

9013 Crawler excavator

Operator's Manual

Cre 6-6751 GB

CASE

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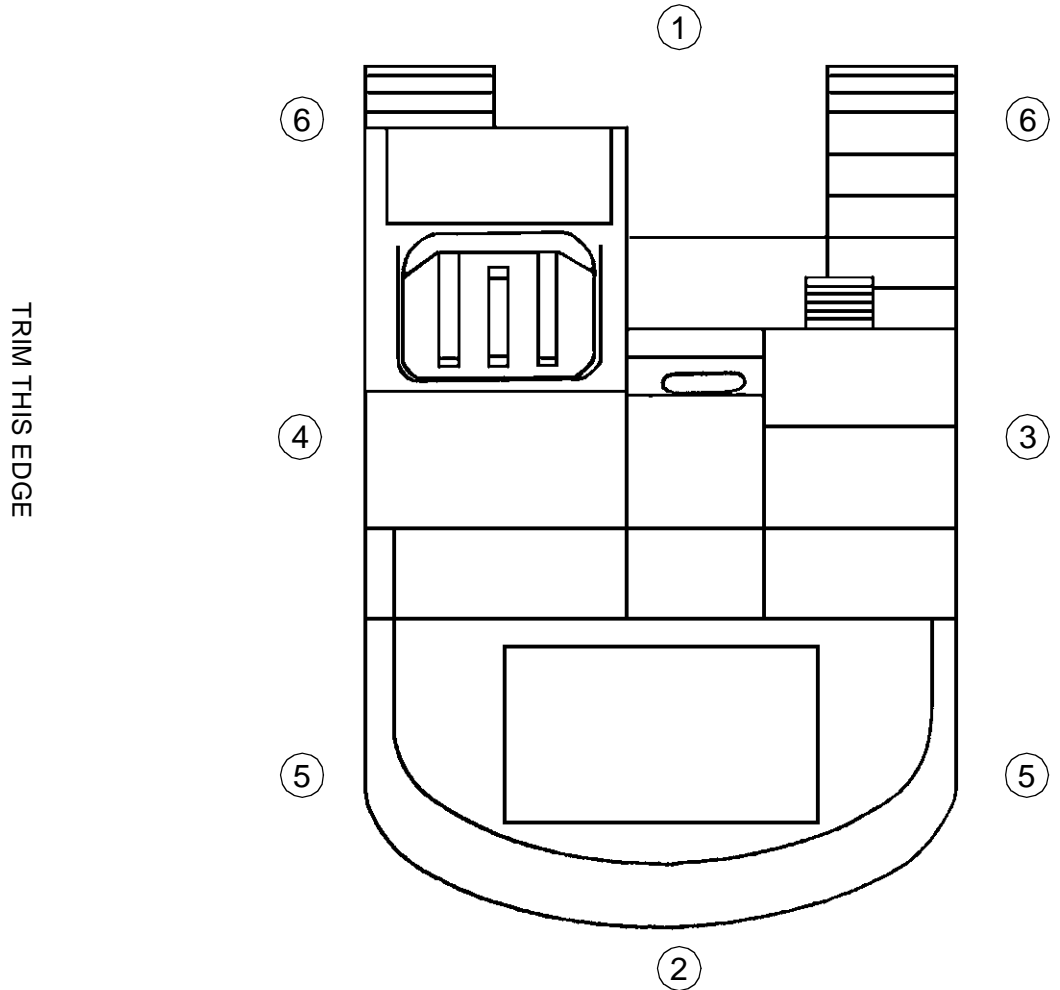
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RIGHT, LEFT, FRONT AND REAR OF THE MACHINE

The terms "Right", "Left", "Front" and "Rear" are used in this manual to indicate the sides as they are seen from the operator's seat when the cab is over the idler wheels.

The illustration below shows the machine in normal TRAVEL position. In normal TRAVEL position, the cab is over the idler wheels. The travel reduction gears are at the rear of the upperstructure.



- 1 FRONT
- 2 REAR
- 3 RIGHT-HAND SIDE

- 4 LEFT-HAND SIDE
- 5 TRAVEL REDUCTION GEARS
- 6 IDLER WHEELS

CS98N539

SAFETY/DECALS/HAND SIGNALS

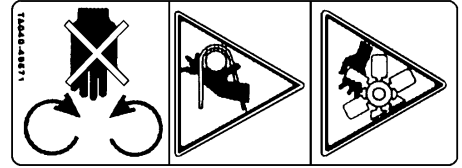
- When climbing into or out of the operator's compartment, it is mandatory for the upperstructure to be in line with the undercarriage.
- Dust, smoke or mist can reduce visibility and cause an accident. Reduce speed or come to a complete halt until visibility has improved.
- Never jump down from the machine. When climbing down from the machine or the upperstructure, always face the machine and use the steps and access handles.
- If the machine is equipped with a quick coupler (optional), never tilt the switch to the unlocked position when operating the machine at work.
- If the machine is equipped with a quick coupler (optional), never put your hands inside the quick coupler or attempt to adjust or repair it when the engine is running.
- In the event of an operating problem or failure, move the machine to a safe place, immediately lower the attachment to the ground, with the dipper cylinder rod and bucket cylinder rod completely extended or retracted, stop the engine and remove the starter switch key. Locate the problem, report it if necessary and take the necessary steps to warn others not to attempt to operate the machine.
- For machines up to serial number DCH1300336, never use the connecting rod load handling eye for lifting loads weighing more than 3000 kg (2941 daN), attach the load to the connecting rod/bucket linkage pin. For machines with serial numbers DCH1300337 and above, whatever the weight of the load, attach the load to the connecting rod load handling eye.

