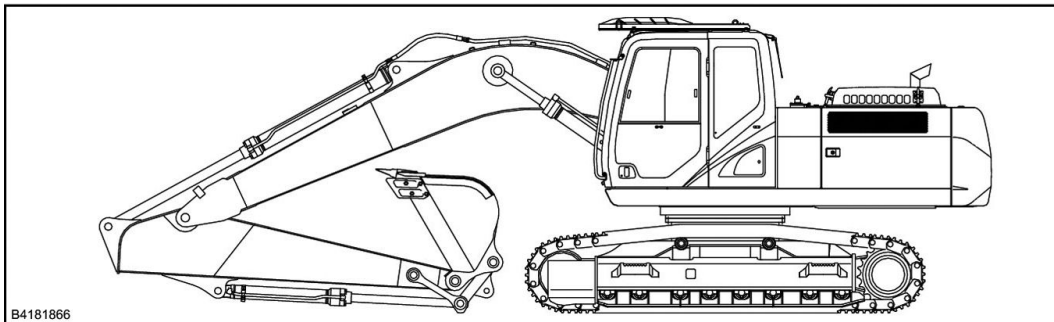




OPERATOR'S MANUAL



CX230C

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EC declaration of conformity

On the following page is provided copy of the EC Declaration of Conformity (EC Declaration of Conformity).

The EC Declaration of Conformity is the manufacturer's declaration about equipment compliance to relevant EU provisions.

Please keep the original document in a safe place. Local authorities may require you to show this document in order to assure compliance of your equipment.

Translation of this declaration in your own country language is provided on the reverse page of the original document. For your better and easier understanding of the document hereafter you'll find some explanatory notes.

(1) Under section 1.2 of this copy, are listed those options or variants which have safety related functions. Some of them are standard provided, like **FOPS** (Falling Objects Protective Structure) or **ROPS** (Roll Over Protective Structure) (please refer to pages 1-8, 2-4 and 3-73 for other detail). Others, like object handling kit required to lift loose objects, are available upon customer request.

(2) Under point 2 of this copy, are listed all information required by EU "Outdoor Noise" Directive 2000/14/EC. Please refer your own original EC Declaration of Conformity for specific equipment information. Other information about equipment guaranteed sound power level (LWA) can be found on pages 2-17 and 8-4. On the same page are indicated information about operators station noise level (LpA) which is not matter of above mentioned EU Directive and therefore not indicated on it.

(3) Generic serial number for this equipment type. Sequence of letters and numbers may vary depending on equipment configuration.

(4) EC Declaration of Conformity serial number. Please make reference to this number when requiring information or support to CASE CONSTRUCTION about EC Declaration of Conformity.

(5) Signature of a person authorised to sign the document on behalf of the company.

protection for face and hands) to avoid such risks. Also, before using these products, read the manufacturer's instructions concerning their use. If hydraulic fluid penetrates the skin, call a doctor immediately.

- Coolant solution is toxic. Avoid contact with skin, eyes and clothing. Antidote: External: rinse thoroughly with water and remove soiled clothes. Internal: do not induce vomiting. Rinse the mouth out with water. Seek medical advice. Eyes: rinse thoroughly with water and seek medical advice.
- The pressure in the track tension cylinders is high. Follow the procedure described in this manual carefully for increasing or reducing track tension.
- When 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.
- When using compressed air, take the necessary precautions to protect your face.
- 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.
- The Diesel Particulate Diffuser (**DPD**) and the exhaust gas from the exhaust system are extremely hot while the engine is running, during **DPD** regeneration and immediately after driving. Be careful not to inadvertently touch them. Otherwise, you could get burned.

- 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.

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.

Preventing fires or explosions

- Engine fuel can cause an explosion or a fire. Never refuel when the engine is running. Never smoke while refuelling. Take all necessary safety measures when welding, grinding or working near a naked flame.
- When flammable materials such as plants, dry grasses and paper waste are present near the machine, they can be the cause of a fire.
- Always use a non-inflammable solvent for cleaning parts.
- A spark or a naked light can cause the hydrogen in a battery to explode. To avoid all risk of explosion, be sure to follow the instructions below: When disconnecting battery cables, always disconnect the negative cable (-) first. When connecting battery cables, always connect the negative cable (-) last. Never short-circuit the battery terminals with metal objects. Do not weld, grind or smoke near the batteries.
- Always store batteries in a safe place, out of the reach of children.
- Sparks can fly from the electrical system or the engine exhaust. Before running the machine in an area where there may be inflammable gasses, make sure there is adequate ventilation.
- If possible, make sure there is a fire extinguisher (not supplied) within easy reach on board the machine. Make sure the fire extinguisher is regularly serviced in conformity with the manufacturer's instructions.
- Clean the machine regularly, removing all debris and inflammable material.
- Make sure there are no leaks and replace any damaged hoses, lines or connectors. After any repair work, clean the machine before operating.

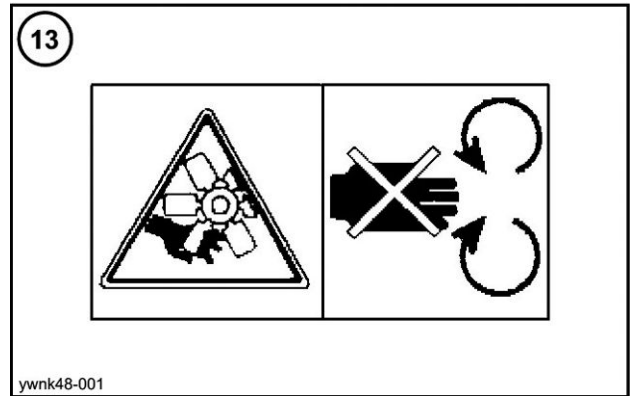
Prevention of burns

- The electrolyte in the batteries can cause serious burns. The battery contains sulphuric acid. Avoid contact with skin, eyes and clothing. Antidote:

Engine hood

Part number: KHP1335

This decal warns that it is essential to stop the engine before opening the hood.

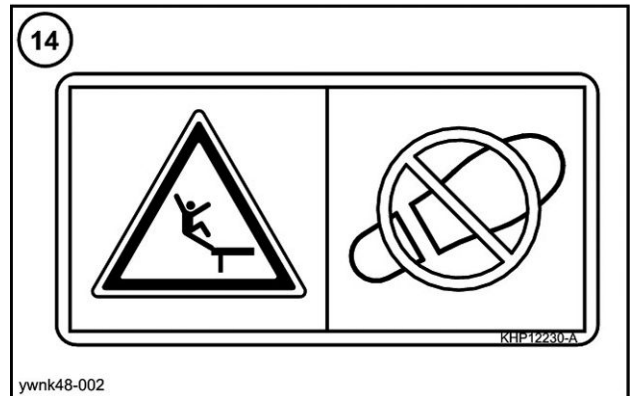


YWNK48-001 21

Engine hood

Part number: KHP12230

This decal shows that it is prohibited to climb onto the engine hood (risk of falling).

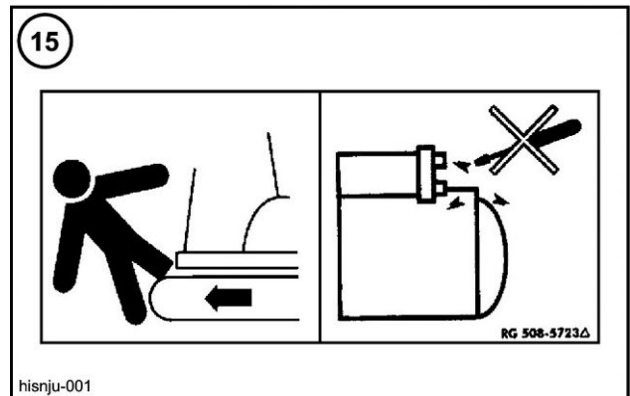


YWNK48-002 22

Starting the engine

Part number: KHP1336

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



HISNJU-001 23

Risk of falling

Part number: KHP12220

This decal shows that a safety distance must be maintained during movements on the upperstructure frame.



