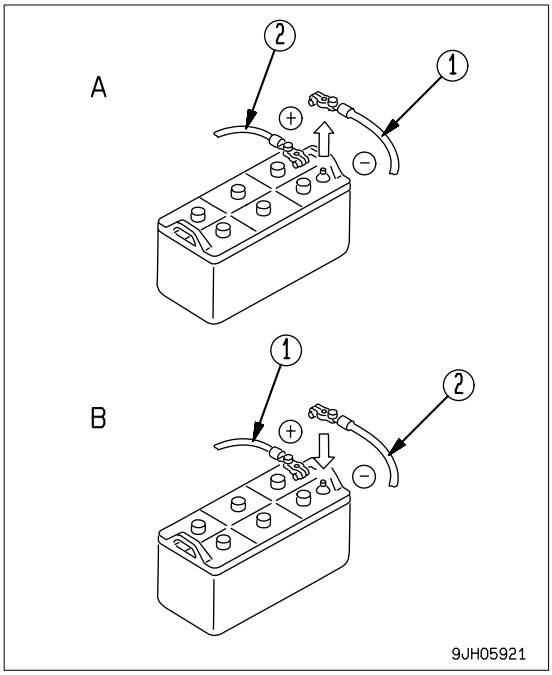
12. When moving down the ramps, operate the boom and arm slowly to lower the machine carefully until it is completely off the ramps.



DISCHARGED BATTERY

⚠ WARNING

- **It is dangerous to charge a battery when mounted on a machine. Make sure that it is dismounted before charging.**
- **When checking or handling the battery, stop the engine and turn the starting switch key to the OFF position.**
- **The battery generates hydrogen gas, so there is a hazard of explosion. Do not bring lighted cigarettes near the battery, or do anything that will cause sparks.**
- **Battery electrolyte is dilute sulphuric acid, and it will attack your clothes and skin. If it gets on your clothes or on your skin, immediately wash it off with a large amount of water. If it gets in your eyes, wash it out with fresh water and consult a doctor.**
- **When handling batteries, always wear protective goggles and rubber gloves.**
- **When removing the battery, first disconnect the cable from the ground (normally the negative (-) terminal). When installing, install the positive (+) terminal first. If a tool touches the positive terminal and the chassis, there is danger that it will cause a spark, so be extremely careful.**
- **If the terminals are loose, there is danger that the defective contact may generate sparks that will cause an explosion. Terminals should be connected firmly.**
- **When removing or installing the terminals, check which is the positive (+) terminal and which is the negative (-) terminal.**



Battery Removal and Installation

- Before removing the battery, remove the ground cable (normally connected to the negative (-) terminal).

  If any tool touches between the positive terminal and the chassis, there is a hazard of sparks being generated.
- When installing the battery, connect the ground cable last.
- When replacing the battery, secure it with battery fitting.

  Tightening torque:Tightening battery terminal: 9.8 to 14.7 N·m (1 to 1.5 kgf·m)

Dusty Jobsite

When working at dusty worksites, do as follows:

- Inspect the air cleaner clogging monitor frequently to see if the air cleaner is clogged.

  Clean the air cleaner element at a shorter interval than specified.
- Clean the radiator core frequently to avoid clogging.
- Clean and replace the fuel filter frequently.
- Clean electrical components, especially the starting motor and alternator, to avoid accumulation of dust.
- When inspecting or changing the oil, move the machine to a place that is free of dust to prevent dirt from getting into the oil.

Avoid Mixing Lubricants

If a different brand or grade of oil has to be added, drain the old oil and replace all the oil with the new brand or grade of oil. Never mix different brand or grade of oil.

Locking the Inspection Covers

Lock inspection cover securely into position with the lock bar. If inspection or maintenance is performed with inspection cover not locked in position, there is a hazard that it may suddenly blown shut by the wind and cause injury to the worker.

Hydraulic System - Air Bleeding

When hydraulic equipment has been repaired or replaced, or the hydraulic piping has been removed and installed again, the air must be bled from the circuit. For details, see “BLEEDING AIR FROM HYDRAULIC SYSTEM (4-43)“.

Hydraulic Hose Installation

- When removing parts at locations where there are O-rings or gasket seals, clean the mounting surface, and replace with new parts.

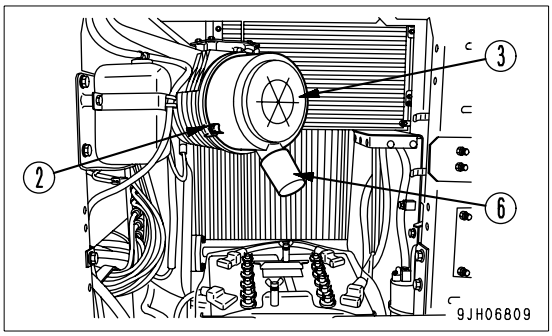
  When doing this, be careful not to forget to assemble the O-rings and gaskets.
- When installing the hoses, do not twist or bend them into loops with a small radius.