TRIM THIS EDGE



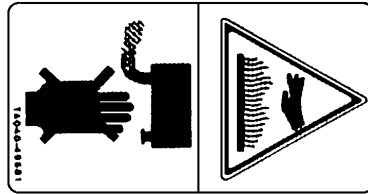
PDE0769

This decal shows where not to attach slings. Never try to use these points to handle the machine.



CS96C038

This decal warns that the fan and the fan belt must never be touched while the engine is running. Stop the engine before performing any operation.



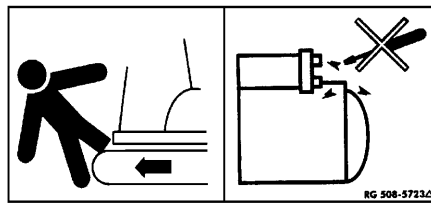
CS96C040

This decal warns that the exhaust system must never be touched while the engine is running or immediately after the engine has stopped.



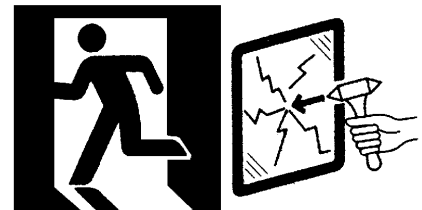
CS96C179

This decal warns that the radiator must never be touched and that the radiator cap must never be removed while the cooling system is still hot. See "Cooling system" in the "Lubrication/Filters/Fluids" Section.



CS96D163

This decal warns that it is forbidden to start the engine by any other means than with the starter switch key.



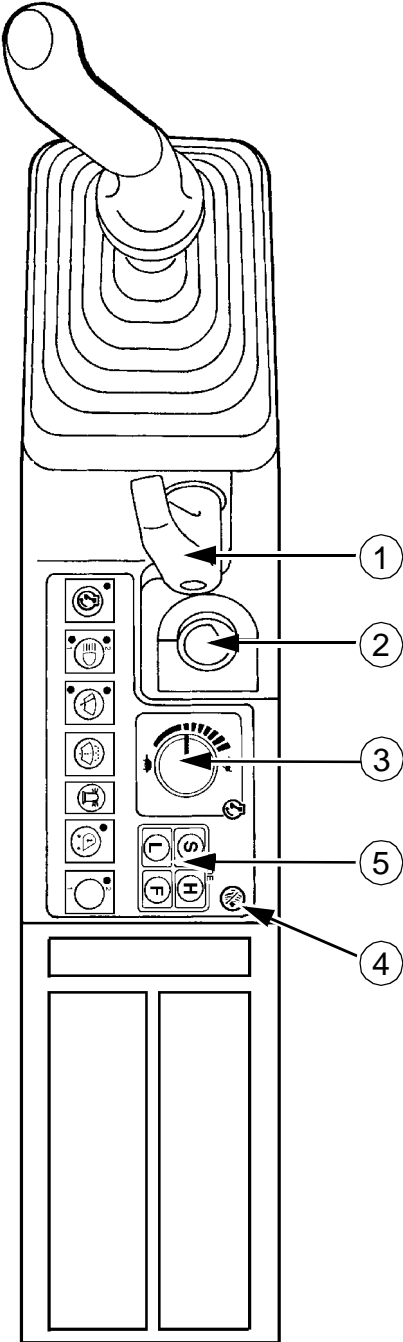
CS98N560

This decal shows the location of the emergency hammer.

