

Instruction manual

Operating & Maintenance

4812164601_B.pdf

Vibratory rollers CC1100C VI - CC1400C VI

Engine

Kubota D1703 / D1803 / V2203 / V2403

Models and PIN

CC1100C VI	(Stage IIIA (26 kW)	10000392xxA021396 -
CC1100C VI	(Tier 4f) (18.5 kW)	10000393xxA022045 -
CC1100C VI	(Tier 4f) (28 kW)	10000394xxA021673 -
CC1100C VI	(Stage V) (18.5 kW)	10000445xxA023696 -
CC1100C VI	(Stage V) (28 kW)	10000453xxA032654 -
CC1200C VI	(Stage IIIA (26 kW)	10000398xxA021518 -
CC1200C VI	(Tier 4f) (18.5 kW)	10000399xxA021830 -
CC1200C VI	(Tier 4f) (28 kW)	10000400xxA021646 -
CC1200C VI	(Stage V) (18.5 kW)	10000447xxA023516 -
CC1200C VI	(Stage V) (28 kW)	10000455xxA032884 -
CC1300C VI	(Stage IIIA (35 kW)	10000472xxA025504 -
CC1300C VI	(Tier 4f) (37 kW)	10000473xxA031801 -
CC1300C VI	(Stage V) (37 kW)	10000474xxA030899 -
CC1400C VI	(Stage IIIA (35 kW)	10000478xxA030196 -
CC1400C VI	(Tier 4f) (37 kW)	10000479xxA031685 -
CC1400C VI	(Stage V) (37 kW)	10000480xxA031590 -



Translation of original instruction

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The machine must be correctly maintained for maximal performance.

The machine should be kept clean so that any leakages, loose bolts and loose connections are discovered at as early a point in time as possible.

Do not spray with high-pressure cleaner directly onto gaskets and bearing spacings in steering hitch and drum, and electronics.

Inspect the machine every day, before starting. Inspect the entire machine so that any leakages or other faults are detected.

Check the ground under the machine. Leakages are more easily detected on the ground than on the machine itself.



THINK ENVIRONMENT ! Do not release oil, fuel and other environmentally hazardous substances into the environment. Always send used filters, drain oil and fuel remnants to environmentally correct disposal.

This manual contains instructions for periodic maintenance, where maintenance after every 10 and 50 hours of operation can be performed by the machine operator. Other maintenance intervals must be carried out by accredited (Dynapac) service personnel.



Additional instructions for the engine can be found in the manufacturer's engine manual.

Specific maintenance and checks on diesel engines must be performed by engine supplier authorized personnel.

CE marking and Declaration of conformity

(Applies to machines marketed in EU/EEC)

This machine is CE marked. This shows that on delivery it complies with the basic health and safety directives applicable for the machine in accordance with machinery directive 2006/42/EC and that it also complies with other regulations and directives applicable for this machine.


A "Declaration of conformity" is supplied with this machine, which specifies the applicable regulations and directives with supplements, as well as the harmonized standards and other regulations that are applied and according to the regulations must be declared in writing.

Battery handling


 **When removing batteries, always disconnect the negative cable first.**

 **When fitting batteries, always connect the positive cable first.**

 Dispose of old batteries in an environmentally friendly way. Batteries contain toxic lead.

 Do not use a quick-charger for charging the battery. This may shorten battery life.

Jump starting

 **Do not connect the negative cable to the negative terminal on the dead battery. A spark can ignite the oxy-hydrogen gas formed around the battery.**

 **Check that the battery used for jump starting has the same voltage as the dead battery.**

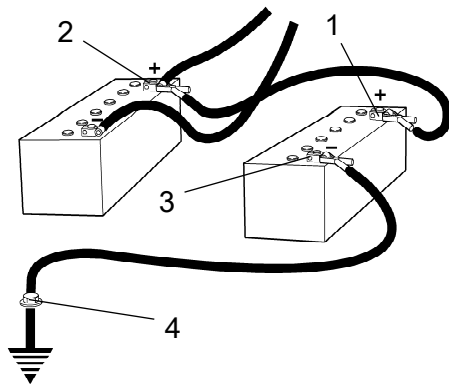


Fig. Jump starting

Turn the ignition and all power consuming equipment off. Switch off the engine on the machine which is providing jump start power.

