

Instruction manual

Operating & Maintenance

4812159801_F.pdf

Vibratory roller

CC234HF/334HF

CC2300/3300

Engine

Cummins QSB 3.3 (IIIA/T3)

Deutz TCD 3.6 L04 (IIIB/T4i)

Deutz TCD 3.6 L04 (steg V)

Serial number

10000313xxA009396 -

10000317xxA009737 -

10000338xxA011354 -

10000342xxA010413 -

10000425xxA..... -

10000429xxA..... -

10000458xxA025047 -

10000462xxA..... -



Translation of original instruction

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Safety (Optional)

Air conditioning

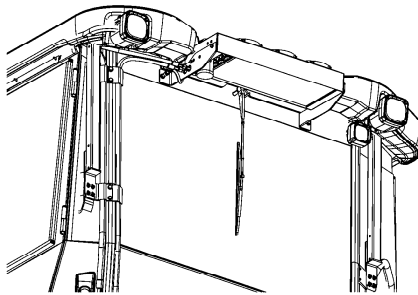


Fig. Air conditioning (ACC)



The system contains pressurized refrigerant. It is forbidden to release refrigerants into the atmosphere.



Work on the refrigerant circuit is only to be carried out by authorized companies.



The cooling system is pressurized. Incorrect handling can result in serious personal injury. Do not disconnect or undo the hose couplings.



The system must be re-filled with an approved refrigerant by authorized personnel when necessary. See decal on or in the vicinity of the installation.

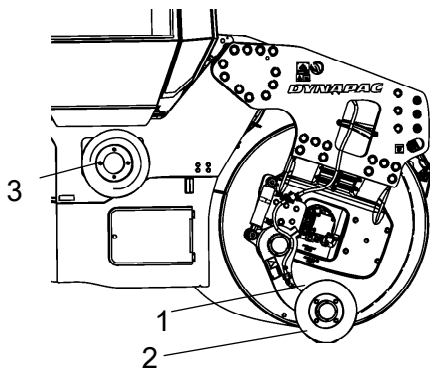


Fig. Edge cutter/compactor
 1. Transport position
 2. Operating position
 3. Holder for cutter/compactor wheel.

Edge cutter/compactor



The operator must make sure that nobody is in the area of operation while the machine is in use.



The edge cutter consists of rotating components and there is a risk of being crushed.

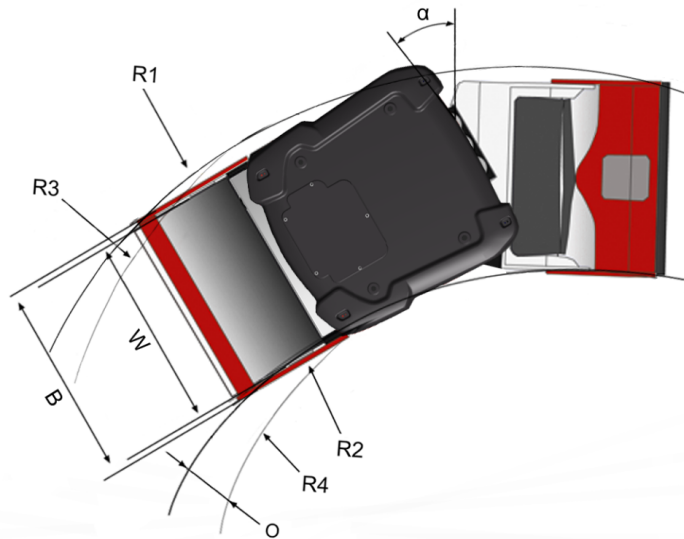


The tool must be returned to the transport position (raised position) (1) every time it has been used.



If the edge cutter and its parts are dismantled, make sure that it is set in a relieved position and resting on the ground.

