

CK62
Crawler Excavator

Operators Manual

Lep 9-26270 GB

CASE

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Prevention of fire or explosions



Engine fuel can cause an explosion or a fire.

- *Never refuel when the engine is running.*
- *Never smoke when refuelling.*
- *Take all the necessary safety measures when welding, grinding or when working near a naked flame.*



Always use a non-inflammable product for cleaning parts.



A spark or naked flame can cause the hydrogen in a battery to explode. To avoid all risk of explosion, be sure to follow the instructions below :

- *When disconnecting battery cables, always disconnect the negative (-) cable first.*
- *When reconnecting battery cables, always connect the negative cable (-) last.*
- *Never short circuit the battery terminals with metal objects.*
- *Do not weld, grind or smoke near a battery.*



Sparks can be projected by the electrical circuit or from the engine exhaust. Before running the machine in an area where there may be inflammable gases, make sure there is adequate ventilation.



Make sure there is always a fire extinguisher within easy reach on board the machine. Make sure the extinguisher is regularly serviced in conformity with the manufacturer's instructions.

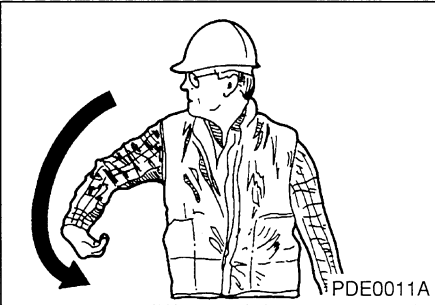


Clean the machine regularly, removing all debris and inflammable material.

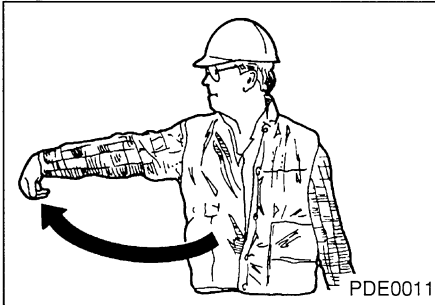


Make sure there are no leaks and replace any damaged hoses, lines or connectors. After any repair work, clean the machine before operating.

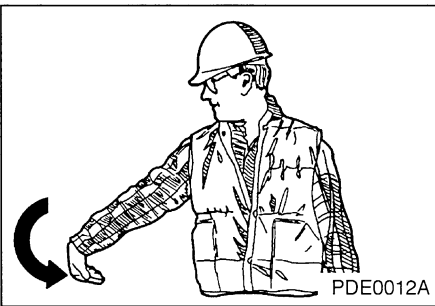
Dipper in



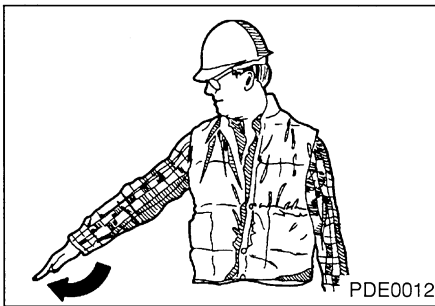
Dipper out



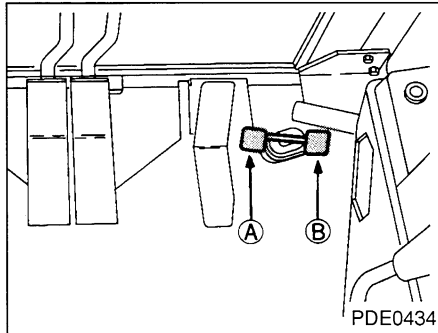
Attachment dig



Attachment dump



Upperstructure swing or attachment offset selector pedal



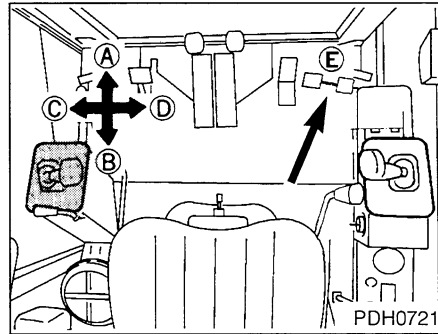
The pedal is located in front and to the right of the seat and selects the left-hand control lever function.