  This will cause damage to the hose and drastically reduce its service life.

No.	Supplier	Engine Oil [CD or CE] SAE10W, 30, 40 10W30, 15W40 (The 15W40 oil marked * is CE.)	Gear Oil [GL-4 or GL-5] SAE80, 90, 140	Grease [Lithium-Base] NLGI No.2	Anti-freeze Coolant [Ethylene Glycol Base] Permanent Type
14	PENNZOIL	*Superme duty fleet motor oil	Multi-purpose 4092 Multi-purpose 4140	Multi-purpose white grease 705 707L White-bearing grease	Anti-freeze and summer coolant
15	PETRO-FINE	FINA kappa TD	FINA potonic N FINA potonic NE	FINA marson EPL2	FINA tamidor
16	SHELL	Rimura X	Spirax EP Spirax heavy duty	Albania EP grease	-
17	SUN	-	Sunoco GL5 gear oil	Sunoco ultra prestige 2EP Sun prestige 742	Sunoco antifreeze and summer coolant
18	TEXACO	*Ursa super plus Ursa premium	Multigear	Multifak EP2 Starplex 2	Coda 2055 startex antifreeze coolant
19	TOTAL	Rubia S *Rubia X	Total EP Total Transmission TM	Multis EP2	Antigal/antifreeze
20	UNION	*Guardol	MP gear lube LS	Unoba EP	-
21	VEEDOL	*Turbostar *Diesel star MDC	Multigear Multigear B Multigear C	-	Antifreeze

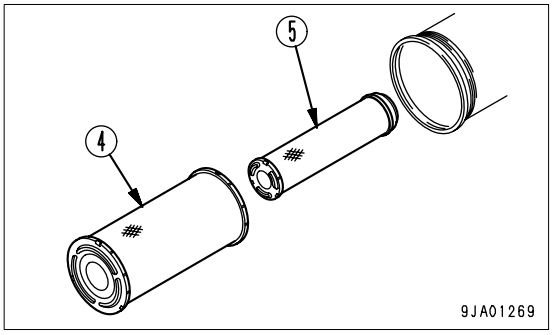
Install Air Cleaner Element

1. Open the battery room door on the left side of the machine, remove clips (2) at 3 places, then take out cover (3).



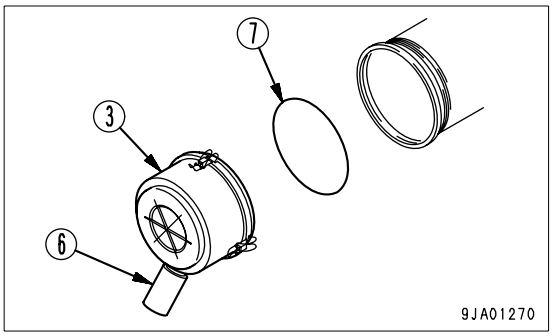
2. Remove outer element (4).

   Do not remove inner element (5) at this time, however.



NOTICE
When cleaning cover (3), do not remove evacuator valve (6).

3. Clean the inside of the air cleaner body and the cover (3).

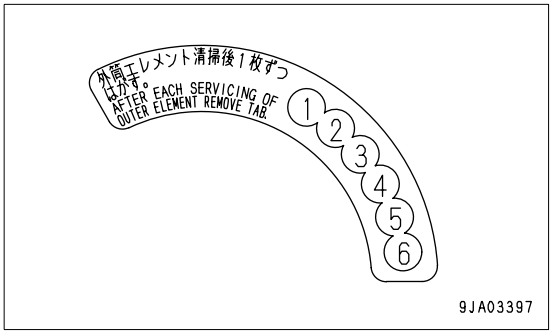


4. Remove inner element (5), then install a new inner element immediately.

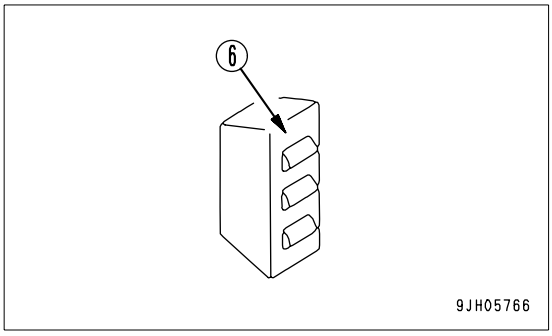
⚠ CAUTION

When installing the cover (3), check O-ring (7) and replace it if there are any scratches or damage.

