

ORIGINAL INSTRUCTIONS

CX180C-8
Crawler Excavator

OPERATOR'S MANUAL

Part number 51548742

1st edition English
November 2018



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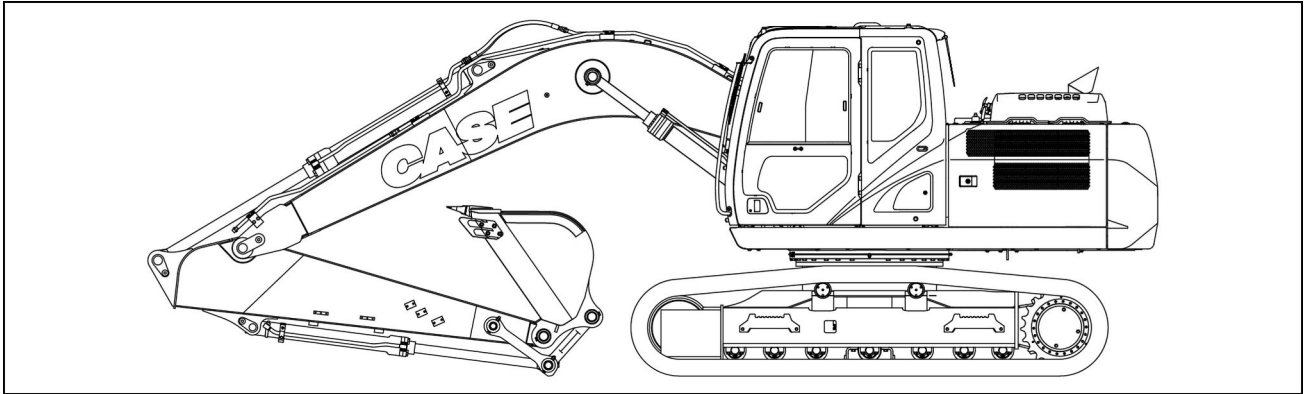


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Product identification

The CX180C-8 is a crawler hydraulic excavator. It consists of an undercarriage fitted with tracks and a turntable bearing which supports the upperstructure frame. The upperstructure frame supports the attachment, at the front end of the machine, plus the engine, hydraulics and cab. When the operator works the controls, the engine-driven pump delivers hydraulic fluid to the control valves. The control valves distribute the hydraulic fluid to the various cylinders and hydraulic motors employed. A cooling system maintains the hydraulic fluid at normal operating temperature.



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When ordering parts, obtaining information or assistance, always supply your CASE CONSTRUCTION Dealer with the type and serial number of your machine or accessories. Write the following in the spaces below: the type, serial number and year of manufacture of your machine, accessories and the serial numbers of the various hydraulic and mechanical components.

Machine

(1) Designation/Model
Hydraulic Excavator CX180C-8

(2) Product Identification Number (PIN)



SMIL18CEX0806AA 2

- When alighting from or getting into the operator's compartment, always face the machine and use the steps and access handles.
- Be sure you know the position and function of each control. Incorrect operation of the controls can cause serious injuries.
- Check all controls and safety devices in a safe, open area before starting work.
- Keep away from dangerous areas such as ditches, overhangs, rocky areas, etc. Make a survey of the work-site and determine the possible dangers before using the machine.
- Before parking the machine, make sure that the ground is stable. Plan the worksite so that the ground is flat, hard and level.
- Before moving the machine to work in a new area, walk around to determine all possible causes of accidents there. Holes, obstacles, debris and other danger risks in the working area can cause serious injury.
- Be ready to meet emergencies. Always carry a first aid kit and if possible, fire extinguisher (not supplied) within easy reach on board. Make sure the fire extinguisher is regularly serviced in conformance with the manufacturer's instructions.
- Check the fastening of the main components: counterweight, turntable bearing and operator's compartment. In the event of problems, consult your CASE CONSTRUCTION Dealer.
- Make sure you understand the symbols used on the machine safety decals. Keep the decals clean so that they are perfectly legible at all times.
- Work out a means of convenient escape from the machine (emergency exit via the windshield or the rear window glass) in the event of the machine turning over or tipping over or the cab door being jammed.
- Make sure you are perfectly familiar with traffic regulations and special safety equipment requirements before transporting this machine on a public highway.
- When loading trucks, never swing the load over the truck cab.
- Before undertaking any travel on the job site, make sure the itinerary to be followed is completely safe. If bridges are to be crossed, make sure they are perfectly capable of supporting the weight of the machine.
- Always steer round large obstacles such as boulders, big trees, etc.

Quick coupler (optional)

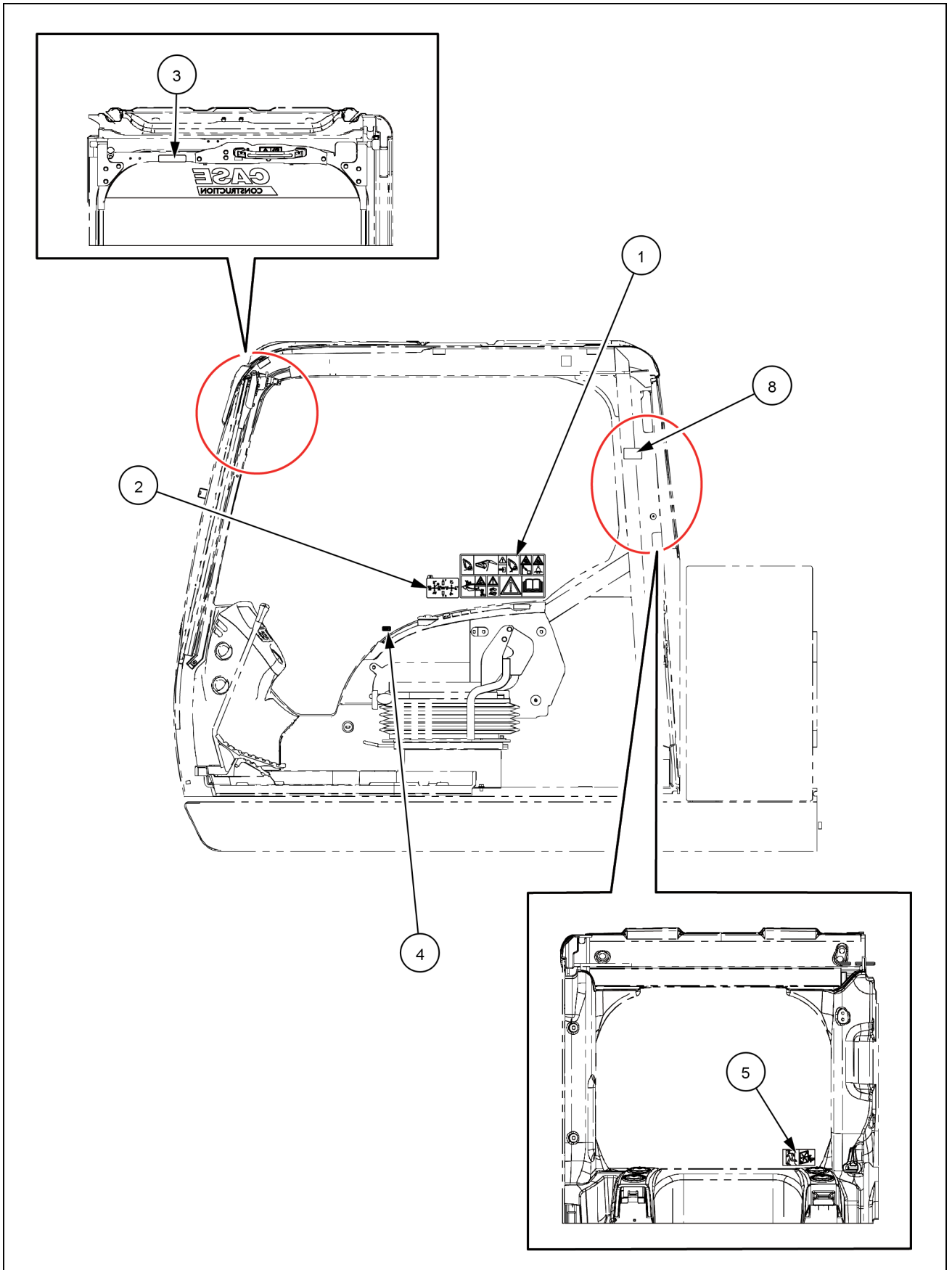
- Every day, check that the locking bar functions correctly and that it is not fouled by foreign matter. Clean the locking system if necessary.
- If you are obliged to use the quick coupler with buckets not manufactured by CASE CONSTRUCTION, make sure the diameter of the pins and the width between the bucket lugs meet the dimensions needed to fit the quick coupler (pins, washers, bushings, etc.). Consult your CASE CONSTRUCTION Dealer.