Position (A) : Pedal pushed to the left : upperstructure swing.

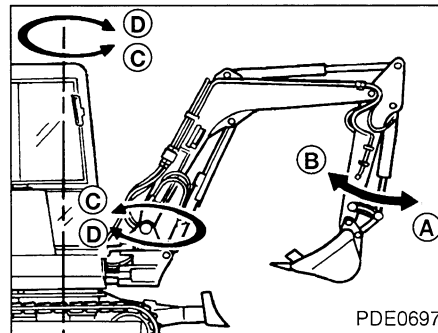
Position (B) : Pedal pushed to the right : attachment offset.

IMPORTANT : Push the pedal fully to the right or to the left to make the selection.

Dipper and upperstructure swing left-hand control lever



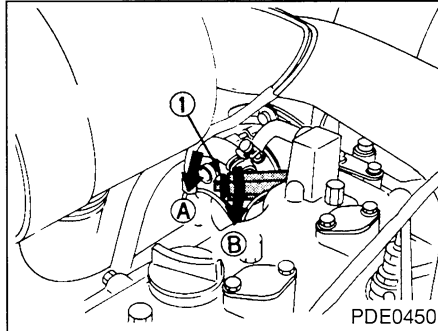
The speed of movement of the dipper or the upperstructure swing depends on the angle to which the control lever is tilted. In the intermediate position two simultaneous movements are obtained.



- A. The dipper extends.
- B. The dipper retracts.
- C. The upperstructure turns to the left or the attachment is offset to the left (depending on the position of pedal E).
- D. The upperstructure turns to the right or the attachment is offset to the right (depending on the position of pedal E).

HEATING SYSTEM

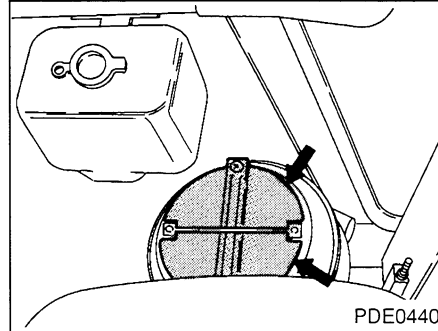
Heater shut-off valve



Before switching on the heating system make sure the valve (1) located behind the engine is in the open position (A).

After using the heating system, turn the valve (1) to the closed position (B).

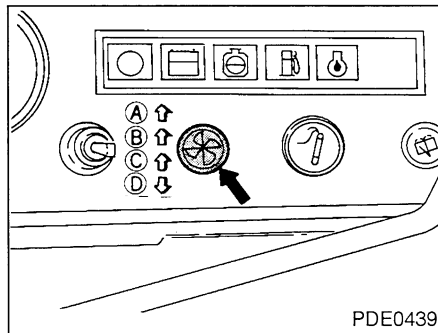
Heater



The heater is located behind the seat. The vents on top of the heater should be opened when it is in use.

NOTE : *Close the vents when the heater is no longer in use.*

Heater control



Place the heater control on the instrument panel on one of four positions :

- Position (A) : low flow.
- Position (B) : medium flow.
- Position (C) : high flow.
- Position (D) : stop.

OPERATING INSTRUCTIONS

STOPPING THE ENGINE

Move the throttle lever forward to the minimum speed position.

Turn the starter switch to the "OFF" position and remove the key.

Run the engine at idle speed for about 5 minutes.

IMPORTANT : *Always place the throttle lever in the minimum speed position before stopping the engine, since in the maximum speed position it may be that the engine will not stop.*

OPERATING THE MACHINE IN COLD WEATHER

Follow the recommendations given below.