First connect the jump start battery's positive terminal (1) to the flat battery's positive terminal (2). Then connect the jump start battery's negative terminal (3) to, for example, a bolt (4) or the lifting eye on the machine with the flat battery.

Start the engine on the power providing machine. Let it run for a while. Now try to start the other machine. Disconnect the cables in the reverse order.

General

Engine

Manufacturer/Model	Effect (SAE J1995)	Rpm
Kubota D1703-M-IDI E3B (Stage IIIA)	26.1 kW (35 hp)	2800 rpm
Kubota D1703-M-DI-E4B (Tier 4f / Stage V)	18.5 kW (25 hp)	2200 rpm
Kubota D1803-CR (Tier 4f / Stage V)	28.0 kW (38 hp)	2700 rpm
Kubota V2203-M-E3B (Stage IIIA)	35 kW (48 hp)	2700 rpm
Kubota V2403-CR-E4B (Tier 4f)	37 kW (50 hp)	2700 rpm
Kubota V2403-CR-E5B (Stage V)	37 kW (50 hp)	2700 rpm

CO₂-emission

CO₂-emissions measured according to applicable test cycle in Regulation (EU) 2016/1628.

Manufacturer/Model	Test-cycle	CO ₂ -emission (g/kWh)
Kubota D1703-M-DI-E4B (18.5 kW)	Stage V NRSC	938.3
Kubota D1803-CR-E5B (28 kW)	Stage V NRTC	858.7
Kubota D1803-CR-E5B (28 kW)	Stage V NRSC	802.7
Kubota V2403-CR-E5B (37 kW)	Stage V NRTC	833.0
Kubota V2403-CR-E5B (37 kW)	Stage V NRSC	789.1

NRTC: Non-road transient test cycles

NRSC: Non-road steady-state test cycles

Tires

Tire dimensions	640x240-15	
Air pressure (kPa)	100	14.5 psi

Electrical system

Battery	12V 74Ah
Alternator	12V 60A
Fuses	See the Electrical system section - fuses

Location - decals

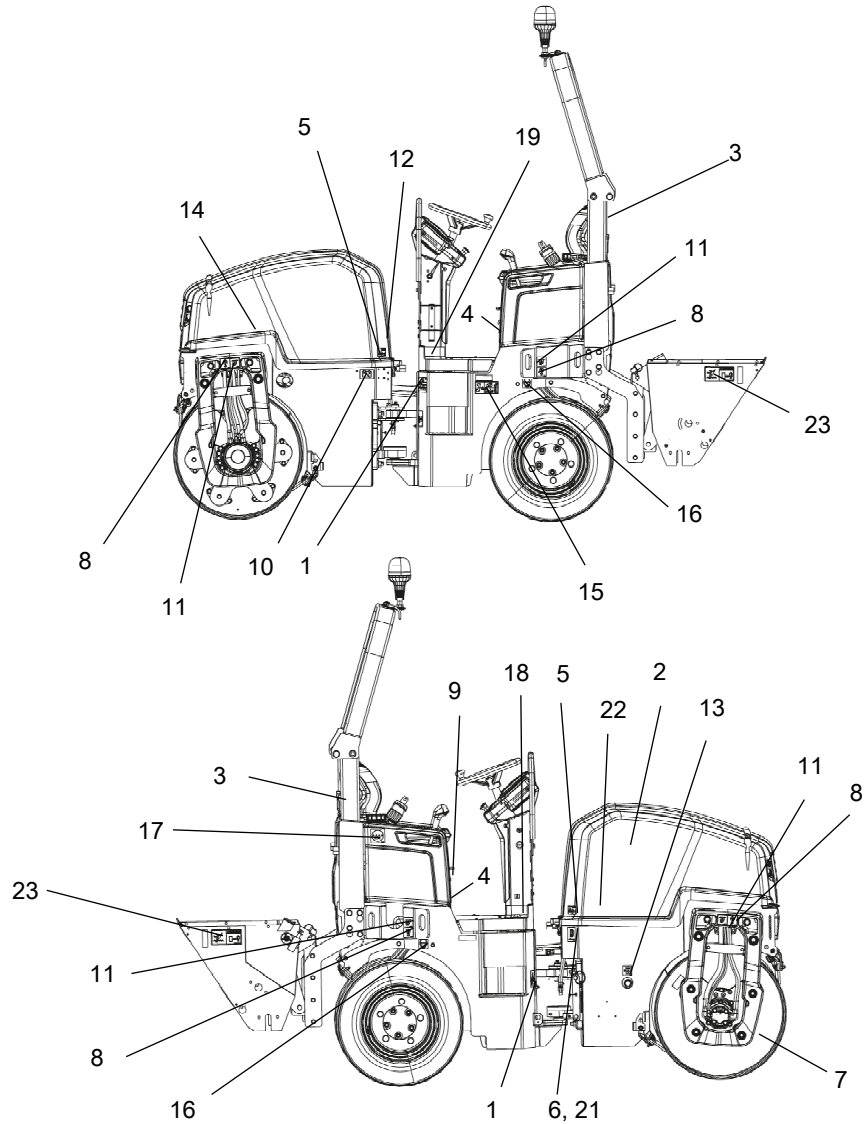
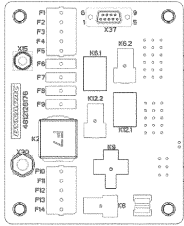


