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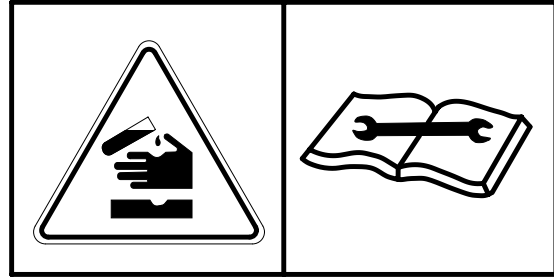
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15) BATTERY (Item 25)

This warning label is positioned on the battery box.

- ▲ Electrolyte containing sulfuric acid cause severe burns. Avoid being in contact with skin, eyes or clothes. In the event of accident flush with sufficient water, call a physician immediately.
- ※ Maintain the electrolyte at the recommended level. Add distilled water to the battery only when starting up, never when shutting down. With electrolyte at proper level, less space may cause the gases to be accumulated in the battery.



21070FW05

16) HYDRAULIC OIL LUB (Item 26)

This warning label is positioned on the top of the hydraulic oil tank.

- ※ Do not mix with different brand oils.
- ▲ Never open the filler cap while engine running or at high coolant temperature.
- ▲ Loosen the cap slowly and release internal pressure completely.

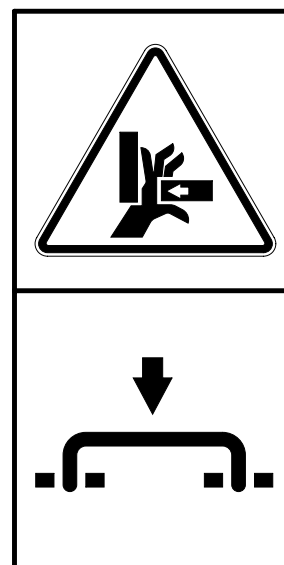


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17) STAY FIX (Item 29)

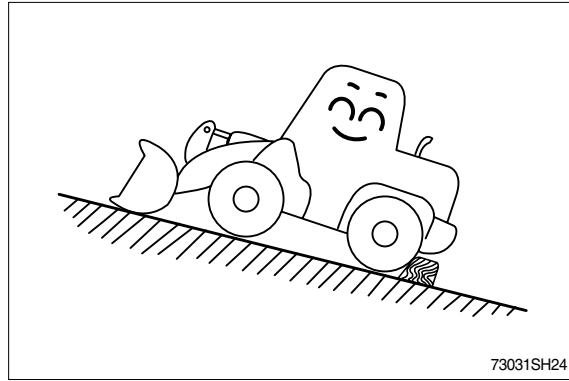
The warning label is positioned on the engine side door.

- ▲ Be sure to support the stay when the door needs to be opened.
- ▲ Be careful that the opened door may be closed by the external or natural force like strong wind.

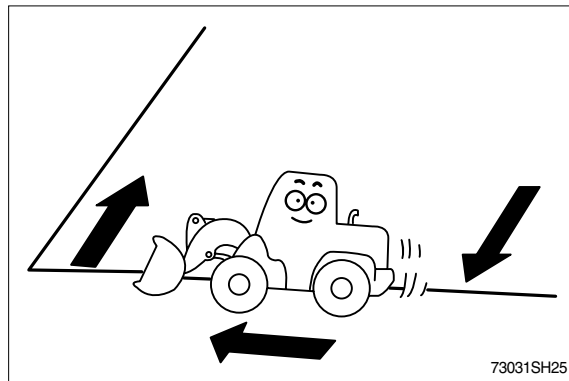


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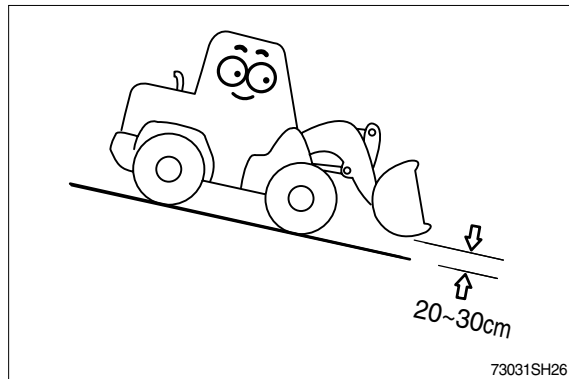
Avoid parking and stopping on a slope.
Lower the bucket to the ground and block the tire when parking.



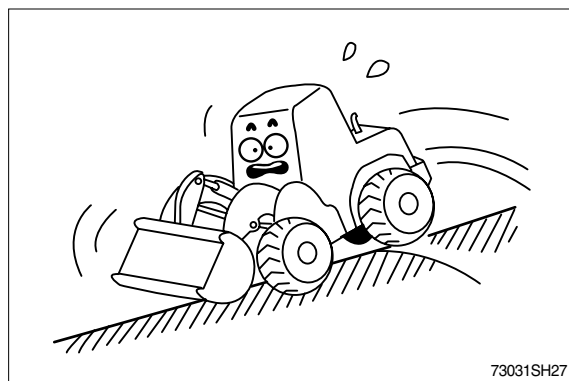
Avoid traveling in a cross direction on a slope as it can cause the danger of rolling over and sliding.