Battery

It should be fully charged.

Fuel

a) To prevent condensation forming and water getting into the fuel system, fill the tank after each day's work and drain off any water before starting the next day's work.

b) To prevent crystals forming at -2 C, use fuel which is rated for the ambient temperature or add appropriate protective fluid to your fuel. See "Fluids and lubricants" in the "Lubrication/Filters/Fluids" Section.

Engine oil

You should use the right viscosity for the ambient temperature. See "Fluids and Lubricants" in the "Lubrication/Filters/Fluids" Section.

Hydraulic fluid

The viscosity must correspond to the ambient temperature conditions. See "Fluids and Lubricants" in the "Lubrication/Filters/Fluids" Section.

Coolant solution

It should be suitable for the ambient temperature and contain a minimum of 50% ethylene glycol solution. See "Fluids and lubricants" in the "Lubrication/Filters/Fluids" Section.

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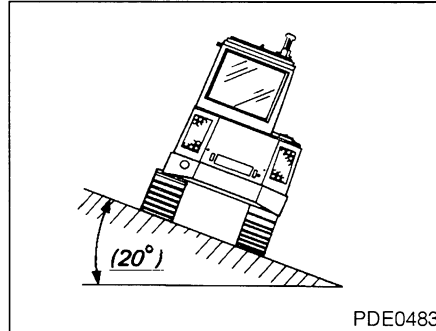
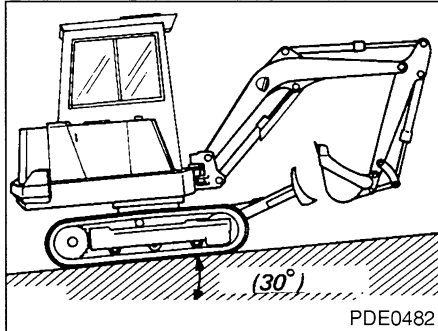
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JOB SITE OPERATION



IMPORTANT : Never swing the upperstructure on slopes of 30° in the direction of travel and 20° across the direction of travel.

LIFTING LOADS



Before attempting to lift a load, made sure that the machine is suitably equipped for this type of work. If this is the case, it is mandatory to refer to the load lifting charts corresponding to your particular machine, type of attachment and equipment. See "Load lifting charts" in the "Specifications" Section.



Always operate on firm, flat ground, away from any obstacles.

Check that the load is stable a few centimetres above the ground before lifting it to any height. Movements must be safe and smooth when lifting and transporting loads. Moving quickly does not mean moving in a brutal manner.

When travelling with a load, always comply with the following instructions :

- Place the upperstructure in line with the undercarriage.
- Bring the load as near as possible to the undercarriage and the ground.
- Always travel at slow speed.

FLUIDS AND LUBRICANTS

Fluids and lubricants must have the correct properties for each application.



The conditions of use for individual fluids and lubricants must be respected.

Hydraulic fluid

CASE POCLAIN ELF hydraulic fluid has been specially developed for high pressure applications and the hydraulic system on this machine. The type of fluid to be used depends on the ambient temperature.

Temperate climates :

-20°C to +40°C.....Ref.
50 kg barrel.....J3205
180 kg drum.....G3203

Biodegradable fluid :

This yellow fluid is compatible with standard fluids. If adopted, it is advisable to drain the hydraulic system completely.

21 kg barrelB503301
180 kg drum.....Q1003274

Hot climates :

0°C to +60°C
50 kg barrel.....U1003209
180 kg drum.....C1003239

Cold climates :

-40°C to +20°C
50 kg barrelV1003210
180 kg drum.....D1003240

NOTE : *Favourable consideration to any warranty claims will remain subject to the use of CASE POCLAIN ELF hydraulic fluid, as supplied originally with the machine.*

Travel reduction gear and swing reduction gear oil

The type of oil to be used is :
CASE GEAR LUBE 85W-140

Grease

The type of grease to be used is :
CASE MOLYDISULFIDE.