Dimensions, top view



	Dimensions	mm	in
B1	Machine width, standard		
	CC234HF, CC2300	1620	64
	CC334HF, CC3300	1870	74
B2	Machine width, asymmetrical	2145	84.5
R1	Turning radius, outer		
	CC234HF, CC2300	6570 / 5190*	259 / 204*
	CC334HF, CC3300	6685 / 5305*	263 / 209*
R2	Turning radius, inner		
	CC234HF, CC2300	5570 / 3225*	219 / 127*
	CC334HF, CC3300	-	-
W	Drum width		
	CC234HF, CC2300	1500	59
	CC334HF, CC3300	1730	68
	*) with offset		

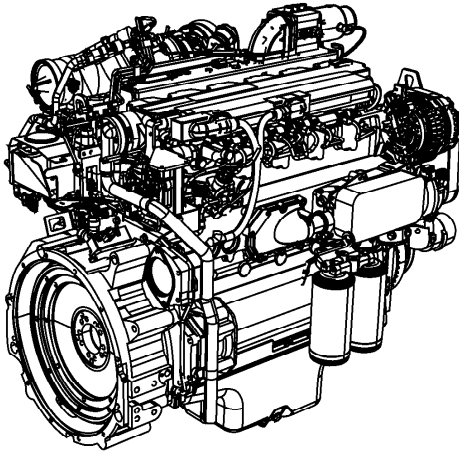
Engine plates


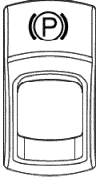
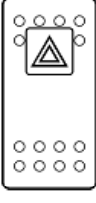
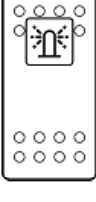
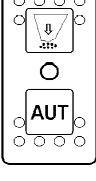
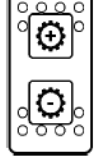



The engine type plates (1) are affixed to the top and on the right side of the engine.

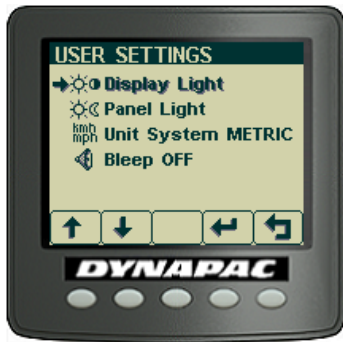
The plates specify the type of engine, serial number and the engine specification.

Please specify the engine serial number when ordering spares. Refer also to the engine manual.

On certain machines there may be an engine plate along with the machine plate, if the original plate on the engine is covered with extra equipment/accessories.



No	Designation	Symbol	Function
25	Parking brake		When pressed, the parking brake is activated. To release the brakes, slide the red part back (towards you) and change the position of the lever. NOTE: When starting the machine, the parking brake must be activated.
			To activate the brakes, press the top of the switch to change the position of the lever. To release the brakes, press down the red part at the same time as the switch and change the position of the lever. NOTE: When starting the machine, the parking brake must be activated.
26	Hazard warning lights		Activate the hazard warning light by depressing the button.
27	Rotating beacon		Activate the rotating beacon by depressing the button.
28	Gravel spreader		Activating the gravel spreader. Manual/Automatic spreading. (CC224-324, CC2200-3200)
29	Gear position switch		Activates the three different gear positions: (1), (2), (3). The current gear position is shown in the display by means of the following figures.
			Position 1: Used for maximum hill-climbing capacity during vibratory compaction
			Position 2: Normal position
			Position 3: Used for maximum transport speed or for high speed during smooth rolling without vibration

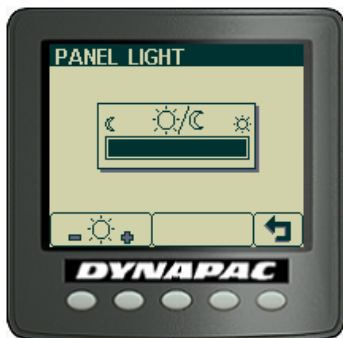


"USER SETTINGS"

Users can change the light settings, choose between the Metric or Imperial system, and set warning sounds On/Off.