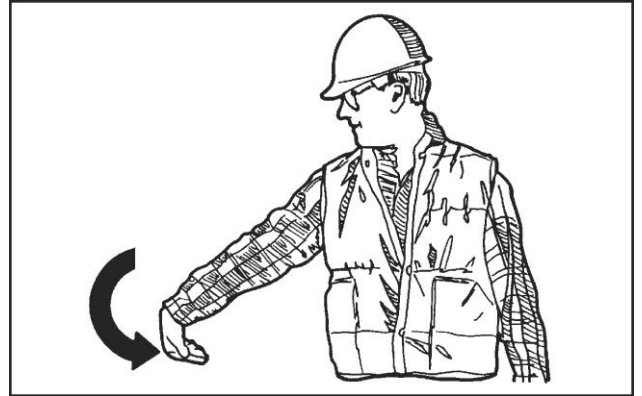
TJCVPD-001 24

Retract dipper



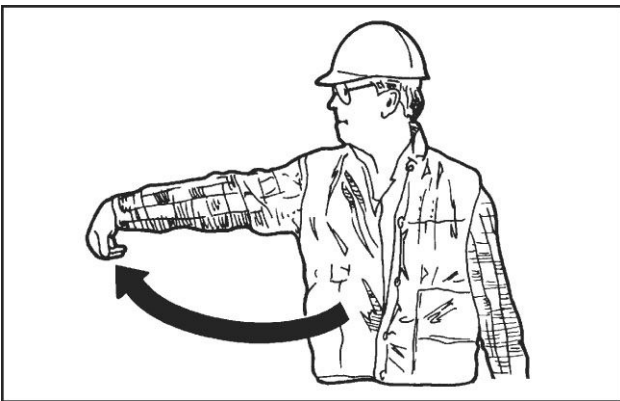
PDE0011ATBP1 19

Fill tool



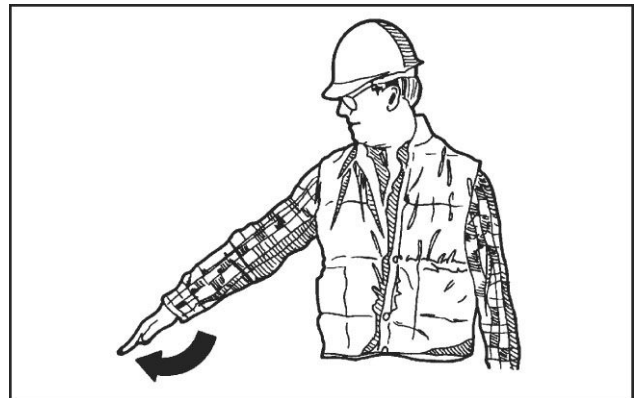
PDE0012ATBP1 21

Extend dipper



PDE0011TBP1 20

Empty tool



PDE0012TBP1 22

FORWARD CONTROLS

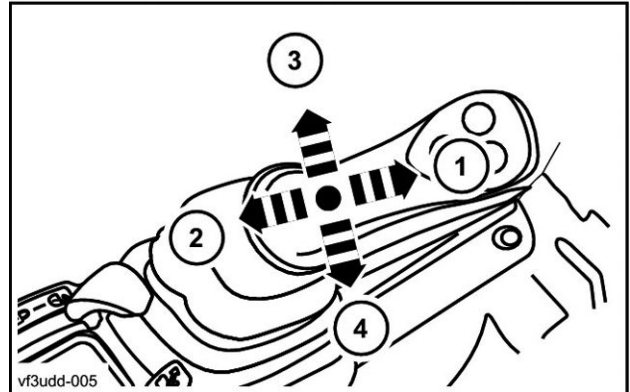
Hand control levers and pedals

Dipper and upperstructure swing left-hand control lever

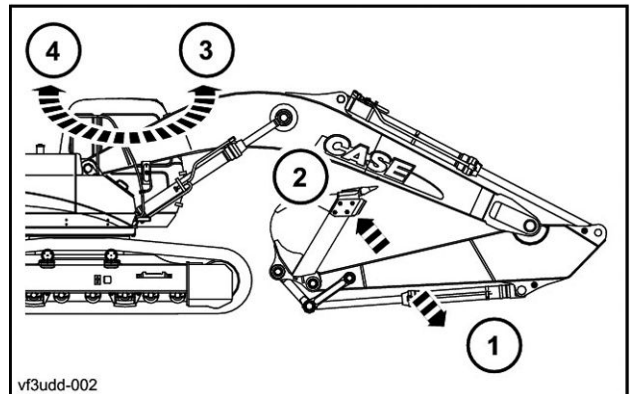
The speed of movement of the dipper or the upperstructure swing depends on the control lever tilt angle. In the intermediate position two movements can be obtained simultaneously.

NOTE: When the upperstructure swing control is released, the upperstructure may continue to rotate due to the force of inertia. In this event, make allowance for the extra movement by releasing the control slightly earlier.

- (1) The dipper extends.
- (2) The dipper retracts.
- (3) The upperstructure turns to the left.
- (4) The upperstructure turns to the right.



VF3UDD-005 1

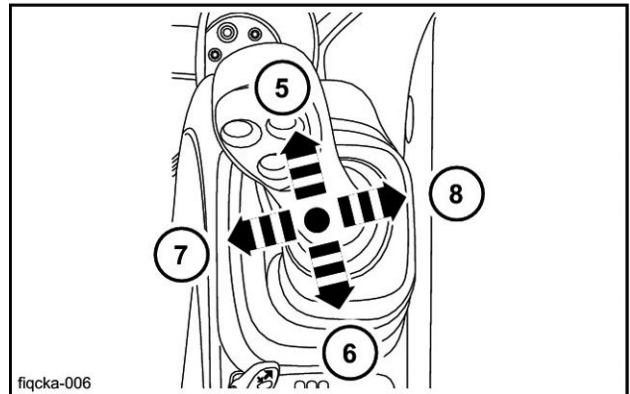


VF3UDD-002 2

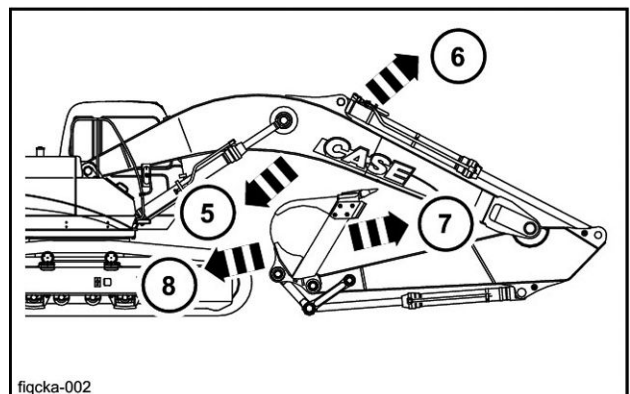
Boom and bucket right-hand control lever

The speed of movement of the boom or the bucket depends on the control lever tilt angle. In the intermediate position two movements can be obtained simultaneously.

- (5) The boom lowers.
- (6) The boom raises.
- (7) The bucket retracts (filling).
- (8) The bucket extends (dumping).



FIQCKA-006 3



FIQCKA-002 4



Indicates that the engine oil level is low. An alarm sounds. Stop the engine and remove the ignition key, and then inspect the oil level.

NOTE: If the measures above are not performed immediately when this message is displayed, the engine stops automatically.

- Over heat



Indicates that the engine coolant temperature is high. An alarm sounds. Lower the engine speed. If the temperature does not go down, stop the engine and remove the ignition key. Wait for the temperature of the cooling system to go down, and then inspect the coolant level inside the reservoir tank and radiator. Check the radiator and oil cooler. (Refer to page 6-26).

- Boost temp high



Indicates that the temperature of the turbocharger air that is being supplied to the engine is abnormally high. An alarm sounds. The engine automatically enters idling mode as a preventative measure. Stop the machine, operate the engine at idling speed, and wait until the message disappears. If the turbocharger air temperature on the display screen continues to rise, the engine stops automatically. Consult your CASE CONSTRUCTION Dealer.

- Alternator



Indicates that there is a problem in the alternator. An alarm sounds. Stop the engine and remove the ignition key, and then inspect the alternator. Consult your CASE CONSTRUCTION Dealer.

- Check engine



Indicates that there is a problem (short or disconnection) in the electrical system of the engine. An alarm sounds. Stop the engine and remove the ignition key, and then inspect the electrical system. Consult your CASE CONSTRUCTION Dealer.

- Elec. problem



Indicates that there is a problem in the electrical system. An alarm sounds. In this case, stop the engine and remove the ignition key, and then investigate the cause or consult your CASE CONSTRUCTION Dealer.

- Engine stop



Indicates that the emergency stop switch operated. An alarm sounds. To enable the engine to be started again, the switch must be canceled.

- Improper shut down



Perform low idling for at least 5 min. before stopping the engine.

