

Instruction manual

Operating & Maintenance

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**Vibratory rollers
CC1100C VI / CC1200C VI**

Engine

Kubota D1703-M-DI-E4B (T4f) (18.5 kW)

Kubota D1703-M-IDI-E3 (IIIA/T3) (26 kW)

Kubota D1803-CR (T4f) (28 kW)

Kubota D1703-M-DI-E4B (Stage V) (18.5 kW)

Kubota D1803-CR-E5B (Stage V) (28 kW)

Serial number

10000393xxA022045 - xA023287

10000392xxA021396 -

10000394xxA021673 -

10000445xxA023696 -

10000453xxA0*** -**

10000398xxA021518 - xA023341

10000399xxA021830 -

10000400xxA021646 -

10000447xxA023516 -

10000455xxA0*** -**



Translation of original instruction

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Safety - when operating



Prevent persons from entering or remaining in the danger area, i.e. a distance of at least 7 m (23 ft) in all directions from operating machines. The operator may allow a person to remain in the risk zone, however he/she must be attentive and operate the machine only when the person is fully visible or has given a clear indication of where he or she is.



Avoid driving across a slope. Drive straight up and down sloping ground.

Work driving

Avoid operating close to edges and ditches and the like as well as on poor ground conditions that jeopardizes the bearing strength and capacity to support the roller. Pay attention to potential obstacles above the machine, such as overhead cables and the branches of trees etc.

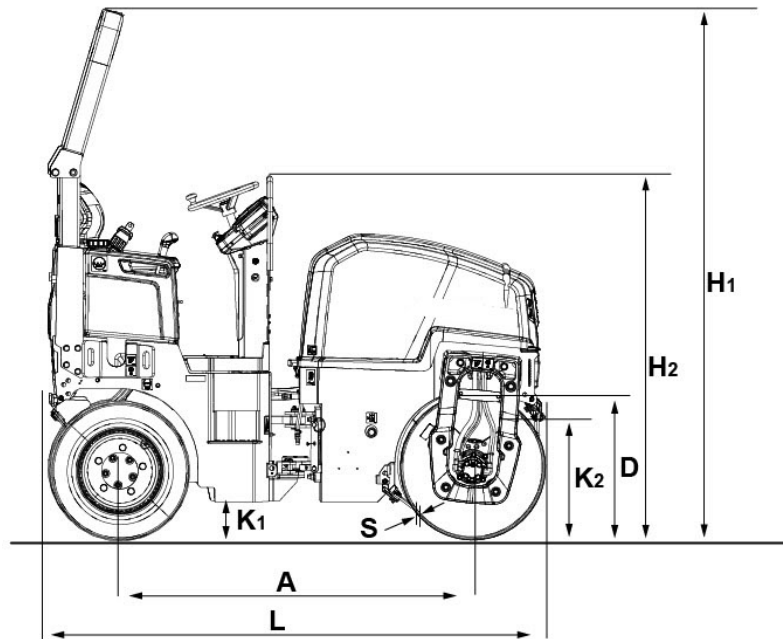
Pay particular attention to the stability of the substrate when compacting close to edges and holes. Do not compact with a large overlap from the previous track in order to maintain roller stability. Consider other compaction methods such as remote-control or a walk-behind roller close to steep slopes or where the bearing strength of the substrate is unknown.




Dynapac always recommends mounted ROPS (Roll Over Protective Structure) and seat belt usage.

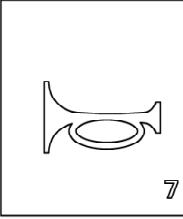
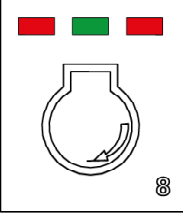



On machines with foldable ROPS, make sure that the ROPS is correctly mounted in the upright position during all operation.