Adjustment of the light and contrast settings on the display, including brightness of the panel light.



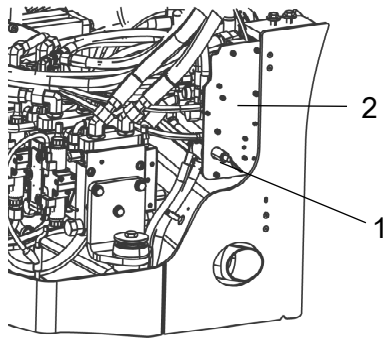


Fig. Battery bay
1. Master switch
2. Main fuse panel

Power in engine compartment/battery compartment

The fuses in the engine compartment are located alongside the master switch.

The roller is equipped with 24 V electrical system and an AC alternator.



Connect the correct polarities (ground) to the battery. The cable between the battery and the alternator must not be disconnected when the engine is running.

Main fuse panel (Cummins)

The main fuse panel is located behind the left engine compartment door.

The fuses are placed in the order shown below, starting by the plate.

F13	Engine ECU	(30A)
F10	Main fuse	(50A)
F11	Cab	(50A)

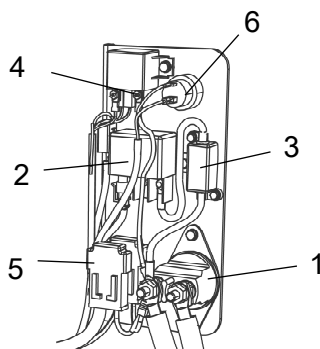


Fig. Main fuse panel
1. Master switch
2. Preheating relay (100A)
3. Fuse (F20) (125A)
4. Starter relay (50A)
5. Fuses (F13, F10, F11)
6. Power socket 24V

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Starting

Starting the engine

Make sure that the emergency stop is OFF and the parking brake ON.

Set the forward/reverse lever (1) in neutral position, and set the speed selector (2) in the idling position (LO) or (ECO) if that option is installed on the machine.

The diesel engine cannot be started in any other position of the controls.

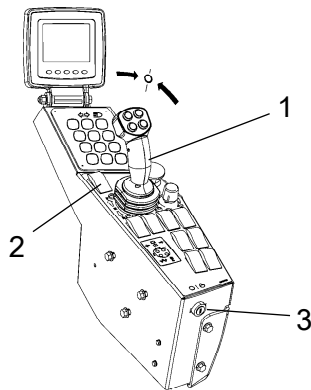


Fig. Control panel

1. F/R lever
2. Rpm switch
3. Ignition key

Turn the ignition key (3) right to position I and wait for the grid heater symbol to disappear from the display. Then engage the starter by turning it full right. Release back to I as soon as the engine starts.



While preheating of diesel engine is running the symbol grid heater is shown in the center of the display.



Do not run the starter motor for too long (max. 30 seconds). If the engine will not start, wait a minute before trying again.

At the start of the diesel engine when the ambient temperature is below +10 °C (50 °F), it must be warmed up at idle (low speed) until the hydraulic oil temperature exceeds +10 °C (50 °F).



Ensure that there is good ventilation (air extraction) if the engine is run indoors. Risk of carbon monoxide poisoning.

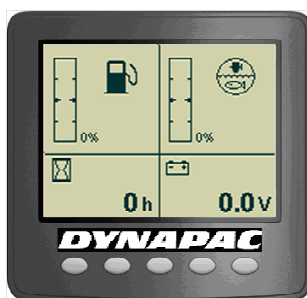
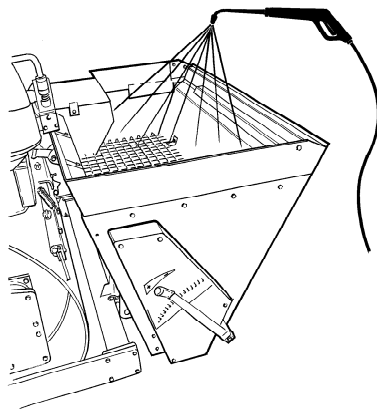


Figure. Display - Status image

Check during warming up of the engine that fuel and water levels are shown correctly and that the voltage is at least 24V.