- Check camera



Indicates that there is a problem (short or disconnection) in the monitor camera connection.

- Push **DPD** switch to activate



Press the **DPD** switch to regenerate **DPD**. (Refer to page 3-34).

- Do not operate



Do not operate because the **DPD** is regenerating. (Refer to page 3-34).

- Manual/Auto **DPD** re-gen



Now being manually or automatically regenerated. (Refer to page 3-34).

- Over load



The load is excessive. Reduce the load.

- Low coolant



Indicates that there is insufficient coolant. An alarm sounds. Stop the engine and remove the ignition key. Wait for the temperature of the cooling system to go down, and then inspect the coolant level inside the reservoir tank and radiator. (Refer to page 6-26).

- Air filter



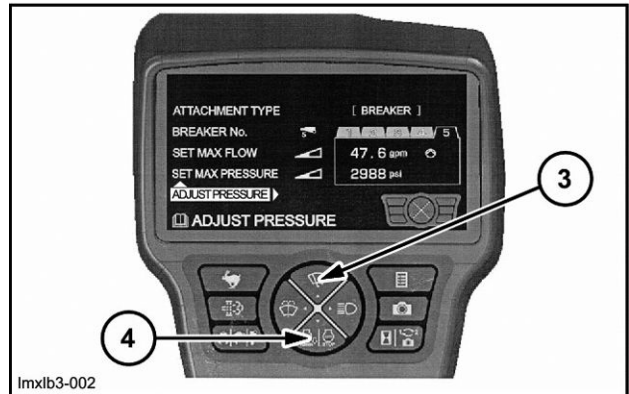
Perform maintenance of the air cleaner filter.

- Low fuel

Adjust pressure (if equipped)

If change valve of maximum flow or maximum pressure, system has to adjust the proportional relief solenoid valve.

1. Push button **(3)** or **(4)**.
2. Select item of "Adjust pressure" and push button **(4)**, then pressure adjustment screen is displayed.



LMLB3-002 17

When adjusting the pressure, depress the pedal completely.

- If low flow and high pressure are selected, the adjustment setting may not input.
- If high flow and low pressure are selected, the adjustment setting may not input.
- Make adjustments before connecting to an attachment.



LMLB3-009 18

Adjust pressure setting

1. Raise the oil temperature according to "Bringing the machine up to operating temperature".



LMLB3-003 19

2. Put the throttle volume in "SP" mode.



LMLB3-004 20



Push **DPD** switch to activate

Automatic regeneration is suspended.

Carry out cooling after completion of work.

Press the switch again to restart automatic regeneration.

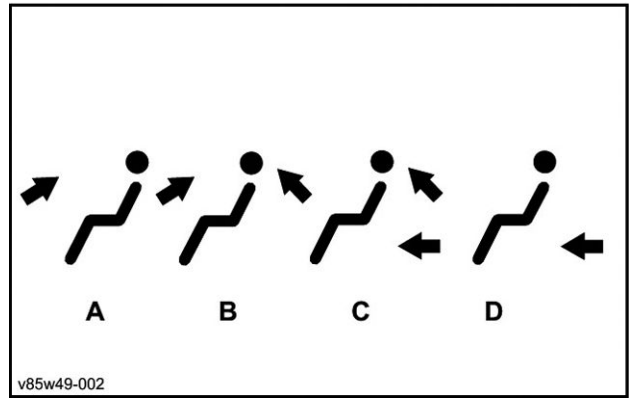
- The green lamp is lit.
- The indicator is lit.
- The buzzer sounds 2 seconds.
- The following message is displayed.



Auto **DPD** Re-gen

Automatic regeneration starts.

- (A) Upper front distribution.
- (B) Upper rear distribution.
- (C) High force upper distribution and low force rear distribution.
- (D) Lower rear distribution (feet) and windshield.

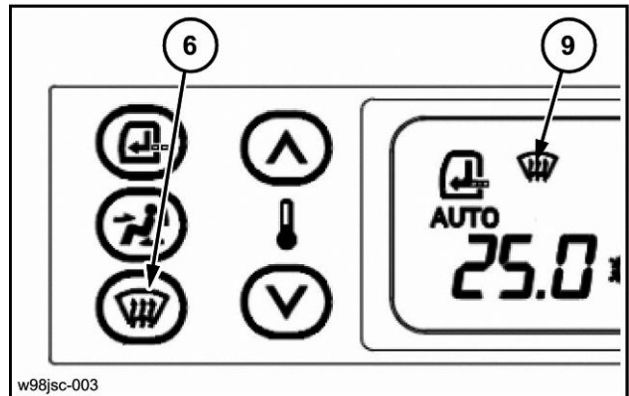


V85W49-002 7

Windshield defroster

This button (6) allows the windshield to be defrosted. Press the button to defrost the windshield. The display screen will show that the defroster is working (9). To turn the defroster off, press the button again and the indication on the display screen will disappear.

NOTICE: When this button is used, the control (7) is deactivated.



W98JSC-003 8

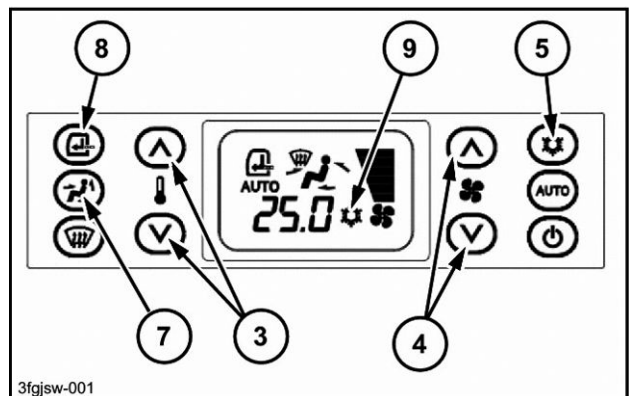
Air conditioning

ATTENTION: When using the air conditioning, it is essential for all the operator's compartment windows, the windshield and the cab door to be kept closed. The air vents must be kept in open position.

The air conditioning can be used in two different ways: manual or automatic air conditioning.

Manual:

This button (5) is used to turn the air conditioning on and off. When the air conditioning is running, confirmation is given on the display screen (9). Manual adjustments can be made using controls (3), (4), (7) and (8).



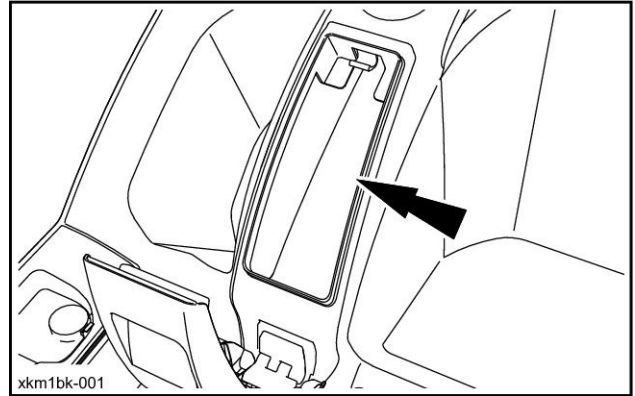
6CSC9W-001 9

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.

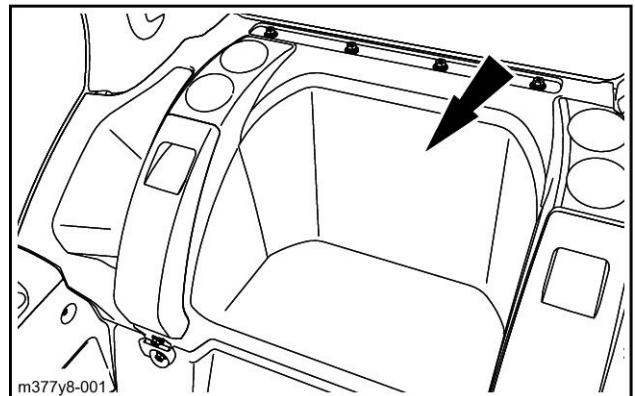


XKM1BK-001A 1

Storage compartment

Located behind the operator's seat, this compartment is used to store various objects.