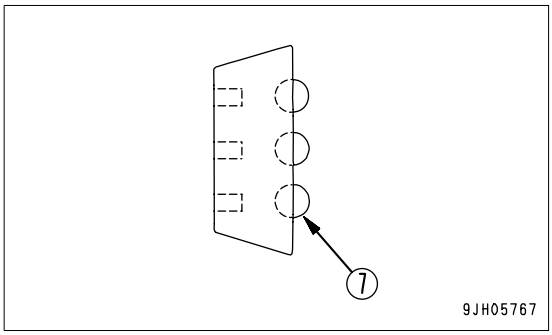
5. Set the cleaned outer element in position, then secure cover (3) with mounting clips (2).
6. Replace the seal attached to cover (3) with new one.



- Rubber (6) of the rubber pin lock is cut and the steel ball is about to come out.

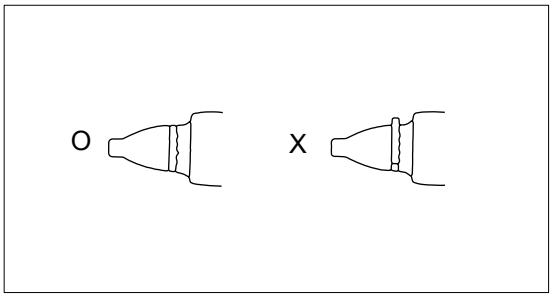


- Steel ball (7) sinks in when it is pushed by hand.



4. Clean the surface of adapter (4) and remove the soil with a knife.
5. Hit rubber pin lock (3) by hand or with a metal hammer and push it into the hole in adapter (4).

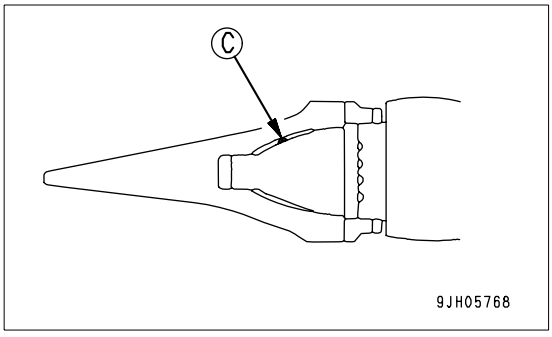
   When doing this, be careful not to let rubber pin lock (3) fly out from the surface of adapter (4).
6. Clean the inside surface of tooth (1), then install to adapter (4). If there is any mud stuck to it or any protrusion, tooth (1) will not fit properly in adapter (4) and the fitting contact will be poor.



7. Fit teeth (1) to adapter (4), and confirm that when the pointer is pressed strongly, the rear face of the hole for the pin of the teeth is at the same level as the rear face of the hole for the pin of the adapter.

   If the rear face of the pin hole of tooth (1) protrudes in front of the rear face of the pin hole of adapter (4), do not knock the pin in.

   If this happens, there is something (C) preventing the tooth (1) from fitting completely in adapter (4), so locate the problem and remove the obstruction. When tooth (1) fits completely in adapter (4), knock in lock pin (2).

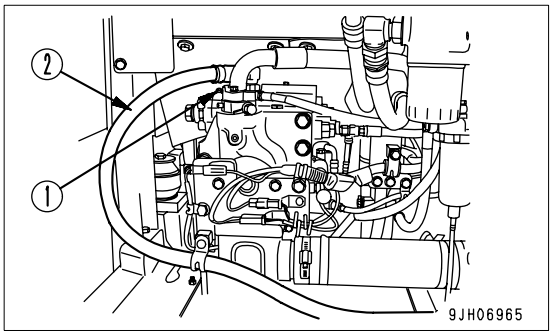


BLEEDING AIR FROM HYDRAULIC SYSTEM

For details, see “STARTING ENGINE (3-72)“. If it is necessary to refer to the items for starting the engine, moving the machine off, steering, or stopping, see the OPERATION section.

1. Bleeding air from pump
2. Loosen air bleed plug (1) and check that oil oozes out from the air bleeder.
3. If the oil does not ooze out, remove the drain hose from the hydraulic pump case and fill the pump case completely with hydraulic oil through drain port (2).

   Hold the removed hose firmly, keeping the mouthpiece higher than the oil level in the hydraulic tank so that oil will not spill out of the hose.
4. After completing the air bleed operation, tighten air bleed plug (1) and install the drain hose.



NOTICE
If the drain hose is installed first, oil will spurt out from plug hole (1).
If the pump is operated without filling the pump case with hydraulic oil, abnormal heat will be generated and this may cause an unexpected damage to the pump.

