

CX210C
Crawler Excavator

OPERATOR'S MANUAL

Part number 48028446

1st edition English

June 2016

Replaces part number 47981254



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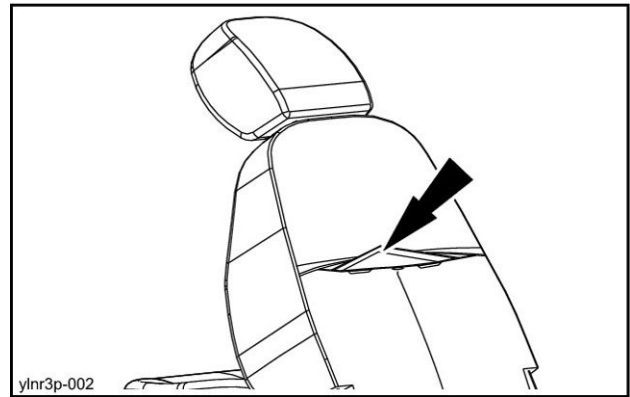


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Operator's manual storage on the machine

Always keep the manual in the location provided for that purpose (behind the operator's seat). Make sure it is always complete and in good condition. If you wish to obtain extra copies, or copies in languages other than that of the country of use, consult your CASE CONSTRUCTION Dealer.



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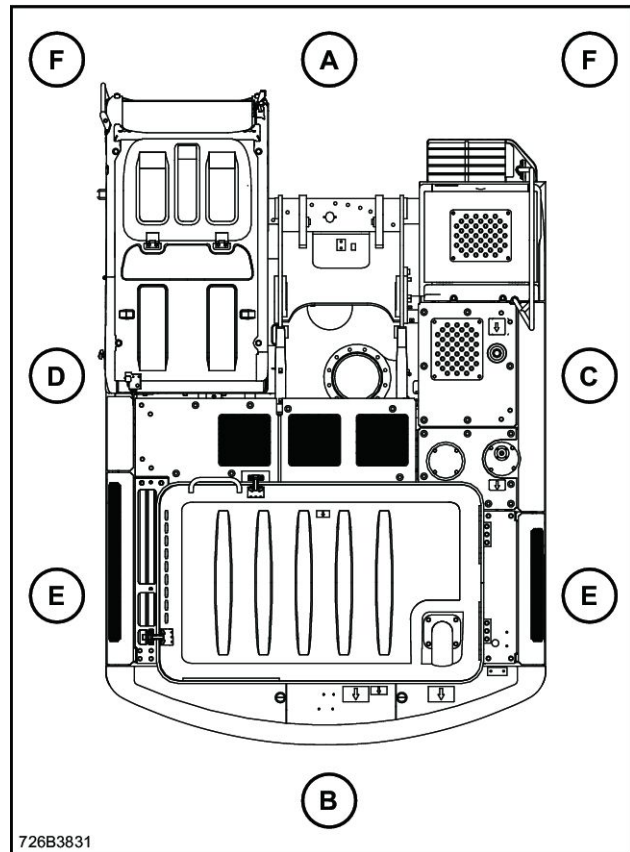
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Machine orientation

The terms "Right-hand", "Left-hand", "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.

NOTICE: the illustration opposite 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 upper structure.

- (A) Front
- (B) Rear
- (C) Right-hand side
- (D) Left-hand side
- (E) Travel motors
- (F) Idler wheels



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- Clean the machine regularly. Accumulations of grease, dirt and debris can cause injuries or damage the machine.
- Periodically inspect the fastening of the main components, as part of the machine maintenance programme: counterweight, turntable bearing and operator's compartment. In the event of problems, consult your CASE CONSTRUCTION Dealer.
- If the accumulator is not functioning correctly, consult your CASE CONSTRUCTION Dealer. Never try to carry out any servicing operation on the accumulator. If this instruction is not followed serious injury can result.
- The accumulator is charged with nitrogen under high pressure. Do not weld or allow flames to come near to the accumulator.
- There is high pressure fuel in the feed pipe when the engine is running and immediately after it has been shut down. Wait for 2 minutes after engine shut down before you do any maintenance or inspections to allow the pressure to drop in the pipe.
- High-voltage is charged to the controller and/or to the injector while the engine is running and immediately after it has been shut down. Do not touch the controller or the injector. If it is necessary to touch them for maintenance purposes, consult your CASE CONSTRUCTION Dealer.

⚠ Using an Implement other than a bucket ⚠

- When using a special implement (hydraulic breaker, cutter crusher etc.), refer to the operator's manual provided with the implement.

⚠ Implement operation and maintenance ⚠

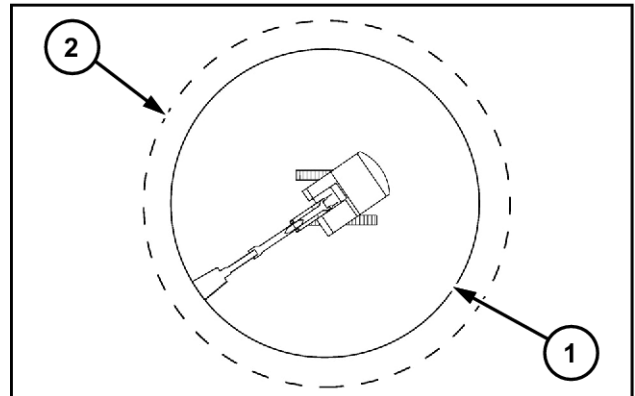
- For the implement operation and maintenance, refer to the operator's manual provided with the implement.

⚠ Safety area ⚠

The safety area is the space necessary for the machine to operate at the maximum range of the tool and at full swing **360 ° plus 2 m**.

(1) Working area.

(2) Safety area.

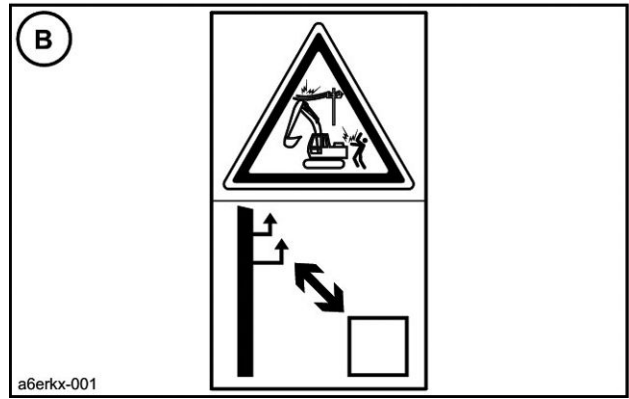


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Danger electric line

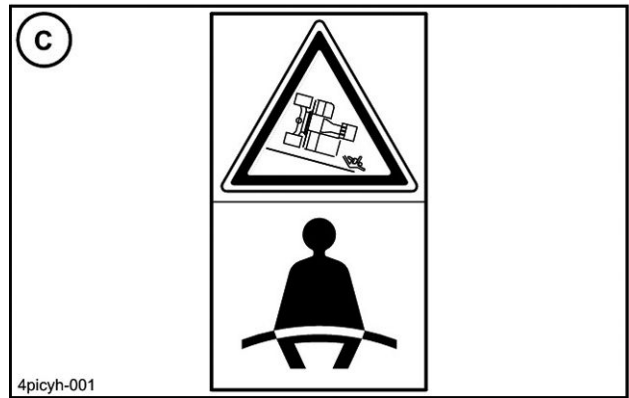
When working near overhead high-voltage electric lines, there is a high risk of electric shocks.

Always keep minimum distances to the electric lines in order to avoid serious damages to the machine, and to avoid serious injuries to the bystanders.



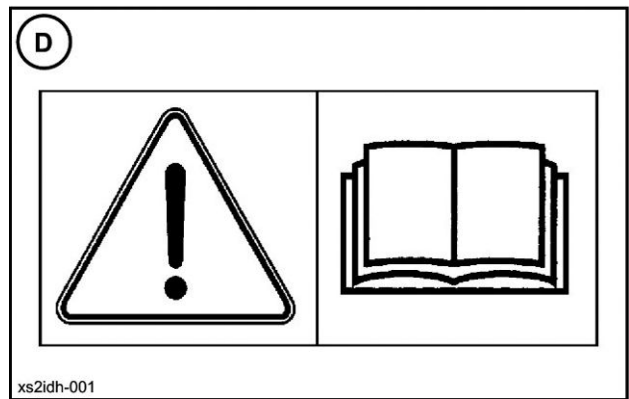
Seat belt

Always fasten the seat belt before starting machine operation.