Dimensions, side view



	Dimensions	mm	in
A	Wheel base	1700	67
D	Diameter, drum	700	27
H ₁	Height, with ROPS	2542	100
H ₂	Height, without ROPS	1744	68.5
K ₁		180	7
K ₂		550	22
L	Length	2375	93.5
	Length, with chip spreader	3220	127
S	Thickness, drum amplitude, Nominal		
	CC1100C VI	12	0.47
	CC1200C VI	13	0.51

EMISSION CONTROL INFORMATION 	
THIS ENGINE MEETS 2008 Int. Tier4 EMISSION REGULATIONS FOR U. S. EPA AND CALIFORNIA NONROAD CI ENGINES.	
Kubota KUBOTA Corporation	
MODEL :	ENGINE
FAMILY :	ECS: EM
POWER :	CATEGORY:
VALVE CLEARANCE (COLD) :	
INJ. TIMING:	
LOW SULFUR DIESEL OR ULTRA LOW SULFUR DIESEL FUEL ONLY	
CONTACT KUBOTA FOR FUEL SETTING.	I H239-2

LED	Designation	Function	LED	LED color
	Horn, switch	Press to sound the horn.		
	Engine speed selector (D1803)	Only activated for electronic controlled engine speed (D1803)		
		LED LEFT = Low speed		Red
		LED CENTER = ECO low working revs		Green
		LED RIGHT = High working revs		Red

Function description - Display

Display explanations



Fig. Start image

When the ignition lock is activated to position I a start image is shown on the display. This image is visible for three seconds and then changes to Transport/Working mode.

The transport mode menu is shown when one of the three function keys to the right on the display is activated.

User settings

Users can change the light settings (10), choose between the Metric or Imperial system (11), and set warning sounds on/off (12).

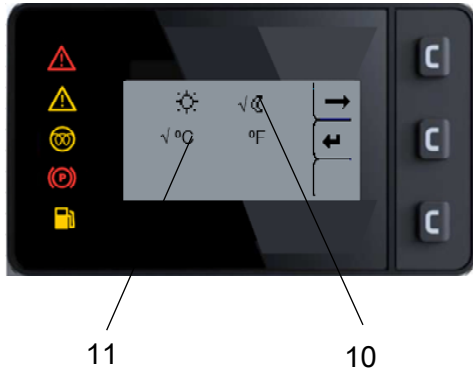


Fig. User settings
10. Light settings
11. Metric / Imperial unit

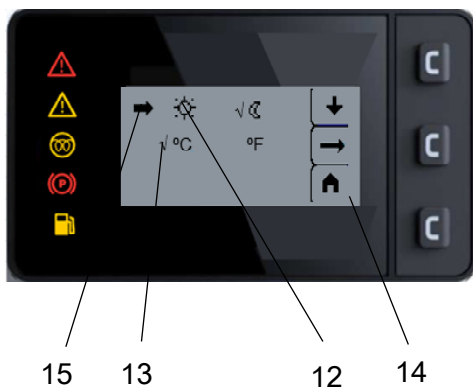


Fig. User settings
12. Sound setting
13. Toggle selector
14. Home mode
15. Cursor

Interlock

The roller is equipped with Interlock.

The diesel engine will switch off after 4 seconds if the operator gets off the seat when going forwards/backwards.

If the control is in neutral when the operator stands up a buzzer will go on until the parking brake button is activated.

If the parking brake remains inactive, the diesel engine turns off after 4 seconds.

The engine does not stop if the parking brake is activated.

The diesel engine will switch off immediately if for any reason the forward/reverse lever is moved out of neutral when the operator is not sitting down and the parking brake button has not been activated.



Sit down for all operations!

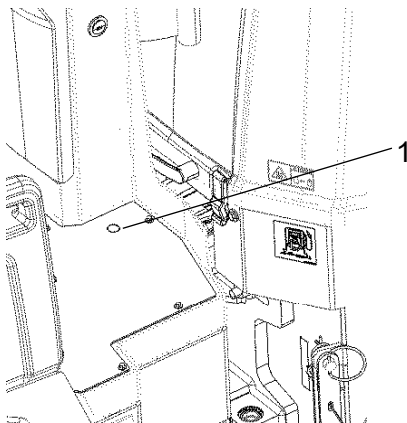


Fig. Operator platform
1. Switch for Sprinkler system, wheels

Sprinkler system, wheels

The switch on the floor (to the right) must be pressed down to activate the sprinkler system on the rear wheels.

The sprinkler system is enabled as long as the switch is actuated.

Remove your foot from the switch to disable the sprinkler system.

Parking

Chocking the wheels/drum



Never disembark from the machine when the engine is running, unless the parking brake is activated.



Make sure that the roller is parked in a safe place with respect to other road users. Chock the drums and rubber wheels if the roller is parked on sloping ground.