5. Starting engine

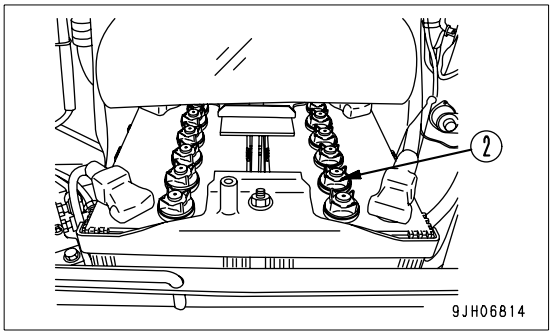
   Start the engine, referring to “STARTING ENGINE (3-72)“.

   Run the engine at low idling for 10 minutes after starting, then start operations.

6. Bleeding air from cylinders
7. Run the engine at low idling, and extend and retract each cylinder 4 to 5 times, taking care so that a cylinder may not be brought up to its stroke end. (Stop the cylinder approx. 100 mm short of its stroke end)
8. Next, operate each cylinder 3 to 4 times to the end of its stroke.
9. Finally, operate each cylinder 4 to 5 times to the end of its stroke to completely remove the air.

NOTICE
If the engine is run at high speed immediately after startup or a cylinder is pushed up to its stroke end, air taken inside the cylinder may cause damage to the piston packing.

2. If the electrolyte has dropped more than half way between the U.L and L.L range, remove cap (2) immediately and add distilled water (such as commercially available distilled water for batteries) up to the U. L line.
3. After adding distilled water, tighten cap (2) securely.

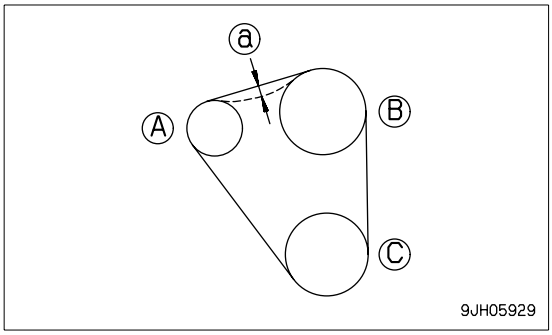


REMARK
If distilled water is added to above the U.L. line, use a syringe to lower the level to the U.L. line. Neutralize the removed fluid with baking soda (sodium bicarbonate), then flush it away with a large amount of water or consult your Komatsu distributor or battery maker.

CHECK AND ADJUST COOLING FAN BELT TENSION

Checking

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



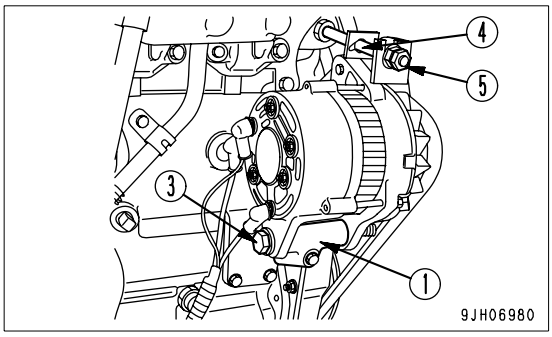
(A): Alternator pulley

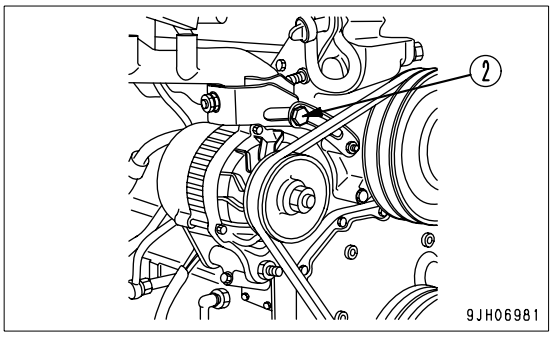
(B): Fan pulley

(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 when pressed with a finger force of approx. 58.8 N (6 kgf).
3. Tighten locknut (4) and bolts and nuts (2) and (3) to hold alternator (1) in position.