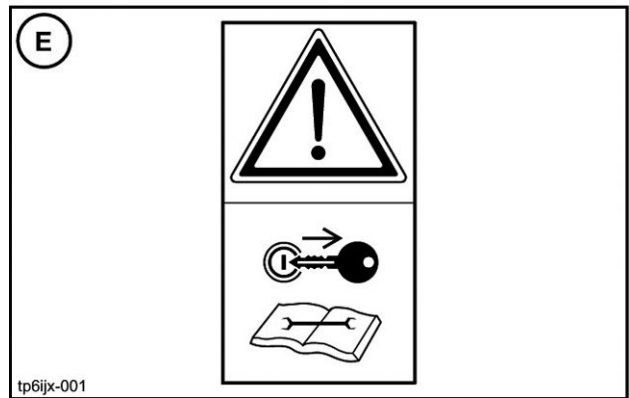
Operator's manual

Make sure to read the operator's manual to understand how operate the machine properly and safely.



Maintenance or inspection

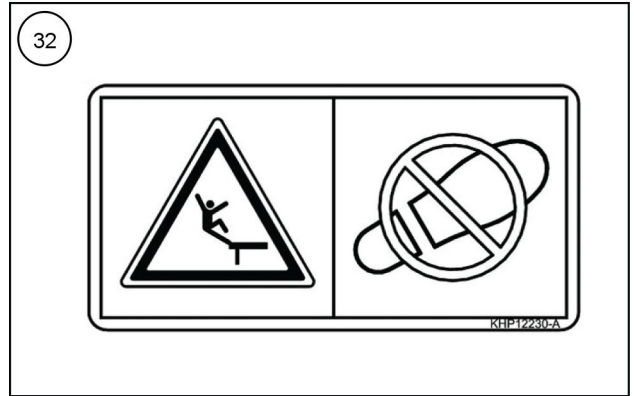
Always stop the engine and remove the starter key before any maintenance operation or inspection of the machine.



Engine hood

Part number: KHP12230

Do not step over the engine hood in order to avoid the risk of falling.



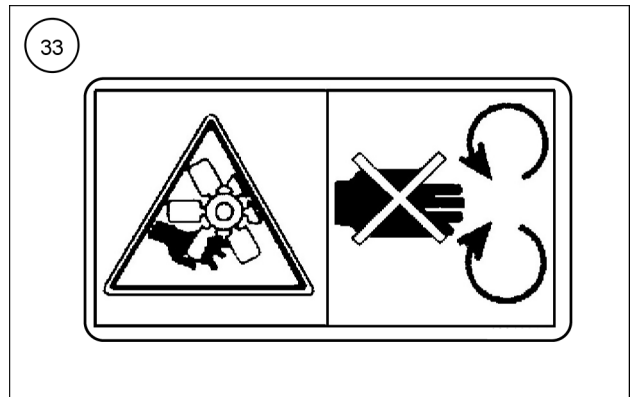
Fan

Part number: KHP1335

When the engine is running, keep away from the engine cooling fan, from the fan belt and from the other rotating parts of the mechanical fan drive system.

The engine cooling fan and other rotating parts can cause serious injuries.

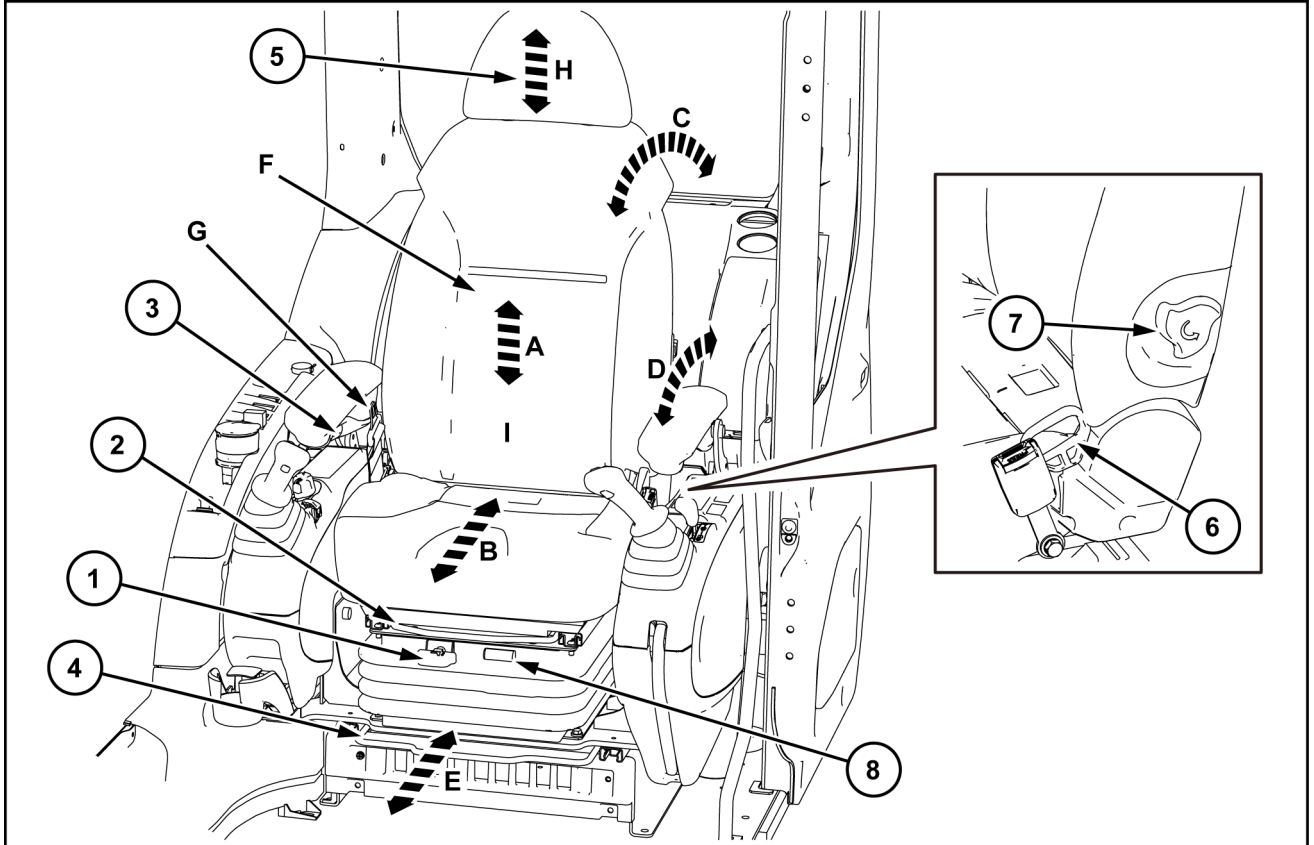
Always stop and cool down the engine before making any maintenance operation in the engine compartment.



Air suspension seat (option)

In order to operate the machine correctly and with maximum efficiency and comfort, adjust the seat to suit the weight and size of the operator.

NOTE: The adjustment of the seat can only be carried out when the operator is seated in the seat, the engine is shut down and the ignition key is set to "ACC" (accessory current supply).



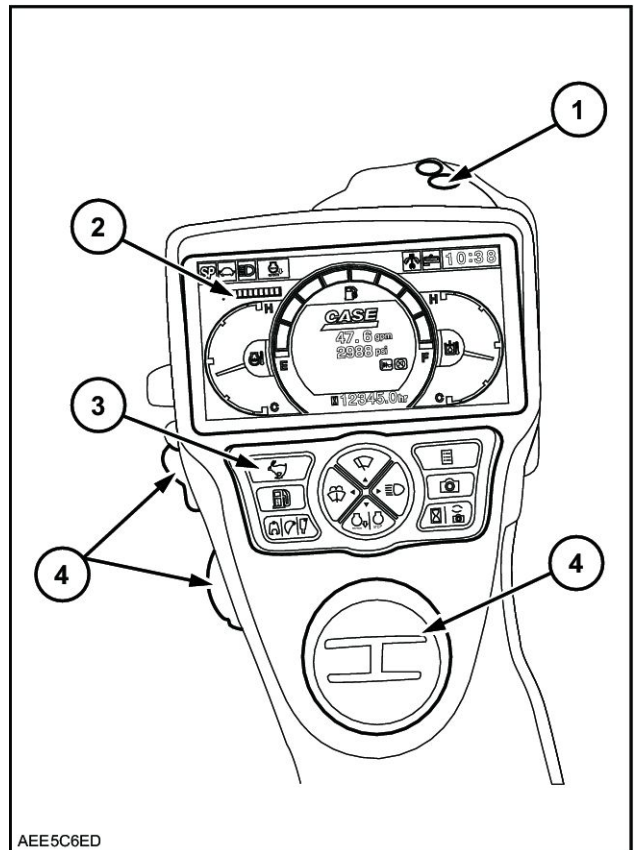
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- | | |
|---|---------------------------------------|
| 1. Height and weight adjustments | 5. Head rest adjustment section |
| 2. Longitudinal position adjustment section | 6. Seat back angle adjustment section |
| 3. Arm rest angle adjustment section | 7. Lumbar support adjustment section |
| 4. Longitudinal adjustment section of the seat/control arm ASSY | 8. Weight adjustment indicator |

Front right-hand console

1. Temperature probe
Do not place objects on top of it.
2. Monitor display
Clock, Fuel Meter, Coolant Water Thermo meter, Hydraulic Oil Thermo meter.
Displays the function selection status.
Displays the machine status.
Displays the back monitor.
Displays the machine maintenance status.
3. Monitor switch
Selects the machine status. The monitor display can be switched.
4. Air vents
The air vents control the circulation and direction of air flow. The air vents are opened and controlled manually.