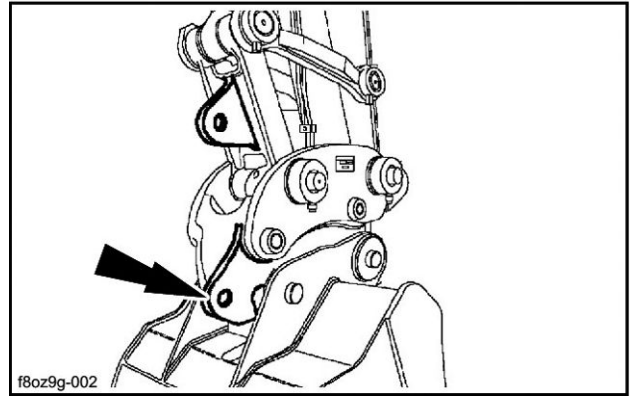
NOTICE: Make sure that the weight of the stored objects is less than **10 kg (22.0 lb)**.



M377Y8-001A 1

ATTENTION: The quick coupler eye can be used for handling loads up to **10 t (22046.23 lb)**.

ATTENTION: This attachment point will only carry the load indicated in the load handling limits chart. (Refer to page 4-19).



F80Z9G-002 2

Towing holes

⚠ WARNING

Misuse hazard!

Towing is a delicate maneuver that is always carried out at the risk of the user. The manufacturer's warranty does not apply to incidents or accidents that occur during towing. Where possible, carry out the repairs at the site.

Failure to comply could result in death or serious injury.

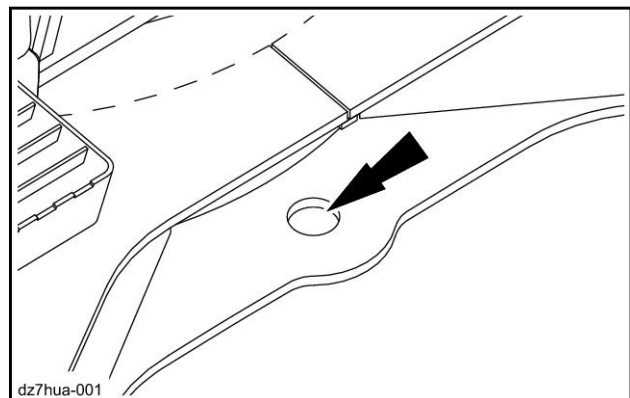
W0286A

Located at the front and rear of the undercarriage.

These holes are used to tow heavy objects, up to **10 t (22046.23 lb)**. (Refer to page 5-6).

Make sure that the slings, chains and accessories are in perfect condition and can bear the load to be moved.

ATTENTION: Towing must always be done in alignment with the undercarriage.



DZ7HUA-001A 1

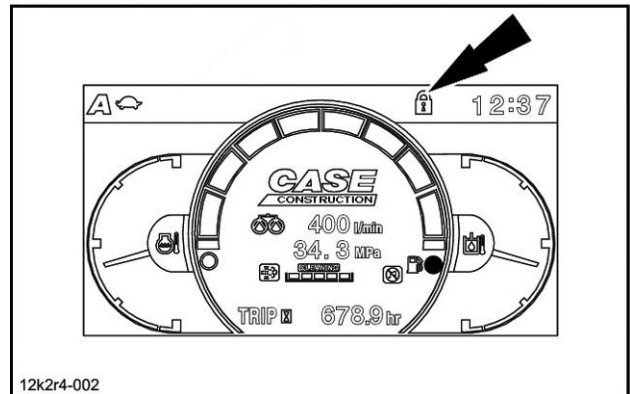
- After entering all 4 digits, press the menu button (5) to register the password code. The screen returns to the normal display.

ATTENTION: Be sure to keep a record of the code number.

Using the anti-theft protection

The anti-theft protection has to be activated when you are shutting down the engine. Turn the ignition key from “On” to “Off” for about 2 seconds at a time until the audible alarm device sounds. The icon of the anti-theft protection is displayed on the screen, the anti-theft protection is activated, now the access code will have to be entered when starting the engine.

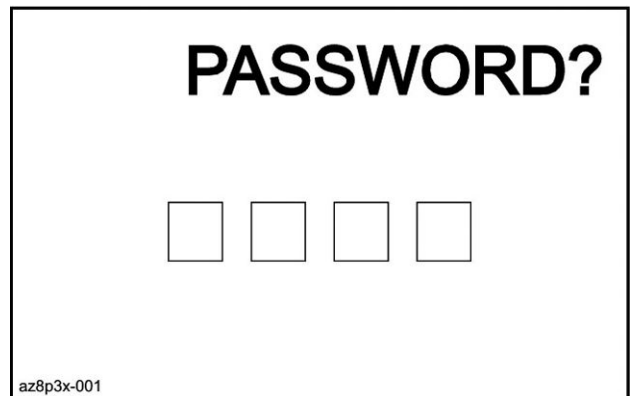
You are not obliged to activate the anti-theft protection. In that case all you have to do is to turn the ignition key to the “Off” position when shutting down the engine. In that configuration, it will not be necessary to enter the code when starting the engine.



12K2R4-002Z 3

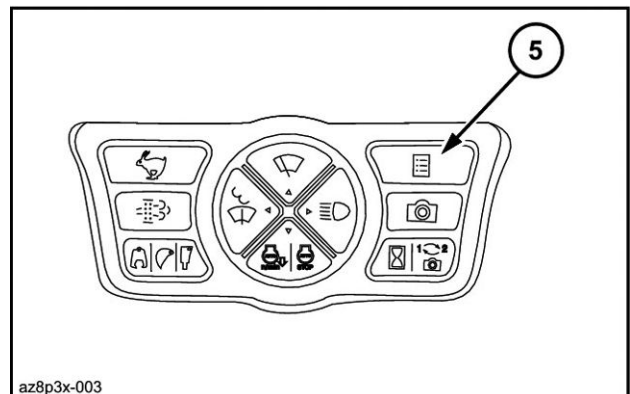
Entering the access code

If the anti-theft protection was activated the last time the engine was shut down, it will then be necessary to enter the access code before being able start it again.



AZ8P3X-001 4

- Turn the ignition key to the “On” position.
- The message "Password?" and four boxes will appear on the display screen.
- Enter the code in the same manner as during registration. Once all four digits have been entered, validate with the button (5).



AZ8P3X-003 5

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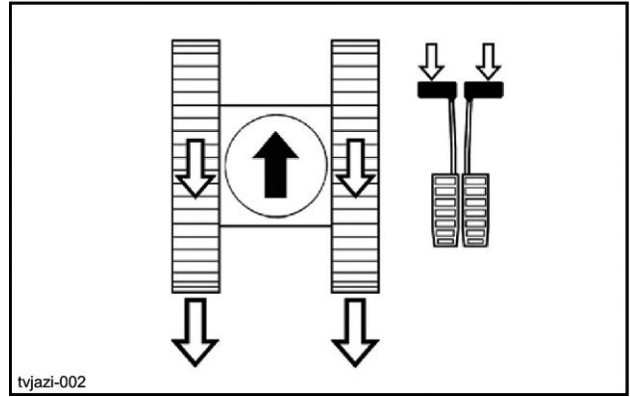


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Straight line travel (reverse travel)

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

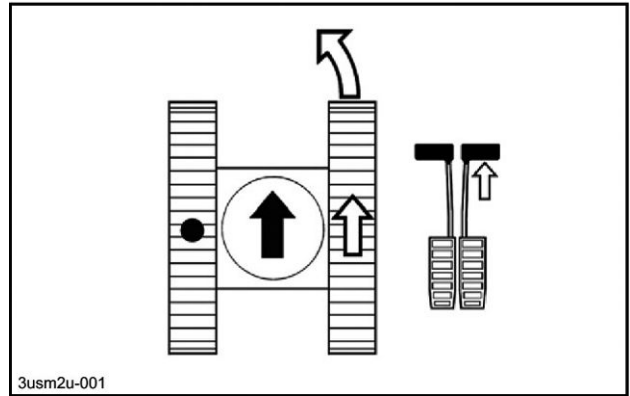


tvjazi-002

TVJAZI-002 3

Turning to the left (forward travel)

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

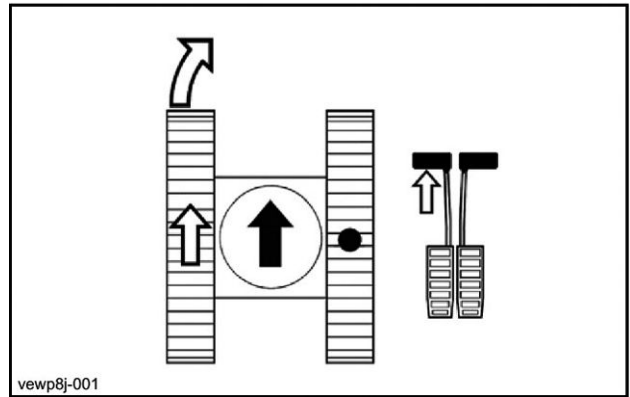


3usm2u-001

3USM2U-001 4

Turning to the right (forward travel)