Operating the machine

- When working on a public highway, use standard traffic signs and take into consideration the working range of the upperstructure and its attachments. Local or national regulations stipulate the number, type and location of reflector strips.
- Avoid running the engine in a confined space. If there is no alternative, proper ventilation must be provided at all times.
- Do not allow anyone else on the machine. The passenger could fall or cause an accident.
- Never operate the working or travel controls unless you are properly seated in the operator's seat with the seat belt correctly fastened.
- Before starting the engine, check the direction of travel (in forward drive, the reduction gears should be to the rear of the machine).
- Do not work near overhead high-voltage electric lines without checking beforehand that all necessary measures have been taken to respect the minimum distances:
Less than 57000 volts: **3 m (9.8 ft)**.
More than 57000 volts: **5 m (16.4 ft)**.
- Study the position of any existing pipelines or conduits before starting work. Electrical cables, gas and water pipes and other underground installations can cause serious injury.
- Always make allowance for working conditions (sloping or rough ground), the site and weather conditions when driving the machine.
- Do not allow anyone to stand in the machine working area. Accidental operation of the upperstructure swing control or of an attachment control could cause an accident. Stop all operations until everyone has moved away.
- Before operating the dozer blade (if equipped) make sure that there is no one in the working area of the latter.
- Operate all controls gradually to ensure smooth machine operation.
- Whenever load handling operations are to be carried out, it is imperative to adhere strictly to the instructions given in this manual and local legislation.
- It is forbidden to use the machine to carry out tasks other than those for which it is intended. Never use the equipment for sweeping the ground to level out rubble or push objects (transversal stress on the attachment).
- Stop the engine and remove the ignition key when the machine is not in use, even for short periods of time.

Position of decals

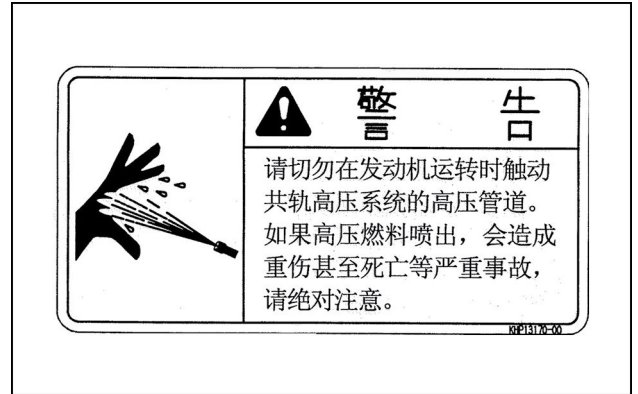
When replacing a decal, make sure it is located as shown below.



(25) Common rail high pressure decal

Part number: KHP13170

Common rail injection system contains fuel under extreme pressure that can cause fatal injuries. Do not open the common rail pump, or loosen the common rail high pressure lines, or touch any other component of the common rail injection system. Consult the CASE CONSTRUCTION dealer for service.



KHP13170 33

(26) Engine operation

Part number: KHP22400

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

Do not step on the engine as this can cause serious damages to the engine components and serious injuries to the operator.

Make sure to read operator's manual to understand proper procedures for the engine maintenance.

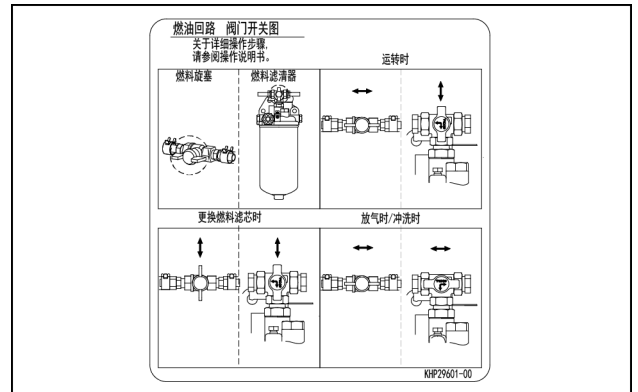


KHP22400 34

(27) Fuel Line Valve

Part number: KHP29601

Thoroughly read and understand the operator's manual before starting inspection and service of the fuel system.

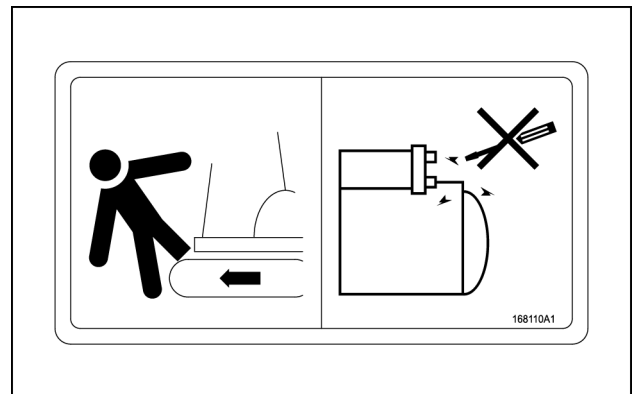


KHP29601 35

(28) Starting the engine

Part number: KHP1336

Do not try to start the engine by auxiliary tools. Machine may start to move suddenly and unintendedly causing serious injuries to the operator and to the bystanders.



KHP1336 36

Windshield

⚠ CAUTION

Pinch hazard!

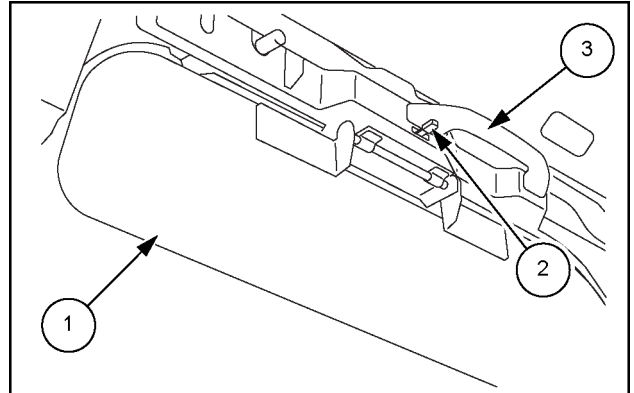
Make sure you correctly follow the instructions in this manual when handling the windshield. If you do not handle the windshield correctly, it could slip and injure your fingers or hands.

Failure to comply could result in minor or moderate injury.

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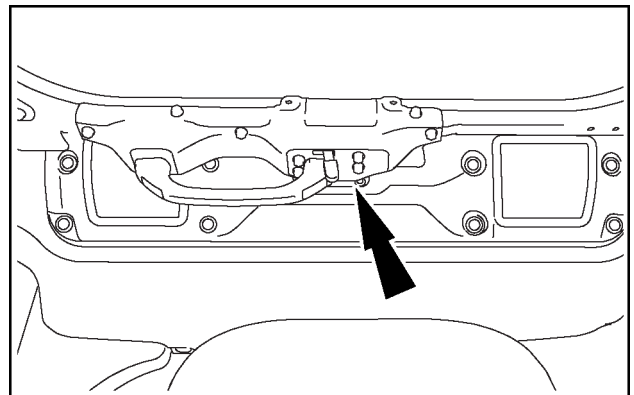
Opening

1. Fold the sun shield (1) back against the windshield and operate the lever (2). Hold the lower and upper handles (3) and carefully raise the windshield.