COOLING SYSTEM

Service specifications

Expansion reservoir level check	Every 10 hours or every day or when the warning lamp lights up on the instrument panel
Clamp and hose check	Every 200 hours or every 6 months
Clamp and hose replacement	Every 2 years
Coolant solution change	Every 2 years
Radiator capacity	8.4 L
Expansion reservoir capacity	1 L



Boiling coolant solution can spray out if the radiator cap is removed while the system is still hot. To remove the cap, allow the system to cool down, turn the cap to the first notch and wait until there is no more pressure. Then remove the cap.



Check and service the cooling system according to the instructions given in this manual.

Coolant solution

Only put ethylene-glycol coolant solution in the cooling system. Use good quality ethylene-glycol that has a high boiling point, with no additives to prevent leakage. Do not employ non-approved and anti-rust additives. Anti-rust additives and ethylene-glycol can mix and work against each other, thereby reducing anti-corrosion protection, forming deposits in the cooling system and causing damage to the cooling system and radiator.

Consult your CASE Dealer for suitable coolant solution.

AIR FILTER

Inspection

Frequent inspection is necessary of the air filter, the inlet manifold, the seals, the tightening of the inlet manifold screws, the hoses and the tightening of the hose clamps.

Hoses must be replaced before they deteriorate.

Service specifications

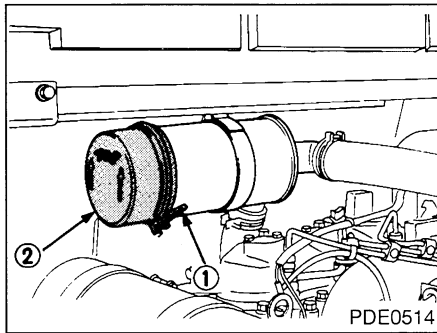
Cleaning the dust bowlEvery 50 hours

Inspecting and cleaning the elementEvery 200 hours
or when the warning lamp lights up on the instrument panel

Element replacement.....Every 2000 hours
or when the warning lamp lights up on the instrument panel

IMPORTANT : *The air filter servicing intervals must be respected. The life of the engine depends upon the cleanliness of the air filter.*

Cleaning the dust bowl

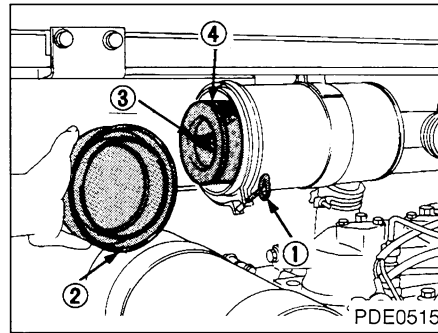


Unscrew the clamp (1) and remove the dust bowl (2). Empty the bowl and clean it with a cloth.

IMPORTANT : *When installing the dust bowl, it is essential for the arrows to be pointing towards the top of the air filter.*

IMPORTANT : *Never allow dust to accumulate up to the halfway point of the bowl.*

Removing the element



Unscrew the clamp (1) and remove the dust bowl (2). Unscrew the wing-nut (3) and remove the element (4).

TRACKS

Service specifications

CleaningWhen the machine has been working in mud
Tension check.....Every 100 hours

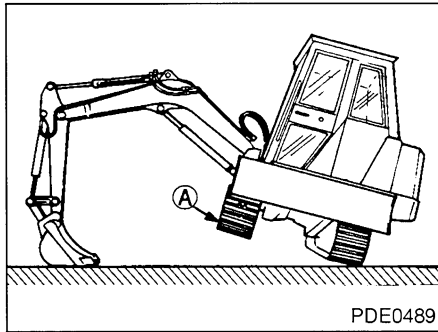
IMPORTANT : *If the tracks are too tight, they will wear quickly. If the tracks are not tight enough they will wear quickly and the links can damage the sprocket or come off the idler wheel or the drive sprocket.*

Clean the tracks after work.