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

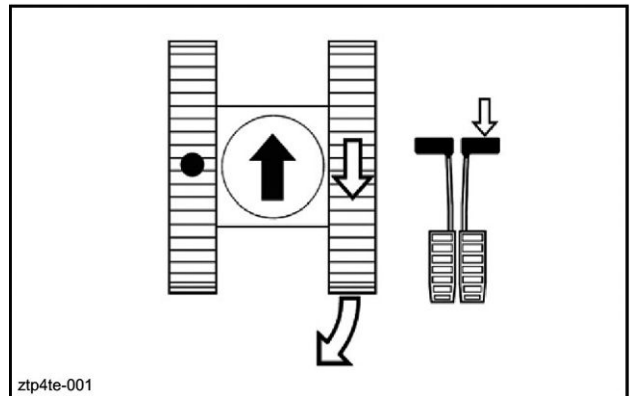


vewp8j-001

VEWP8J-001 5

Turning to the left (reverse travel)

Simply press the right-hand pedal or the right-hand lever rearwards.

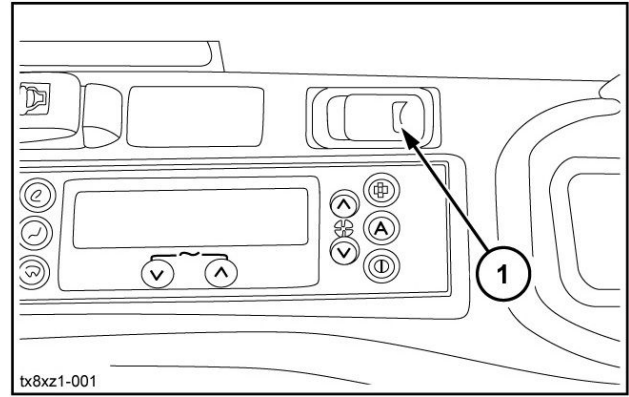


ztp4te-001

ZTP4TE-001 6

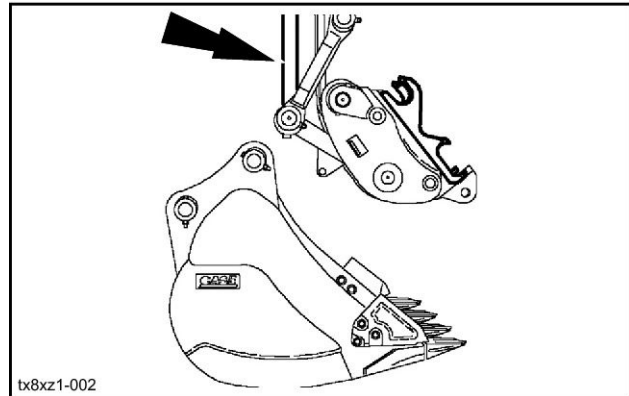
4 - OPERATING INSTRUCTIONS

- Place the switch **(1)** in unlocking position. The audible alarm device will sound. (Refer to page **3-53**).



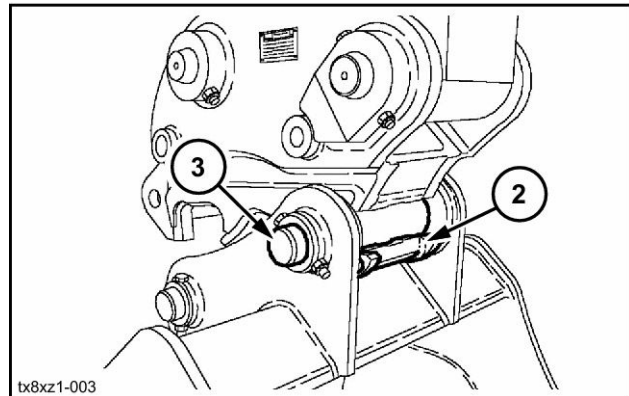
TX8XZ1-001 2

- Operate the dipper and bucket controls so that the dipper is practically vertical, sloping slightly towards the cab, to release the safety device. Extend the bucket cylinder rod completely and maintain the hydraulic pressure so that the latching hook retracts.



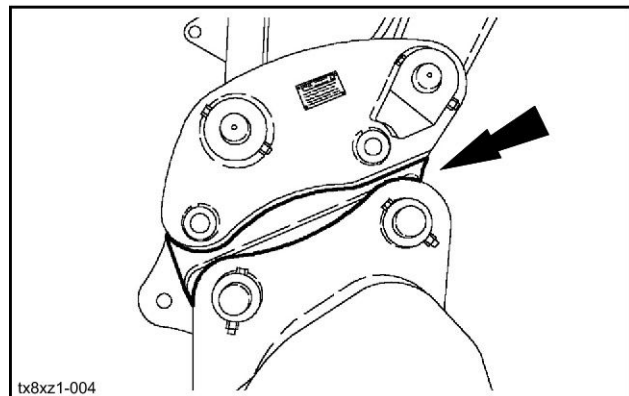
TX8XZ1-002A 3

- Operate the dipper control lever so as to bring the quick coupler hook **(2)** around the tool pin **(3)**.



TX8XZ1-003A 4

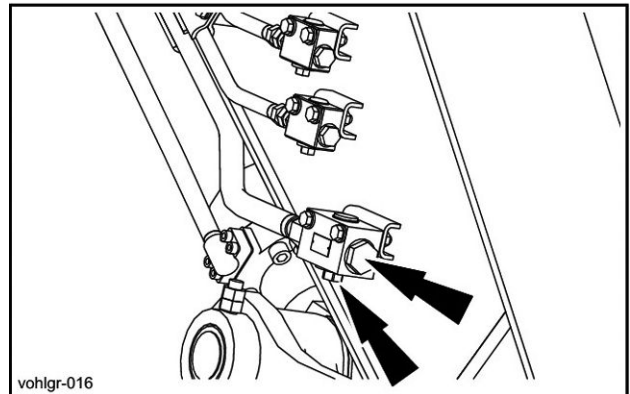
- Operate the bucket control lever so that the pin is completely engaged in the quick coupler hook.



TX8XZ1-004A 5

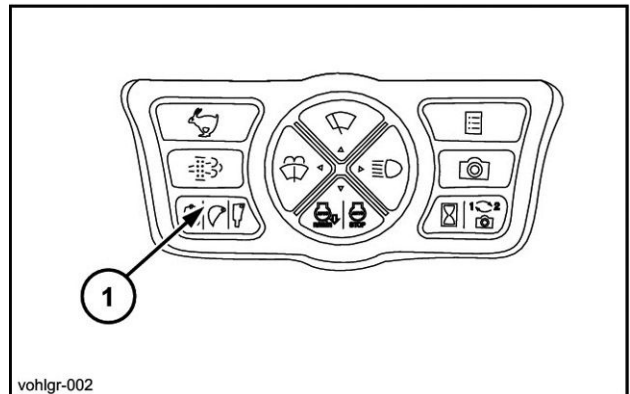
Multi-purpose circuit with pressure adjuster

1. Make the necessary tool connections and then, using a hexagonal wrench, open the supply valves located at the tip of the dipper, left-hand and right-hand side.



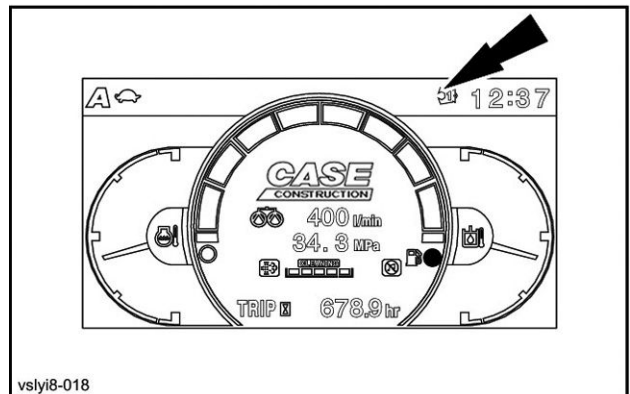
VOHLGR-016 8

2. Switch **(1)** located on the right-hand console upwards, corresponding to the demolition grab. Every time the switch **(1)** is pressed, one of the different types of flow patterns recorded for the pump can be selected. For the flow and pressure setting method, refer to page 3-24.