NOTICE: the air vents must always be open when the air conditioning is in use.



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If **(5)** is pressed, the display returns to the menu screen. If it is pressed one more time, the display returns to the machine information screen.



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Auxiliary hydraulics

Pattern 1

1. Push menu button **(1)**.



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2. Select "Auxiliary hydraulics".



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3. The auxiliary hydraulics screen is displayed by carrying out operations 1 and 2.

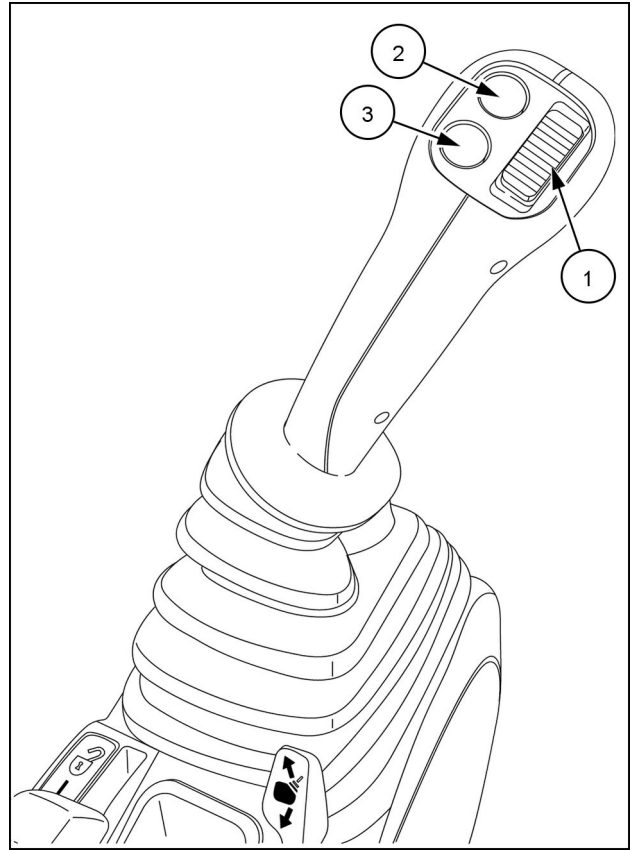


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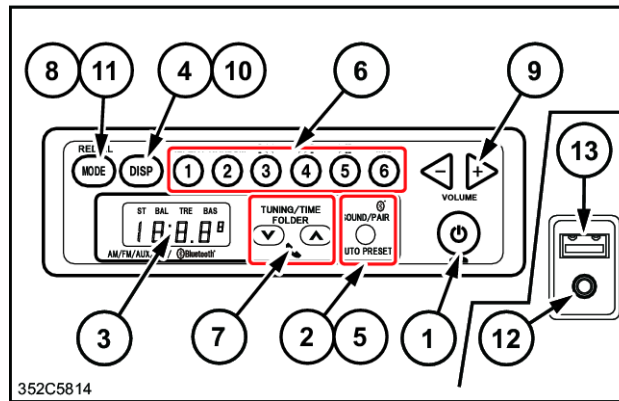
When the machine is equipped with the auxiliary low-flow hydraulic circuit, the left-hand control lever includes:

1. Proportional switch to operate double-acting hydraulic attachments.
2. ON/OFF button to operate the preferred operating direction of the double-acting hydraulic attachment.
3. Horn button.



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Cab radio



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NOTICE: Do not let water get into the speaker cases or the radio to avoid a breakdown. Keep the window closed when it rains and when washing the machine. Do not use benzene, paint thinner or any other solvent to clean the display. Wipe off the water with a soft, dry cloth. Do not try to disassemble the radio.

1. Power button (POWER)
Push the "POWER" button to turn on the radio. The band and then the frequency are displayed.
Push again the "POWER" button to turn off the radio. The clock is displayed.
2. Sound adjustment (SOUND)
Push the "SOUND" button to switch BAL → TRE → BAS .
- In BAL state: push the Δ/∇ tuning button (7) the regulate the balance.
Push the Δ UP button to increase the right speaker volume; push the ∇ DOWN button to increase the left speaker volume. The volumes can be increased up to the level 7 maximum.
- In TRE state: push the Δ/∇ tuning button (7) to regulate the treble.
Push the Δ UP button to increase the treble of 1 step; push the ∇ DOWN button to decrease the treble of 1 step. The treble can be increased up to the level 7 maximum.
- In BAS state: push the Δ/∇ tuning button (7) to regulate the bass.
Push the Δ UP button to increase the bass of 1 step; push the ∇ DOWN button to decrease the bass of 1 step. The treble can be increased up to the level 7 maximum.
Push again the "SOUND" button in BAS state to end the sound adjustment.
3. Display unit
The display shows the clock, radio frequency, band name and operation mode.
4. Clock/Frequency button (DISP)
Push the "DISP" button to show: "Frequency" → "Clock" → "Band name".
Each push changes the visualization.
5. Auto store (SOUND/AUTO PRESET)
Push the button to store 6 radio stations in the memory for the selected signal band (FM1, FM2, AM).
6. Choose of the preset radio stations (PRESET STATION)
Push the button (1-6) to tune the radio to the stored station on the selected signal band (FM1, FM2, AM) .
To store a radio station in the memory, tune the radio to the station desired and hold down one of the button (1-6).
7. Tuning button (TUNE)
Push and hold the "TUNE" button to tune automatically the radio to the next station. To stop the tuning, release and push again the button.
Push the Δ button to increase the frequency; push the ∇ button to decrease the frequency. Hold down either button to change the frequency continuously.
8. Mode switch button (MODE)
Push the button to switch AM → FM1 → FM2 → AUX → USB → BT.
9. Volume adjustment buttons (VOL◀, VOL▶)
Push the VOL◀ button to decrease the volume; Push the VOL▶ button to increase the volume. Hold down either button to change the volume continuously.
10. Clock adjustment (DISP)
To adjust the clock, push and hold the "DISP" button when the clock is shown on the display.
- Hour adjustment
With the hour on the display flashing, use the tuning button Δ/∇ to adjust the value.
Push the UP Δ button to increase the value.
Push the DOWN ∇ button to decrease the value.
Pressing the "DISP" button shifts from hour to minute adjustment.
- Minute adjustment
With the minutes on the display flashing, use the tuning button Δ/∇ to adjust the value.
Push the UP Δ button to increase the value.
Push the DOWN ∇ button to decrease the value.

The display returns automatically to the frequency visualization if no button is pushed within 1 second.

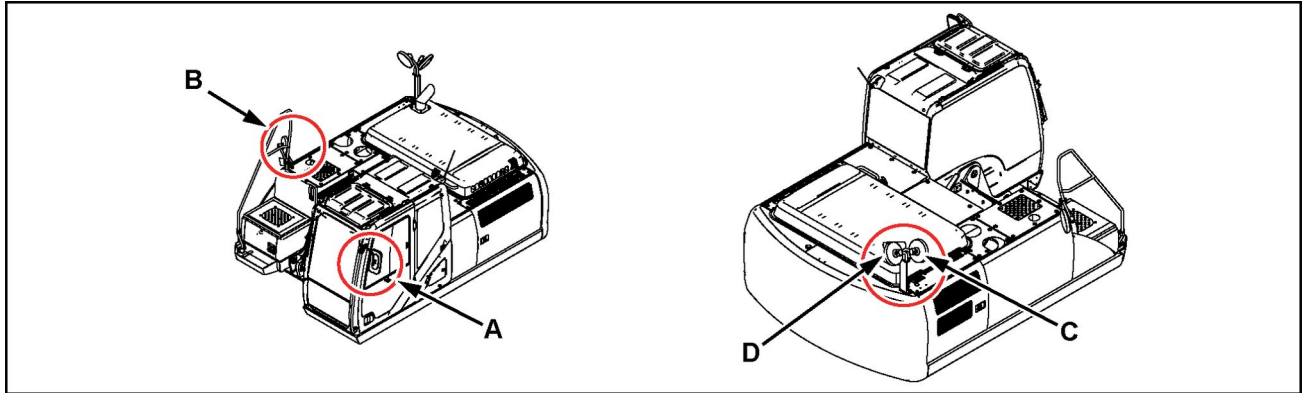
Rear view mirrors

⚠ WARNING

Avoid injury and/or machine damage!
Keep the mirrors clean and properly adjusted.
Failure to comply could result in death or serious injury.