Traveling on the slope is dangerous.
Be sure to operate slowly when driving down a slope and maintain the bucket at a height of 20~30cm(1ft) above the ground so that it can be used as brake in an emergency.

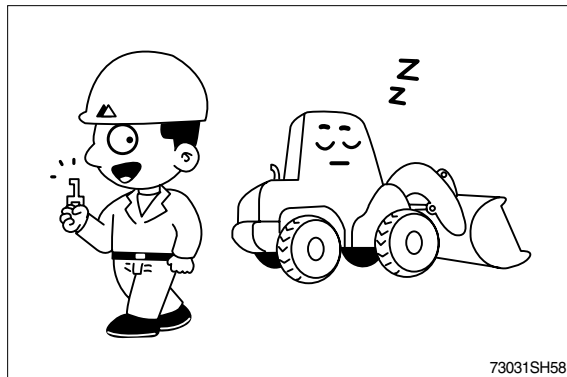


Steering of the machine while traveling on a slope is dangerous.
When an inevitable turning of direction is required, turn on the flat and solid ground.

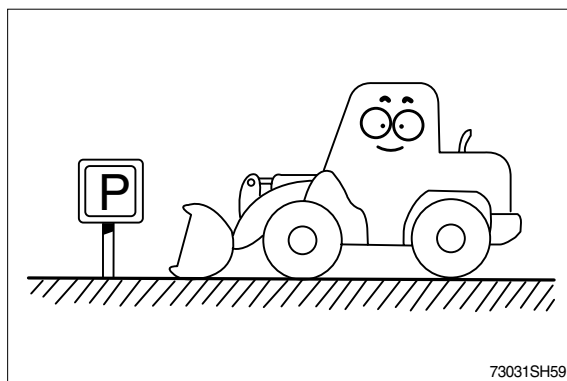


4. PARKING

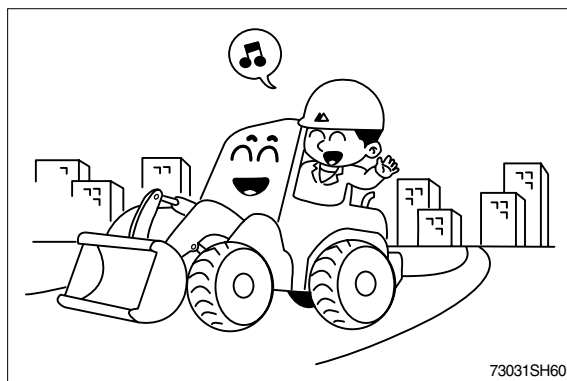
When leaving the machine lower the bucket to the ground completely and put the safety lever at parking position then remove the key. Lock the cab door.



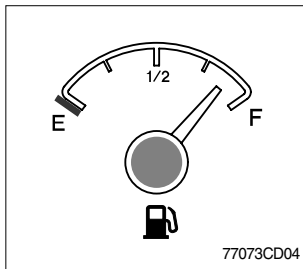
Park the machine in the flat and safe place.



Hope you can work easily and safely observing safety rules.
For safe operation, observe all safety rules.

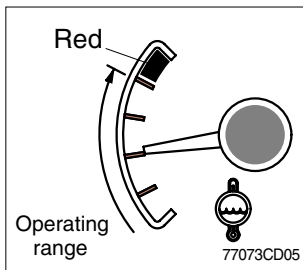


2) FUEL GAUGE



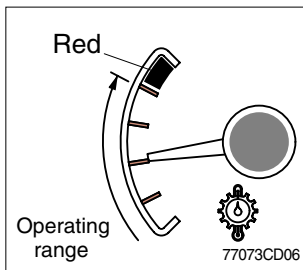
- (1) This gauge indicates the amount of fuel in the fuel tank.
 - (2) Fill the fuel when the indicator moves **E** point, refuel as soon as possible to avoid running out of fuel.
- ※ **If the gauge indicates below E point even though the machine is on the normal condition, check the electric device as that can be caused by the poor connection of electricity or sensor.**

3) ENGINE COOLANT TEMPERATURE GAUGE



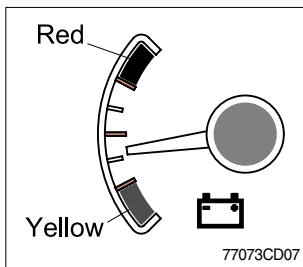
- (1) This indicates the temperature of coolant.
 - Red range : Above 104° C (219° F)
- (2) Keep idling engine at low speed until the indicator is in the operating range.
- (3) If the indicator is in the red range, turn OFF the engine, check the radiator and engine.