Remember that there is a risk of freezing during the winter. Empty the water tank. Fill antifreeze in the engine's cooling system. See also maintenance instructions.

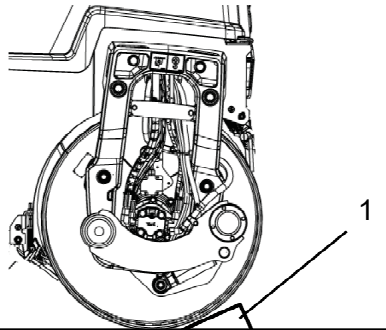


Fig. Drum part
1. Chocks

Battery disconnecter

Before leaving the roller at the end of the shift, switch off the battery disconnecter (1) and remove the key.

This will prevent battery discharging and will also make it difficult for unauthorized persons to start and operate the machine. Lock also the engine cover.

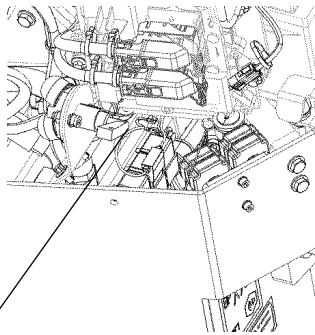


Fig. Battery compartment
1. Battery disconnecter

Short distance towing with switched off engine

 **Chock the drums to prevent the roller from moving.**

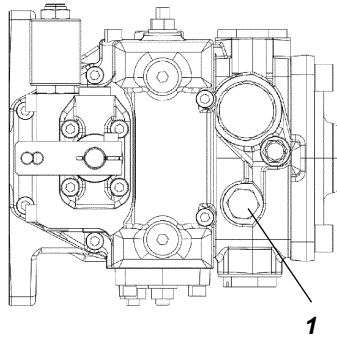


Fig. Propulsion pump
1. By-pass screw

Open the hood and make sure that the propulsion pump is accessible.

There is a bypass screw (1) located on the pump that must be unscrewed counterclockwise (max two turns), to put the drive system (ports A and B) in bypass mode.

This function enables a machine to be moved without the drive shaft on the propulsion pump rotating.

Turn the bypass screw (1) clockwise to reset.

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Operating instructions - Summary



1. Follow the **SAFETY INSTRUCTIONS** specified in the **Safety Manual**.
2. Make sure that all instructions in the **MAINTENANCE** section are followed.
3. Turn the master switch to the **ON** position.
4. Set the emergency stop in the pulled out position.
5. Move the forward/reverse lever to the **NEUTRAL** position.
6. Set the engine speed control to **MEDIUM**. (**D1703**).
Set the speed selector to **LOW** (**D1803**).
7. Start the engine and allow it to warm up.
8. Set the engine speed control to the operating position.



9. **Drive the roller. Operate the forward/reverse lever with care.**



10. **Check the brakes, drive slowly. Remember that the braking distance will be longer if the hydraulic oil is cold.**

11. Use vibration only when the roller is in motion.
12. Check that the drums are thoroughly watered when watering is required.



13. **IN AN EMERGENCY:**
 - Press the **EMERGENCY STOP**
 - Hold the steering wheel firmly.
 - Brace yourself for a sudden stop. The engine stops.
14. Parking: - Stop the engine and chock the drums.
15. When lifting: - Refer to the relevant section in the Instruction Manual.
16. When towing: - Refer to the relevant section in the Instruction Manual.
17. When transporting: - Refer to the relevant section in the Instruction Manual.
18. When recovering - Refer to the relevant section in the Instruction Manual.

After the FIRST 50 hours of operation

See Contents to find the page number of the sections referred to!

Pos. in fig	Action	Comment
6	Change the engine oil and oil filter	Refer to the engine manual
13	Change the hydraulic fluid filter	
10	Check bolted joints	

Every 50 hours of operation (Weekly)

See Contents to find the page number of the sections referred to!

Pos. in fig	Action	Comment
4	Check indicator for air cleaner Check that the air hoses are in good condition and that the connections are tight	
15, 16	Grease the steering joint and the steering cylinder brackets	
	Check the fuel pipe and hose clamps	
	Drain the fuel prefilter/water separator	Only T4

Every 250 / 750 / 1250 / 1750 hours of operation

See Contents to find the page number of the sections referred to!

