

OPERATION MANUAL

Relex 75-7

SER. NO. HY7570001~

 **HYUNDAI**
HEAVY INDUSTRIES CO.,LTD.

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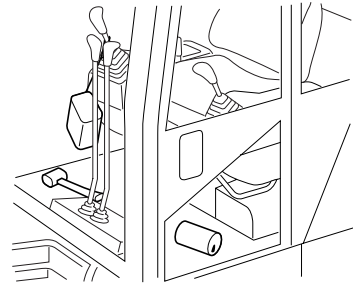
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SAFETY PRECAUTIONS DURING OPERATION

▲ DANGER

Keep the area around the operator's seat clean.

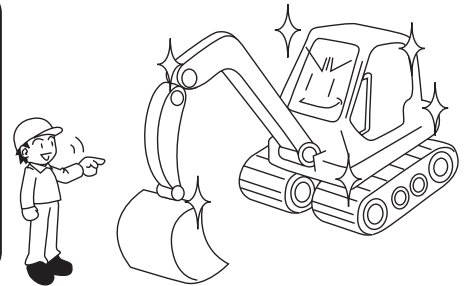
- Do not put anything at the foot of the operator's seat and around the pedals and do not hang anything on the control lever.
The control lever will be actuated by mistake, causing the machine to run away or the work equipment to be actuated. This is hazardous.
- Put unnecessary things for drive operations in good order in the specified place.



▲ WARNING

Make the work visibility sure.

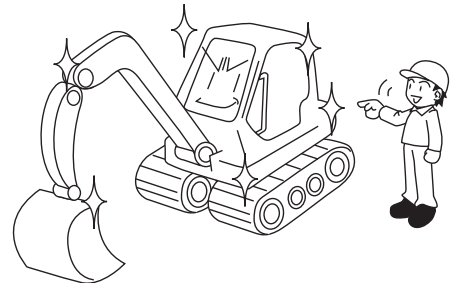
- Wipe out floor surface, levers, handrails, windows, and lights to ensure the visibility.
- In the status where the window gets out of place or is broken, do not perform operations in any case.



▲ WARNING

Inspection of safety devices

- Check all the safety devices including the lock lever and guard for correct installation, damage, and correct function. If any abnormality is found, repair it.
- Using any safety device incorrectly will lead to a serious accident resulting in injury or death. Be sure to use every safety device correctly.

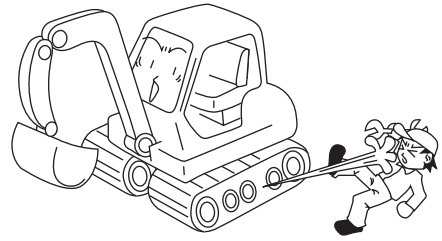


SAFETY PRECAUTIONS DURING INSPECTION AND MAINTENANCE

⚠ WARNING

Take care about high-pressure grease

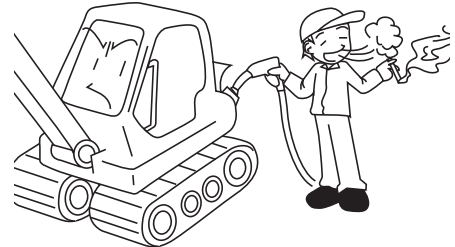
- The grease cylinder adjusting the track tension is prepacked with grease with the result that the grease may be of high pressure. In this status, if the plug is loosened carelessly, the plug and grease may spring out, inviting danger.
- When reducing the pressure by turning the cartridge valve (lubrication valve), do not turn the valve more than one turn. Do not face the worker's body to the front side of the cartridge valve or bring the face close to it.
- Do not disassemble the recoil spring, otherwise it may lead to a serious accident resulting in injury or death.



⚠ WARNING

Prevention against the danger of fire or explosion

- Take care when handling combustible materials such as fuel, oil, and antifreeze etc. If fuel leaks onto electric system parts, this may result in ignition.
- Perform fuel supply and oil supply outdoors and keep fire and a light away.- If fuel, oil, or any other combustible solution spills out onto a machine, remove it at once.
- Do not heat a fuel tank and a hydraulic device or bring fire near them, otherwise ignition may be caused.
- Put each of fuel and oil in a proper container and store it in a safe place that does not allow any person other than persons concerned to touch it.