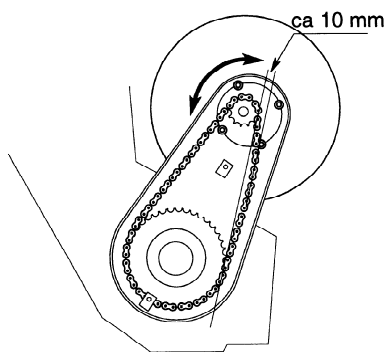


Washing the spreader

When corrosive material has been used the spreader must be flushed clean with water. This should also be done when the spreader is not to be used for a long period.

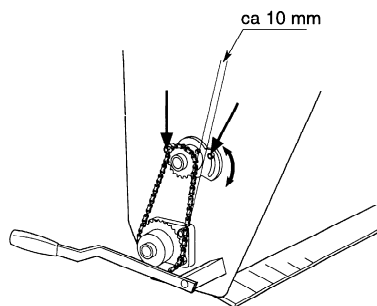
Adjusting the chain 1

Loosen the four bolts for the bearing housing and turn it to the correct position, where the chain has a clearance of approx. 10 mm. Tighten the bolts.



Adjusting the chain 2

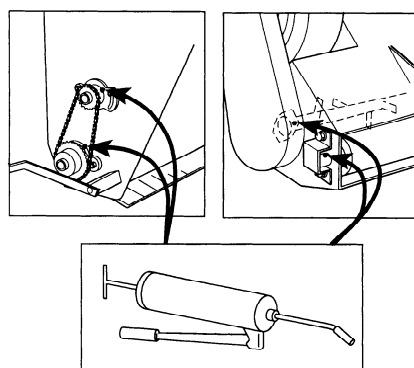
Loosen the two nuts, see arrows, for the bearing housing and turn it to the correct position, where the chain has a clearance of approx. 10 mm. Tighten the nuts.



Lubrication

At the start of every season and after every 40 hours of operation. Once per season is sufficient during infrequent use.

Lubricate after every season before putting into storage.



Miscellaneous

Lifting

Locking the articulation

 **Articulation must be locked to prevent inadvertent turning before lifting the roller.**

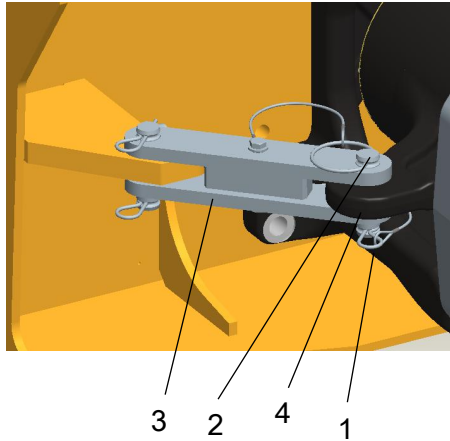


Fig. Articulation in the locked position

- 1. Locking pin
- 2. Locking dowel
- 3. Locking arm
- 4. Locking lug

Turn the steering wheel to the straight ahead position.
Push in the emergency/parking brake knob.

Pull out the lowermost locking pin (1), which has a wire attached. Pull up the locking dowel (2) which also has a wire attached.

Fold out the locking arm (3) and secure it to the upper locking lug (4) on the articulated link.

Fit the locking dowel into the holes through the locking arm and locking lug. Lock the dowel in position with the locking pin (1).