Pos. in fig	Action	Comment
5	Check the battery condition	
6	Change the engine oil and oil filter	Refer to the engine manual
6	Cleaning the air filter	
6	Checking belts/belt tension	
3	Checking cooler hoses and hose clamps	
	Checking air intake hoses and hose clamps	



Hydraulic reservoir, Level check - Filling

Check that the oil level is visible in the sight glass.

Open the engine hood and unscrew the filler cap (2), top up with hydraulic fluid (as per lubricant specification) if the level is too low.

Screw on the cap again after filling.

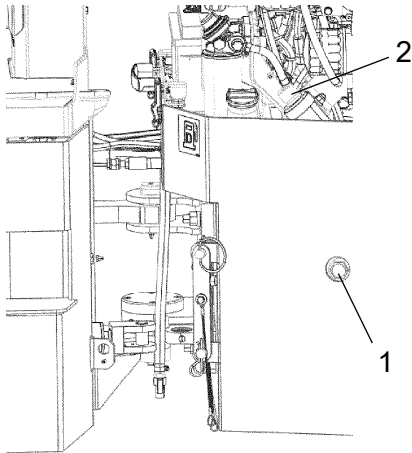


Fig. Hydraulic fluid tank
1. Sight glass
2. Hydraulic fluid refilling

Air circulation - Check

Check that the engine has free circulation of cooling air through the grille (1) in the engine compartment.

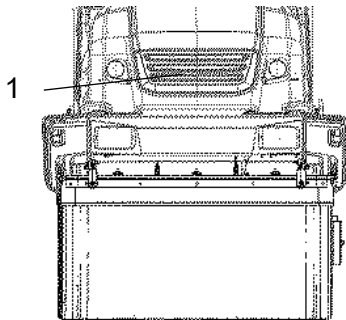


Fig. Front side
1. Cooling air grille



Replacing the hydraulic oil filter

Open the engine hood.

Loosen the red cap (1) and pull up the filter insert (4).

Refit the red cap temporarily to prevent dust and dirt getting into the tank.

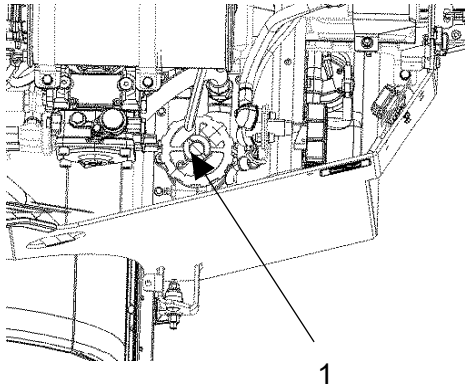


Fig. Engine compartment
1. Filler cap

Release the filter insert (4) from the handle (5).



Remove the filter (4) and hand in to a waste disposal site. This is a disposable filter and cannot be cleaned.

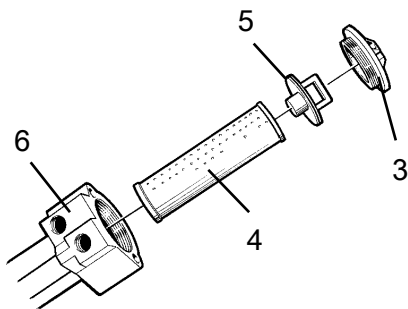


Fig. Hydraulic oil filter
3. Cap
4. Filter insert
5. Handle
6. Filter holder

Mount the new insert on the handle, refit the unit into the filter holder (6), and refit the red cover.

Start the engine and allow it to run at full revs for 30 seconds. Check that the filter cap (3) is tight.



Check - Coolant system

Check that all hoses/hose connectors are intact and tight. Fill with coolant as specified in the lubricants specification.



Take great care when opening the radiator cap while the engine is hot. Wear protective gloves and goggles.



Also check the freezing point. Change the coolant every other year.