4) TRANSMISSION OIL TEMPERATURE GAUGE



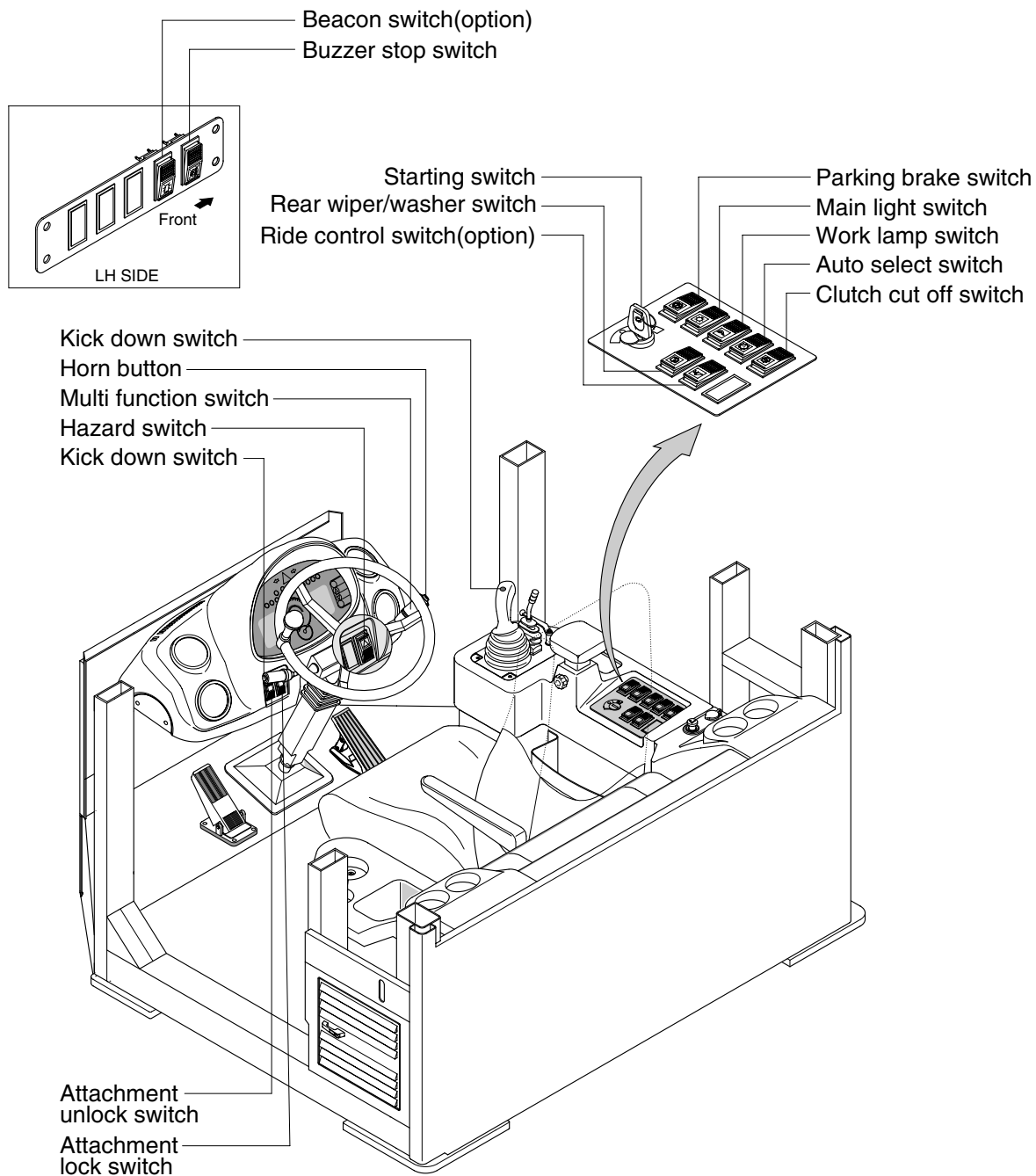
- (1) This range indicates the temperature of transmission oil.
 - Red range : Above 107° C (225° F)
- (2) Keep idling engine at low speed until the indicator is in the operating range.
- (3) If the indicator is in the red range, it means the transmission is overheated. Be careful that the indicator does not move into the red range.

5) BATTERY VOLT METER



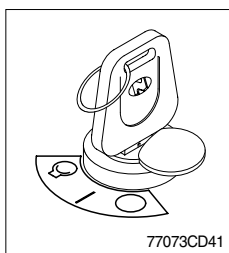
- (1) This gauge indicates the voltage in the charging system when the engine is running.
- (2) If the indicator is below 24V (Yellow range), it means that the electricity is being discharged. If the indicator is above 30V (Red range), an unusually high voltage may damage the alternator. Check the charging system in both cases.

3. SWITCHES



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1) STARTING SWITCH



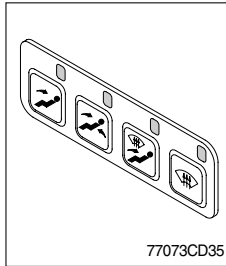
(1) There are three positions, OFF, ON and START.

- ○ (OFF) : None of electrical circuits activate.
- | (ON) : All the systems of machine operate.
- Ⓚ (START) : Use when starting the engine.

Release key immediately after starting.

※ **Key must be in the ON position with engine running maintain electrical and hydraulic function and prevent serious machine damage.**

5) OUTLET CHANGE OVER SWITCH



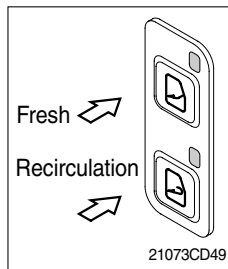
(1) There are four steps of air flow.