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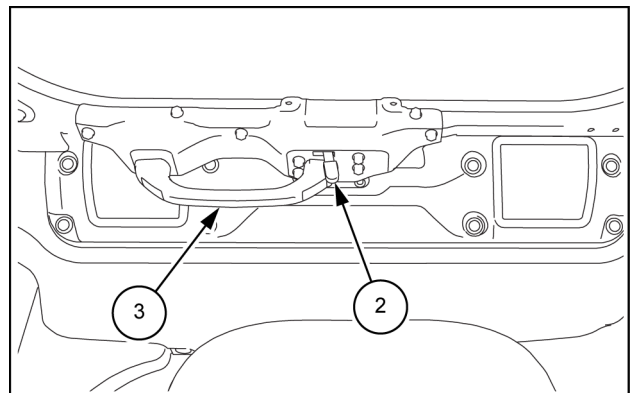
2. Pull the windshield to the rear until it engages perfectly behind the cab.



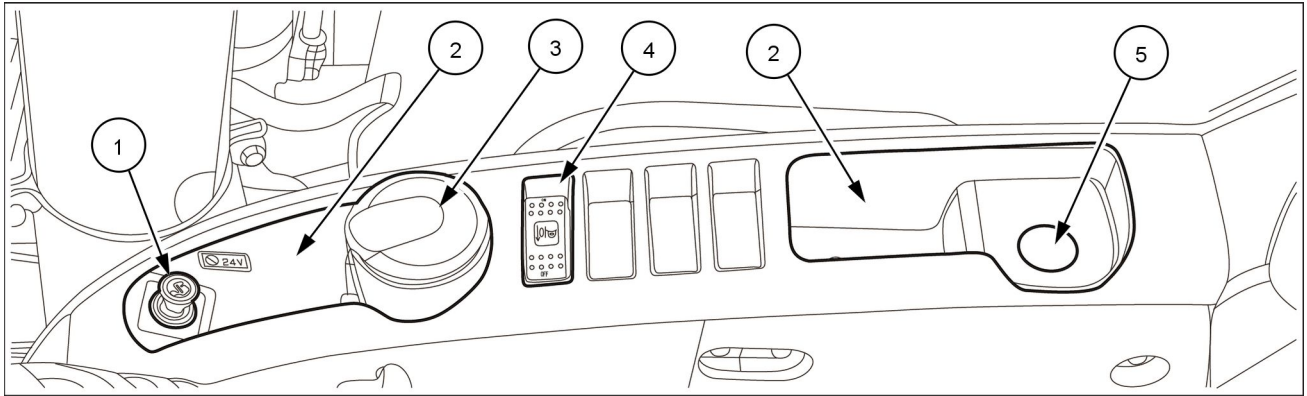
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Closing

1. Use the lever (2) to release the windshield.
2. Hold both handles (3) and carefully lower the windshield. Make sure the window is completely down.
3. Make sure the top of the windshield is correctly latched.



SMIL14CEX1686AB 3



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(1) Cigarette lighter and 24 V power supply socket: the device is active with the starter key in ON position, or while the engine is running.

To operate the cigarette lighter, push it down to engage its heating position.

NOTICE: keep pushing the cigarette lighter can cause serious damages to the device and to the machine electrical system.

NOTICE: the electrical system may be damaged if the cigarette lighter does not return to its original position after 30 s. Pull it out manually and consult the CASE CONSTRUCTION dealer.

NOTICE: connect only 24 V devices to the socket. Connecting devices functioning at different voltage can cause damages to the device itself and to the electrical system.

(2) Storage tray.

(3) Ashtray.

(4) Horn volume lowering switch: the horn volume lowering switch allows to change the volume of the horn. Press the ON side of the switch to lower the volume of the horn. Press the OFF side of the switch to resume the normal volume of the horn.

(5) 12 V power supply socket: the device is active with the starter key in ON position, or while the engine is running.

NOTICE: connect only 12 V devices to the socket. Connecting devices functioning at different voltage can cause damages to the device itself and to the electrical system.

User information mode

Press the button **(1)** to access the user information mode of the display.

Press the button **(3)** as indicated into the next pictures in order to scroll down to the intended setting tab.



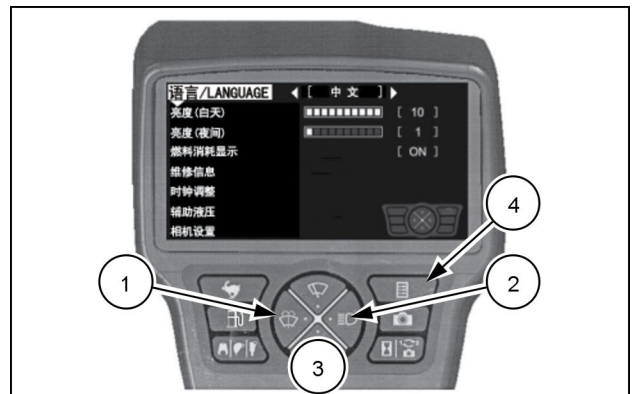
LANGUAGE setting

The first tab of the user information mode allows to set the language of the messages on the display.

Press the button **(1)** or **(2)** to select the desired language.

If other settings are needed, press the button **(3)** to scroll down to the next tab.

Otherwise, press the button **(4)** to confirm the selection and to reset the operating mode of the display.



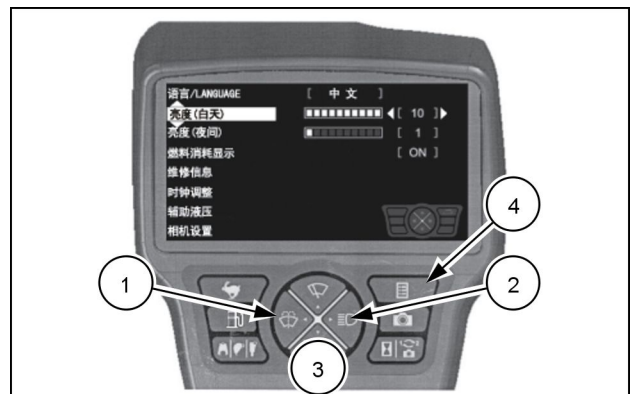
BRIGHTNESS (DAY) setting

The second tab of the user information mode allows to set the brightness of the display in daylight.

Press the button **(2)** to increase the brightness of the display, press the button **(1)** to decrease the brightness of the display.

If other settings are needed, press the button **(3)** to scroll down to the next tab.

Otherwise, press the button **(4)** to confirm the selection and to reset the operating mode of the display.



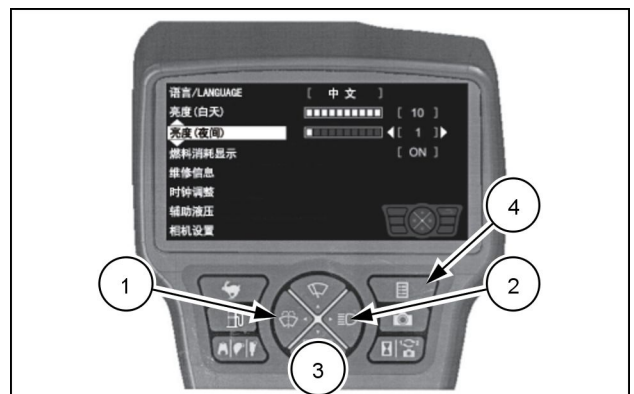
BRIGHTNESS (NIGHT) setting

The third tab of the user information mode allows to set the brightness of the display in low ambient lighting.

Press the button **(1)** or **(2)** to set the brightness of the display as described in the previous tab.

If other settings are needed, press the button **(3)** to scroll down to the next tab.

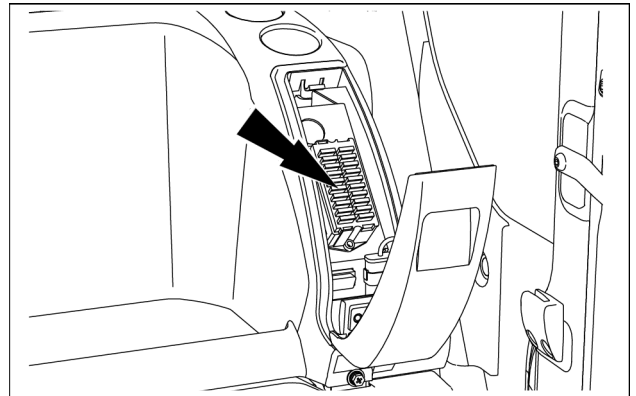
Otherwise, press the button **(4)** to confirm the selection and to reset the operating mode of the display.