TRIM THIS EDGE

Right-hand control arm

TRIM THIS EDGE

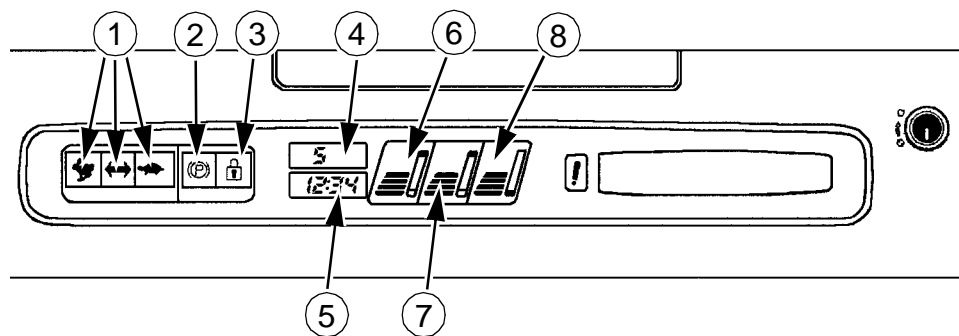


B9407058

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LEFT PAGE

Systems display panel



B9407082



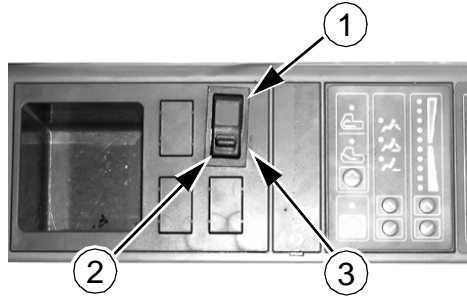
WARNING: The display panel indicates the machine's condition and alerts the operator quickly of any abnormalities by means of lamps indicators or buzzers. It is not to be used for determining the time for maintenance operations. The display panel can be damaged by water. Take care that it doesn't get wet during rainy weather or when washing the machine.

NOTE: Wipe the display panel with a soft, dry cloth. Do not use solvents.

1. TRAVEL SPEED INDICATOR LAMPS - These lamps light up to show the travel speed selected by the selector pedal, see "Travel speed selector pedal". The left-hand lamp lights up when high speed is selected. The middle lamp lights up when medium speed is selected. The right-hand lamp lights up when low speed is selected.
2. UPPERSTRUCTURE SWING LOCKING INDICATOR LAMP - This lamp comes on when the "Upperstructure swing locking switch" is pressed. See item 5 under "Left-hand control arm".
3. CONTROL LOCKING INDICATOR LAMP - This lamp lights up when the "Control locking switch" is operated. See item 4 under "Left-hand control arm". It also lights up when the control cancellation lever and the left-hand control arm are in raised position. See "Control cancellation lever" and item 7 under "Left-hand control arm".

TRIM THIS EDGE

Quick coupler locking/ unlocking control (optional)



CK99G001

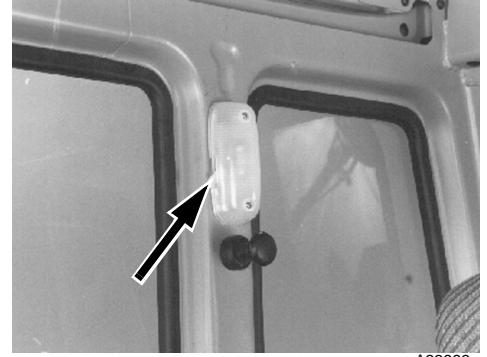
Located on the left-hand control arm, this control is used to lock and unlock the quick coupler. See “Quick implement installation and removal” in the “Operating instructions” Section.

To unlock, push the locking pin (3) upwards and simultaneously press the top of the switch (1). In this position the audible warning device sounds and the tool can be removed.

NOTE: *To remove the tool, it is necessary to push the locking pin (3) upward while pressing the switch (1) upward, since, for safety reasons, the switch alone cannot be pushed upwards.*

To lock, press the bottom of the switch (2).

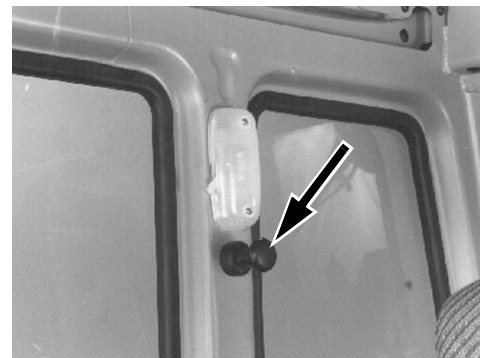
Cab light



A23883

The light is located on the right-hand cab upright and is controlled by a switch set in the lamp base.

Coat hanger hook



A23883

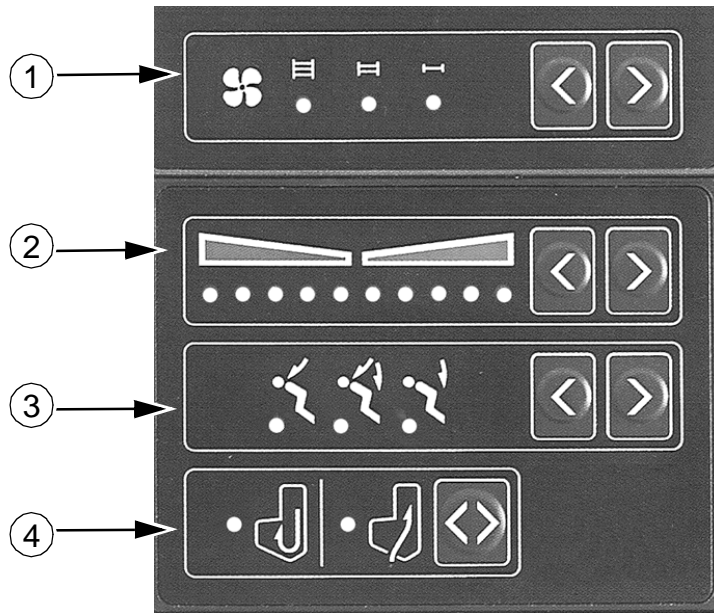
This hook is on the right-hand cab upright.