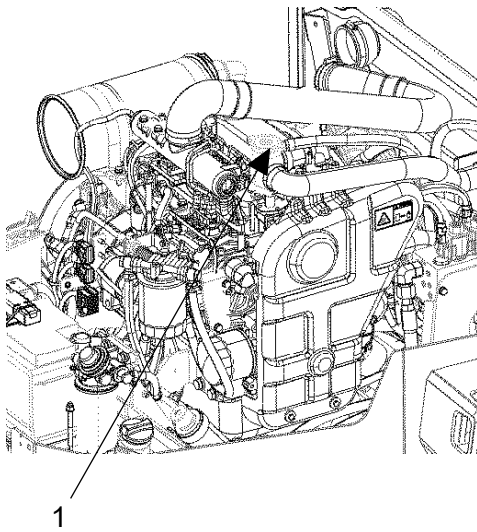
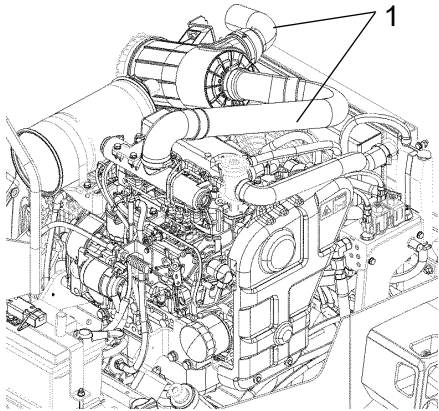


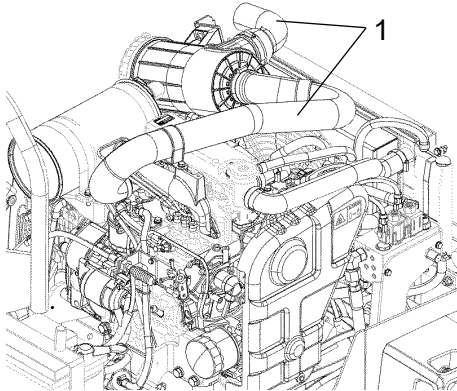
Figure. Cooling water container
1. Filler cap

Check - Air intake hoses

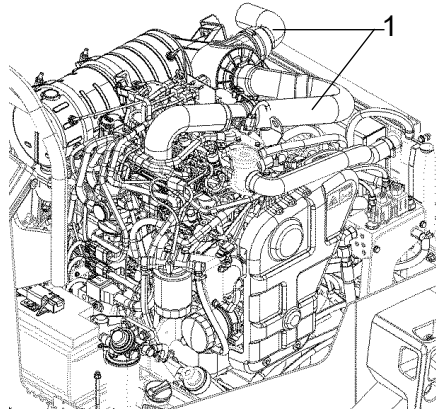
Check that all hoses/hose connections are intact and tight.



**Fig. Engine compartment -
D1703-M-DI-E4B (T4f, T5)**
1. Air intake hoses



**Fig. Engine compartment -
D1703-M-IDI-E3 (T3)**
1. Air intake hoses



**Fig. Engine compartment - D1803 CR
(T4f, T5)**
1. Air intake hoses



Backup filter - Change

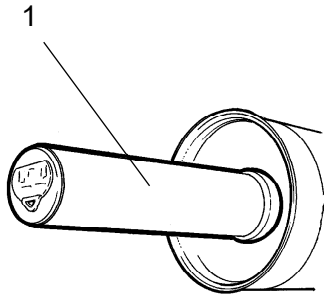


Fig. Air filter
1. Backup filter

Change the backup filter with a new filter after every third replacement of the main filter.

To change the backup filter (1), pull the old filter out of its holder, insert a new filter and reassemble the air cleaner in the reverse order.

Clean the air cleaner if necessary, see section Air cleaner - Cleaning.



Replacing the fuel filter

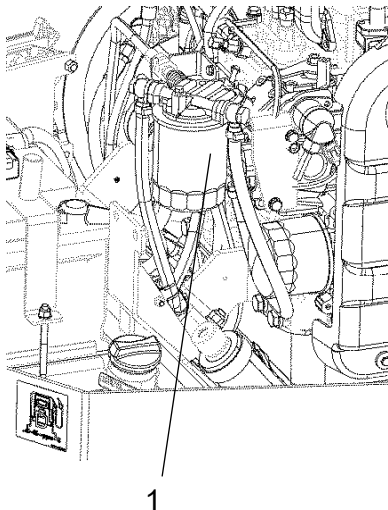


Fig. Engine compartment, right side
1. Fuel filter



Place a container underneath to collect fuel that runs out when the filter is released.

Screw off the fuel filter (1). The filter is of the disposable type and cannot be cleaned. Hand in to a waste disposal site.

Install the new filter.

Start the engine and check that the fuel filter is tight.



Refer to the engine manual for detailed instructions when replacing the fuel filter.