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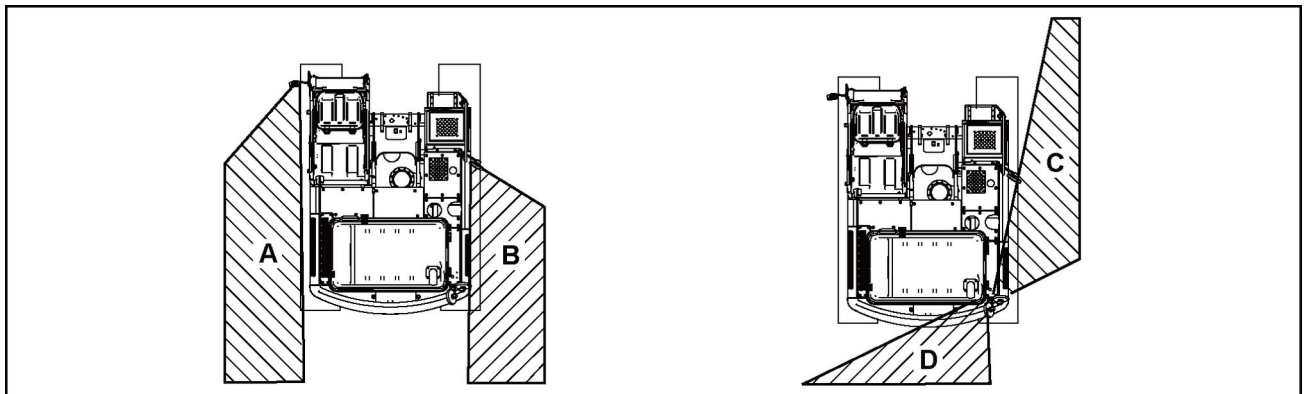
Mirror Position



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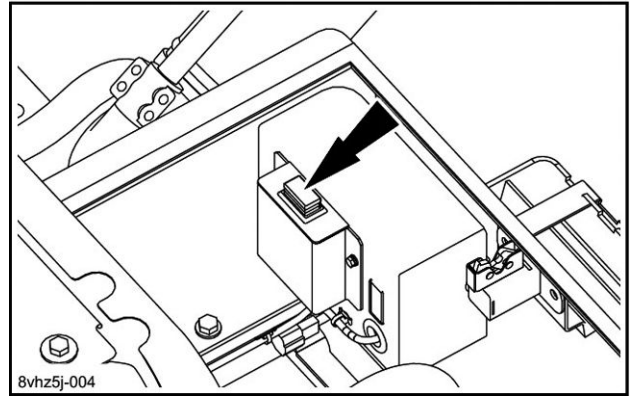
Visibility zone

The illustrations below show the visibility zone that each rear view mirror must cover.



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6. Select the filling method using the selector switch located on the right side of the filling pump:
 - Auto mode: the pump stops filling automatically and the audible alarm sounds when the fuel tank is full.
 - Manual mode: the filling shall be monitored from the fuel tank gauge and shall be stopped when the fuel reaches the maximum level.

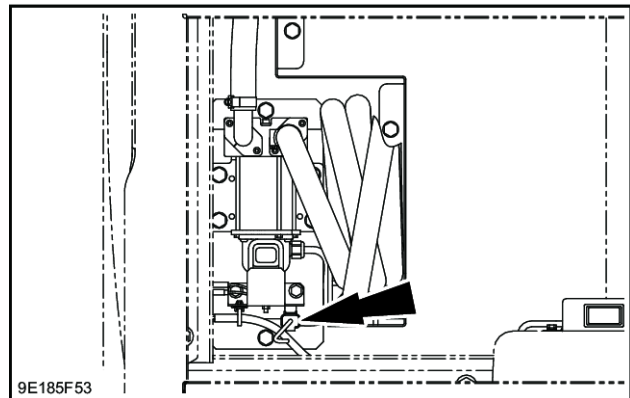


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7. Turn the main switch of the pump to ON position. Filling begins.
8. When the fuel tank is full, turn the main switch of the pump to OFF position. In Auto mode, the audible alarm device will cease to function.

NOTE: It is possible to stop filling at any time by turning the main switch of the pump to OFF position.

9. Run the pump for a few moments to empty the pipe outside the drum. Clean and replace the inlet pipe in the front storage box.



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10. Refit the fuel tank filler cap.
11. Turn the starter key to OFF position.

NOTE: The pump is equipped with a **10 A** fuse.

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Bringing the machine up to operating temperature

NOTICE: Normal operating temperature of the hydraulic fluid is between **50 °C (122.0 °F)** and **80 °C (176.0 °F)**, in the middle of the temperature indicator.

After starting the engine and before using the machine, allow the hydraulic fluid to reach a temperature of **20 °C (68.0 °F)**, as indicated by the appearance of the first two segments on the hydraulic fluid temperature indicator. (Refer to page **3-20**).

Engine automatic warm-up

Once the engine has started, the warming-up process begins automatically. At first, engine speed is held at a pre-determined, low level. As the temperature increases, engine speed increases in proportion. It is possible to interrupt the warming-up process at any time, simply by manually changing engine speed or by operating one of the control levers. Warming-up takes approximately 5 to 10 minutes.

Manual engine warm-up

With the engine throttle button a quarter open, start the engine and allow it to run approximately for 5 to 10 minutes. When the coolant temperature reaches the second segment, carry out the hydraulic fluid warm-up procedure.

Hydraulic fluid warm-up

1. Turn the engine throttle button to half-open position. Push the function cancellation lever forward (safety bar in outward position). Operate the bucket control slowly until the bucket is completely closed. Operate the arm retracting control slowly until the arm is completely retracted and hold the control in this position for 30 seconds. During this time the temperature of the hydraulic fluid will increase.
2. After 30 seconds, extend the arm completely and hold the control in this position a further 30 seconds.
3. Continue the arm extending and retracting procedure until the temperature rises (first two segments of the temperature indicator).
4. Operate the travel and attachment controls three or four times to circulate the hydraulic fluid.

Load handling

⚠ WARNING

Crushing hazard!

During load handling operations, it is very important to adhere strictly to the instructions given in this manual and local legislation.

Failure to comply could result in death or serious injury.

W0257A

⚠ WARNING

Equipment failure could cause accident or injury!

Do not use the hook end of the coupler when lifting loads. The sling can come out of the coupler and the load can fall.

Failure to comply could result in death or serious injury.

W0221A

⚠ WARNING

Falling object hazard!

Never weld hooks or lugs on the bottom plate of the bucket for handling operations. The connecting rod eye is the only authorized attachment point. Always have a bucket installed when using the connecting rod eye.

Failure to comply could result in death or serious injury.

W0246A

NOTICE: *this machine is not a crane. Be very careful when you lift a load.*

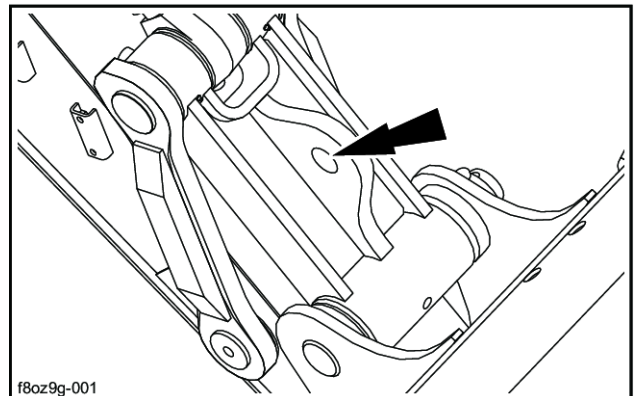
NOTICE: *the loads given are valid for the total working range height at the reach point indicated.*

When lifting loads, the slings and chains must be attached to the load handling eye on the bucket.