Rearward controls

Fuse box

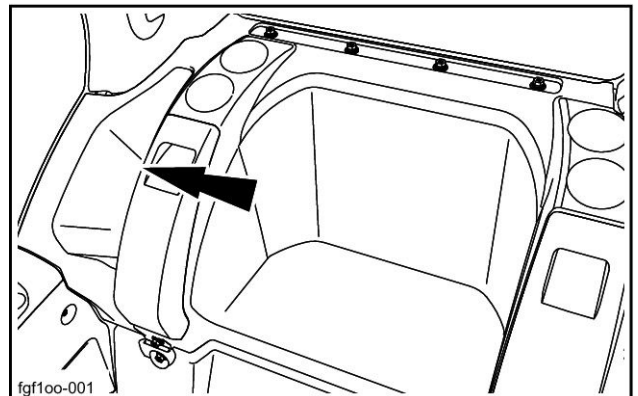
Located on the left-hand side, behind the operator's seat. The fuse box can be readily accessed by opening the protective cover.



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Magazine rack

Located on the right-hand side, behind the operator's seat.



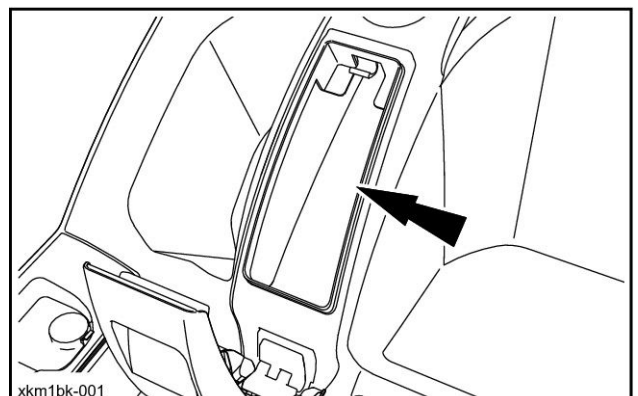
FGF100-001A 1

Refrigerated/heated compartment

Located on the right-hand side, behind the operator's seat.

This compartment, associated with the air conditioning system, is designed to store different cold or hot products, drinks, etc.

NOTE: This is an insulated compartment. The compartment may not cool or heat depending on the conditions.



XKM1BK-001A 1

Front storage box

⚠ WARNING

Moving parts!

**Make sure the storage box cover is closed properly before driving the machine.
Failure to comply could result in death or serious injury.**

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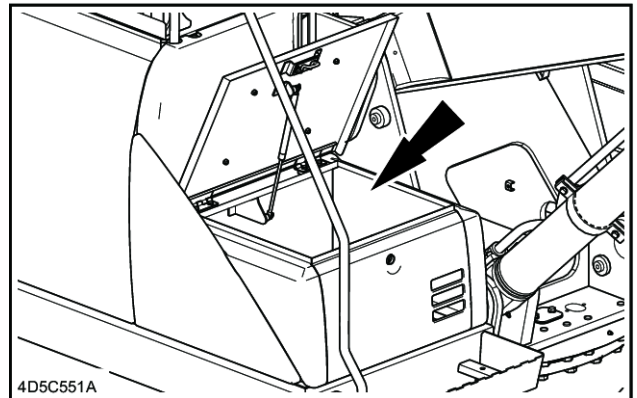
The storage box is located in the right front of the upper-structure. It is intended for storage of emergency tools and of small spare parts. The storage box also gives access to the fuel tank filler pump (if equipped) and to the right-hand working light.

Unlock the pushrod of the box cover with the starter key, and press the pushrod to open the box.

NOTE: The box cover is fitted with a gas strut. Open by hand to avoid damage to the machine.

Pull down the cover to close the box, and lock the pushrod of the box cover with the starter key.

NOTICE: Make sure to close and lock the box before starting machine operation. Leaving the box open can cause serious damages to the machine, and may cause serious injuries to the bystanders.



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Fire extinguisher

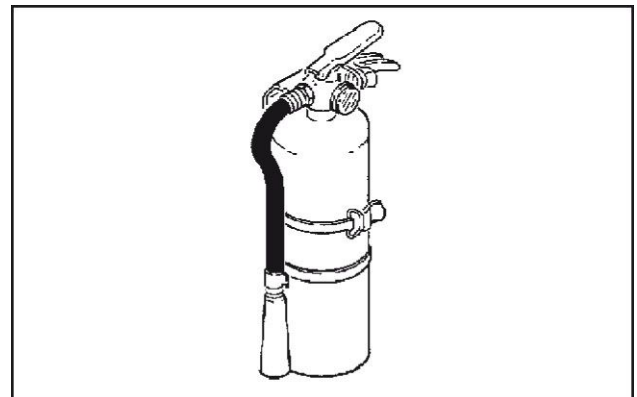
It is strongly recommended to have a fire extinguisher available and to keep it inside the front storage box.

Service specifications:

Every month: examine the fire extinguisher and make sure it is not damaged.

Every six months: have an approved specialist empty and refill the powder in the fire extinguisher.

Every year: have an approved specialist examine the fire extinguisher.



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Operating the machine in hot or cold weather

In cold weather

- Make sure to use fluids and lubricants which have specifications suitable for operation at low ambient temperatures.
- Check the batteries for full charge state.
- Fill up the fuel tank after completing the work, and then drain water before starting work on the next day in order to prevent dew condensation and invasion of water to the fuel system.
- Use fuel which is rated to the outside air temperature, or proper anti-freeze in order to prevent crystal generation at **-2 °C (28 °F)**.

NOTICE: Before transporting the machine to a cold region, fill the tank with fuel that has a low freezing temperature.

In hot weather

- Make sure to use fluids and lubricants which have specifications suitable for operation at high ambient temperatures.
- Keep the coolant at the correct level in the coolant reservoir and in the radiator.
- Use the correct solution of ethylene glycol and water in the cooling system.
- Test the radiator cap before hot weather starts. Replace the cap as required.
- Clean all dirt and debris from the radiator, cooler and engine area.
- Check the condition of the fan drive belt.

Operation under dusty and sandy conditions

- Frequently inspect the element of the air cleaner and clean or replace the element and the dust cup regardless of service due.
- Tightly close the breather cap of the hydraulic tank to prevent invasion of sand and dust to the hydraulic circuits.
- Make sure to thoroughly clean the grease fittings before greasing any lubrication point of each pin and bush.
- Make sure to clean the radiator fin and oil cooler fin and the radiator grid.

Operation on seashore

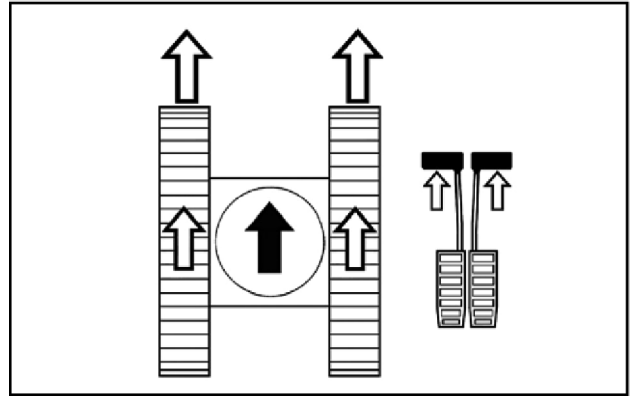
- Inspect tightness of the plugs/cocks/bolts in each point in order to prevent salt corrosion.
- Thoroughly wash the machine after the work, especially take good care of the electrical equipment and hydraulic cylinder to prevent corrosion.

Operation on highly humid land or soft land

- Keep the machine as dry as possible during operation and make sure to carry out regular lubrication. Moisture and mud water cause deterioration and corrosion of paints/wirings/metal components.