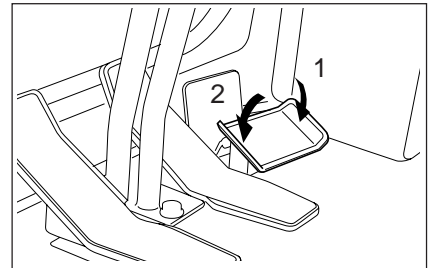
EXPLANATION OF EACH DEVICE

Swing pedal

1. Right swing
2. Left swing

▲ WARNING

Make a stopper to swing pedal certainly while travelling or when swing pedal is unnecessary.

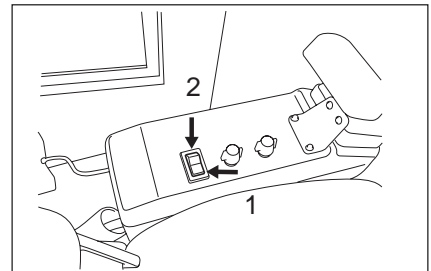


Overdrive switch

1. Low speed.
2. High speed.

IMPORTANT

For spinning or pivoting, make sure that the machine is travelling at a low speed.

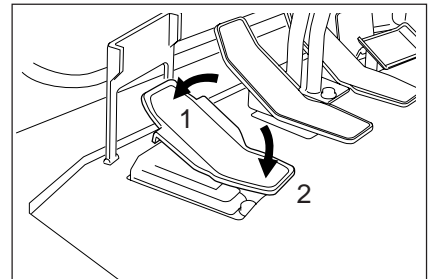


P.T.O. pedal

P.T.O. operational when pedal is depressed.

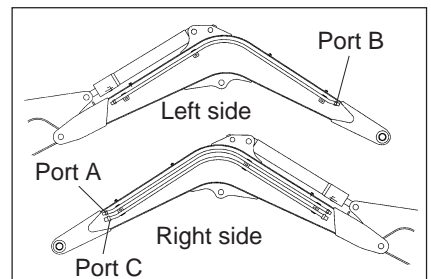
P.T.O. is off when pedal is released.

1. Hyd. oil flow out to A port.
 2. Hyd. oil flow out to B port.
- *Port C connect with Hyd. tank(return only).



▲ WARNING

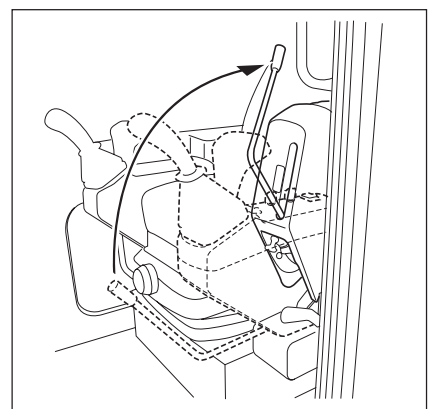
Make a stopper to P.T.O pedal certainly while traveling or when P.T.O pedal is unnecessary.



Safety lock lever

Engine can be started only at the neutral position (lock position) by raising the safety lock lever.

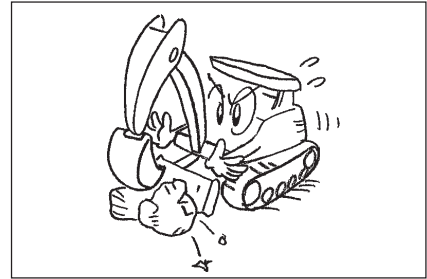
All operations are possible only at the release position by lowering the safety lock lever.



OPERATIONAL PRECAUTIONS

▲ CAUTION

Do not attempt to move rocks with the blade, this will damage the blade and the blade cylinder.



▲ CAUTION

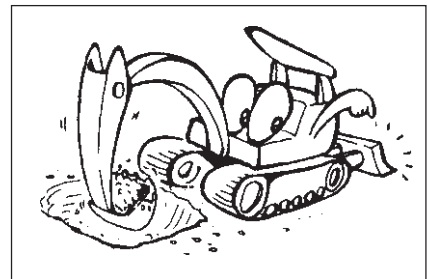
As lifting up the machine with the blade, the machine supports with both sides of the blade, not with either side.



▲ CAUTION

Dozer blade.

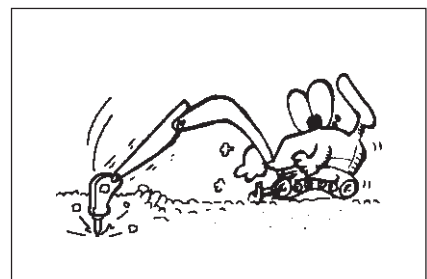
The dozer blade must not be used as increased stability/support, as no line break safety or mechanical locking device exists.