TRIM THIS EDGE

HEATING AND VENTILATION CONTROLS

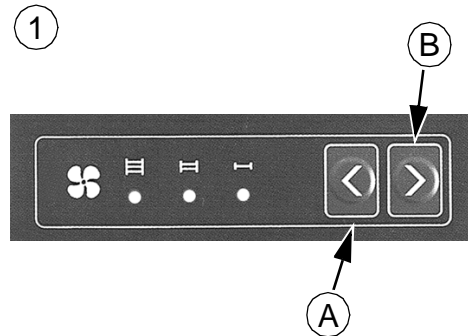
These controls are located on the left-hand control arm.

TRIM THIS EDGE



CP99J001

Ventilation control



CP98M003

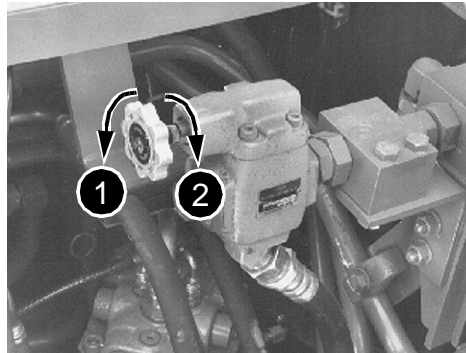
To increase the flow, press button (A) until the required position is obtained. The corresponding indicator lamp will come on. To reduce flow, press button (B) until the required position is obtained.

NOTE: For machines fitted with air conditioning (optional) see "Air conditioning".

This control can be used to increase or reduce the flow of air.

- Position (I) : low flow.
- Position (II) : medium flow.
- Position (III) : high flow.

OPTIONAL TOOL PRESSURE VALVE (optional)



A24691

This valve enables oil pressure to be adjusted to suit the type of optional tool being used.

To increase pressure, turn the valve in direction (2).

To decrease pressure, turn the valve in direction (1).

See "Using optional tools" in the "Operating Instructions" Section.



CD99M008

At the boom there is another valve which controls the oil flow for optional tools requiring low flow.

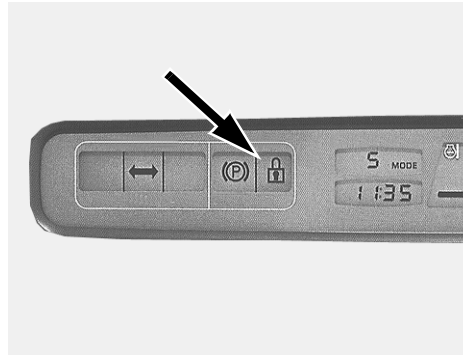
IMPORTANT: *Never use an optional tool without having first contacted your CASE Dealer, otherwise you could damage the machine.*

IMPORTANT: *Consult your CASE Dealer before mounting optional tools.*

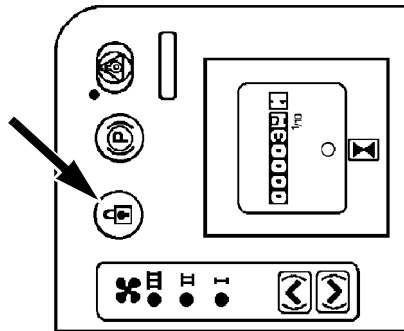
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OPERATING INSTRUCTIONS

STEP 6



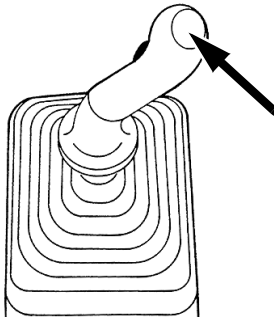
CP98N005



CS98M626

Make sure the "Control locking" indicator lamp on the console comes on. If not, press the "Control locking" switch on the left-hand control arm.

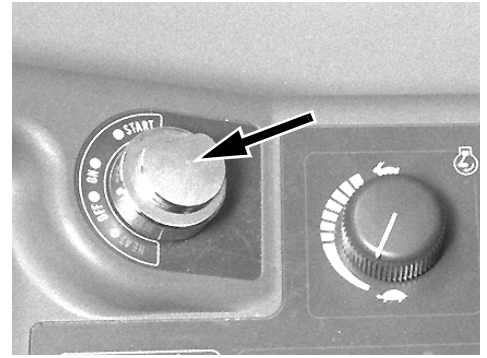
STEP 7



CS98M565

Sound the horn on the left-hand control lever.