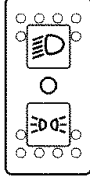
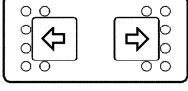

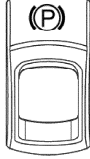
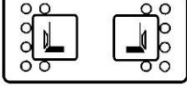


Fig. Location, decals and signs

1.	Warning, Crush zone	4700903422	13.	Hydraulic fluid level	4700272373
2.	Warning, Rotating engine components	4700903423	14.	Warning, Starting gas	4700791642
3.	Warning, Crushing risk	4700908229	15.	Warning, Locking during transport	4812125363
4.	Warning, Instruction manual	4700903459	16.	Air pressure	4812116992
5.	Warning, Hot surfaces	4700903424	17.	Water	4700991657
6.	Diesel fuel (Stage IIIA)	4700991658	18.	Sprinkler, Combi	4700791342
7.	Warning, edge cutter	4700904083	19.	Flow divider (optional)	4700355981
8.	Lifting point	4700357587	20.	Bio hydraulic fluid, Panolin	4700792772
9.	Manual compartment	4700903425	21.	Diesel fuel (T4f / Stage V)	4811000345
10.	Battery disconnecter	4700904835	22.	Fuel with ultra low sulphur content (T4f / Stage V)	4811000344
11.	Fixing point	4700382751	23.	Warning - Chip spreader, rotating components	4811000080
12.	Sound power level	4700791292			

Function description

No	Designation	Symbol	Function
5.	Throttle control		In forward position, the engine idles. In backward position, the engine runs at full speed.
8.	Seat switch		Remain seated at all times when operating the roller. If the operator stands up during operation, a buzzer sounds. After 4 seconds the brakes are activated and the engine stops.
9.	Fuse and relay holder (on control column)		Contains fuses for the electrical system. See under the heading 'Electrical system' for a description of fuse functions.
10.	Instrument cover		Lowered over the instrument plate to protect the instruments from the weather and sabotage. Lockable
12.	Hazard warning lights, switch (Optional)		When depressed, the hazard warning lights are on
13.	Driving lights, switch (Optional)		Upper position = Traffic lighting goes on Intermediate position = Lighting switched off Lower position = Parking light goes on
14.	Direction indicators, switch (Optional)		When depressed to the left, the left direction indicators are on etc. In the middle position the function is shut off.
15.	Emergency stop		When pressed, the emergency stop is activated. The engine switches off and the brakes are activated. Brace yourself for a sudden stop.
16.	Parking brake On/Off, switch		To activate the brakes, press the top of the switch to change the position of the lever. To disengage 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. Always use the parking brake when the machine is stationary on a sloping surface.
19.	Edge cutter, Right / Left (CC1300/C VI - CC1400/C VI)		Activate right or left edge cutter. Pressing right activates the right edge cutter. Pressing left activates the left edge cutter.

Level 3

If the symbol (1) on the display **Flashes, Red** warning lamp is lit and error code SPN 3701 / FMI 15 is launched in the error code list, a **Parked** regeneration is required.

Satisfy the conditions for **Parked** regeneration and perform this immediately.