Locking the articulation

 **Articulation must be locked to prevent inadvertent turning before lifting the roller.**

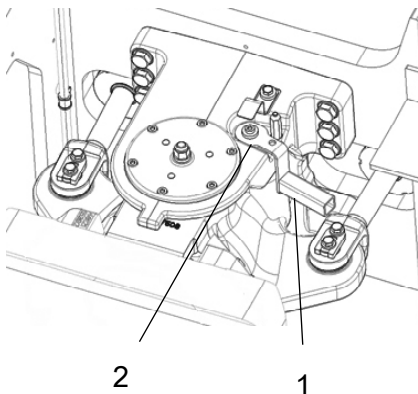


Fig. Steering joint lock, locked

- 1. Lock handle
- 2. Locking dowel

Turn the steering wheel to the straight ahead position.
Activate the parking brake.

Front frame shall be in line with the rear frame.

Lift lock in the handle (1) while it is turned clockwise.

Make sure dowel (2) gets in position as illustrated.
Arm must be in contact with the surface of the molded holder.

If this is not done, it's likely that the machine halves are out of line, steer then the machine so this is happening.

Preventive maintenance

Complete maintenance is necessary for the machine to function satisfactorily and at the lowest possible cost.

The Maintenance section includes the periodic maintenance that must be carried out on the machine.

The recommended maintenance intervals assume that the machine is used in a normal environment and working conditions.

Acceptance and delivery inspection

The machine is tested and adjusted before it leaves the factory.

On arrival, before delivery to the customer, delivery inspection must be conducted as per the check list in the warranty document.

Any transport damage must be reported immediately to the transport company, as this is not covered by the product warranty.

Warranty

The warranty is only valid if the stipulated delivery inspection and the separate service inspection have been completed as per the warranty document, and when the machine has been registered for starting under the warranty.

The warranty is not valid if damage has been caused by inadequate service, incorrect use of the machine, the use of lubricants and hydraulic fluids other than those specified in the manual, or if any other adjustments have been made without the requisite authorisation.

Maintenance, 10h

Every 10 hours of operation (Daily)



***Park the roller on a level surface.
The engine must be switched off and the parking brake activated when checking or adjusting the roller, unless otherwise specified.***



Ensure that there is good ventilation (air extraction) if the engine is run indoors. Risk of carbon monoxide poisoning.



Diesel engine - Check oil level

The dipstick is accessed through the right door of the engine compartment.



Take care not to touch any hot parts of the engine or the radiator when removing the dipstick. Risk of burns.

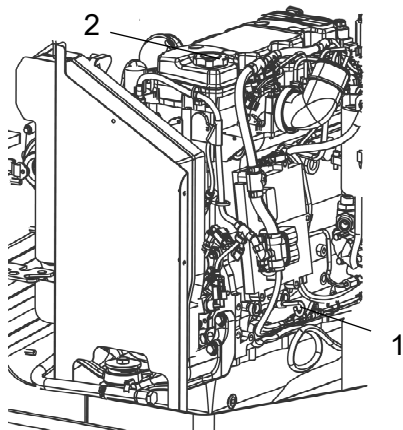


Fig. Engine compartment

- 1. Dipstick**
- 2. Oil filler cap**

The dipstick is located down on the front of the engine.

Pull out the dipstick (1) and check that the oil level is between the upper and lower marks.

For further details, refer to the engine's instruction manual.

Maintenance measures - 250 h

Every 250/750/1250/1750..... hours of operation (every 3 months)



Park the roller on a level surface. The engine must be switched off and the parking brake activated when checking or adjusting the roller, unless otherwise specified.



Ensure that there is good ventilation (air extraction) if the engine is run indoors. Risk of carbon monoxide poisoning.



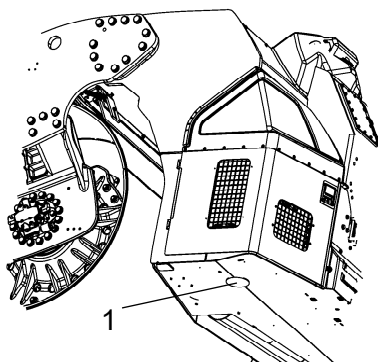
Diesel engine Oil change

The engine's oil drain plug is located under the rear frame on the machine on the right side. The drain plug is accessed by first removing the rubber plug on the underside of the frame.