Switch position		Mode			
Outlet	A			●	●
	B	●	●	●	
	C		●		●
	D	●	●	●	

(2) When defroster switch operating, INLET switch turns to FRESH mode and air conditioner switch turns ON.

(3) In case of heating range(5~Max warm), air conditioner won't turn ON.

6) INLET CHANGE OVER SWITCH



(1) It is possible to change the air-inlet method.

① **Fresh**

Inhaling air from the outside to pressurize cab inside.

※ **Check out the fresh air filter periodically to keep a good efficiency.**

② **Recirculation**

It recycles the heated or cooled air to increase the energy efficiency.

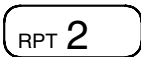
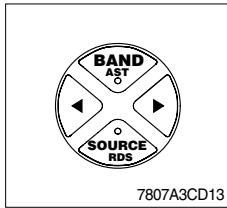
※ **Change air occasionally when using recirculation for a long time.**

※ **Check out the recirculation filter periodically to keep a good efficiency.**

(2) Recirculation function operates when the system is OFF but it can be changed whenever needed.

■ CD PLAYER

(1) Winding / Rewinding button



① CD playback

This CD player is suitable only for 12cm disc, do not use irregular shaped CD.

- Slide the disc into the slot with label facing upwards. Playback starts.
- If a disc is already inserted :
Press SOURCE to select CD as the source.
Playback starts.

② Previous / Next track(◀ or ▶)

- Short press the ◀ or ▶ button to select the desired track.
- Playback resume with the chosen track.

③ Fast rewind / Fast forward(◀ or ▶)

- Long press the ◀ or ▶ button for more than 2 seconds to quickly move rewind or forward through the disc.
- Normal play back resumes when you release the button.

④ Random track playback

- Press RND to activate / deactivate random track playback.

⑤ Repeat track

- Press RPT to activate / deactivate repeat current track.

⑥ Scan track

The scan function enables you to listen to the first few seconds of each track.

- Press SCN to activate / deactivate scan track.

⑦ Disc eject

- Press ▲ to eject the disc.

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5. OPERATION OF THE WORKING DEVICE

※ Confirm the operation of control lever and working device.

- 1) Control lever operates the boom and the bucket.
- 2) When you release the control lever, control lever returns to neutral position automatically.
- 3) When the control lever operates to the position of boom float, boom kick out and bucket leveler ; these function is completed, then the control lever returns to the neutral position.

※ Control lever



Boom lower(1)

Push the control lever forward in order to lower the boom.



Boom raise(2)

Pull the control lever backward in order to raise the boom.



Bucket roll back(3)

Move the control lever toward the left in order to tilt the bucket backward.



Bucket dump(4)

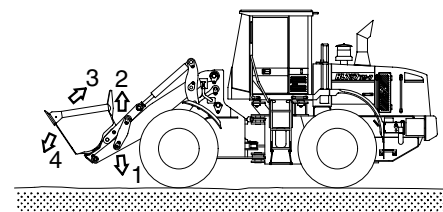
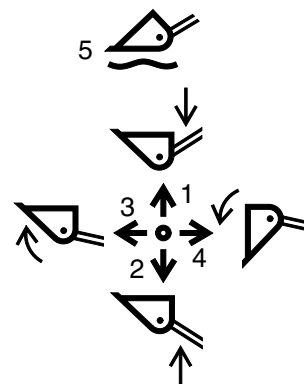
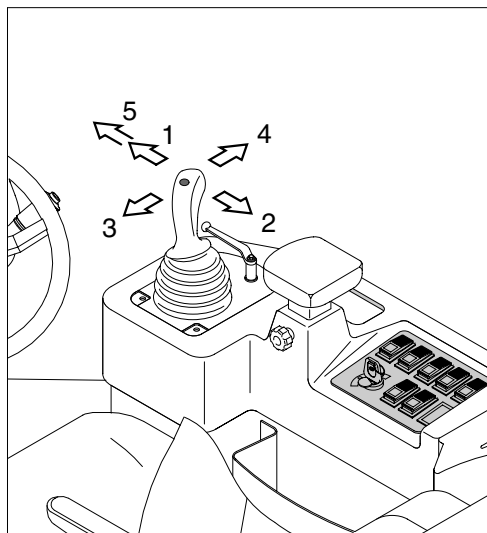
Move the control lever toward the right in order to dump a load from the bucket.



Boom float(5)

Push the control lever forward into the detent.

The boom will lower to the ground. The boom will float along the contour of the ground.



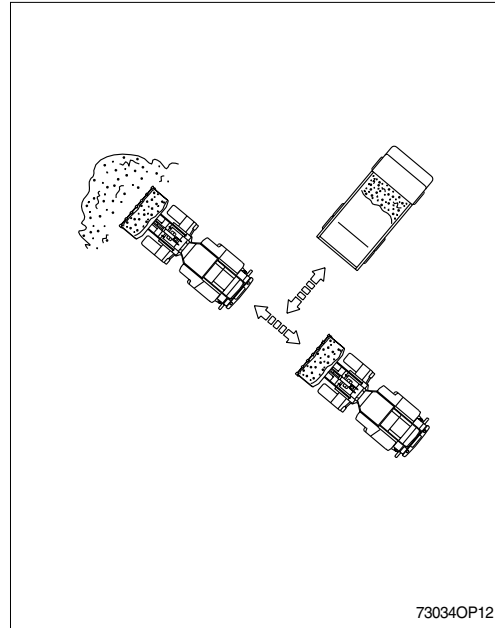
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6) LOADING

Maximum efficiency can be attained by carrying out work in such a way that the swinging angle and the traveling distance are kept as small and short as possible in accordance with the terrain.