The load handling chart (located in the cab) shows the different permitted loads which can be lifted, depending on the reach and the type of attachment on the machine.

The machine must be on a flat level, hard surface.

Fasten the load to the lift eye on the bucket control rod.
Never weld a hook or lug to the bottom plate of the bucket.



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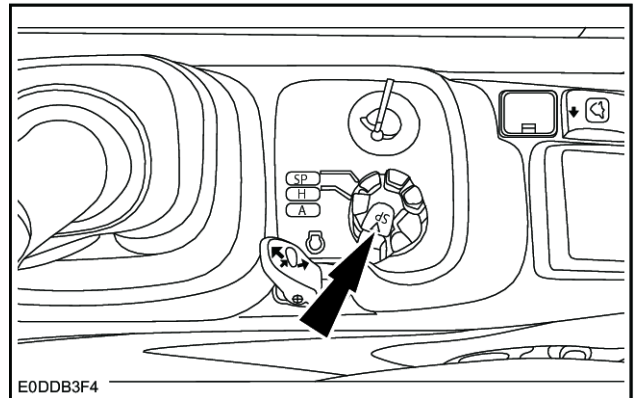
If this machine is to be used to lift loads, for safety purposes, it is recommended that the machine is properly equipped. Contact your CASE CONSTRUCTION dealer and install a Hose Burst Check Valve on your machine's boom cylinders. This system prevents the sudden lowering of the load in the event of a failure of a hydraulic hose, line, or fitting in the boom hydraulic system. Such a failure can cause personal injury or death.

- Use slings and chains with enough durability for load being lifted, together with a safety hook with lock.
- Check that the safety valve is operating correctly. In accordance with current regulations and/or manufacturer's instructions, the pressure setting must be checked every 6 months. Consult your CASE CONSTRUCTION dealer.
- Know and understand each signal from the signal person before you start.
- Always know the location of all persons in your work area before you start.
- Make certain there is no damage to the lifting device and rigging parts.

Parking the unit

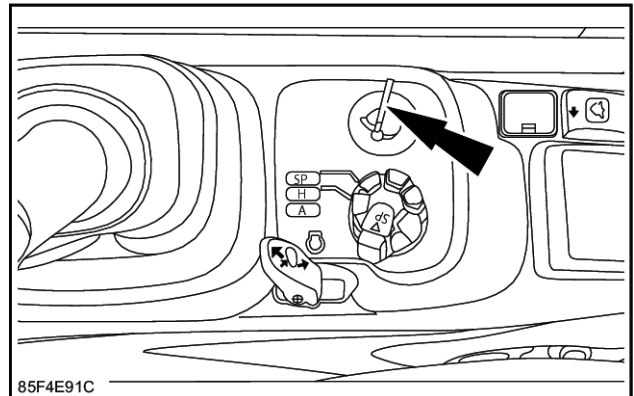
Parking the machine

1. Position the machine on flat, level ground, away from soft ground, excavations or poorly shored cavities.
2. Place the upperstructure frame in line with the undercarriage, retract the attachment, dig the bucket into the ground to anchor it.
3. Turn the engine throttle button to low idle position and let the engine run for approximately five minutes.
4. If necessary, activate the anti-theft protection. (Refer to page 4-4).



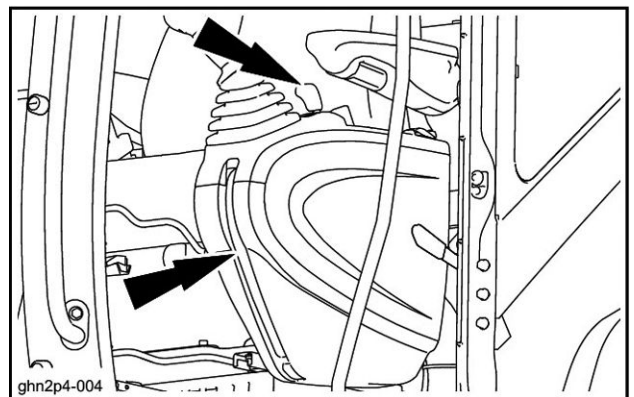
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5. Stop the engine, remove the ignition key.



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6. Place the function cancellation lever in the central position (safety bar in inward position).



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6 - MAINTENANCE

General information

Basic instructions

Servicing instructions

⚠ WARNING

Improper operation or service of this machine can result in an accident.
If you do not understand a maintenance procedure, or doubt your ability to perform a maintenance procedure correctly, see your authorized dealer.
Failure to comply could result in death or serious injury.

W0157A

⚠ WARNING

Improper operation or service of this machine can result in an accident.
Raised equipment or machine movement without an operator can cause serious injury. Always do the following before performing any maintenance:
Park the machine on flat, level ground.
Lower the attachment to the ground.
Shut down the engine and remove the ignition key.
Lock the tracks.
Failure to comply could result in death or serious injury.

W0944D

NOTICE: Be sure all the service operations in this section are carried out punctually at the intervals given, in order to ensure optimum performance levels and maximum safety when using the machine.

- Respect the maintenance intervals by checking the hourmeter every day. Before starting maintenance, park the machine on flat, firm ground, away from any obstacles, with the arm retracted and the bucket on the ground. Unless otherwise specified, all maintenance operations must be carried out with the engine stopped, and the key removed from the ignition key. It is preferable to wait for all circuits to cool down before starting work.
- Clean the grease fittings before lubrication. Clean around plugs and filler holes before adding fluid. No dust or dirt must enter the components or the circuits. Wear suitable clothing and remember to use the necessary safety equipment.
- When carrying out service work on the machine, place a "Do not operate" tag on the instrument panel. Never climb down from the operator's compartment leaving the engine running.
- Remove the necessary lower panels during maintenance of certain machine components.

⚠ WARNING

Moving parts!
Make sure the lower panels are properly closed before driving the machine.
Failure to comply could result in death or serious injury.

W0910A

Any modification to this machine without prior authorization could cause serious injury. Do not make any modifications without authorization. Consult your CASE CONSTRUCTION Dealer.

NOTICE: If you use your machine in particularly harsh conditions (dusty or corrosive atmosphere, etc.), the servicing intervals should be reduced accordingly.

NOTICE: Take particular care to replace all filters regularly. Clean filters mean longer engine running life.

NOTICE: oil and fluid should not be thrown on the ground. They must be stored and removed by a company which is responsible for their recycling or their disposal.