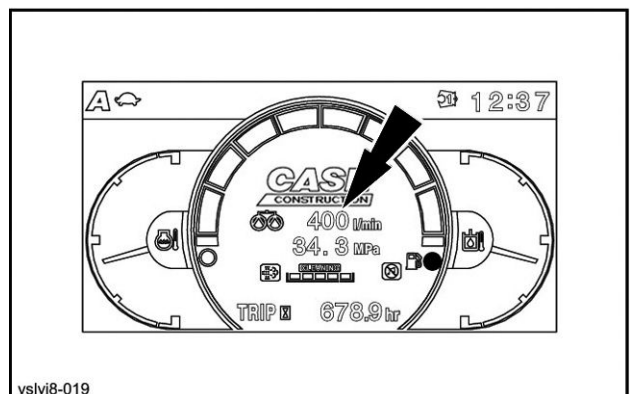
VOHLGR-002 9

3. The icon of the accessory associated to each type of flow appears on the screen.



VSLYI8-018Z 10

4. After switch **(1)** has been operated, the set flow and pressure will be displayed for a set amount of time.



VSLYI8-019Z 11

Unloading

1. Remove the blocks and fastening chains.
2. Start the engine.
3. Push the function cancellation lever forward (safety bar in outward position).
4. (Machine with attachment)
Raise the attachment to bring it a few centimetres above the trailer bed.
5. Select low travel speed.
6. Move the machine forward slowly, raising the attachment (if equipped) so as to keep it a few centimetres off the ground.
7. Turn the rear view mirrors back to their correct position.
8. (Machine without attachment)
Install the attachment and the counterweight.

ATTENTION: *When the attachment has been installed, all air must be removed from the hydraulic circuit and the machine must be tested for correct operation. Do not forget to check the oil level.*

It is recommended that the following safety information be considered in order to prevent damage to the engine fuel supply system.

- Some fuel suppliers mix old engine oil and diesel fuel.
- Makers of larger engine permit the use of this kind of fuel.
- However, do not use diesel fuel contaminated with engine oil in customer's engines.
- Not only will this fuel damage the engine, it may also have a negative impact on the exhaust gas purification function.
- Before using diesel fuel, confirm with the supplier whether the fuel complies with the above specifications.

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

ATTENTION: In order to prevent condensation during cold weather, fill the fuel tank to full after the 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.

Biodiesel fuel

Fatty Acid Methyl Ester Biodiesel (Biodiesel Fuel) consists of a family of fuels derived from vegetable oils treated with methyl esters.

ATTENTION: Biodiesel Fuel blends are approved for your engine only if they comply with **EN14214** Specification Standards or **ASTM D6751**.

ATTENTION: It is imperative that you check which blend is approved for your engine with your CASE CONSTRUCTION Dealer. Be aware that the use of Biodiesel Fuel that does not comply with the Standards mentioned above could lead to severe damage to the engine and fuel system of your machine. The use of fuels that are not approved may void CASE CONSTRUCTION Warranty coverage.

Biodiesel Fuel Usage Conditions:

ATTENTION: The Biodiesel Fuel must meet the fuel Specification mentioned above.

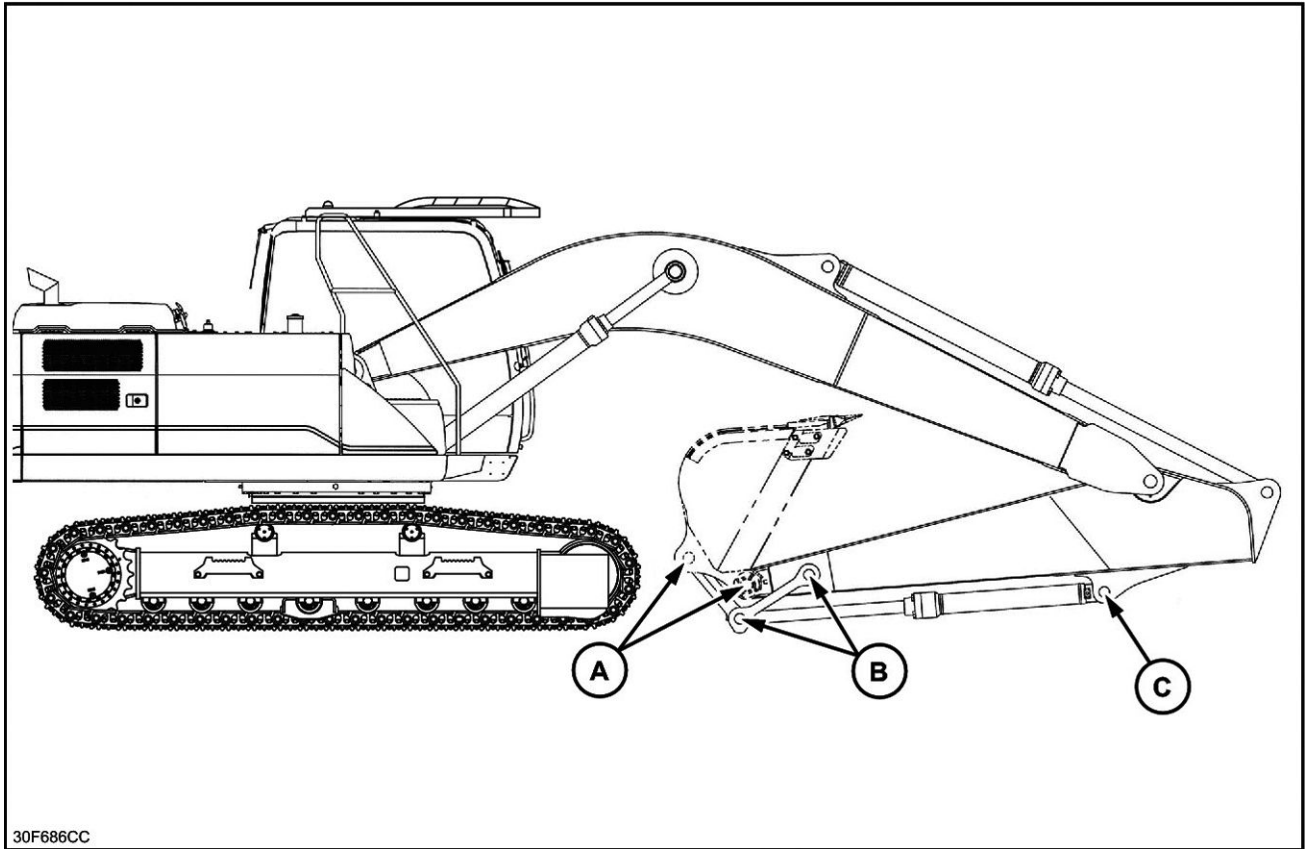
Biodiesel Fuel must be purchased from a trusted supplier that understands the product and maintains good fuel quality. Biodiesel Fuel must be pre-blended by the supplier. Mixing Biodiesel Fuels on-site can result incorrect mixture that can lead to problems with both engine and fuel system.

Engine performance is affected by the use of Biodiesel Fuel. There may be up to **12 %** reduction in power or torque depending on the blend used.

ATTENTION: DO NOT modify the engine and/or injection pump settings to recover the reduced performance.

The reduced power must be accepted if using any Biodiesel Fuel blend.

Dipper/backhoe bucket



30F686CC

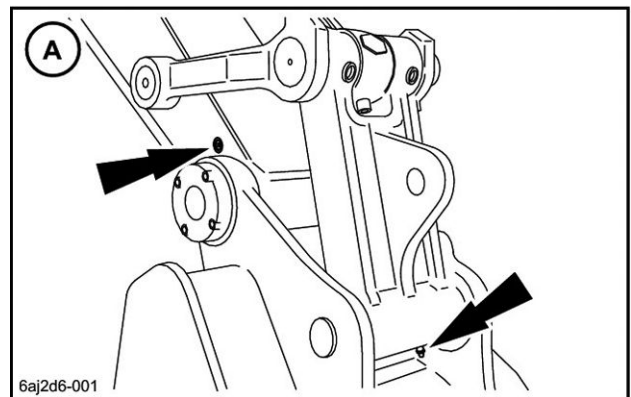
30F686CC 16

ATTENTION: If the following linkage points are not equipped with original parts, these points must be lubricated every 10 hours.

Every 250 hours

Bucket linkages: (2)

ATTENTION: If an accessory other than the bucket is installed, (hydraulic hammer, etc.) these points must be lubricated every 10 hours.