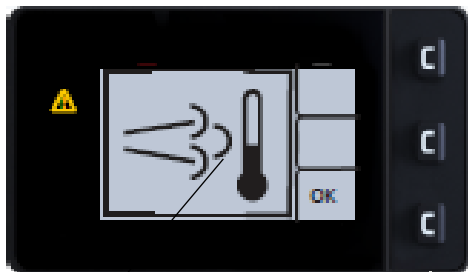
If not action is taken, the engine loses power.

Level 4

If the symbol (1) on the display **Flashes, Red (5)** warning lamp is lit and error code SPN 3701 / FMI 16 is launched in the error code list, a **Parked** regeneration is required. This can only be carried out with a Kubota service tool.

Level 5

If the symbol (1) on the display **Flashes, Red (5)** warning lamp is lit and error code SPN 3701 / FMI 00 is launched in the error code list, a full DPF filter service is required. This can only be carried out by an accredited Kubota representative.



7

Fig. Regeneration required
9. Elevated exhaust gas temperature
under regeneration

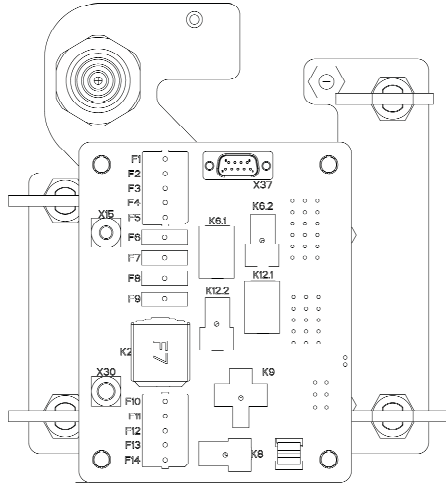
An **Automatic** regeneration can only occur when the machine is run and only on levels 1 and 2.

Symbol (9) is shown on the display during regeneration. This indicates an elevated exhaust gas temperature during an ongoing regeneration.

Electrical system

Fuses on machine

The figure shows the position of the fuses.



The table below gives fuse amperage and function. All fuses are flat pin fuses.

NOTE! The table below applies to machines that have been rebuilt according to Service Bulletin SB-20200519 2 - Ignition switch rebuild. For machines that have not been rebuilt, see previous revision of the manual.

Fig. Fuse box

Fuse box

1.	F1	Spare	-	9.	F8	Sprinkler	10A
2.	F2	Spare	-	10.	F9	Sprinkler pump combi*, Sprinkler pump switch combi*	10A
3.	F3	Display, Membrane panel, Parking brake switch	5A	11.	F10	Ignition switch, ECU	5A
4.	F4	FNR lever buttons, Seat switch, Sprinkler tank level warning, Asphalt temperature sensor*	5A	12.	F11	12V Outlet, ECU	15A
5.	F5	T3 Fuel lift pump, Alternator	3A	13.	F12	ECU	20A
6.	F5	Tier 4f, Stage V Fuel lift pump, Alternator, Water in fuel sensor, Air flow sensor, EGR	5A	14.	F13	Direction indicators*, Hazard light	10A
7.	F6	Working lights ROPS and water tank*, Flow divider*	10A	15.	F14	Driving lights*	15A
8.	F7	Working lights (frame) front / rear*, Edge presser up*	15A			*) Option	

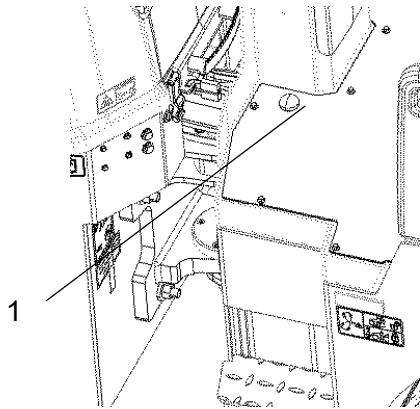


Fig. Operator platform
1. Flow divider switch

Flow divider (Optional)

The switch on the floor (to the left) must be pressed down to activate the flow divider.

The flow divider is enabled as long as the switch is actuated.

Remove your foot from the switch to disable the flow divider.

Starting

Starting the engine



The operator must remain seated when starting.