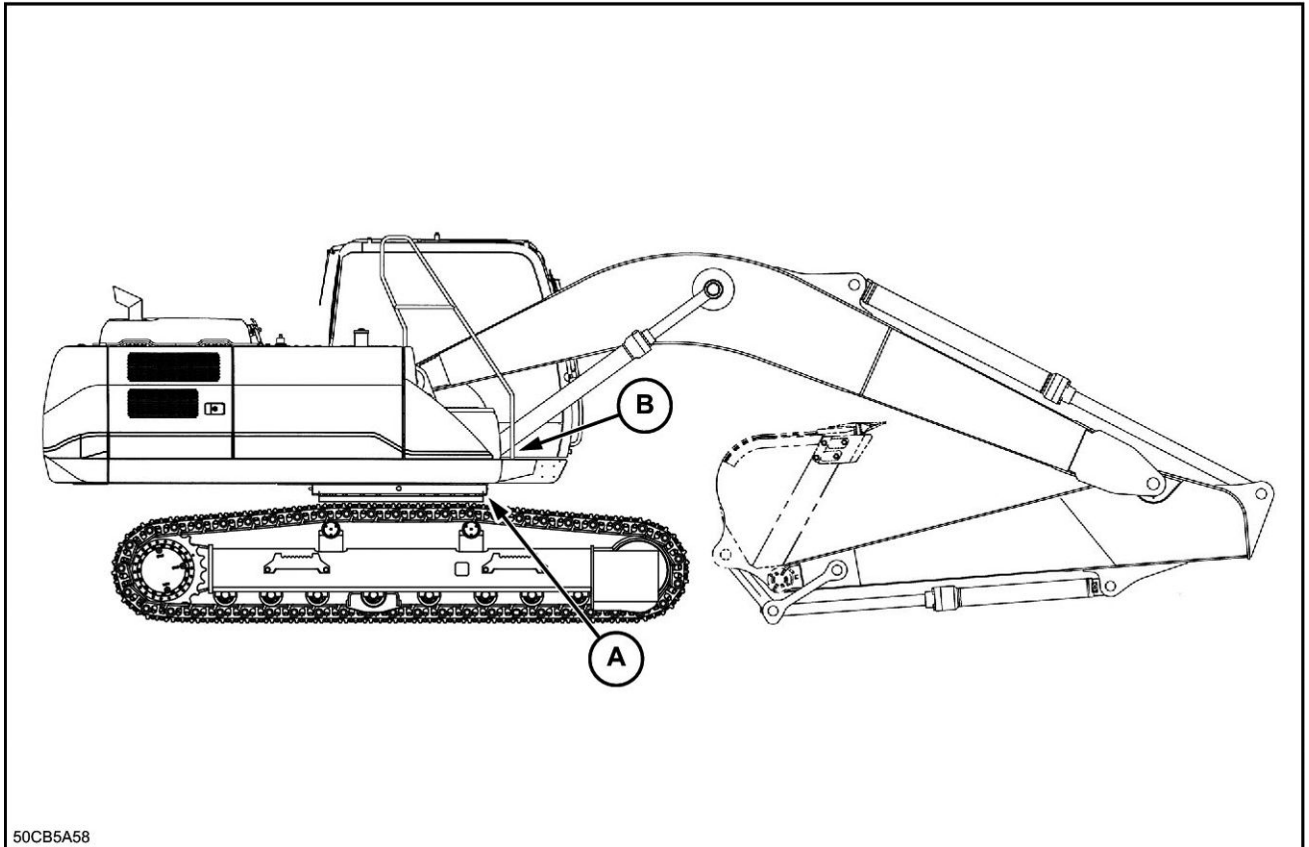
Grease points

Type of grease: **CASE AKCELA 251H EP MULTI-PURPOSE GREASE.**

NOTE: The numbers within brackets mentioned on the right of the description indicate the number of lubrication points.

NOTE: After lubrication, refit the protective and indicating plastic caps to the grease fittings.

Machine



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Engine

Engine oil level check: Every 10 hours or every day

Oil replacement: Every 500 hours

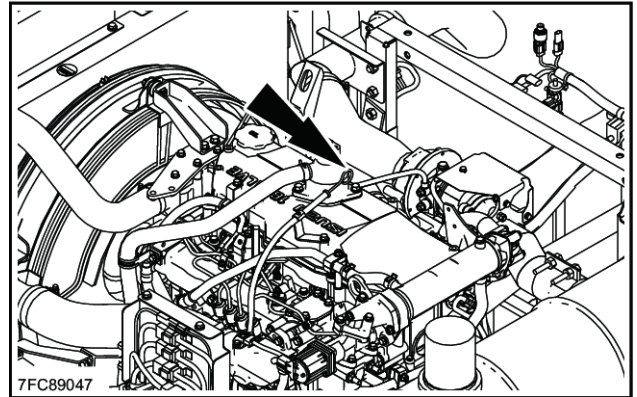
Oil filter replacement: Every 500 hours

Oil capacity: **23.1 l (6.1 US gal)**

Type of oil: **CASE AKCELA NO. 1™ ENGINE OIL**

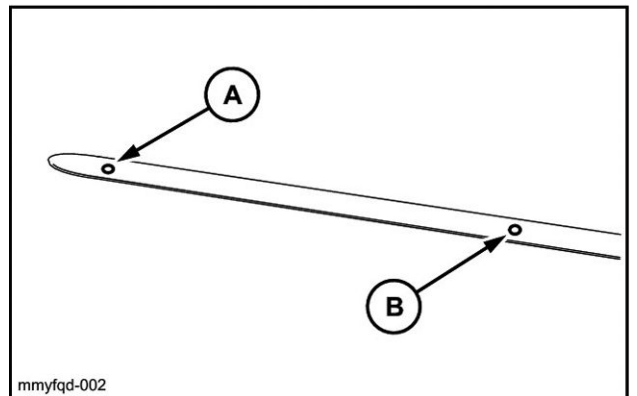
Level

1. Park the machine on flat, horizontal ground. Stop the engine, remove the ignition key.
2. When the engine has been stopped for ten to twenty minutes, raise and lock the engine hood, remove the dipstick, wipe it with a clean cloth and insert it back in the guide tube as far as it will go. Then take it out again.



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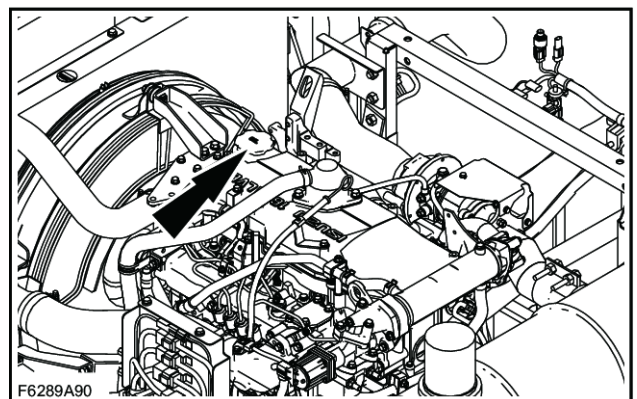
3. If the level is situated between the marks **(A)** and **(B)** on the dipstick, the level is correct.



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4. If the oil level is at mark **(A)** (min) or below, remove the filling plug and add oil up to mark **(B)** (max) of the dipstick, install the plug.

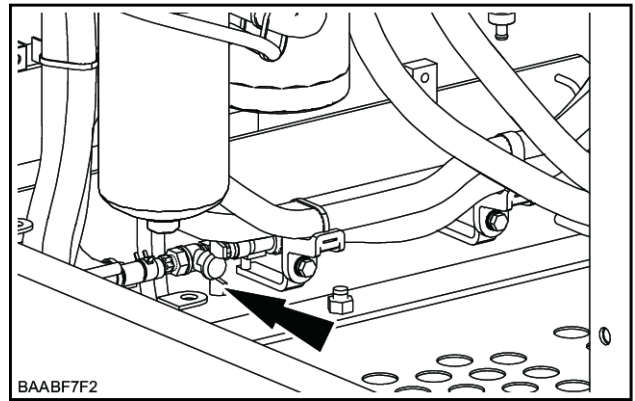
NOTICE: the level should not be higher than the mark **(B)** (maximum on the dipstick).



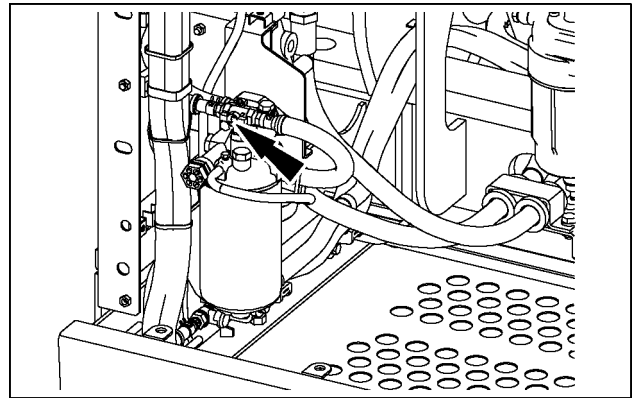
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With the same procedure, replace the other prefilter element.

8. Open the valve on the supply line.
9. Bleed the system. See "Fuel system air bleed".



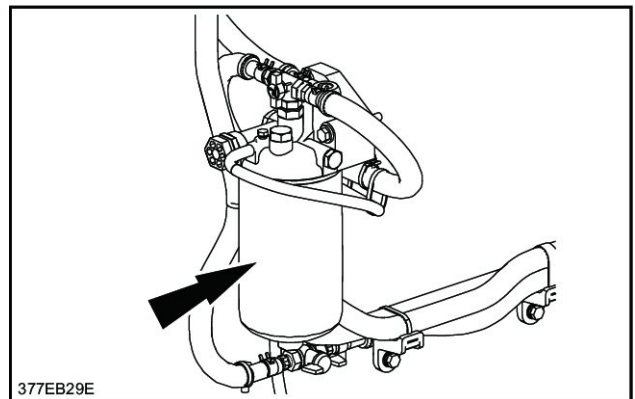
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Bleed the filter

Proceed in the same manner as for the pre-filter. See "Pre-filter bleeding".