STEP 8

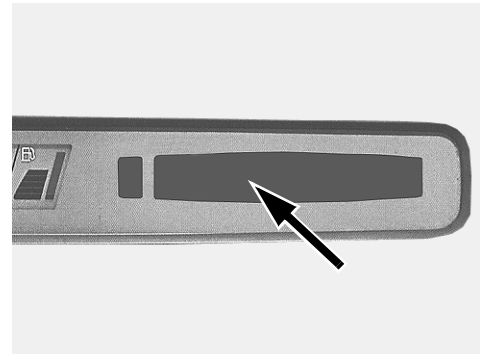


CK98M014

Turn the key to the "START" position. Release the key as soon as the engine starts to turn. If the engine stops, wait about a minute and recommence the operation.

IMPORTANT: Do not operate the starter motor for more than twenty seconds at one time. Do not operate the starter motor when the engine is running.

STEP 9

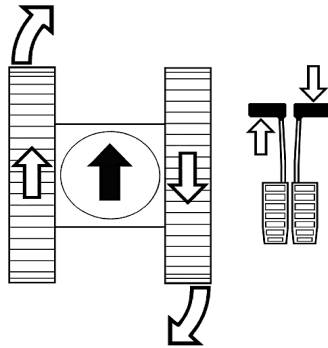


CP98N005

Run the engine until the "Auto warm up" message disappears from the systems display panel.

TRIM THIS EDGE

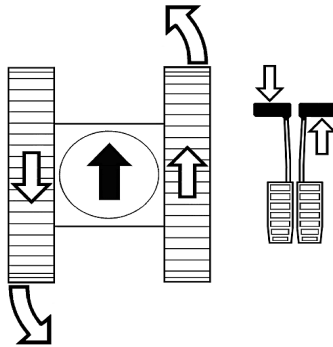
Turning on the spot, to the right



CS98M552

Press the left-hand pedal (or push the left-hand lever) forwards and at the same time press the right-hand pedal (or push the right-hand lever) rearwards.

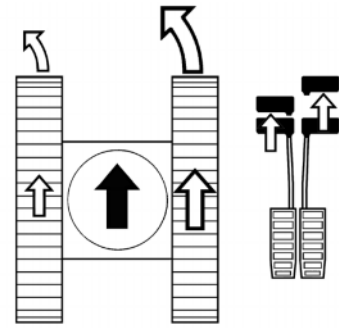
Turning on the spot, to the left



CS98M553

Press the right-hand pedal (or push the right-hand lever) forwards and at the same time press the left-hand pedal (or push the left-hand lever) rearwards.

Gradual turn on the move



CS98M545

Press one of the pedals (or push one of the levers) and, at the same time, press the other pedal (or push the other lever) in the same direction, but slightly harder.

Coming to a halt

To come to a complete halt, simply release the levers or pedals and they will return to neutral.

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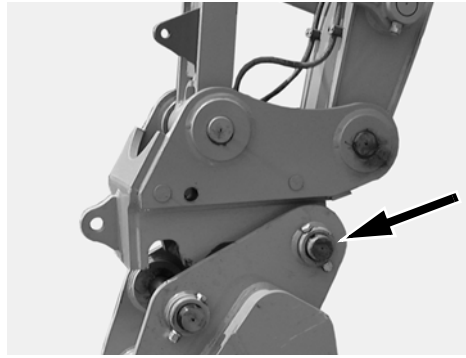


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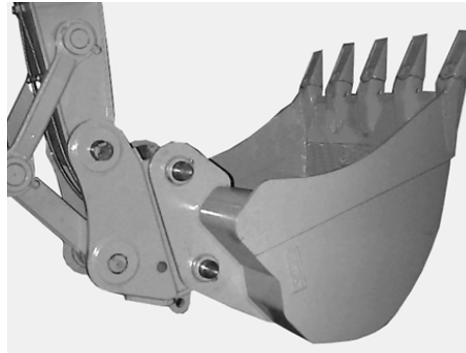
OPERATING INSTRUCTIONS

STEP 6



Operate the bucket control lever so that the pin is completely engaged in the quick coupler hook.

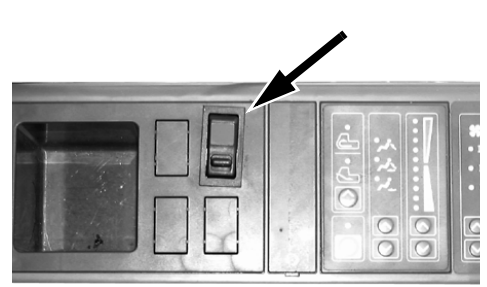
STEP 7



Raise the dipper and retract the bucket until the teeth are in the vertical position.

TRIM THIS EDGE

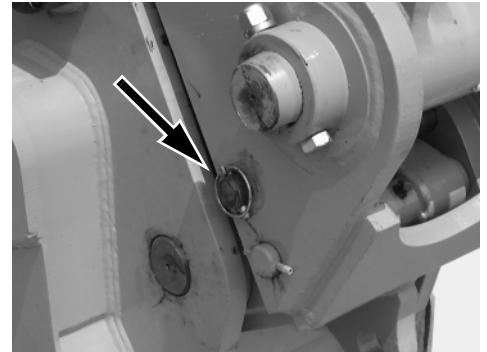
STEP 8



Place the switch in the locked position. See "Quick coupler locking and unlocking control switch" in the "Controls/Instruments/Accessories" Section.