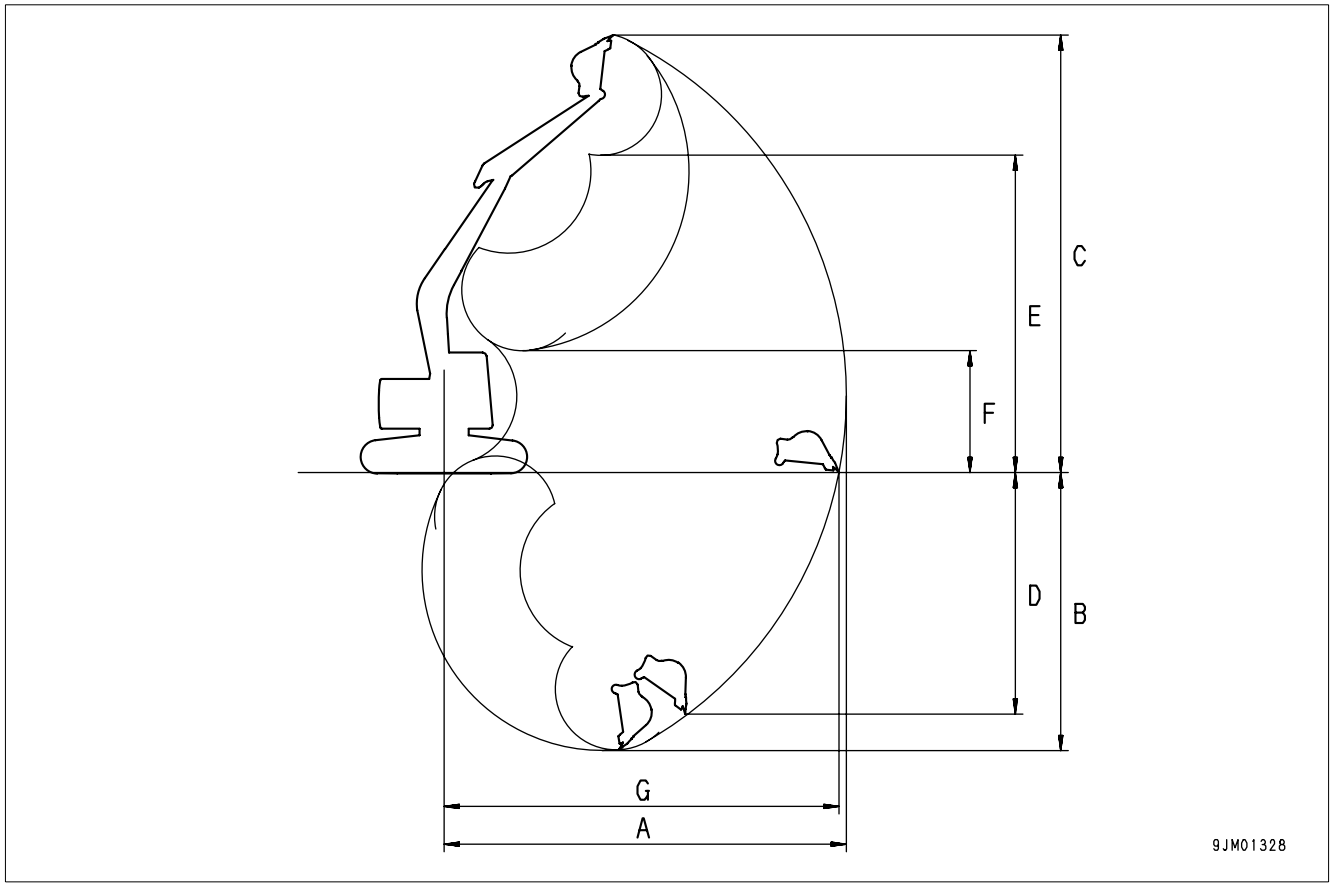




4. Check for damage to the pulleys, and wear of the V-groove and V-belt. Be particularly careful to check that the V-belt is not in contact with the bottom of the V-groove.
5. If the belt has elongated and there is no more allowance for adjustment, or if the belt is cut or cracked, replace the belt.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

PC130-7K WORKING RANGE (1-pc boom)

	Working ranges	Unit	PC130-7
A	Max. digging reach	mm	8,290
B	Max. digging depth	mm	5,520
C	Max. digging height	mm	8,610
D	Max. vertical wall digging depth	mm	4,940
E	Max. dumping height	mm	6,170
F	Min. dump height	mm	-
G	Max. digging reached at ground level	mm	8,170



PRECAUTIONS WHEN SELECTING

- Please consult your Komatsu distributor before installing attachments or options to the machine. Depending on the type of attachment or option, it may be necessary to install a front guard, overhead guard, or other safety structure to the machine. There may also be problems of the attachment or option hitting the operator's cab.
- Install only attachments or options authorized by Komatsu. Komatsu cannot accept any responsibility for any accident, damage, or failure caused by the use of attachments or options not authorized by Komatsu.

READ THE INSTRUCTION MANUAL THOROUGHLY

- Before installing or using any attachment or option, make sure that you thoroughly read and understand the instruction manuals for the machine and the attachment or option.
- If you lose the instruction manual or it is damaged, always obtain an new copy from the attachment manufacturer or your Komatsu distributor.