Cleaning

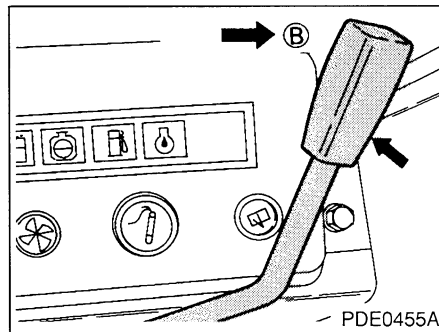
When the machine has worked in mud, a drop in temperature can solidify that mud.

STEP 1



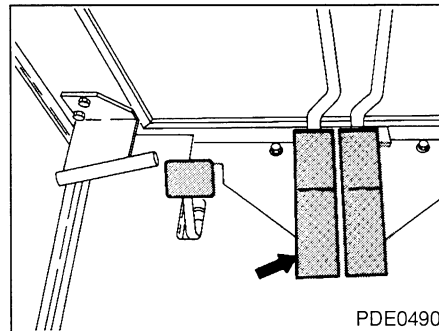
Turn the upperstructure so that it is at right angles to the undercarriage. Raise the dozer blade. Use the attachment to press down on the ground and then lower the boom until the track (A) is off the ground.

STEP 2



Move the throttle lever to the maximum speed position (B).

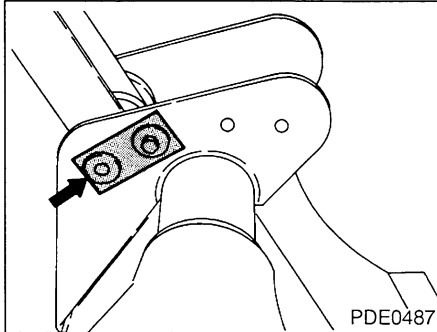
STEP 3



Operate the travel lever for the raised track in forward and in reverse direction to remove the mud. Repeat Steps 1 to 3 for the other track.

SERVICING/ADJUSTMENTS

STEP 4



Install the connecting rod/bucket linkage pin, washers and screws.

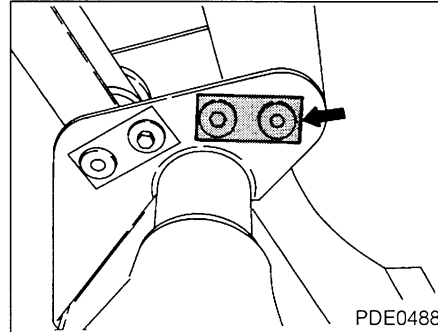
STEP 5

Raise the attachment slightly and then use the bucket and dipper controls to align the dipper pin housing with the bucket lugs.

STEP 6

Install the dipper/bucket linkage seals. Change them if necessary.

STEP 7



Install the dipper/bucket linkage pin, washers and screws.

STEP 8

Grease the linkage pins.

ATTACHMENT PINS

Before removing or installing attachment pins, make sure that the components to be installed or removed are in a safe position. They must be on a solid, stable support or a lifting device must be available.

Removal

Remove the locknut, the nut and the screw and drive out the pin.

Installation

Carefully grease the pin.

When installing the pin, if it is necessary to use a sledge hammer, place a copper or bronze plate between the pin and the hammer to avoid flying metal fragments.

IMPORTANT : *A forced installation is abnormal. It will cause metal to be torn off.*

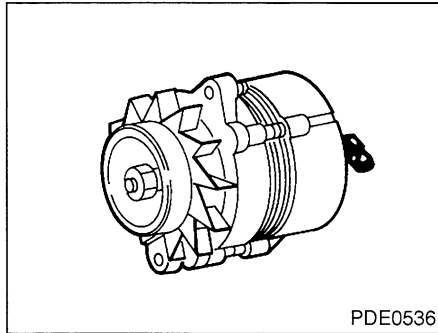
Install the screw, the nut and the locknut.