IMPORTANT: Check that the quick coupler is correctly engaged on the tool pins.

STEP 9



Install the safety shaft and locking pin.

IMPORTANT: It is essential that the safety shaft and locking pin are in place.

CHOICE OF TOOLS ON A HYDRAULIC BREAKER (optional)

Selection of standard and special tools to suit each application are available. The correct type of tool must be selected to get the best possible working results and longest life time for the tool. Choosing the best tool type for an application may require some testing. See your CASE Dealer.

Chisel andmoil

- For sedimentary (e.g. sandstone) and weak metamorphic rock into which the tool penetrates.
- Concrete.
- Trenching and benching.

Blunt tool

- For igneous (e.g. granite) and tough metamorphic rock (e.g. gneiss) into which the tool doesn't penetrate.
- Concrete.
- Breaking boulders.

Spade tool

- Frozen or compact ground Asphalt.

Compacting plate

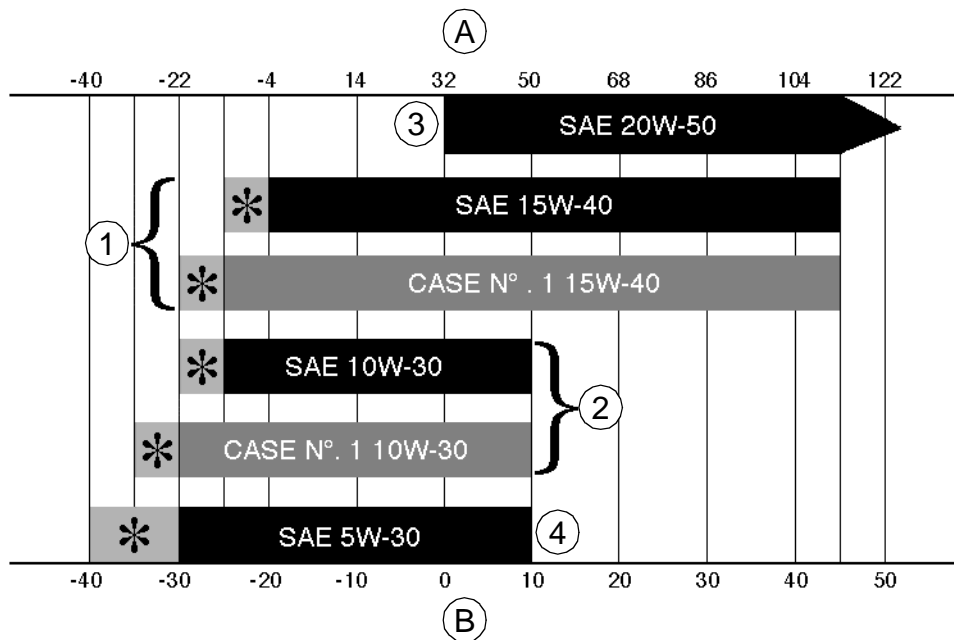
- Ground compacting.

It is important to choose a tool, which is suitable for your breaker and for the intended application. The choice of tool depends on the hydraulic breaker model. See "Hydraulic breaker" in the "Specifications" Section.

TRIM THIS EDGE

Oil viscosity/Oil range

TRIM THIS EDGE



CS98M561

(A) Fahrenheit Temperature

(B) Celsius Temperature

(1) All seasons

(2) Winter

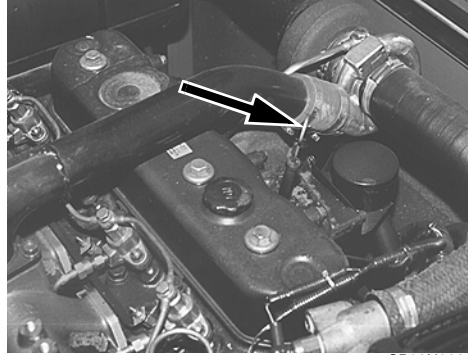
(3) Tropical

(4) Arctic

(*) Use of an engine oil heater, or and engine coolant heater is required.

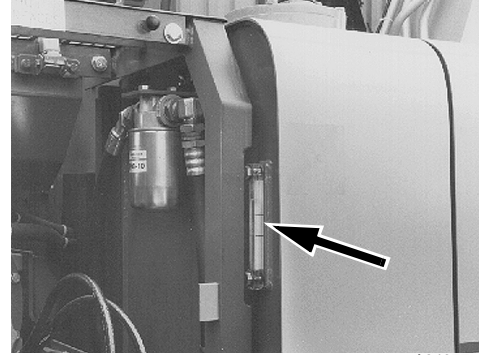
LEVELS

Every 10 hours



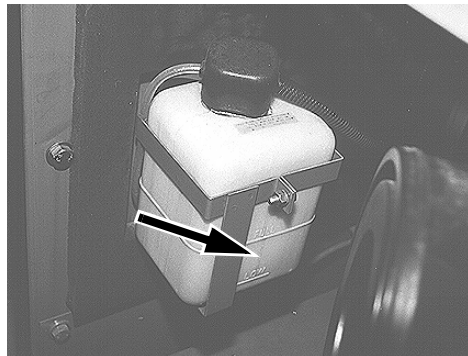
Engine oil.....(1)