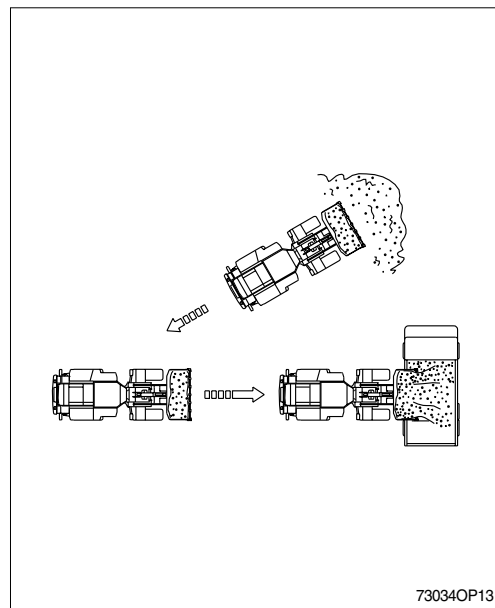
(1) I method

- ① After digging out the soil, move backward and position the dump truck between the heap of soil and the machine to load the soil into the truck.
 - ② This is the fastest and most efficient way to load material.
- ※ **The ground of the jobsite should be always level and do not swing or step on a brake pedal abruptly with the boom raised.**

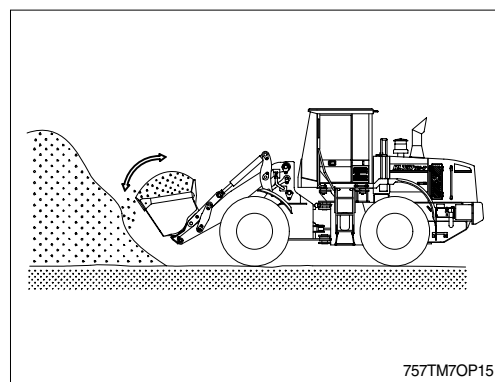


(2) V method

- ① Park the truck at an angle of 60 degrees toward the machine. After digging out, drive backward and position the machine at a right angle with the truck and load the truck with the soil.
- ② Position the machine so that the soil can be dumped in the center of the truck.
If the length of the truck is more than double the width of the bucket, perform the dumping work from forward to backward.
- ③ Move the control lever to the right and dump the bucket.
- ④ Shake the bucket to throw off the soil stuck inside. Move the bucket control lever to the left and right and attach the bucket to the stopper.

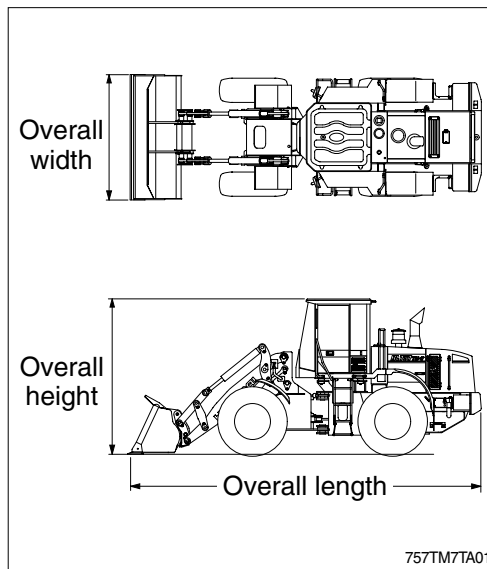


- ⑤ Shake the bucket before setting it to the DUMP position so that loaded materials are evenly distributed inside the bucket. This will prevent materials from slipping back when the bucket is placed in the DUMP position.



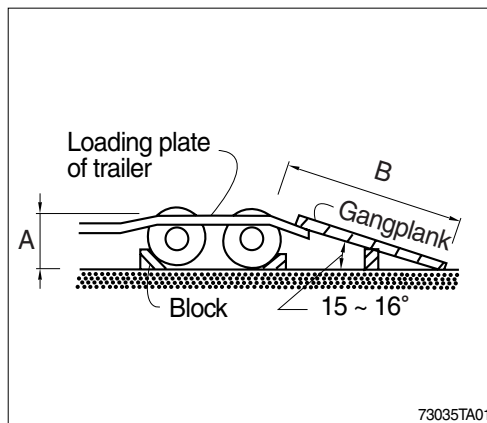
2. PREPARATION FOR TRANSPORTATION

- 1) When transporting the machine, observe the various road rules, road transportation vehicle laws and vehicle limit ordinances, etc.
- 2) Make sure the cooling system has proper antifreeze if moving machine to a cold climate.
- 3) Select proper trailer after confirming the weight and dimension from the page 2-2, 2-3.
- 4) Check the whole route such as the road width, the height of bridge and limit of weight and etc., which will be passed.
- 5) Get the permission from the related authority if necessary.



- 6) Prepare gangplank for safe loading referring to the below table and illustration.