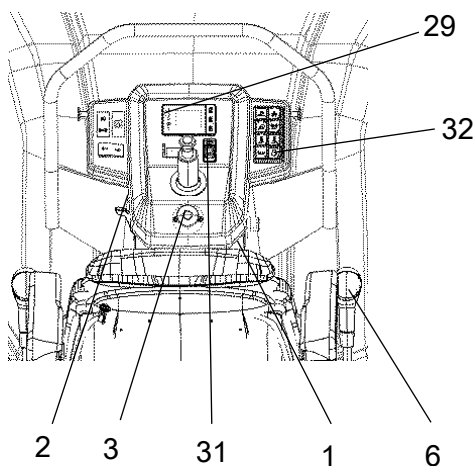


Fig. Control panel
1. Ignition key
2. Throttle control (D1703/V2203-M-E3B)
3. Emergency stop
6. Forward/Reverse lever
29. Glow lamp
31. Parking brake
32. Engine speed selector (D1803/V2403-CR-E4B/V2403-CR-E5B)

Make sure that the emergency stop (3) is pulled out and the parking brake (31) is activated.

Set the forward/reverse lever (6) in neutral. The engine can only be started when the lever is in neutral.



Do not run the starter motor for too long. If the engine does not start, wait a minute or so before trying again.

D1703 / V2203-M-E3B (Stage IIIA)

At high ambient temperatures, set the engine speed control (2) to the position just over idling.

On cold start, set the engine speed control to medium revs. Preheating: Turn the ignition key to position II. When the glow lamp (29) goes out: Turn the ignition key (1) to the right. As soon as the engine starts, release the ignition key and reduce the engine speed to just over idling (because high revs can damage a cold engine). As soon as the engine is running smoothly, reduce the revs down to idling.

Long-term parking

 The following instructions should be followed when long term parking (more than one month).

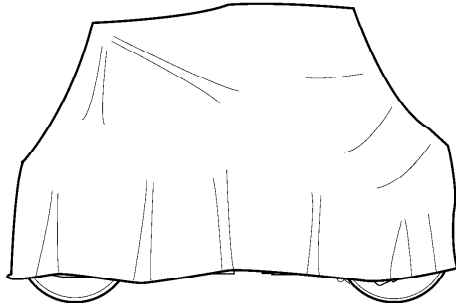


Fig. Roller weather protection

These measures apply when parking for a period of up to 6 months.

Before re-commissioning the roller, the points marked with an asterisk * must be returned to the pre-storage state.

Wash the machine and touch up the paint finish to avoid rusting.

Treat exposed parts with anti-rust agent, lubricate the machine thoroughly and apply grease to unpainted surfaces.

Engine

* Refer to the manufacturer's instructions in the engine manual that is supplied with the roller.

Battery

* Dismantle the battery/batteries from the machine, clean the outside and maintenance charge.

Air cleaner, exhaust pipe

* Cover the air cleaner or its opening with plastic or tape. Also cover the exhaust pipe opening. This is to avoid moisture entering the engine.

Fuel tank

Fill the fuel tank completely full to prevent condensation.

Hydraulic reservoir

Fill the hydraulic reservoir to the uppermost level mark (see under the heading 'Every 10 hours of operation.')

- 1 - 2 = double lashings, i.e. one lashing with two parts secured to two different lashing mounts on the trailer, symmetrically located on the right and left sides.
- 3 = rubber friction pads

The lashings' permitted distance interval in meters		
(1 - 2: Double lashings, LC at least 1.6 tonnes (1600 daN))		
Double L ₁	Double L ₂	
0.3 - 2.5	0.1 - 2.5	

L₁ - L₂ are the longitudinal distances between the lashing points on the roller and lashing points on the platform.

Load carrier

Ensure that:

- When loaded, the vibratory roller is centered laterally on the platform (± 5 cm).
- The parking brake is applied and in good working condition, and the articulated joint lock is closed.
- The drum is placed on a rubber liner, so that the static friction between the surfaces is at least 0.6.
- The contact surfaces must be clean, wet or dry, and free from frost, ice and snow. If there is a risk of frost, ice and/or snow the platform has to be salted.
- The lashing mounts on the load carrier have LC/MSL at least 2 tonnes.