NOTE : *Unused pins must be remounted and fixed in their respective positions after having been greased.*

ALTERNATOR

Service specifications

Check.....Every 2000 hours



IMPORTANT : *Do not use a steam cleaner or cleaning solvent to clean the alternator.*

Have the alternator checked by your CASE Dealer.

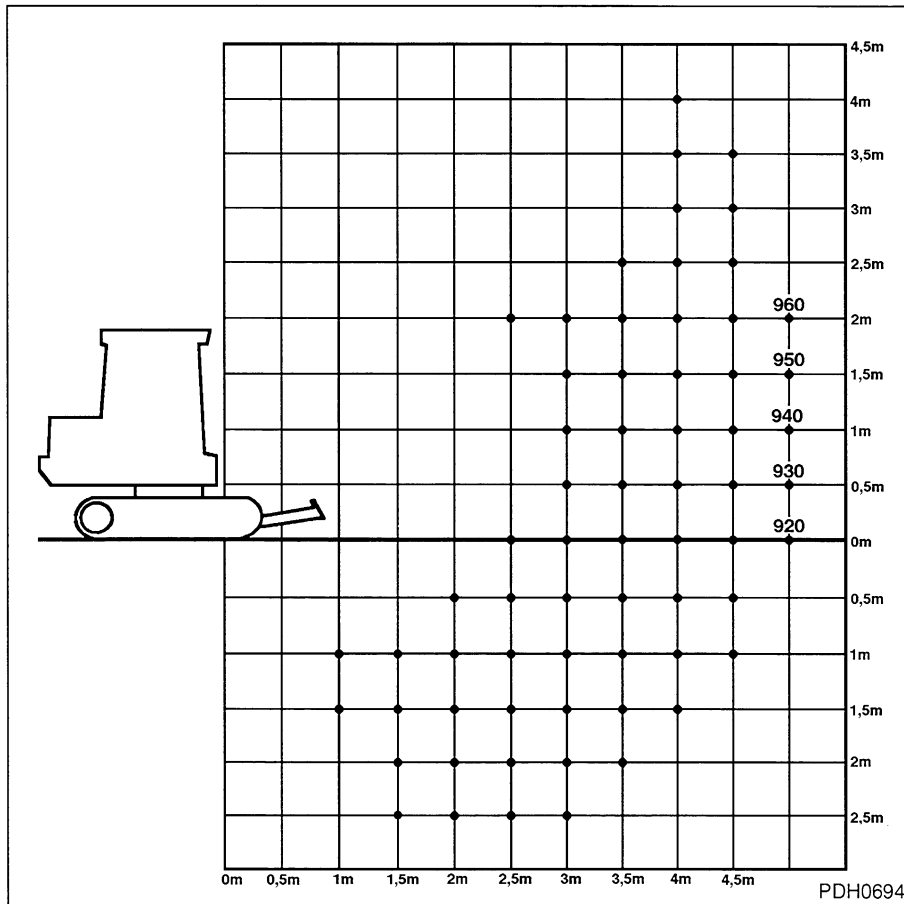


Before welding on the machine or making a repair to the electrical system, disconnect the D+ and the B+ wires from the alternator. When reconnecting make sure the wires are connected to the correct terminals.

SPECIFICATIONS

With 1.55 m dipper and 0.40 m track pads

**Undercarriage in line with the upperstructure and
dozer blade in raised position**



NOTE : These values are given in daN (1 daN = 1.02 kg).

IMPORTANT : Loads lifted at points with no values shown above must never exceed 980 daN (1000 kg).

NOTE : Before carrying out any load lifting operations, see "Maximum authorized loads" in the "Operating instructions" Section.

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