Straight line travel (forward travel)

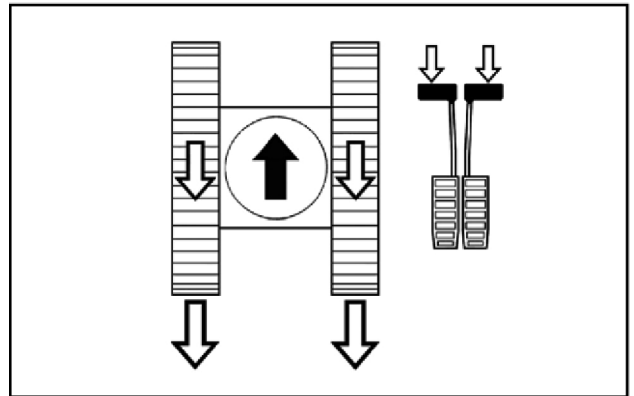
Press the two pedals (or push the two levers) forward at the same time.



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Straight line travel (reverse travel)

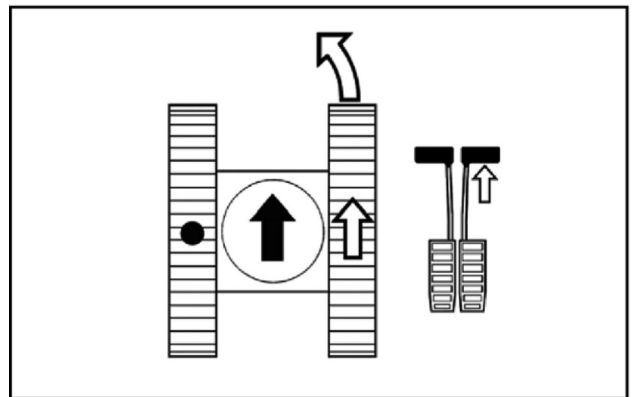
Press the two pedals (or pull the two levers) rearwards at the same time.



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Turning to the left (forward travel)

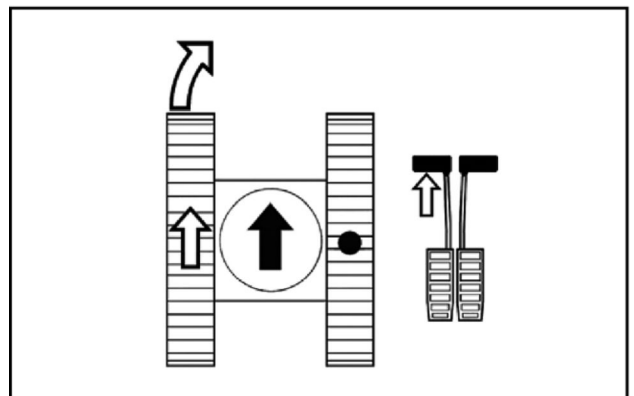
Simply press the right-hand pedal or push the right-hand lever forwards.



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Turning to the right (forward travel)

Simply press the left-hand pedal or push the left-hand lever forwards.



SMIL13CEX2682AB 5

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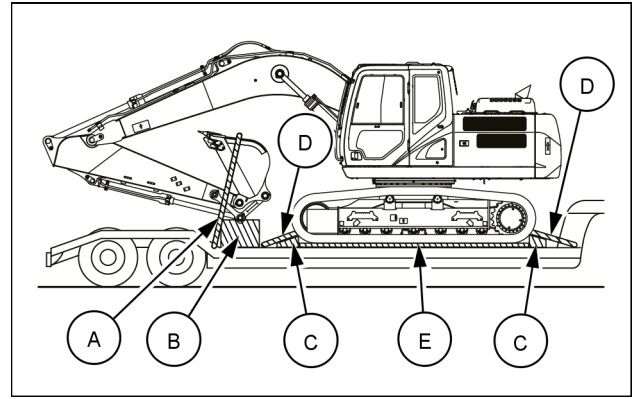


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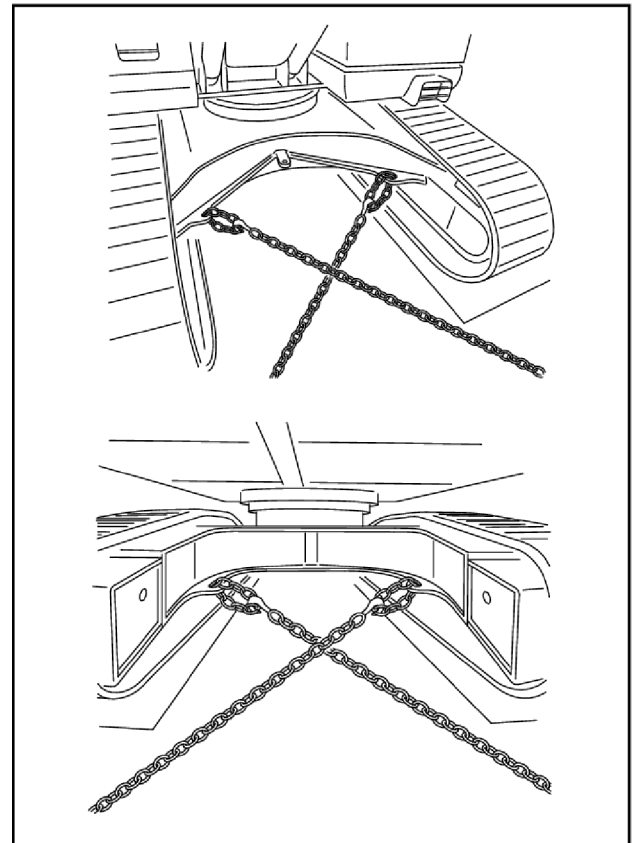
Alternatively, the machine may be secured onto the trailer bed with an X shape tie-down.

1. Set the machine in the position for transport: fully retract the arm and curl the bucket slowly.
2. Place the block **(B)** on the trailer floor and lower the boom slowly. Adjust the position of the block **(B)** so that the bucket linkage lays on the block **(B)**.
3. Check the overall height between the ground and the highest point of the machine and check the overall width of the machine. Make sure to be within the size limits defined before transport, in order to confirm documents and permissions already got to comply to the local traffic regulations.
4. Place the gate lock lever in central position. Stop the engine and remove the starter key.
5. Get off the machine. Retract the radio antenna. Fold the rear view mirrors.
6. Lock the cab door and the side panels.
7. Check the condition of the tie-down points on the trailer.
8. Secure the machine onto the trailer using chocks **(C)**, chains **(D)**, wire ropes **(A)** to prevent the machine from swaying (oscillation) during transport. Secure the lower frame to the trailer by passing chains through the chain mounting holes (for transport) in the lower frame and tensioning the chains in an X shape. Secure both the front and rear of the lower frame in the same manner using chains.
9. Carry out a final check of the tie-down condition.
10. If a rear loading type trailer is used for road transport, lift or remove the loading ramps.
11. Remove blocks from the tires of the trailer.



SMIL18CEX1691AA 2

- (A)** Wire rope
- (B)** Block
- (C)** Chock
- (D)** Chain
- (E)** Rubber mat



SMIL13CEX2729BA 3

Engine coolant

CASE AKCELA ACTIFULL™ OT EXTENDED LIFE COOLANT is the reference genuine product for machine service.

NOTICE: *Never add Supplemental Coolant Additives (SCA) when using CASE AKCELA ACTIFULL™ OT EXTENDED LIFE COOLANT.*

CASE AKCELA ACTIFULL™ OT EXTENDED LIFE COOLANT has to be used if refilling of the cooling system is needed. Refer to the dedicated procedure and recommendations described in Chapter 6.

CASE AKCELA ACTIFULL™ OT EXTENDED LIFE COOLANT must be used for the replacement of engine coolant according to the maintenance program of the machine. The replacement shall also be tackled in case of repair or replacement of components of the cooling system. Refer to the dedicated procedure described in Chapter 6.

The engine cooling system should always be refilled with coolant solution made by mixture of antifreeze and distilled (deionized) water.

NOTICE: *Never refill the cooling system with only antifreeze. Never refill the cooling system with only water.*

Using **CASE AKCELA ACTIFULL™ OT EXTENDED LIFE COOLANT**, a 50/50 mixture of antifreeze and distilled (deionized) water grants proper performance of the engine cooling system in the above mentioned operating temperature range of the machine.

CASE AKCELA ACTIFULL™ OT EXTENDED LIFE COOLANT is available as:

- 50/50 PREMIXED coolant solution ready for usage.
- CONCENTRATE antifreeze to be mixed 50/50 with distilled (deionized) water.