Every 10 hours



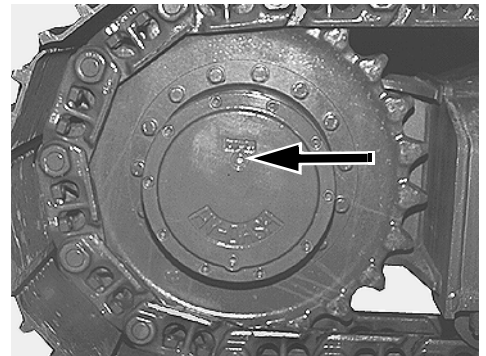
Hydraulic reservoir..... (1)

Every 10 hours



Coolant solution expansion
reservoir(1)
ETHYLENE GLYCOL and WATER

Every 250 hours



Travel reduction gears (2)
Type API GL5 grade 80W90 or ISO VG
150

TRIM THIS EDGE

LUBRICATION/FILTERS/FLUIDS

When bubbles no longer come out, tighten the air bleed screw (1) and tighten the knob of the priming pump (2). Completely wipe off any spilt fuel. Start the engine and check for fuel leakage.



WARNING: Completely wipe off any spilt fuel after replacing a filter element or bleeding the system.

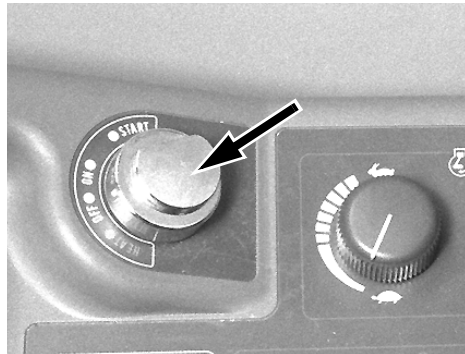
RELEASING PRESSURE IN THE HYDRAULIC SYSTEM

IMPORTANT: Before carrying out any work on the hydraulic system, there should be no pressure in any of the circuits.

STEP 1

Place the machine on flat, level ground, lower the attachment to the ground and stop the engine.

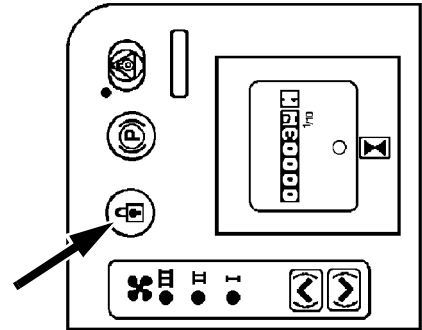
STEP 2



CK98M014

Turn the starter switch key to the "ON" position.

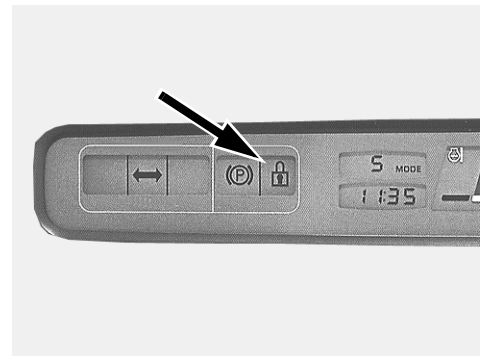
STEP 3



CS98M626

Lower the control cancellation lever and the left-hand control lever, then unlock the machine controls, using the control unlocking switch on the left-hand control arm.

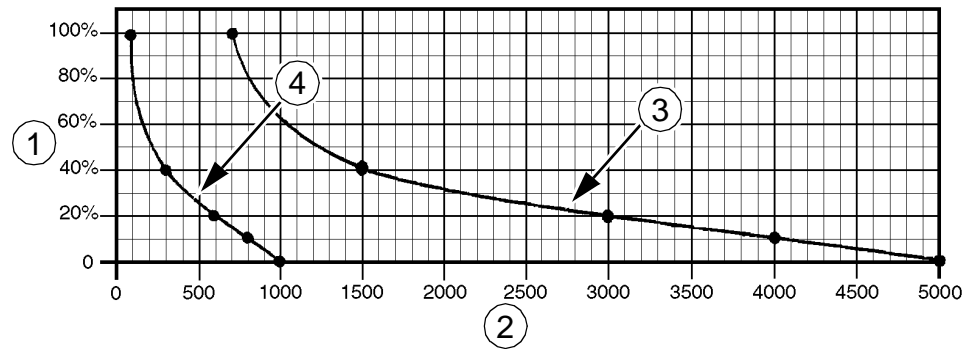
STEP 4



CP98N005

Make sure the control locking indicator lamp goes out on the systems display panel.