▲ CAUTION

Safety Operation for the usage of hydraulic hammer.

When operating the machine equipped with the hydraulic hammer, avoid as much as possible to operate the hydraulic hammer with each cylinder of arm and bucket in the fully extended position or in the fully retracted position in order to prevent the accidents on each cylinder.



▲ CAUTION

Be cautions of objects buried in the ground.

Check with managing companies about the location of cable, gas pipe, water pipe, sewer pipe, etc. before starting the digging work. Any damage to such objects could lead to severe accident. Perform the work carefully after trying to dig once.



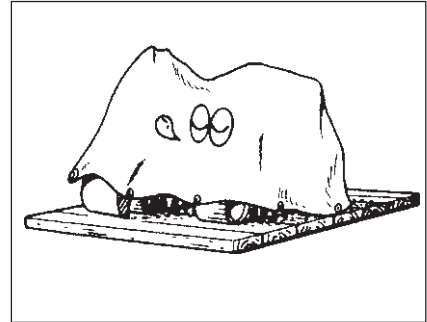
LONG-PERIOD STORAGE

1. Before Storage

- (1) If you don't use the machine for a long time, clean up and inspect the machine, grease or lubricate the spring guide, spring, yoke slide and exposed portions of the cylinders sufficiently to prevent rusting.

IMPORTANT

- If you leave the machine outdoors park it on wooden planks on a level ground (concrete floor) and cover with sheet.
- If you don't use the machine for a long time, disconnect the battery cable (-) side or recharge to prevent the battery from being discharged.



2. During Storage

- (1) Operate engine at least once a month to lubricate engine and hydraulic parts. After this, grease or lubricate exposed portions of the cylinders.
- (2) Recharge the battery at the same time.
 - ☞ For details, refer to page 45.

⚠ WARNING

In case indoors, pay attention to the ventilation. Start engine with all windows fully opened.

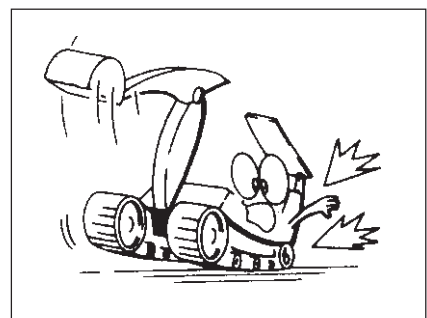


3. After Storage

- (1) Before starting the engine, check the engine oil, hydraulic oil and water level.
- (2) To start engine keep the starter switch "ON" position to feed sufficient fuel to the chamber. Wait for 1 minute then turn to "START" position to warm up the engine.
- (3) Operate the cylinders three or four times at low engine speeds.

⚠ WARNING

Sudden operations may damage the packings.

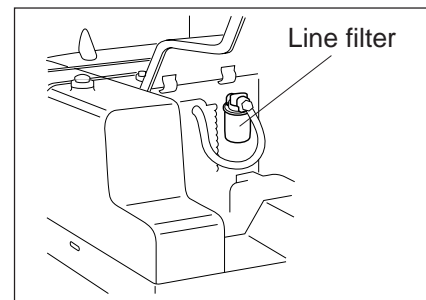
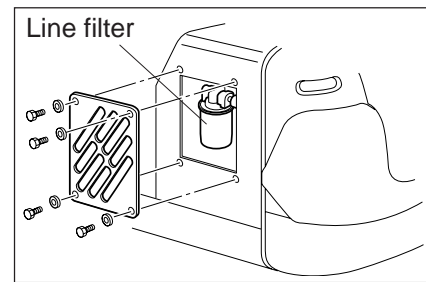


MAINTENANCE AFTER THE FIRST 100 SERVICE HOURS (FOR NEW MACHINE)

1) Replacing the line filter element

Remove the filter with a filter wrench and replace it with new one.

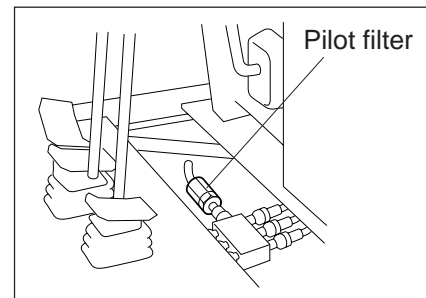
! Before replacing the filter, be sure to open the hydraulic oil tank to bleed the filter.