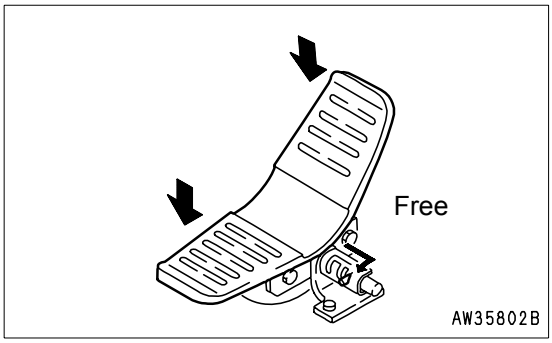
PRECAUTIONS WHEN REMOVING OR INSTALLING

When removing or installing the attachment or option, obey the following precautions, and take care to ensure safety during the operation.

- Carry out the removal and installation operation on a flat, firm ground surface.
- When the operation is carried out by two or more workers, choose the leader and follow his instructions.
- Use a crane when handling heavy objects (more than 25 kg). (The crane must be operated by a qualified operator.)
- Never go under a load raised by the crane.
- Do not carry out operations with the load kept raised by the crane. Always use a stand to prevent the load from falling.
- When removing a heavy part, consider the balance after it is removed. To prevent the machine from tipping over, set a support in position if necessary before removing the part.
- Before installing or after removing the attachment or option, set it in a stable condition to prevent it from falling over.
- For details of the removal or installation operation, please consult your Komatsu distributor.

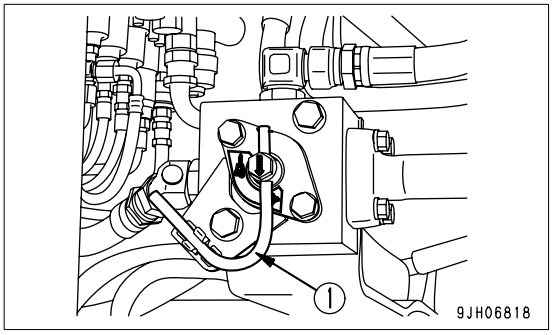
When Using General Attachment Such as Crusher

When the lock pin is set at the FREE position and the front or rear of the pedal is depressed, the attachment is actuated.



Precautions when using

- Check that the stopper valve is in the FREE position.
- Check that the selector valve is in the position for using the general attachment such as crusher.
- Check that stopper bar (1) for the selector valve spool is installed at the crusher (general attachment) position.
  For details of the oil flow, see “HYDRAULIC CIRCUIT (6-11)“.



- For details of other precautions when handling the breaker, read and use correctly the instruction manual provided by the breaker manufacturer.

RECOMMENDED ATTACHMENT OPERATIONS

Below described are instructions which must be followed without fail when doing the work using a hydraulic excavator equipped with an attachment.

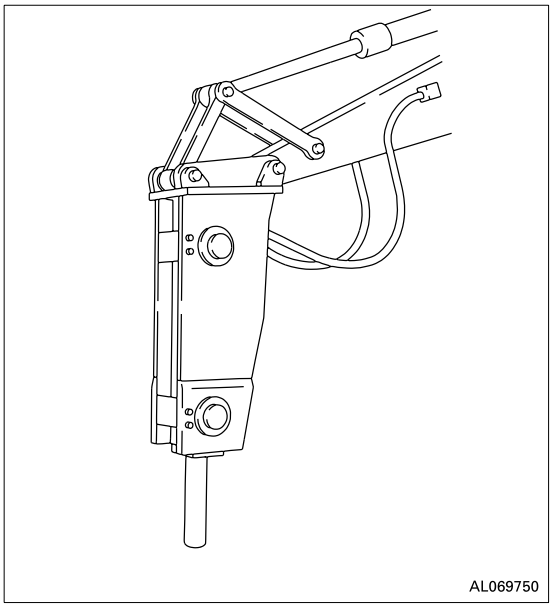
NOTICE
Select the optimum model of attachment for a hydraulic excavator on which it is to be mounted. Depending on machine models of hydraulic excavator, the kind of attachments or the model of specific attachments that can be mounted will vary. Hence, consult your Komatsu distributor for the selection of optimum attachments.