Lashings

Ensure that:

- The lashings comprise a lashing strap or chain with a permitted load (LC/MSL) of at least 1.6 tonnes (1,600 daN) and the lashings are well pre-tensioned during the entire transport.
- Each of lashings 1-2 is either a double or two single lashings. A double lashing runs in a sling through a lashing point or around a machine part and down into two different mounts on the platform.
- Lashings in the same direction are placed in different lashing mounts on the trailer. Lashings that are pulled in opposite directions may be placed in the same lashing mount, however.
- The lashings are as short as possible.
- The lashing hooks must not lose grip if the lashings become slack.
- The lashings are protected against sharp edges and corners.
- The lashings are located symmetrically in pairs on the right and left sides.

Securing

CC1100/C VI - CC1200/C VI for loading (Side along the trailer)

Securing of two CC1100/C VI - CC1200/C VI vibratory rollers from Dynapac loaded side by side along a trailer for transport on road and in Baltic sea (Sea area A).

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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 authorization.

Every 1000 hours of operation

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

Pos. in fig	Action	Comment
5	Check the condition of the battery	
6	Change engine oil and oil filter	Refer to the engine manual
17	Check the oil level in the drum/drums	
10	Check the rubber elements and bolted joints	
11	Check the hydraulic reservoir cover/breather	
15, 16	Lubricate the articulated joint and the steering cylinder's bearings	
3	Check the freezing point of the coolant	Change every other year
4	Replace the air filters (main and backup filter)	or annually
6	Change the engine's fuel filter	Refer to the engine manual
6	Replace diesel engine's fuel prefilter / water separator	Refer to the engine manual
3	Check the cooler hoses and hose clamps	
1	Clean the fuel tank	
3	Clean the cooler package	
6	Check engine's valve clearances	Contact your local Kubota representative
	Checking air intake hoses and hose clamps	
	Change hydraulic fluid filter	
6	Replacing the diesel engine's V-belt	Refer to the engine manual

Every 1500 hours of operation (only Tier 4f / Stage V (28 kW) / Stage V (37 kW))

Refer to the contents to find the page number of the sections referred to!

Pos. in fig	Action	Comment
	Checking the spreader	Contact your local Kubota representative
	Checking the EGR cooler	Contact your local Kubota representative
	Replacing the oil separator	
	Checking the fuel injection pressure	Contact your local Kubota representative



Fuel tank - Filling

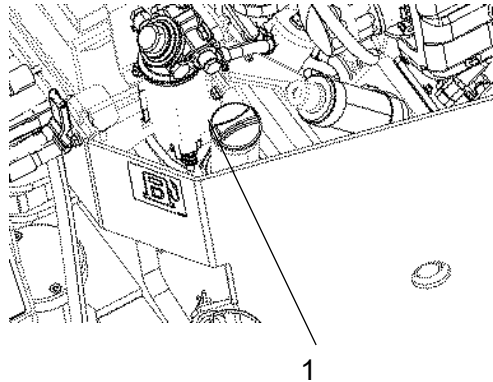


Fig. Fuel tank
1. Filler cap

Refuel the tank every day before starting work.

Open the engine hood, unscrew the tank cap (1) fill with diesel up to the lower edge of the filler pipe.

! Tier 4f and Stage V Kubota engines require the use of Ultra Low Sulphur Diesel (ULSD) fuel, which has a sulphur content of 15 ppm (parts per million) or less. Higher sulphur contents cause operating problems and put the useful life of components at risk, which can lead to engine trouble.

! **Stop the diesel engine. Short-circuit (press) the filler gun against a non-insulated part of the roller before refuelling, and against the filler pipe while refuelling.**

! **Never refuel while the engine is running. Do not smoke and avoid spilling fuel.**

The fuel tank holds

CC1100/C VI - CC1200/C VI: 46 liters (48.6 qts)

CC1300/C VI - CC1400/C VI: 60 liters (63.4 qts)



Water tank - Filling

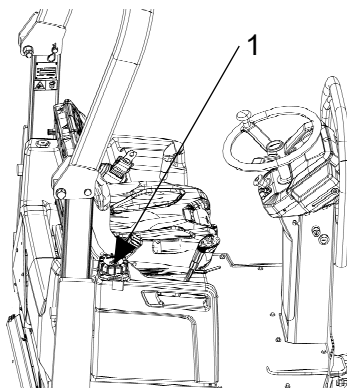


Fig. Water tank
1. Tank cap

! Unscrew the tank cap (1) and fill with clean water. Do not remove the strainer. See technical specifications for the tank volume.

♻️ Only additive: A small amount of environment-friendly antifreeze.



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.