Drain the oil when the engine is warm. Place a receptacle that holds at least 14 liters (15 qts) under the drain plugs.



Take great care when draining engine oil. Wear protective gloves and goggles.



**Figure. Underside of rear frame
1. Oil draining of diesel engine**

Unscrew the drain plug (1). Allow all the oil to drain out and refit the plug.



Deliver the drain oil for environmentally correct handling.

Fill with fresh engine oil, see Lubricant specification or the engine manual for the correct grade of oil.

Fill with the requisite volume of engine oil. See technical specifications before starting the machine. Allow the engine to idle for a few minutes, and then switch off the engine.

Check the dipstick to ensure that the engine oil level is correct. Refer to the engine manual for details. Top up with oil if necessary to the max mark on the dipstick.

Rubber elements and attachment screws Check

Check all rubber elements (1). Replace all elements if 25% or more than 25% of the number on one side of the drum have cracks deeper than 10-15 mm (0.4-0.6 in).

Check using a knife blade or pointed object.

Check also that the attachment screws (2) are tightened.

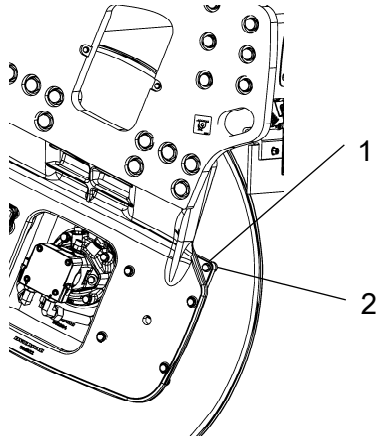
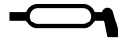


Fig. Drum, vibration side
1. Rubber element
2. Attachment screws



Seat bearing - Lubrication



Keep in mind that the chain is a vital part of the steering mechanism.

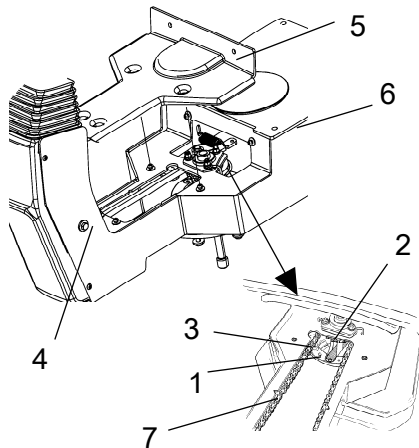


Figure. Seat bearing
1. Grease nipple
2. Gearwheel
3. Steering chain
4. Adjusting screw
5. Cover
6. Slide rails
7. Marking

Remove the cover (5) to access the lubrication nipple (1). Lubricate the operator seat slew bearing with three strokes of a hand-operated grease gun.

Clean and grease the chain (3) between the seat and the steering column.

Also grease the seat slide rails (6).

If the chain is slack on the sprocket (2), loosen the screws (4) and move the steering column forward. Tighten the screws and check chain tension.

Do not tension the chain too tightly. It should be possible to move the chain about 10 mm (0.4 in) to the side with a forefinger/thumb at the marking (7) in seat frame. Fit the chain lock at the bottom.



If the seat starts to be stiff when adjusting, it should be lubricated more often than specified here.