HYDRAULIC BREAKER

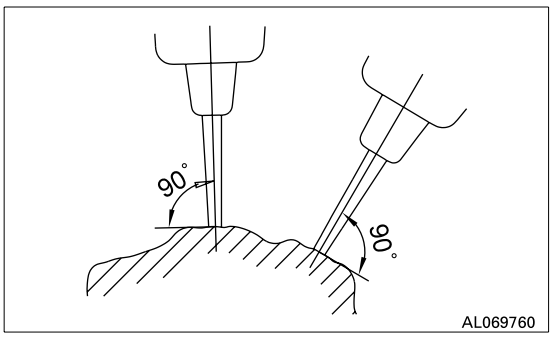
Main Applications

- Crushed rock
- Demolition work
- Road construction

This attachment can be used for a wide range of applications including demolition of buildings, breaking up road surfaces or slag, tunnel work, rock crushing and breaking operations in quarries.

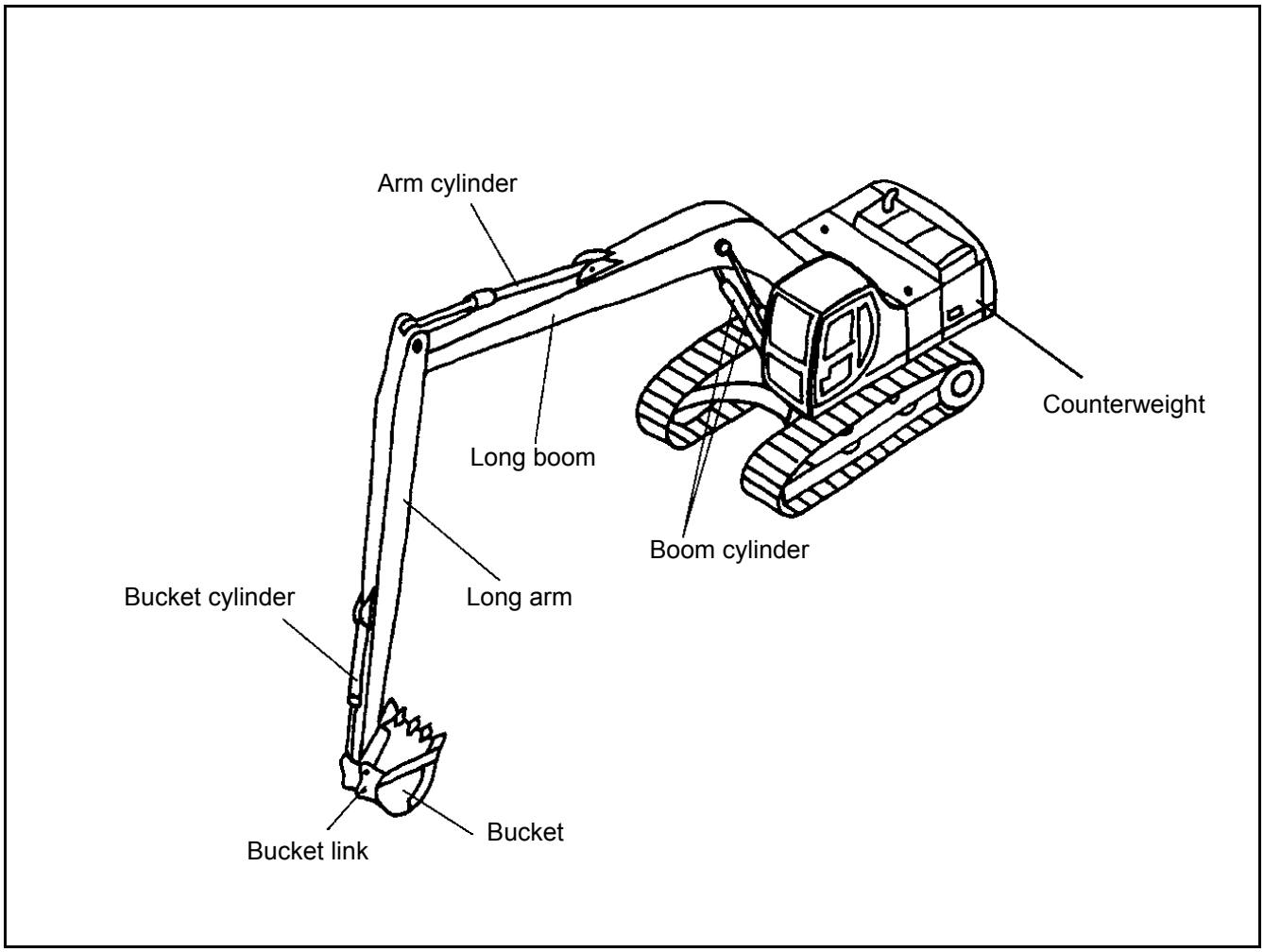


Keep the chisel pushed perpendicularly against the impact surface when carrying out breaking operations.