2) Cleaning the pilot filter

Remove the plug from under the floor plate with a spanner (width across flats:27 mm (1.6")) and pull out the element.

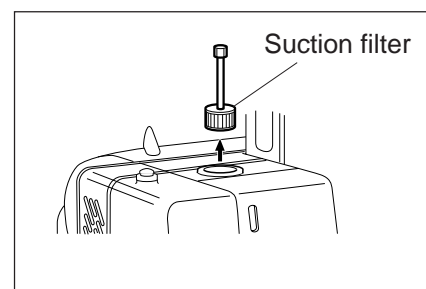
Clean the element with cleaning oil and remove all dirt.



3) Cleaning the suction filter

Remove the suction filter from the hydraulic oil tank. Clean the filter with diesel fuel or kerosene to remove the dirt. If the strainer is broken, replace it with new one.

! To reinstall the lid, set the O-ring securely into the flange groove in order to prevent a leak of hydraulic oil.



INSPECTION ANDS MAINTENANCE PROCEDURES

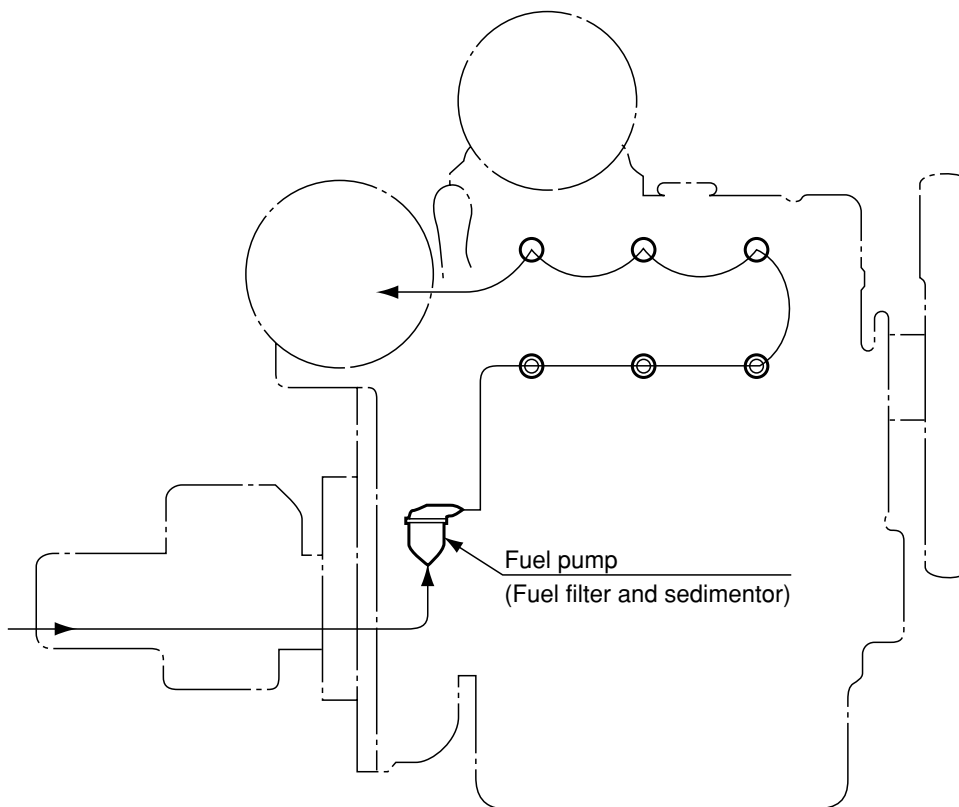
Air bleeding of fuel system

After cleaning the fuel filter or the water sedimentor, replacing the element or using up the fuel, bleed the air in according to the following procedure.

- (1) Fully fill the fuel tank.
- (2) Open the cock of fuel filter.
- (3) Turning the starter switch ON automatically bleeds the air.

IMPORTANT

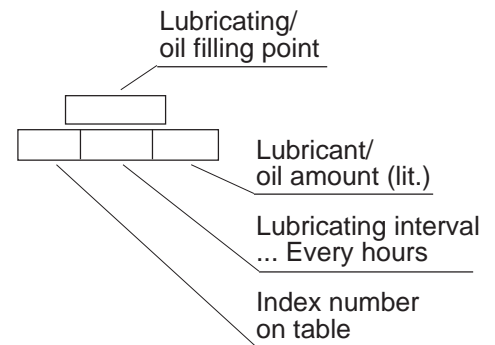
The air can ordinarily be bled in about one minute when the fuel filter is empty.