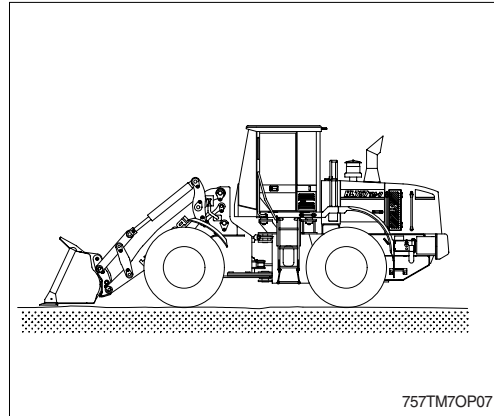
A	B
1.0	3.65 ~ 3.85
1.1	4.00 ~ 4.25
1.2	4.35 ~ 4.60
1.3	4.75 ~ 5.00
1.4	5.10 ~ 5.40
1.5	5.50 ~ 5.75



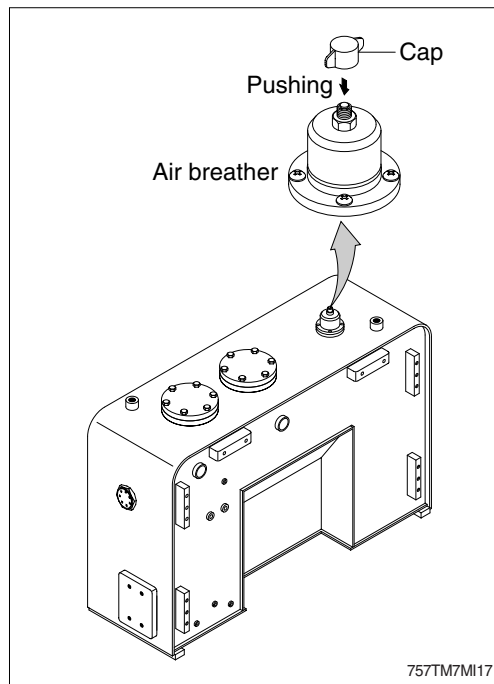
3) RELIEVING THE PRESSURE IN THE HYDRAULIC SYSTEM

※ Spouting of oil can cause the accident when loosening the cap or hose right after the operating of the machine as the machine or oil is on the high pressure on the condition. Be sure to relieve the pressure in the system before repairing hydraulic system.

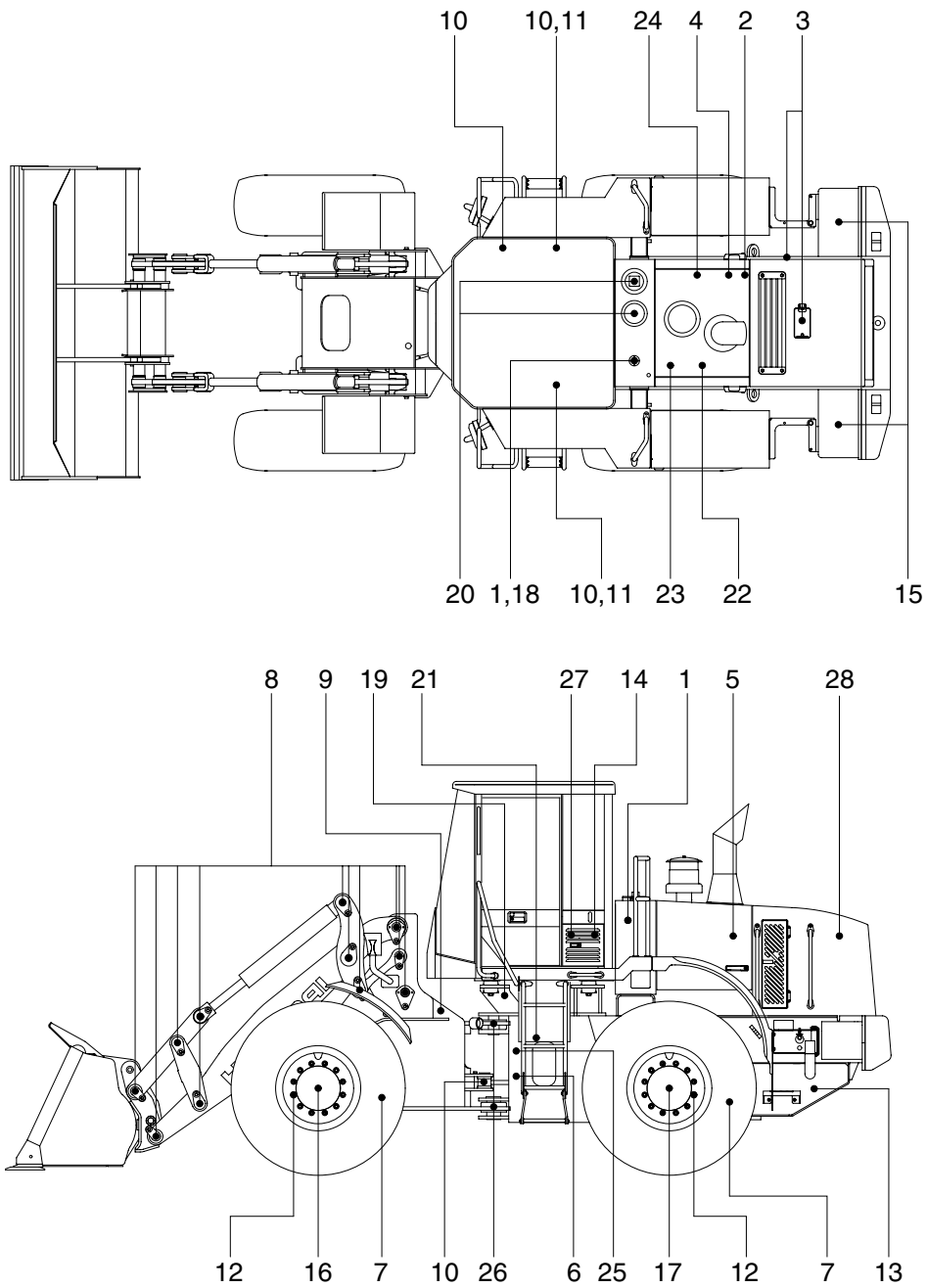
- (1) Place the machine in parking position, and stop the engine.