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

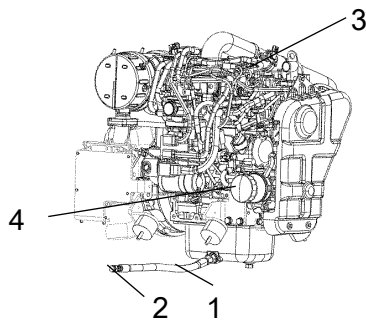


Fig. Engine compartment, right side - D1803-CR (T4f, T5)

1. Drainage hose
2. Drain plug
3. Filler cap
4. Oil filter

Remove the oil filter (4).

Collect any spillage.

Install the new filter.

Fit the drain plug (2) to the end of the hose.

Fill with fresh engine oil. See under the heading lubricants, for the correct oil grade. Fit the filler cap (3) and check that the oil level is correct using the dipstick.

Start the engine and allow it to idle for a few minutes. During this time, check around the oil filter and drain plug for leaks.

Switch off the engine, wait for a minute or so and then check the oil level. Top up with more oil if necessary.

Rubber elements and bolted joints

Check

Check all rubber elements (1). Replace all elements where more than 25% of the elements 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.

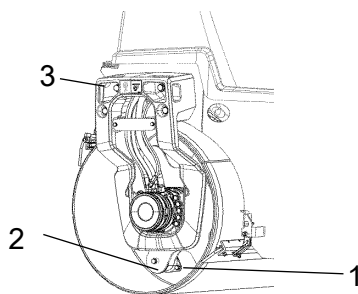


Fig. Drum end

1. Rubber element
2. Fastening screws
3. Bolted joints



Hydraulic reservoir cap - Check

Screw off the tank cap and check that it is not clogged. Air must have unobstructed passage through the cap in both directions.

If clogged in either direction, clean with a little diesel oil and blow with compressed air until free passage is assured or replace the cap with a new one.



Wear protective goggles when working with compressed air.



Drum - Oil change

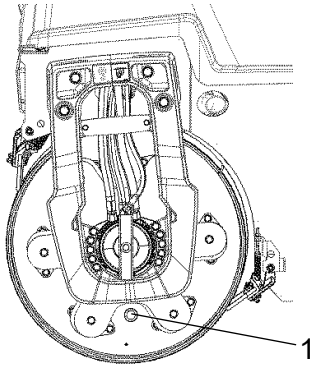


Fig. Drum, vibration side
1. Drain plug



Take great care when draining the fluid. Wear protective gloves and goggles.

Place the roller on a level surface and drive it slowly until the drain plug (1) is straight down.

- Remove the oil plug (1) and allow all the oil to run out.
- Clean and refit the oil plugs (1).
- Start the machine and run until the oil plug (1) is positioned straight up.
- Remove the oil plug (1) and fill the drum with the right quantity and the type of oil according to the lubricant table.
- Refit the oil plug (1).



Switch off the engine and activate the parking brake.



Place a receptacle that will hold at least 7 liters (7.4 quarts) under the plug. Collect the oil and dispose of it properly.



Backup filter - Change

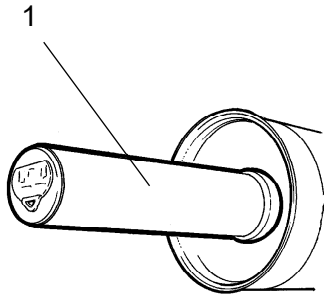


Fig. Air filter
1. Backup filter

Change the backup filter with a new filter after every third replacement of the main filter.

To change the backup filter (1), pull the old filter out of its holder, insert a new filter and reassemble the air cleaner in the reverse order.

Clean the air cleaner if necessary, see section Air cleaner - Cleaning.



Water tank - Cleaning

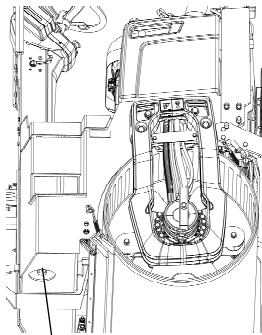


Fig. Water tank
1. Drain plug

Clean the tank with water and a suitable detergent for plastic surfaces.

Refit the filter housing or the drain plug (1). Fill with water and check for leaks.



The water tank is made of plastic (polyethylene) and are recyclable.

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