6aj2d6-001

6AJ2D6-001 17

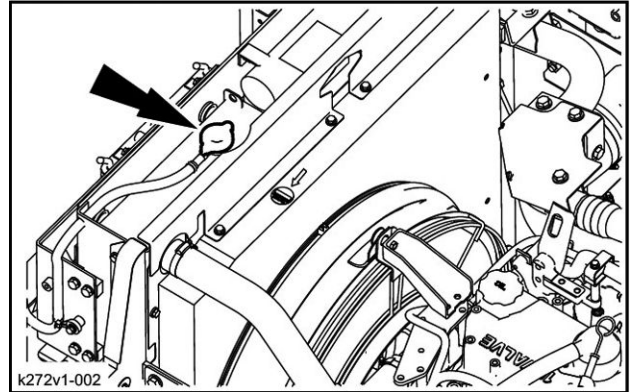
Draining

⚠ CAUTION

Burn hazard!
Hot coolant can spray out if you remove the filler cap while the system is hot. After the system has cooled, turn the filler cap to the first notch and wait for all pressure to release before proceeding.
Failure to comply could result in minor or moderate injury.

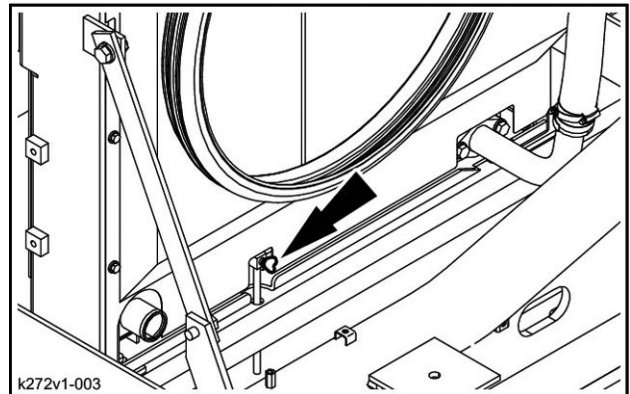
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1. Remove the radiator plug.
2. Remove three bolts on the protective panel in the rear left-hand compartment under the radiator and remove the panel to access the radiator drain valve.



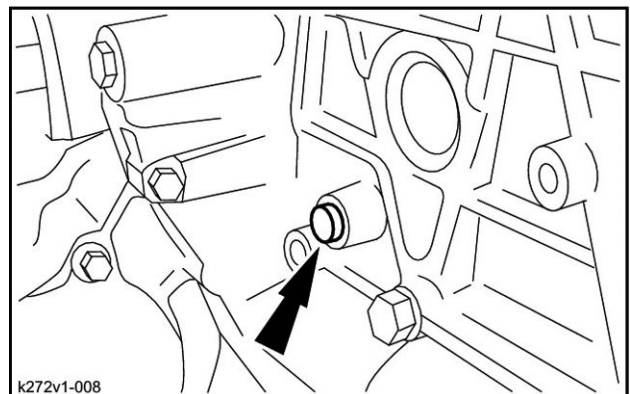
K272V1-002 2

3. Open the radiator drain valve located in the rear left-hand compartment.



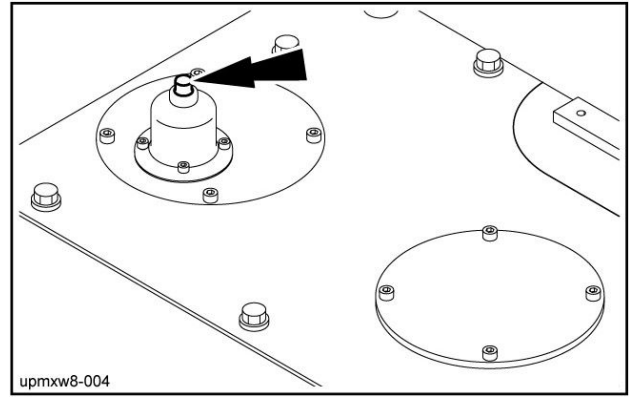
K272V1-003 3

4. Open the drain plug located on the engine block.
NOTE: Have a receptacle of a suitable capacity ready.



K272V1-008 4

6. Press the button on top of the breather on the hydraulic reservoir to release any residual pressure.



UPMXW8-004 4

Air filter

Inspection

Be sure to carry out regular checks on the air filter, intake manifold, seals and hoses. At the same time, check the intake manifold screws and hose clamps for tightness.

The hoses should be changed before they are worn.

Service specifications

Inspect and clean the primary element: Every 250 hours or when the "Air filter" message is displayed on the message display screen

Replace the primary element: Every 1000 hours or after cleaning 6 times

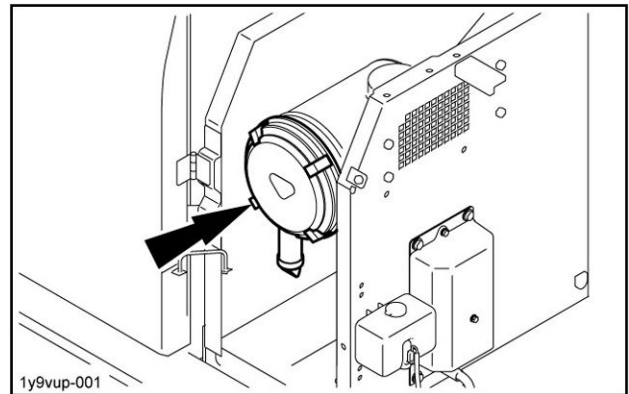
Replace the secondary element: Every 1000 hours or after cleaning the main element 3 times

ATTENTION: The primary element can be cleaned. The secondary element cannot be cleaned and must be changed.

NOTICE: Observe the air filter service intervals shown above. Clean filters mean longer engine life.

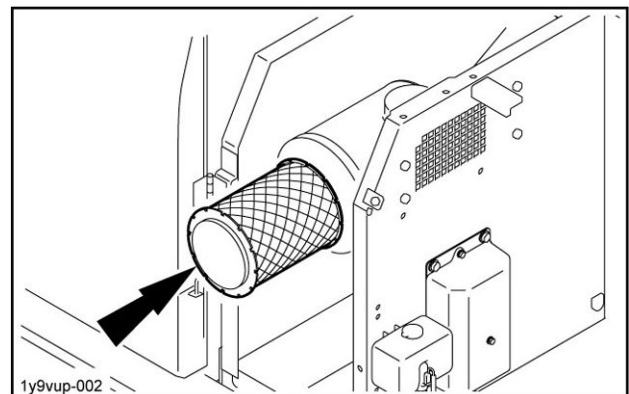
Removing the elements

1. Release the fasteners and remove the cover.



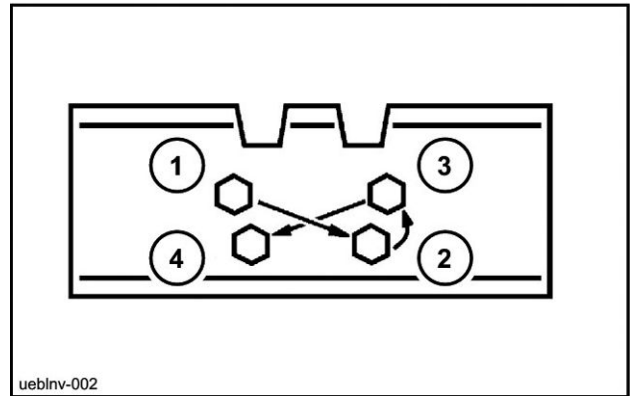
1Y9VUP-001 1

2. Remove the primary element.



1Y9VUP-002 2

NOTE: Follow the prescribed order.



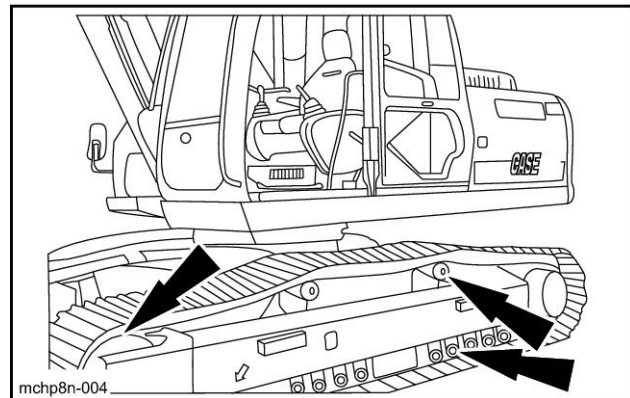
UEBLNV-002 9

Track rollers and idler wheels

Service specifications

Check: Every 250 hours

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 from time to time before work for oil leakage. If oil leakage is found, component replacement is necessary. Consult your CASE CONSTRUCTION Dealer.