NOTICE: *If operating in extreme winter climate, a coolant solution made by 60/40 antifreeze/distilled (deionized) water mixture must be used in order to grant proper performance of the engine cooling system.*

NOTICE: *Never use coolant solution with more than 60% of antifreeze. This affects the cooling capacity of the mixture.*

When the coolant solution is prepared starting from the CONCENTRATE product, the antifreeze concentration in the mixture of antifreeze and distilled (deionized) water can be determined with a refractometer designed to measure ethylene glycol content.

If distilled (deionized) water is not available, use water for dilution with the following properties:

Property	Maximum limit
Total Solids	340 ppm
Total Hardness	170 ppm
Chloride (Cl)	40 ppm
Sulfate (SO ₄)	100 ppm
Acidity pH	5.5 to 9.0

NOTICE: *Never use hard water, sea water and softened sea water that has been conditioned with salt. The minerals and salts present in potable water can cause corrosion and deposits resulting in shortened engine life.*

Break-in period

Grease points (Bucket)

Lubricate the bucket linkage every **10 h** within the first **50 h**: to lubricate the bucket linkage refer to page **6-23**.

Cab protection system

Check the cab protections after **50 h**: To check the cab protections refer to page **6-39**.

Tightening torques

Check the tightening torques after **50 h**: To check the tightening torques refer to table on page **6-37**.

Track shoe bolt torque

Check the tracks shoes bolts torque after **50 h**: To check the tightening torques refer to table on page **6-38**.

Hydraulic oil return filter

Replace the hydraulic return filter after **250 h**: To replace the hydraulic return filter perform the operations described on page **6-58**.

Pilot line filter

Replace the pilot filter after **250 h**: To replace the pilot filter perform the operations described on page **6-59**.

Swing reduction unit oil

Replace the swing reduction gear oil after **250 h**: To replace the swing reduction gear oil perform the operations described on page **6-54**.

Travel reduction units oil

Replace the travel reduction gear oil after **250 h**: To replace the travel reduction gear oil perform the operations described on page **6-55**.

Travel reduction units oil

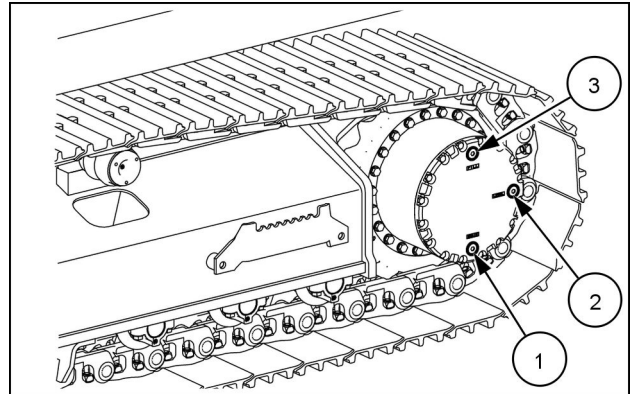
Check the travel reduction gears oil level every **250 h**.

Lubricant: **CASE AKCELA GEAR LUBE 135 H EP 80W-90**

1. Park the machine on flat, horizontal ground.
2. Move the machine so that the drain plug **(1)** comes down to the lowest position.
3. Stop the engine and remove the starter key.
4. Slowly loosen the air bleed plug **(3)** to release the internal pressure of the case.
5. Remove the level plug **(2)**, and check the oil level. If the level comes up to the bottom edge of the port **(2)**, it is sufficient.

If necessary, add oil through the port **(3)** until the oil comes up to the bottom edge of the port **(2)**.

6. Check the O-ring seal of the level plug **(2)** for damages, and replace it if necessary. Insert the level plug **(2)** with seal tape wrapped around it.
7. Check the O-ring seal of the air bleed plug **(3)** for damages, and replace it if necessary. Insert the air bleed plug **(3)** with seal tape wrapped around it.
8. Repeat Steps **2** to **7** for the other travel reduction gear.
9. Run the machine slowly to check that there are no leaks.

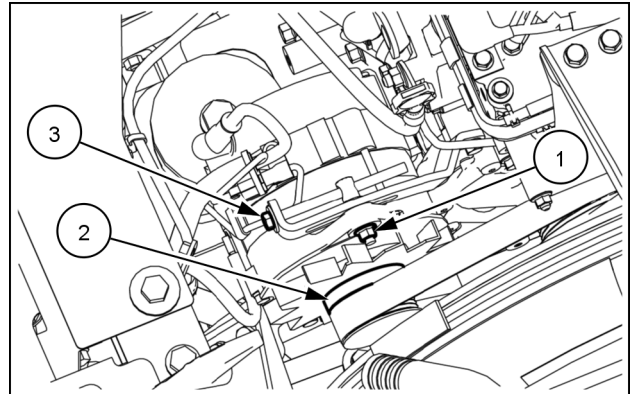


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Replacement of belt

NOTICE: If the belt breaks, the message *ALTERNATOR* is displayed. Stop the engine, remove the starter key, and then replace the belt.

1. Loosen the lock nut **(1)** and the mounting bolt **(2)**.
2. Lightly tighten the lock nut **(1)** until its seating face touches.
3. Remove the belt from the pulley to pull it out from cut out portion of the fan guide.
4. Insert the new belt from the fan guide to mount it by aligning it to groove of each pulley. Rotate the adjust bolt **(3)** to adjust tension of the belt to become standard value.
5. Tighten the lock nut **(1)** and the mounting bolt **(2)** that have been loosened with specified torque.
6. After adjustment, run the engine in idling speed for approximately **5 min**, and then stop the engine to re-check tension of the belt.



SMIL15CEX9110AB 4

Radiator and coolers

⚠ WARNING

Flying debris!

Compressed air can propel dirt, rust, etc. into the air. Wear eye and face protection when using compressed air.

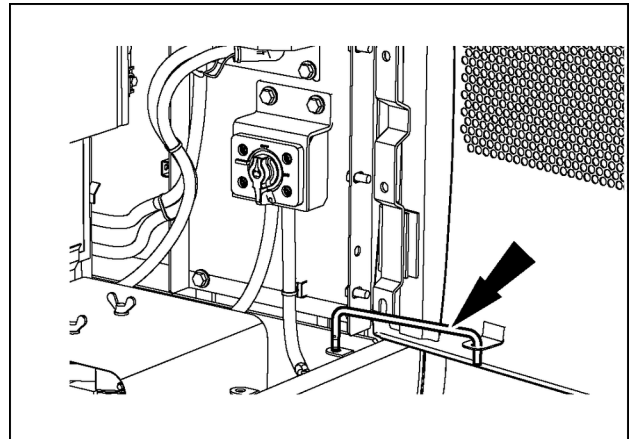
Failure to comply could result in death or serious injury.

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Clean the radiator every **500 h**

1. Stop the engine, and remove the starter key.
2. Fully open the rear left-hand door until the door is fixed by the stay.
3. Release the latches and raise the engine hood until the hood is fixed by the stay.

NOTICE: always check that the door and the hood are fixed firmly.



SMIL16CEX1188AB 1

4. Remove the quick-connect clips (1), and pull the anti-dust net while holding its handle.
5. Lower the anti-dust net (2) to remove it.
6. The anti-dust nets are split. Remove the upper net first. Next, remove the quick-connect clips (1) from the lower anti-dust net, and pull it while holding its handle.
7. Raise the anti-dust net (2) to remove it.

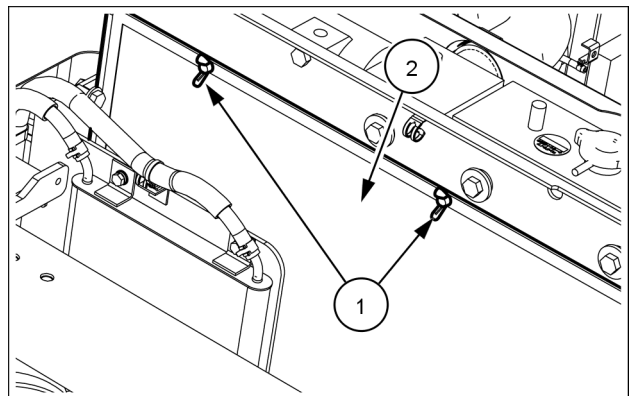
NOTICE: *overheat may occur if the protection net, the radiator fin, or the oil cooler fin is clogged.*

8. Use compressed air to blow away mud or dirt that have clogged the net and fin. Steam or compressed water may be used instead of compressed air.