TRIM THIS EDGE



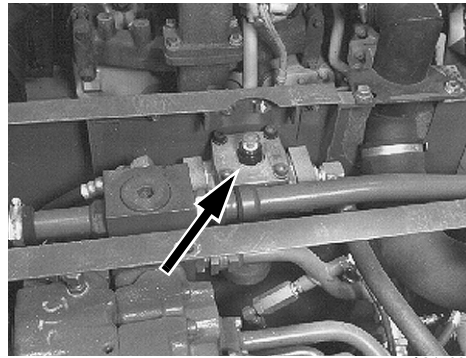
CS99A860

- (1) Percentage of use
- (2) Intervals in hours
- (3) Hydraulic fluid replacement
- (4) Hydraulic filter replacement

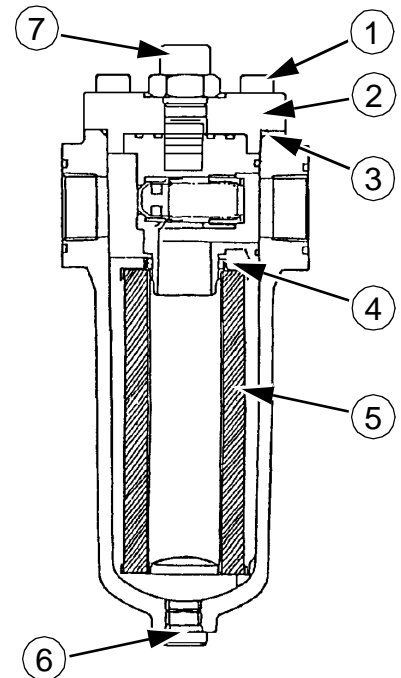
Return filter

Release all pressure in the hydraulic reservoir. See "Releasing pressure in the hydraulic system".

TRIM THIS EDGE



A24703



CS98M622

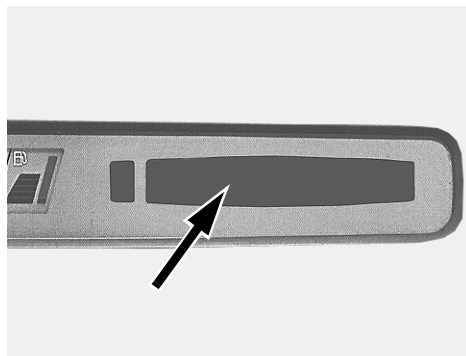
This filter is equipped with an indicator (7). When the red ring becomes visible, the filter must be changed.

TRACK ROLLERS AND IDLER WHEELS

The upper and lower rollers and idler wheels use a permanent floating seal type sealing mechanism. The service life normally lasts until overhaul, but check visually everyday before work for oil leakage. If oil leakage is found, component replacement is necessary. See your CASE Dealer.

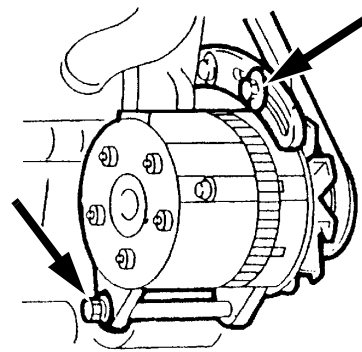
TRIM THIS EDGE

Replacing the drive belt



CP98N005

If the drive belt breaks, the message “Alternator” will appear on the systems display panel. Shut down the engine immediately, remove the starter switch key and replace the drive belt. See item 11 under “Systems display panel” in the “Controls/Instruments/Accessories” Section.



CS98M572

Remove the two mounting bolts. Use a lever to push the alternator inwards.

Remove the worn belt.

Install a new belt.

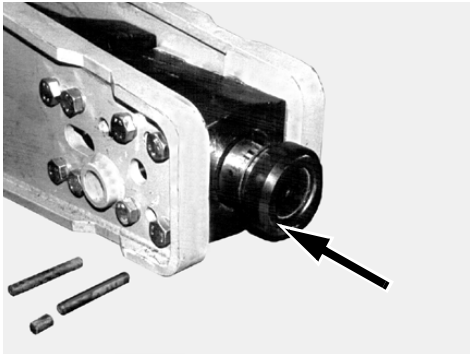
Adjust the belt tension.

Tighten the two mounting bolts.

Start the engine and make sure the message on the systems display panel has disappeared.

TRIM THIS EDGE

STEP 3



CP99C013

Install the tool bushing in its housing and then install the mounting pins and plugs.

STEP 4

Install the tool. See "Replacing a tool on a hydraulic breaker".

TRIM THIS EDGE

SPECIFICATIONS

WEIGHTS

With monobloc boom, 2.50 m dipper, 540 L bucket, operator and full fuel tank.

With 500 mm pads (steel)	12 750 kg
With 500 mm pads (rubber)	12 700 kg
With 600 mm pads (steel)	12 900 kg
With 700 mm pads (steel)	13 200 kg

Counterweight 2530 kg

Quick coupler 200 kg

MONOBLOC BOOM

Length 4.70 m

DIPPERS

Length 2.10 m, 2.50 m and 3.00 m

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