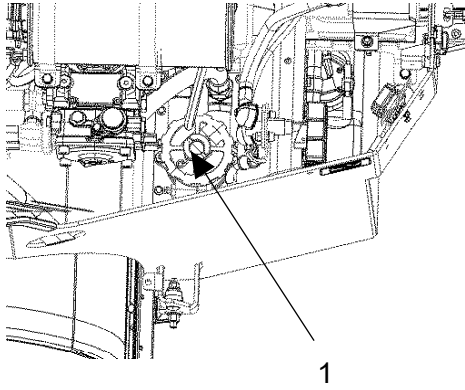


Fig. Engine compartment
1. Filler cap

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.

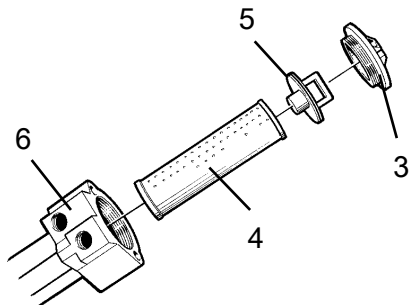
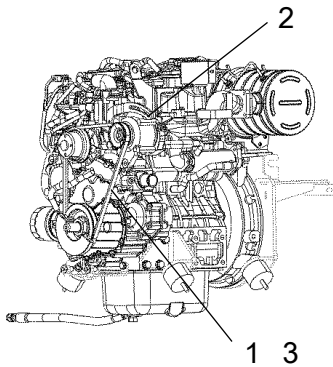


Fig. Hydraulic oil filter
3. Cap
4. Filter insert
5. Handle
6. Filter holder

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.



**Fig. Diesel engine -
D1803 (Tier 4f / Stage V)**
1. Belt
2. Bolt and nut
3. Deflection between 7 to 9 mm
(0.28 to 0.35 in.)

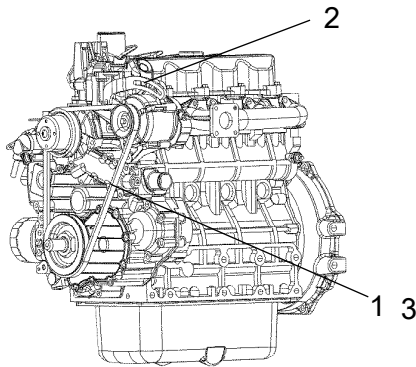
If the belt tension is not sufficient:

- Loosen the fastening bolts that hold the alternator in place.
- Use a prybar/lever and place it between the alternator and engine block.
- Push the alternator outwards to achieve the required belt tension.

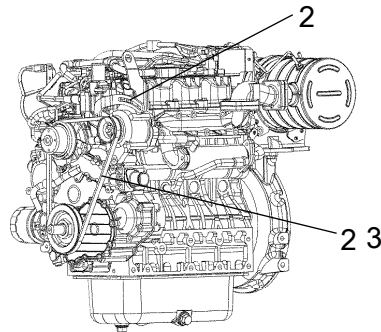
Tighten the bolts holding the alternator with the correct torque.



If the belt is loose or damaged, it may result in insufficient charging. Adjust or replace the belt.



**Fig. Diesel engine -
V2203-M (Stage IIIA)**
1. Belt
2. Bolt and nut
3. Deflection between 7 to 9 mm
(0.28 to 0.35 in.)



**Fig. Diesel engine -
V2403-CR (Tier 4f / Stage V)**
1. Belt
2. Bolt and nut
3. Deflection between 7 to 9 mm
(0.28 to 0.35 in.)

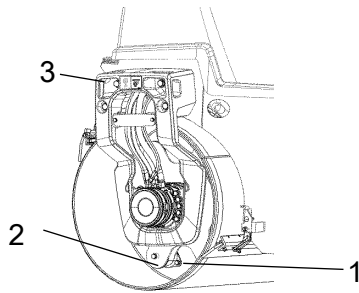


Fig. Drum end
1. Rubber element
2. Fastening screws
3. Bolted joints

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.

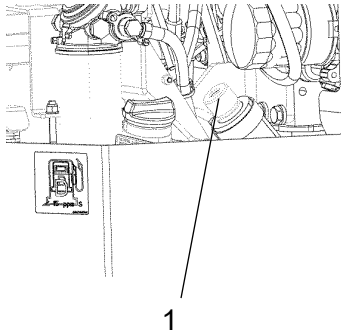


Fig. Engine compartment
1. Tank cap, hydraulic fluid

Hydraulic reservoir cap - Check

Screw off the tank cap (1) 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.