- (2) Loosen the cap and relieve the pressure in the tank by pushing the top of the air breather.



5. MAINTENANCE CHART

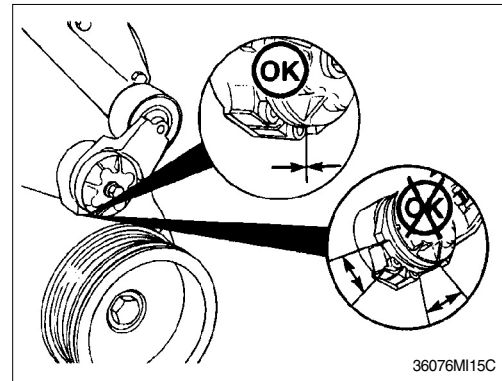


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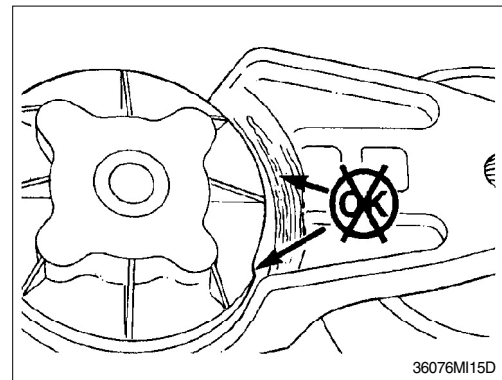
Caution

1. Service intervals are based on the hour meter reading.
2. The number of each item shows the lubrication point on the machine.
3. Stop engine while filling oil, and use no open flames.
4. For other details, refer to the service manual.

- (3) Check that the bottom tensioner arm stop is in contact with the bottom tensioner arm stop boss on the tensioner body. If these two are not touching, the tensioner must be replaced.



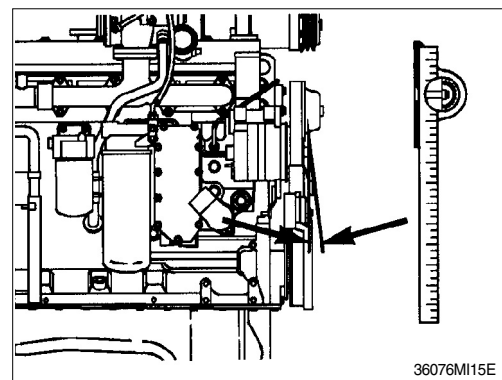
- (4) Inspect the tensioner for evidence of the pivoting tensioner arm contacting the stationary circular base. If there is evidence of these two areas touching, the pivot tube bushing has failed and the tensioner must be replaced.



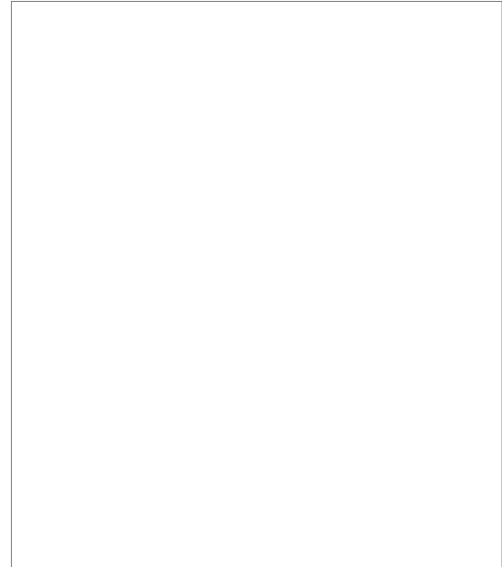
- (5) A worn tensioner that has play in it or a belt that "walks" off its pulley possibly indicates pulley misalignment.

※ **Maximum pulley misalignment is three degrees. This measurement can be taken with a straightedge and an inclinometer.**

- (6) Install the belt.