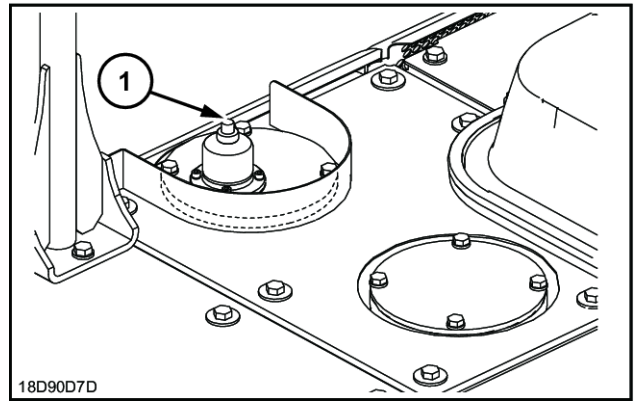


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Replacing the filter element

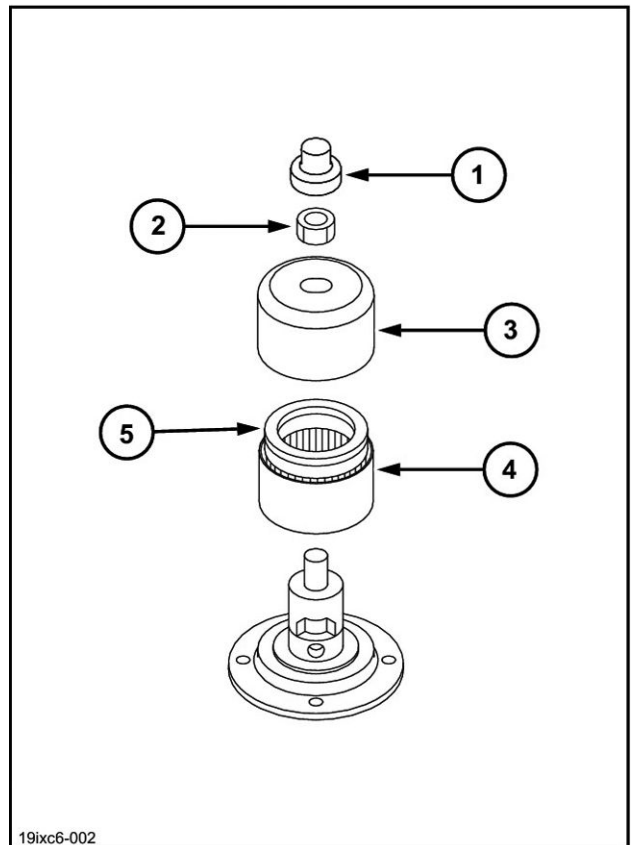
NOTICE: if a fuel filter other than a genuine CASE CONSTRUCTION filter is used, the guarantee will not be applied to a fault caused by the use of a wrong filter.

Replacing the reservoir breather filter element



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1. Press the button **(1)** to release all pressure in the hydraulic reservoir.
2. Remove the nut **(2)** and the cover **(3)** from the breather.
3. Remove and discard the used filter element **(4)**.
4. Install a new element **(4)**, making sure the seal **(5)** is facing upwards.
5. Install the cover **(3)** as well as the nut **(2)**.



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Travel reduction gears

Service specifications

Oil level check: Every 250 hours

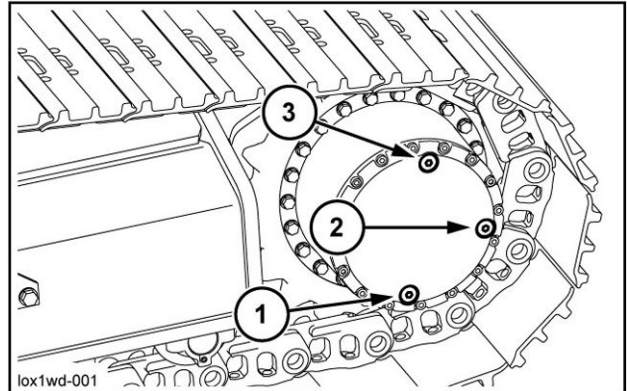
Oil drain: Every 1000 hours (after the first 250 hours during the run-in period)

Oil capacity (per reduction gear): **5 l (1.3 US gal)**

Type of oil: **CASE AKCELA GEAR 135 H EP 80W-90**

Level

1. Park the machine on flat, horizontal ground.
2. Move the machine so that plug **(1)** is in the lowest possible position.
3. Stop the engine and remove the ignition key.
4. Slowly loosen the plug **(3)** to release any residual pressure.
5. Remove the plug **(2)** and check the oil level. The level must come up to the bottom edge of the port **(2)**. If required, remove the plug **(3)** and top up through this port until oil comes up to the bottom edge of the port **(2)**.
6. If necessary, replace the seals of plugs **(2)** and **(3)** then replace the plugs.
7. Repeat Steps 2 to 6 for the other travel reduction gear.
8. Travel slowly with the machine and make sure there are no leaks.



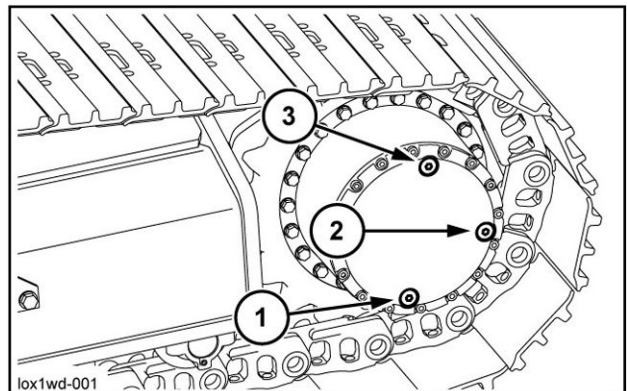
LOX1WD-001 1

Draining and refilling

1. Park the machine on flat, horizontal ground.
2. Move the machine so that plug **(1)** is in the lowest possible position.
3. Shut down the engine and remove the ignition key.
4. Place a receptacle of suitable capacity under the travel reduction gear.
5. Slowly loosen the plug **(3)** to release any residual pressure then remove the three plugs.
6. Allow the oil to drain.

NOTICE: check the condition of the drained oil. If it contains metal filings or foreign matter, consult your CASE CONSTRUCTION Dealer.

7. If required, replace the plug seals.
8. Install the plug **(1)**, fill with oil through the port **(3)** until oil comes up to the bottom edge of port **(2)**, then install the plugs **(2)** and **(3)**.
9. Repeat Steps 2 to 8 for the other travel reduction gear.
10. Travel slowly with the machine and make sure there are no leaks.



LOX1WD-001 2

Protecting the Electrical/Electronic Systems During Charging or Welding

⚠ DANGER

Improper operation or service of this machine can result in an accident.

Any unauthorized modifications made to this machine can have serious consequences. Consult an authorized dealer on changes, additions, or modifications that may be required for this machine. Do not make any unauthorized modifications.

Failure to comply will result in death or serious injury.

D0030A

⚠ WARNING

Battery acid causes burns. Batteries contain sulfuric acid.

Avoid contact with skin, eyes or clothing. Antidote (external): Flush with water. Antidote (eyes): flush with water for 15 minutes and seek medical attention immediately. Antidote (internal): Drink large quantities of water or milk. Do not induce vomiting. Seek medical attention immediately.

Failure to comply could result in death or serious injury.

W0111A

Whenever carrying out a welding operation on the undercarriage or upperstructure carriage as authorized by the manufacturer and in accordance with his instructions, disconnect the batteries, disconnect the alternator B+ and D+ terminal wires and connect the welding apparatus earth cable to the component on which the welding operation is to be performed. Never connect the welding apparatus to the undercarriage when welding on the upperstructure (or vice-versa). Never connect the welding apparatus earth to a component of the hydraulic system.

To avoid damage to the electronic/electrical systems, always observe the following:

1. Never make or break any of the charging circuit connections, including the battery connections, when the engine is running.
 2. Never short any of the charging components to ground.
 3. Always place the key of the battery master switch in "O" (Off) position and disconnect the ground cable from the battery before arc welding on the machine (if equipped).
- Position the welder ground clamp as close to the welding area as possible.
 - If welding in close proximity to a computer module, then the module should be removed from the machine.
 - Never allow welding cables to lay on, near or across any electrical wiring or electronic component while welding is in progress.
4. Always disconnect the negative cable from the battery when charging the battery in the machine with a battery charger.

ATTENTION: *If welding must be performed on the unit, either the machine, the battery ground cable must be disconnected from the machine battery. The electronic monitoring system and charging system will be damaged if this is not done.*

Remove the battery ground cable. Reconnect the cable when welding is completed.

Gas spring inspection

⚠ WARNING

Explosive gas!

Gas struts contain high-pressure nitrogen gas. If handled improperly, they could explode.