Drum - Changing the oil

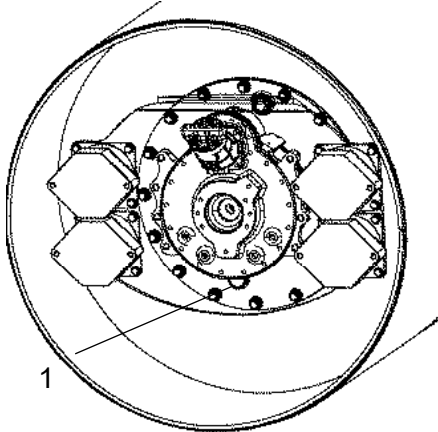


Fig. Drum, vibration side
1. Drain plug

Position the roller with the drain plug (1) straight down.

Place a receptacle that will hold at least 7 liters (7.5 qts) under the plug.

Remove the drain plug (1). Allow all the oil to drain out.

Drain on both drum halves while refilling only is necessary to do on one of the drum sides. (joint oil bath)



Deliver the drain oil to environmentally correct handling.

See under the heading 'Every 500 hours of operation' for filling oil.

Change the oil in both front and rear drum.



Drum gearbox - Oil change

Place the roller on a level surface.

Wipe clean, unscrew the plugs (1, 2) and drain the oil into a suitable receptacle, capacity about 2 liters (0.5 gal.).

Refit the plug (1) and fill with oil up to refilling hole (2), according to "Drum gearbox - Checking the oil level".

Use transmission oil according to the lubricant specification.

Clean and refit the level plug/filler plug (2).

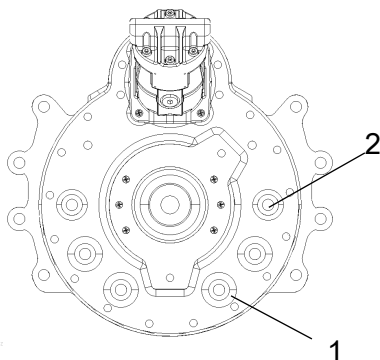
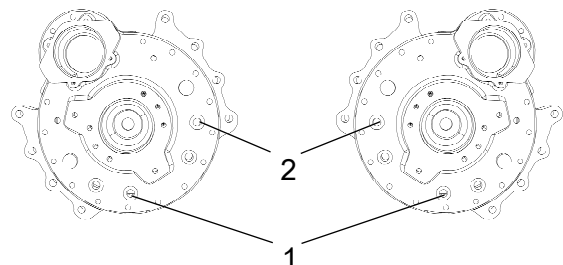


Fig. Drum gearbox
1. Drain plug
2. Filler plug/Level plug





Battery - Check condition

The batteries are sealed and maintenance-free.

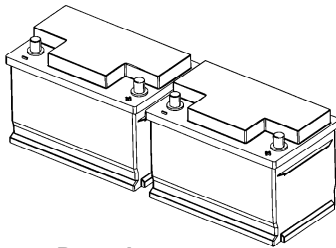


Figure. Batteries



Make sure there is no open flame in the vicinity when checking the electrolyte level. Explosive gas is formed when the alternator charges the battery.



When disconnecting the battery, always disconnect the negative cable first. When connecting the battery, always connect the positive cable first.

The cable shoes should be clean and tightened. Corroded cable shoes should be cleaned and greased with acid-proof Vaseline.

Wipe the top of the battery.



Hydraulic filter Change



Remove the filter (1) and deliver to special waste handling. This is a single-use filter and cannot be cleaned.

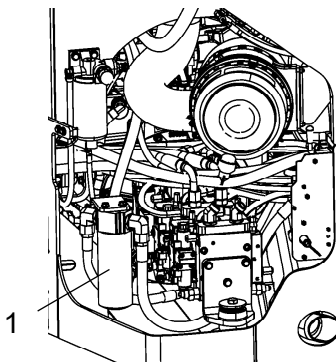


Figure. Engine compartment, left
1. Hydraulic fluid filter

Thoroughly clean the filter holder sealing surface.

Apply a thin coat of fresh hydraulic fluid to the rubber gasket on the new filter.

Screw the filter on by hand, firstly until the filter gasket makes contact with the filter base. Then rotate a further $\frac{1}{2}$ turn.

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