- ▲ Do not use recycled wheel parts.
- ▲ When removing lockering or inflating tire, use safety cable or chain to ensure safety.
Be sure to bleed air before removing lockering. Never inflate tires unless the lockering is assembled in its place.
- ※ Avoid the followings when traveling.
 - ① Rubbing tires against road bank or rack at cargo-unloading spot.
 - ② Tires slippage during working.
 - ③ Abrupt starting of machine.
 - ④ When oil, grease or gasoline smeared on tire, clean those. Otherwise it may cause of permanent deformation.

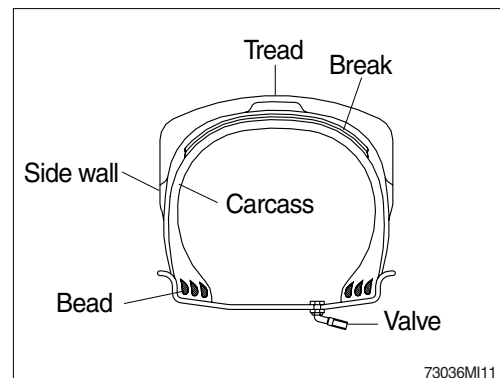


25) REPLACEMENT OF TIRE

- ▲ Disassembly, reassembly, replacement and repair of tire requires special skills and equipment. Contact a tire repair shop.

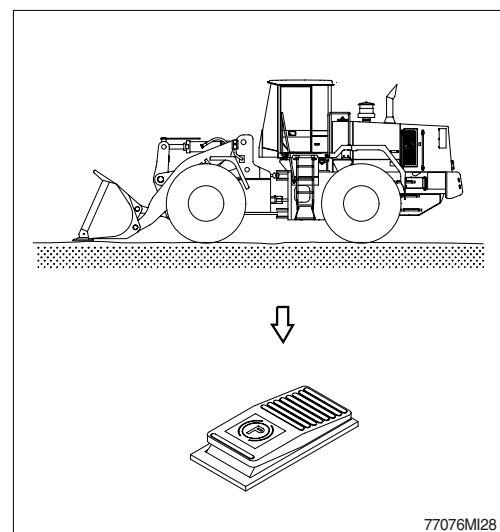
(1) Tires to be replaced

- ① Tires with broken or bent bead wires
- ② Tires exposed more than 1/4 of carcass fly.
- ③ Tires whose carcass is damaged more than 1/3 of the tire width.
- ④ Tires which show fly separation.
- ⑤ Tires which has a radial crack near the carcass.
- ⑥ Tires which are judged to be unsuitable for use because of deformation or damage.



(2) Separation of tire

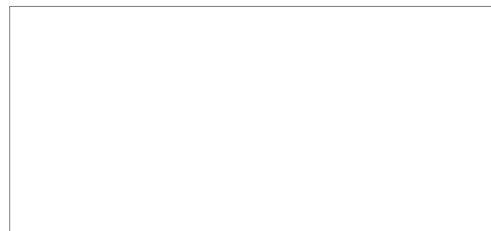
- ① After moving the machine to flat ground, lower the bucket to the ground and turn the parking brake switch ON.



32) REPLACEMENT OF BOLT ON CUTTING EDGE

(1) Replacement time

Replace the cutting edge before it has worn out to the end of bucket.

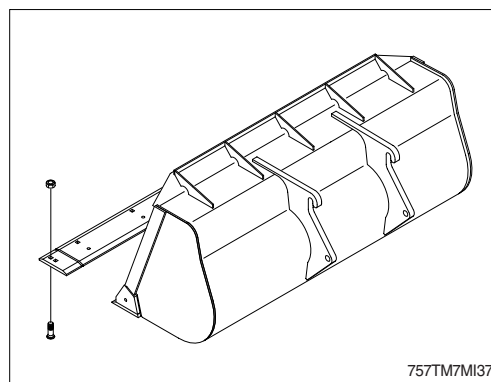
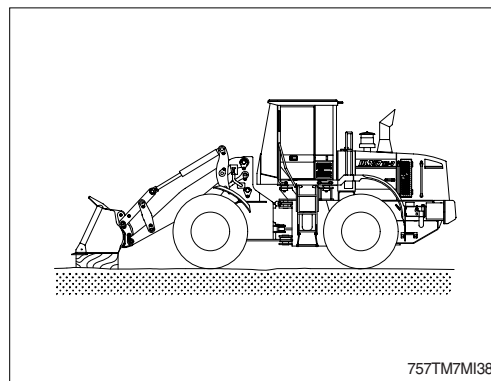


(2) Replacement method

▲ Make sure the work equipment does not move when replacing the cutting edge.

Set the work equipment in a stable position, put the hydraulic safety lock lever in the LOCK position and stop the engine.

- ① Lift the bucket to a proper height and insert blocks so that the bucket does not fall down.
- ② Loosen bolts and nuts, and remove the cutting edge.
- ③ Clean the contacted surface.
- ④ Turn the cutting edge and install on the bucket.
- ※ If both sides have worn out, replace it with new ones.
- ※ If the contacted face of cutting edge has worn out, repair the contacted face of it.
- ⑤ Tighten evenly bolts and nuts to remove the clearance between bucket and cutting edge.
 - Tightening torque : $62.8 \pm 9.4 \text{ kgf} \cdot \text{m}$
($454 \pm 68 \text{ lbf} \cdot \text{ft}$)
- ⑥ After a few hours of operation, retighten bolts.



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