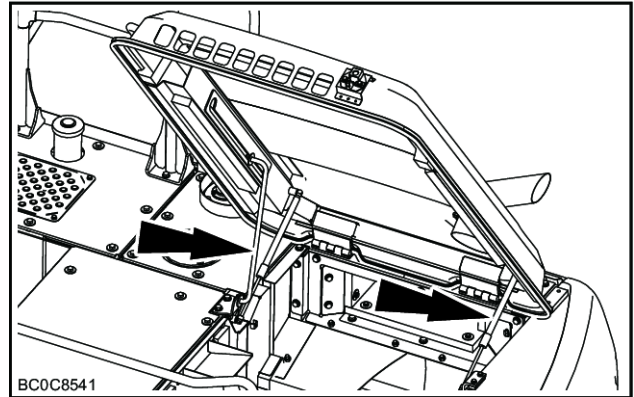
- Do not disassemble.
 - Do not expose to flame or fire.
 - Do not puncture, weld, or melt.
 - Do not expose to shock by striking or turning.
 - The fill gas must be removed before disposal. Consult your dealer.
- Failure to comply could result in death or serious injury.

W0914A

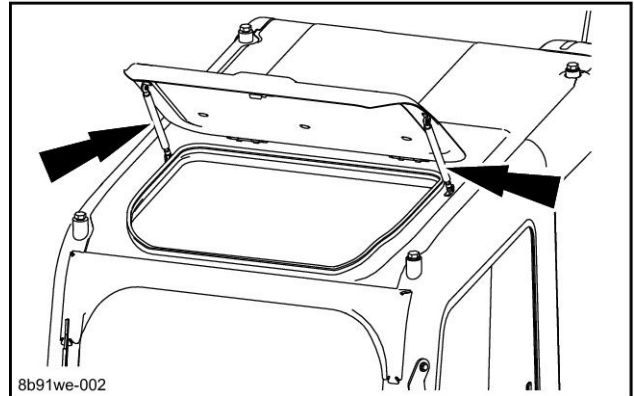
Gas springs are located on the engine hood (2 locations left and right), cab sunroof (2 locations left and right), and tool box.

For the following, request inspection, service, or replacement from your CASE CONSTRUCTION Dealer.

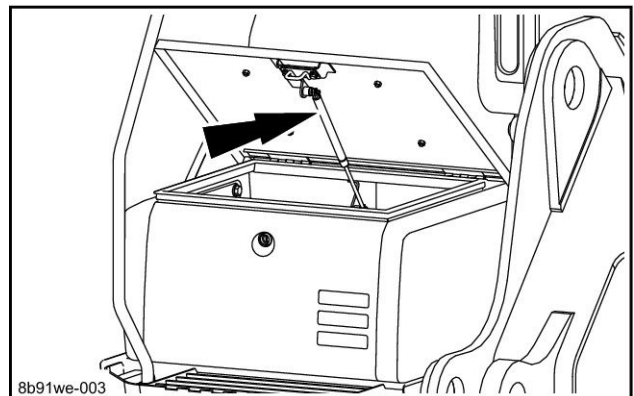
- When the engine hood or cab sunroof or tool box does not open with little effort.
- When the engine hood or cab sunroof or tool box does not stay open.
- When an oil or gas leak is discovered from the gas spring.



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8B91WE-002 2

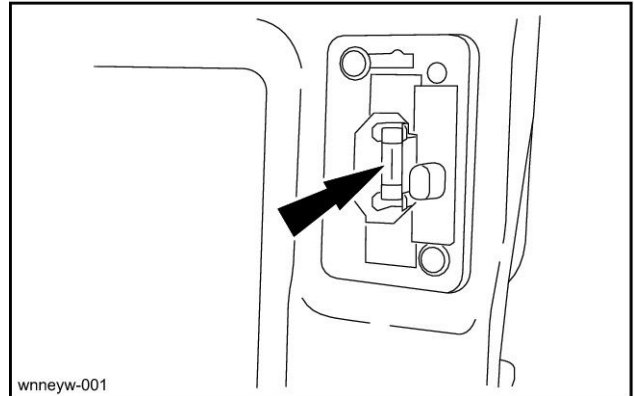


8B91WE-003 3

Bulb replacement

Operator's compartment lighting

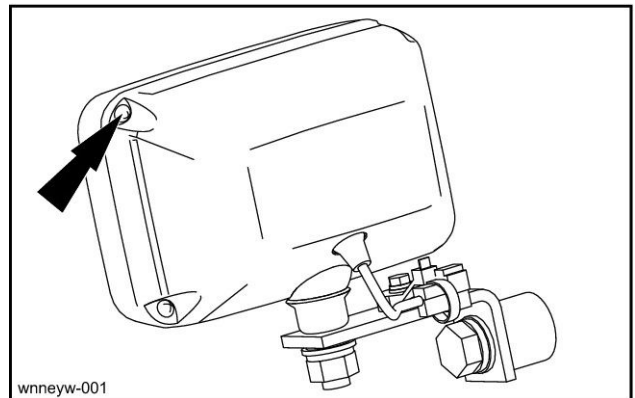
1. Remove the cover.
2. Remove the bulb and install a bulb of the same wattage (**10 W**).
3. Install the cover.



8YHY9K-001A 1

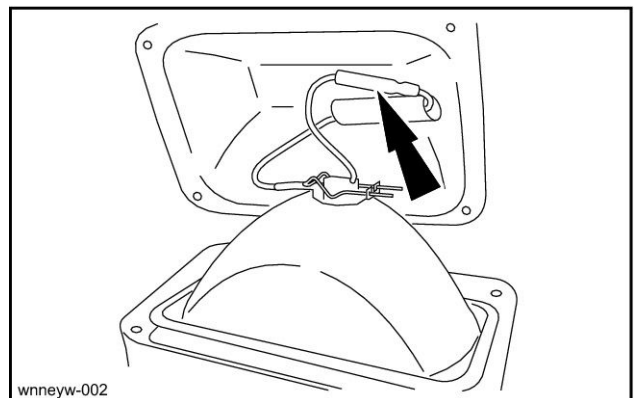
Attachment working light

1. Remove the 4 retaining screws.



WNNEYW-001A 2

2. Tilt the working light and disconnect the plug.



WNNEYW-002A 3

7 - TROUBLESHOOTING

Fault code resolution

Engine troubleshooting

NOTE: This chapter shows how to easily diagnose problems relating to the engine and describes the solutions to be adopted. If you are unable to determine the cause of the failure, or if the latter is difficult to rectify, consult your CASE CONSTRUCTION Dealer.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine does not start. Starter does not rotate or rotation is weak.	Battery master switch in "O" (Off) position (if equipped)	Place the battery master switch in "I" (On) position (if equipped)
	Battery is running out	Charge or replace
	Disconnection, looseness, or corrosion of the battery terminals	Repair the corroded area, and then tighten securely
	Starter ground wire terminal detached, loose, or corroded	Repair the corroded area, and then tighten securely
	Engine oil viscosity is too high	Replace it with oil with appropriate viscosity
	Starter or electrical system faulty	Consult your CASE CONSTRUCTION Dealer
Engine does not start. Starter turns over.	Battery master switch in "O" (Off) position (if equipped)	Place the battery master switch in "I" (On) position (if equipped)
	No fuel in fuel tank	Check that there is no fuel leakage and refuel
	Air intrusion in the fuel system	Remove the air
	Clogging of the fuel filter	Remove moisture and replace the element
	Fuel is frozen	Warm up the fuel pipe with hot water, or wait until the air temperature rises
	Failure of the supply pump	Consult your CASE CONSTRUCTION Dealer
	Clogging of the supply pump strainer	Clean the strainer
	Failure of the engine control system	Consult your CASE CONSTRUCTION Dealer
	Preheating system faulty	Consult your CASE CONSTRUCTION Dealer
Overflow valve remains open	Clean or replace the supply pump, fuel filter or fuel port overflow valve	
The engine starts, but stops immediately.	Clogging of the fuel filter	Remove moisture and replace the element
	Clogging of the pre-fuel filter	Clean or replace the element
	Failure of the engine control system	Consult your CASE CONSTRUCTION Dealer
	Clogging of the air cleaner	Clean or replace the element
	Failure of the supply pump	Consult your CASE CONSTRUCTION Dealer
	Clogging of the supply pump strainer	Clean the strainer
Engine revolution is unstable.	Failure of the fuel system	Consult your CASE CONSTRUCTION Dealer
	Water or air intrusion in the fuel system	Remove the air
	Failure of the engine control system	Consult your CASE CONSTRUCTION Dealer
Engine rotation does not increase.	Clogging of the fuel filter	Remove moisture and replace the element

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