NOTICE: *Apply high-pressure vehicle-wash steam from a sufficient distance away. If the steam outlet is too close, the radiator fin may deform.*

NOTICE: *In presence of greasy or oily dust, use perchlorethylene. Use of trichloroethylene is strictly forbidden.*

9. Attach the lower anti-dust net, and then attach the upper anti-dust net. During attachment, check that the anti-dust nets are firmly fit on the guide rail.
10. Fix the anti-dust nets with the quick-connect clips.



SMIL17CEX0161AB 2

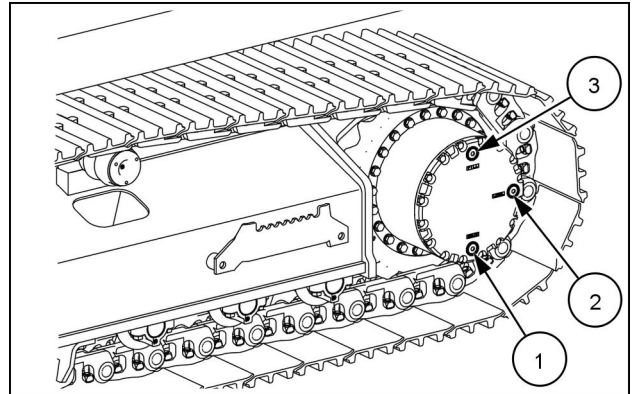
Travel reduction units oil

Replace the travel reduction units oil every **1000 h** (After **250 h** of operation in run-in period)

Lubricant: **CASE AKCELA GEAR LUBE 135 H EP 80W-90**

Quantity: **5.8 L (1.5 US gal)** (per travel reduction gear)

1. Park the machine on flat, horizontal ground.
2. Move the machine so that the drain plug **(1)** comes down to the lowest position.
3. Stop the engine, and remove the starter key.
4. Slowly loosen the air bleed plug **(3)** to release the internal pressure of the case.
5. Place a container with an appropriate capacity under the travel reduction gear.
6. Remove the level plug **(2)**.
7. Remove the drain plug **(1)**.



SMIL15CEX9114AB 1

NOTE: Check the condition of the drained oil. If there are pieces of metal or foreign objects in the oil, consult the CASE CONSTRUCTION dealer.

8. Replace the O-ring seal of the drain plug **(1)**. Insert the drain plug **(1)** with seal tape wrapped around it. Add oil through port **(3)** until the oil comes up to the bottom edge of the port **(2)**.
9. Replace the O-ring seal of the level plug **(2)**. Insert the level plug **(2)** with seal tape wrapped around it.
10. Replace the O-ring seal of the air bleed plug **(3)**. Insert the air bleed plug **(3)** with seal tape wrapped around it.
11. Repeat steps **2** to **10** for the other travel reduction gear.
12. Run the machine slowly to check that there are no leaks.

26. Start the engine and let it run at low idle speed for **3 min**. Turn on the cab heating system, and set the temperature and the fan speed to the maximum level.
27. Gradually increase the engine speed to H position. Let the engine run until the coolant temperature reaches **90 °C**. Make sure that coolant temperature stays at **90 °C** for some minutes.

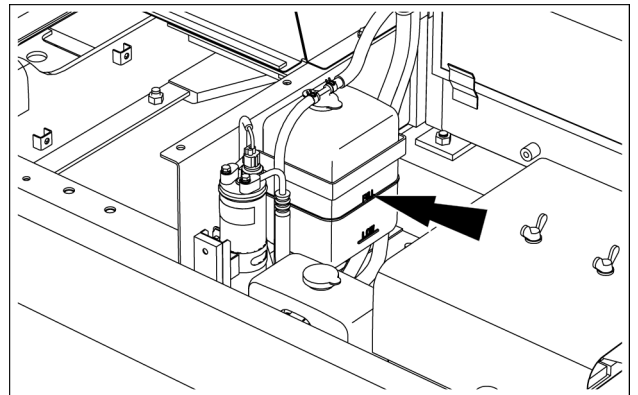
NOTICE: if coolant temperature gets quickly over **90 °C**, lower the engine speed to low idle. Stop the engine and check for leakages from the hoses of the cooling system.

28. Gradually decrease the engine speed to low idle and let it run for **3 min**. Stop the engine.
29. Wait until the engine has cooled down. Slowly open the radiator cap and check for coolant level. Add some coolant up to the edge of the coolant inlet of the radiator.

NOTICE: if too much coolant has to be added at this stage, carefully check for leakages into the engine cooling system.

30. Close the radiator cap.
31. Carry out final filling of the coolant reserve tank up to the FULL mark. Close the cap of the reserve tank.

NOTICE: the coolant level in the reserve tank shall be always double checked the morning after. The cooling circuit may take some more time to get stabilized. If needed, fill the reserve tank with coolant up to the FULL mark. Close the cap of the reserve tank.

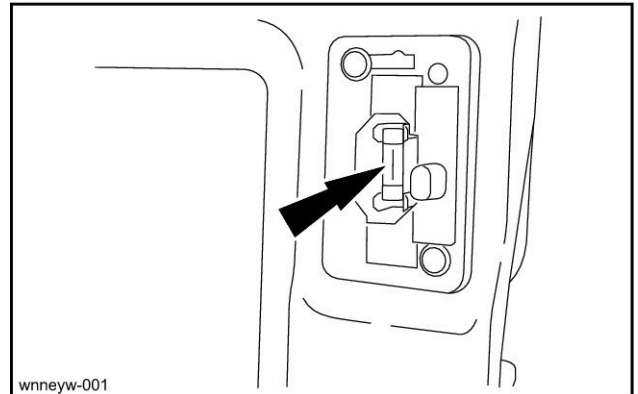


SMIL17CEX2121AA 9

Bulb replacement

Lighting in the operator compartment:

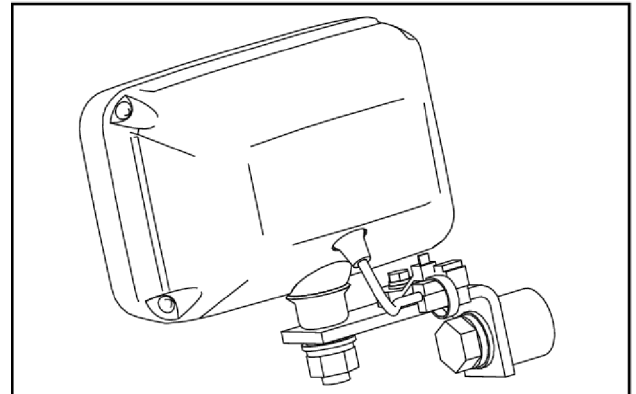
1. Remove the cover.
2. Remove the light bulb, then install a new light bulb of the same wattage (**10 W**).
3. Install the cover.



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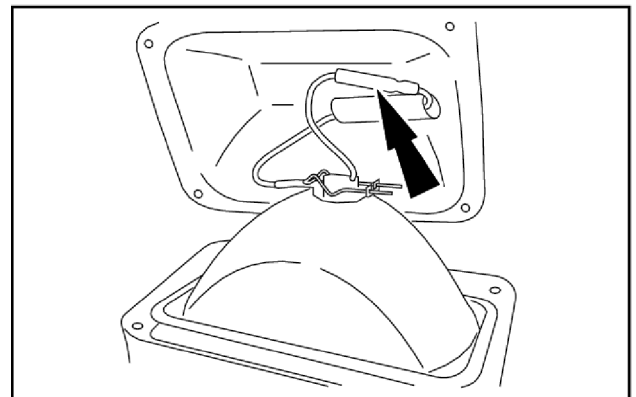
Attachment working lights:

1. Remove the 4 retaining screws.



SMIL13CEX2830AB 2

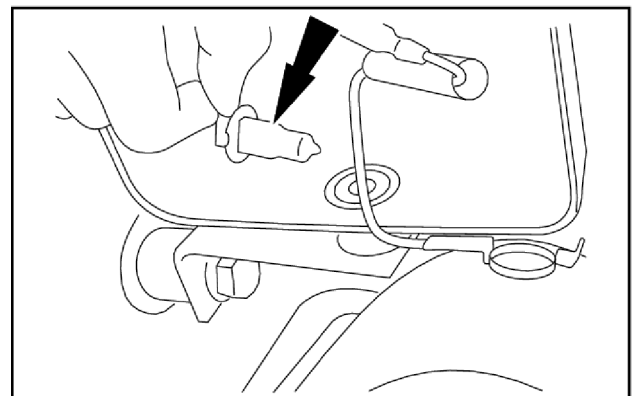
2. Tilt the working light and disconnect the plug.