SUPER LONG FRONT BOOM AND ARM

OPERATION INSTRUCTION



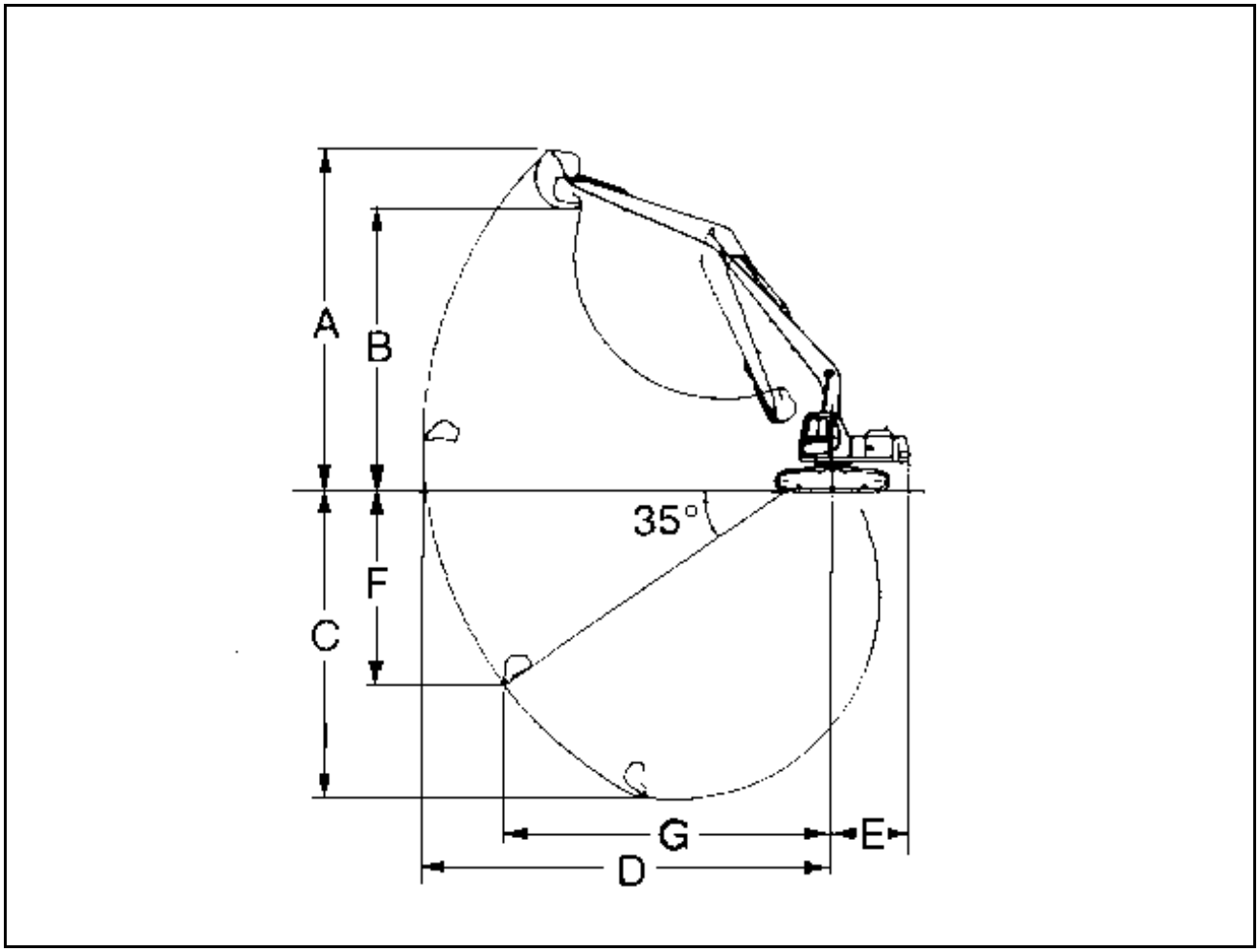
OPERATING WEIGHT: 13276KG

PERFORMANCE:

- Max digging radius: 12.3m
- Bucket capacity CECE (SAE): 0.28 (0.3)m^3

REMARK
Specifications are subject to change without notice.

WORKING RANGE OF SUPER LONG FRONT



		PC130 - 7 (super long front)
A	Maximum digging height (mm)	11050
B	Maximum dumping height (mm)	9050
C	Maximum digging depth (mm)	9410
D	Max digging reach (mm)	12300
E	Tail swing radius (mm)*	2110
F	Maximum digging depth on 35 degree slope (mm)	5600
G	Maximum digging reach on 35 degree slope (mm)	10070
	Operating weight of machine (kg)	13276
	Maximum bucket capacity (m3), CECE (SAE)	0.28 (0.3)
	Standard shoe width (mm)	500
	Ground Pressure (with std shoe) (kPa)	0.43