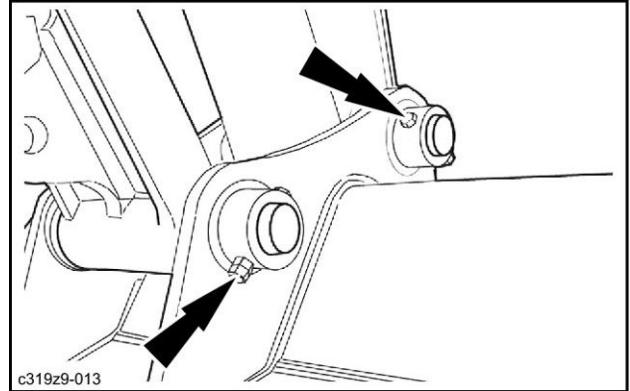


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Replacing a backhoe bucket

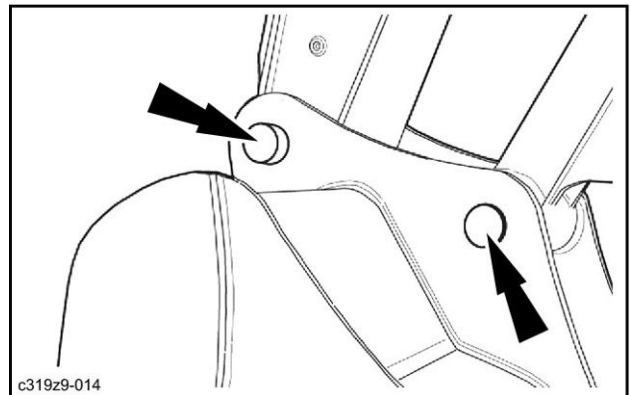
Removal

1. Place the bucket flat on flat, horizontal ground.
2. Operate the attachment controls so that the dipper/bucket linkage pin is not gripped by the weight of the dipper.
3. Stop the engine and remove the ignition key.
4. Remove the pins hardware.



C319Z9-013 1

5. Remove the bucket pins.
6. Start the engine.
7. Disengage the attachment from the bucket and save the linkage seals for re-use.



C319Z9-014 2

Installation

1. Make sure the bucket is in a stable position.
2. Start the engine.
3. Bring the dipper into its housing.
4. Stop the engine and remove the ignition key.
5. Install the linkage seals between the dipper and the bucket. Change them if necessary.

Torque specifications for hardware

Service specifications

Check: Every 250 hours (after the first 50 hours during the run-in period)

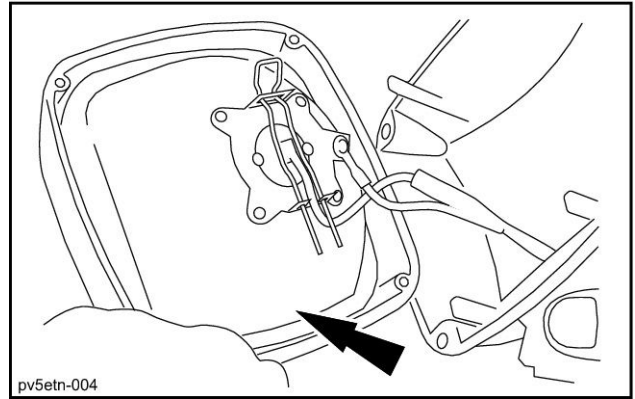
At the end of each working day, check all mounting nuts and screws for tightness and tighten if necessary. Make sure no hardware items are missing. Replace them, if necessary.

Torque specifications per component

Component	Screw	Wrench		Torque setting	
	(Ø)	mm	in	Nm	lb ft
Travel reduction gear (*)	M16	24	0.9	267–312	197–230
Drive sprocket (*)	M16	24	0.9	267–312	197–230
Idler wheel (*)	M16	24	0.9	267–312	197–230
Upper roller (*)	M20	30	1.2	521–608	384–448
Lower roller (*)	M18	27	1.1	371–432	274–319
Chain guide (*)	M18	27	1.1	400–462	295–341
Track pad	M20	30	1.2	250–350	184–258
Counterweight	M33	50	2	1862–2058	1373–1517
Turntable	M20	30	1.2	468–545	345–402
Swing reduction gear (*)	M20	30	1.2	540–629	398–464
Engine (*)	M10/M16	17/24	0.7/0.9	64–74/206-247	47–54/152-182
Engine mounts (*)	M16	24	0.9	265–314	195–231
Radiator	M16	24	0.9	147–177	108–130
Hydraulic pump (*)	M10	17	0.7	64–73	47–54
	M20	hexagonal	hexagonal	367–496	271–366
Hydraulic reservoir (*)	M16	24	0.9	232–276	171–204
Fuel tank (*)	M16	24	0.9	232–276	171–204
Control valve	M16	24	0.9	267–312	197–230
Hydraulic swivel (*)	M12	19	0.7	109–127	80–94
Cab	M16	24	0.9	149–173	110–128
Batteries	M10	17	0.7	20–29	15–21

NOTE: Use Loctite 262, or the equivalent, on screws marked (*).

4. Remove the four screws and tilt the headlight.

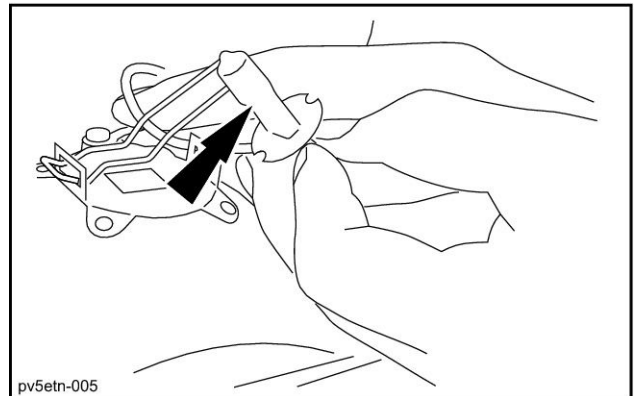


PV5ETN-004A 8

5. Pull the clip outward, remove the bulb and install a bulb of the same wattage (**70 W**).

ATTENTION: *Never put your fingers on a tungsten iodide bulb.*

6. Install the clip, put the headlamp back in position and install the screws and the plug.
7. Install the switch bracket.



PV5ETN-005A 9

8 - SPECIFICATIONS

General specification

Engine

High pressure common rail engine, in conformity with the European requirements applicable to low fumes emission, in accordance with the directive 97/68/EC.

Make and type	ISUZU AM-4HK1X
Common rail, turbocharger with air cooled intercooler, DPD (Diesel Particulate Diffuser) system, fuel cooler	yes
Injection	electric control
Number of cylinders	4
Bore/stroke	115 mm (4.5 in) x 125 mm (4.9 in)
Displacement	5193 cm³/rev (316.9 in³/rev)
Maximum displacement (80/1269/EEC)	621 N·m (458.03 lb ft) at 1500 RPM
Cooling	by water
Battery starting	2 x 12 V 92 A·h
Voltage	24 V
Alternator	50 A
Starter	24 V 5.0 kW

Working conditions

Speed	1800 RPM
Power (80/1269/EEC)	119.3 kW (162.2 Hp)
Engine oil capacity (with remote oil filter)	23.1 l (6.1 US gal)
Fuel tank capacity	320 l (84.5 US gal)
Fuel filler pump	if equipped
Engine/pump assembly mounted on flexible mountings	
Filtration in dusty conditions	
Electronically controlled governor	

Hydraulic system

2 variable displacement axial piston pumps with regulating system. Main pump max flow (at 1800 RPM)	2 x 211 l/min (61.8 US gpm)
Fixed flow pump (pilot circuit).Max. flow:	18 l/min (4.8 US gpm)
Working pressure.Attachment/power boost	343 - 368 bar (4973.5 - 5336.0 psi)
Oil cooler with air cooling from engine	
High pressure multispiral hoses minimum safety factor	2 to 4 times the working pressure
Self-lubricating hydraulic swivel	
Hydraulic reservoir capacity	127 l (33.5 US gal)
Total hydraulic system capacity	220 l (58.1 US gal)

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