SMIL13CEX2831AB 3

3. Pull the clip outwards, remove the bulb and install a bulb of the same wattage (**70 W**).
4. Install the clip and reconnect the plug.
5. Put the working light back into position and install the mounting screws.

NOTICE: never put your fingers on a tungsten iodide bulb.



SMIL13CEX2832AB 4

Storage

Preparing for storage

- The following procedure applies when the machine is to be stored for a month or more. Store the machine on flat, level ground, inside a building or, if not possible, outside and covered with a tarpaulin. Before storing the machine, carry out the following operations:

1. Clean the machine.
2. Make sure that the machine has no damaged or missing parts. Replace them if necessary.
3. Retract the cylinder rods as far as possible and lower the boom until the attachment is resting on the ground. Lower the dozer blade (if equipped) to the ground.
4. Grease the machine thoroughly. The exposed surfaces of the cylinder rods should be greased or covered with a protective film. Consult your CASE CONSTRUCTION Dealer.

NOTE: *when the machine resumes service, the film will disappear automatically.*

5. While the engine is still warm, drain the oil sump, replace the oil filter and fill with specified oil. Check the oil level and add more if necessary.
6. Clean or replace the air filter element.
7. Check the level of coolant solution. If the machine is within **100 h** of the next scheduled coolant change, change the coolant now.
8. Remove the battery, clean the battery housing, and check that there is no adhesion of battery fluid. Store the battery safely in a cool and dry place where temperature is **0 °C (32 °F)** or more. Alternatively, cut-off the cable from the negative (-) terminal of the battery, or turn the battery disconnect switch to the OFF position.
9. Apply a coating if it has any flaws or peelings.
10. Plug the air cleaner inlet and the exhaust pipe.
11. Remove the starter key, put the "Do not operate" tag on the right console, and set the gate lock lever to the central position.
12. Lock the hood, the side door, and the cab door.

Fuel

Use only Low Sulfur Diesel fuel that meets GB 252:2011 specifications.

NOTICE: *Never use Diesel fuel having a sulfur content higher than 350 ppm.*

Using other types of fuel may lead to stalled engine output or deterioration in fuel economy.

NOTICE: *The warranty shall be invalid if any serious defect is caused by usage of any other fuel. Using any fuel other than the prescribed type will cause damages to the fuel supply system, to the fuel injection system, and to the engine block. CASE CONSTRUCTION will not be responsible to any of such damages.*

If the temperature drops below the fuel cloud point, output deficiency or engine start problems may occur due to wax crystals.

NOTICE: *If operating in severe winter climate, consult the fuel supplier or the CASE CONSTRUCTION dealer for specific diesel fuel to be used.*

The diesel fuel to be used on the machine should:

- be free from dust particles, even minute ones.
- have the proper viscosity.
- have a high cetane number.
- present great fluidity at low temperatures.
- have low sulfur content.
- have very little residual carbon.

NOTICE: *Never use a mix of diesel fuel and old engine oil. The fuel injection system and the exhaust after treatment system will be severely damaged.*

NOTICE: *consult the fuel supplier or the CASE CONSTRUCTION Dealer regarding appropriate use of fuel additives.*

NOTICE: *in order to prevent condensation during cold weather, fill the fuel tank to full after completing the day's work.*

Fuel storage:

Long storage can lead to the accumulation of impurities and condensation in the fuel. Engine trouble can often be traced to the presence of water in the fuel. The storage tank must be placed outside and the temperature of the fuel should be kept as low as possible. Drain off water and impurities regularly.

Disposal of fluids, lubricants, and spare parts

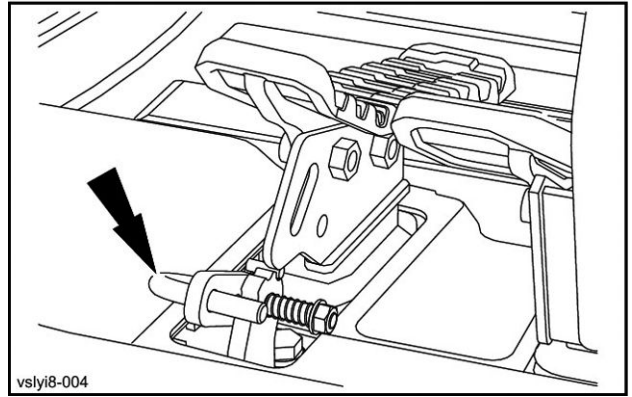
Fluids, lubricants and spare parts used on the machine are not fully compatible with the environment. Make sure to carry out all maintenance operations using appropriate tools, in order to avoid any risk of damaging the environment.

NOTE: *for example, make sure that the receptacle for collecting oil to be replaced is not leaking.*

Never spread fluids or lubricants on the ground or into water. Consult the CASE CONSTRUCTION Dealer or the Local Environmental Agency in order to obtain information on the correct method of disposing fluids and lubricants used on the machine.

Never throw away spare parts as filters or batteries. Consult the CASE CONSTRUCTION Dealer or the Local Environmental Agency in order to obtain information on the correct method of disposing filters, batteries or other spare parts used on the machine.

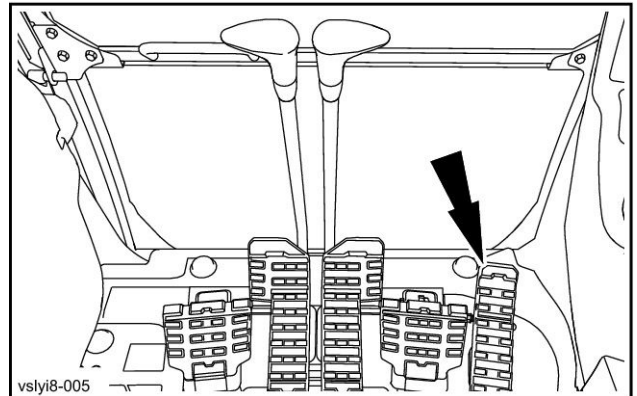
8. Place the locking pin of the right-hand auxiliary pedal in outward position.



VSLY18-004 12

9. Press one side of the right-hand pedal to close the crusher jaws, and press the other side of the pedal to open the crusher jaws. The crushing force increases with the pressing on the pedal in the closing direction. Release the pedal to hold the crusher jaws in position.

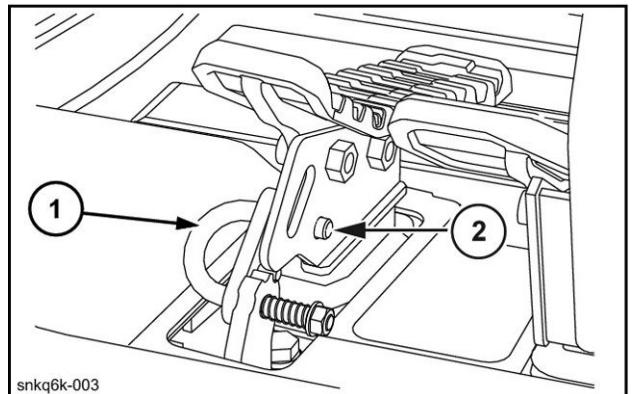
NOTICE: in bucket mode, do not carry out operation using auxiliary line. If you do that, the warning message "Auxiliary set-up required" will be displayed with intermittent whistle sound. Stop operation immediately and carry out auxiliary set-up.



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NOTICE: the auxiliary pedal shall always be locked when not in use.

To lock the auxiliary pedal, engage the locking pin (1) in the locking hole (2).



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