LUBRICANTS

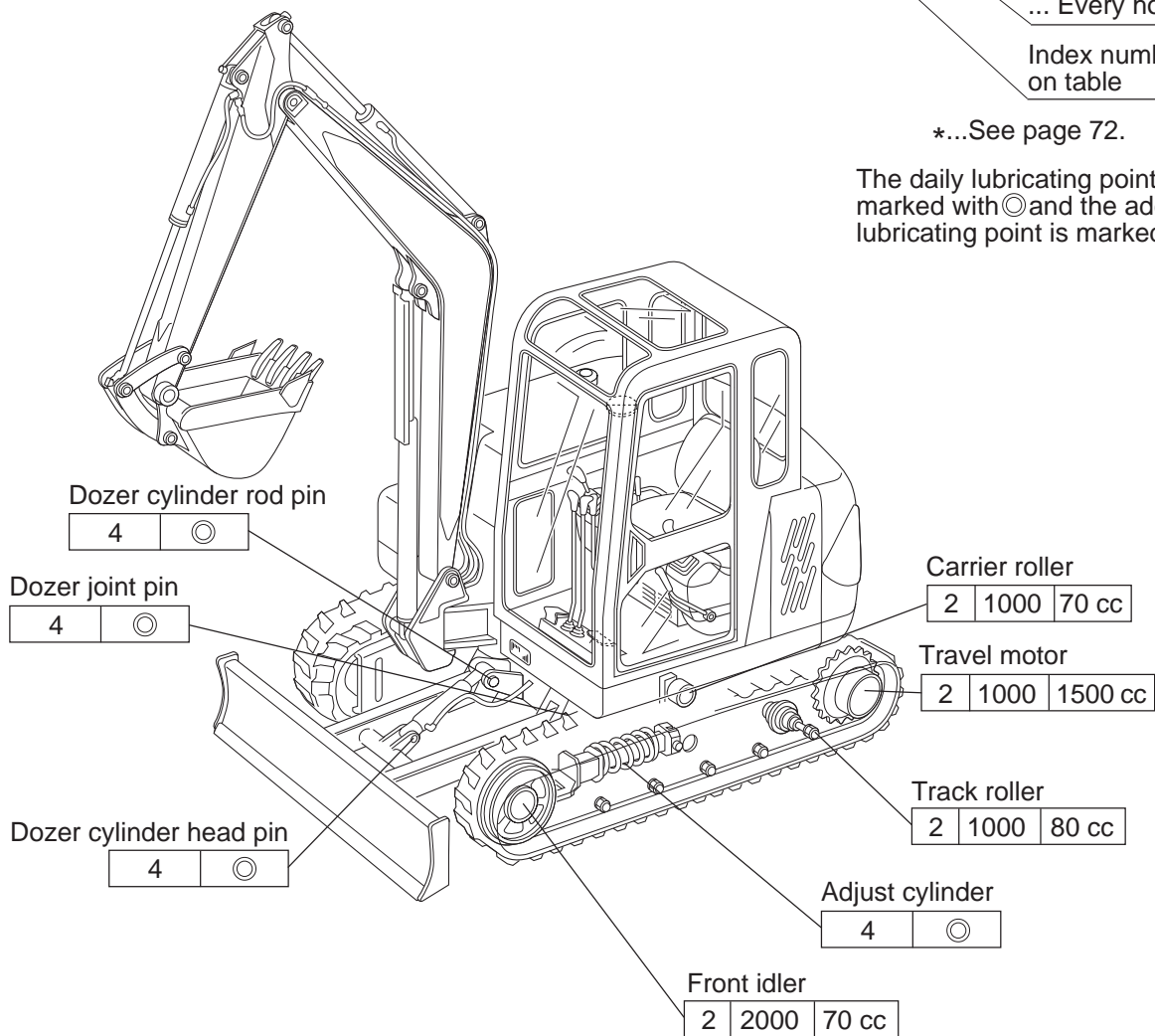
Grease Supply Points - Undercarriage

How to read table



*...See page 72.

The daily lubricating point is marked with \odot and the additional lubricating point is marked with \triangle .



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