Maintenance - 1000h

Performed after 1000 operating hours (each year)



***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.***

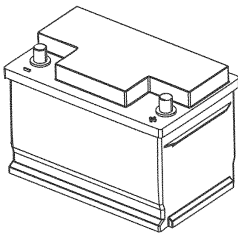


Fig. Battery

Battery

- Check condition

The battery is sealed and maintenance-free.



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 well-tightened. Corroded cable shoes should be cleaned and greased with acid-free Vaseline.

Wipe the top of the battery.



Replacing the fuel filter

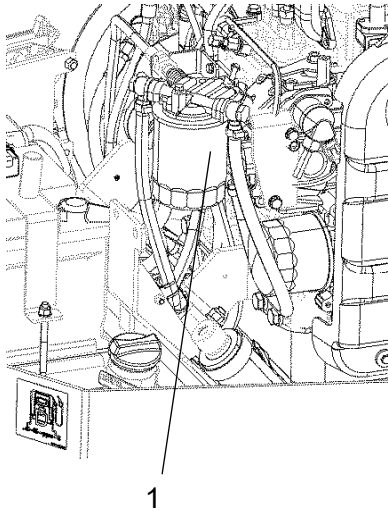


Fig. Engine compartment, right side
1. Fuel filter



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.



Replacing the pre-filter

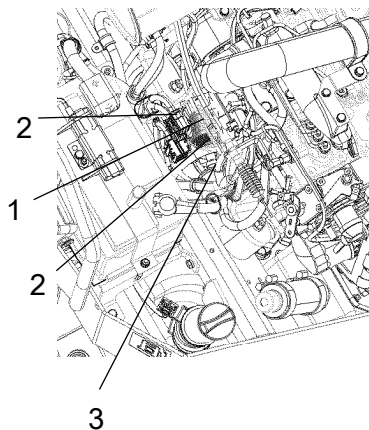
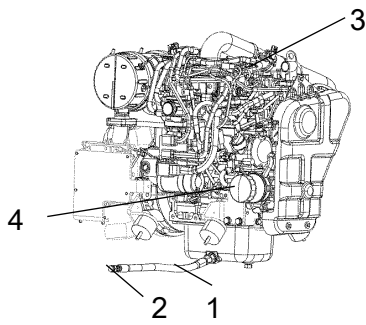


Fig. Engine compartment -
D1703-M-IDI-E3 (Stage IIIA) /
V2203-M-E3B (Stage IIIA)
1. Pre-filter
2. Hose clamps
3. Fuel pump

Activate the parking brake.
Switch off the engine and open the engine hood.



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



**Fig. Engine compartment, right side -
D1803-CR (Tier 4f / Stage V)**
1. Drainage hose
2. Drain plug
3. Filler cap
4. Oil filter

Remove the oil filter (4).

Collect any spillage.

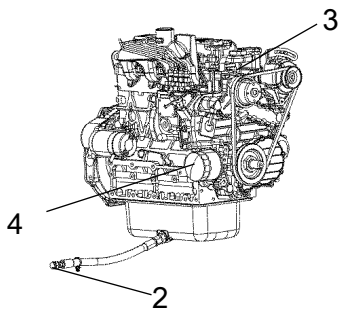
Install the new filter.

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

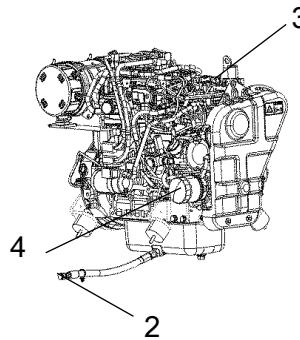
Fill with fresh engine oil. See under the heading lubricants, for the correct oil grade. Fit the filler cap (3) and check that the oil level is correct using the dipstick.

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.



**Fig. Engine compartment right side -
V2203-M (Stage IIIA)**
2. Drain plug
3. Filler cap
4. Oil filter



**Fig. Engine compartment right side -
V2403-CR (Tier 4f / Stage V)**
2. Drain plug
3. Filler cap
4. Oil filter



Emulsion tank - Draining

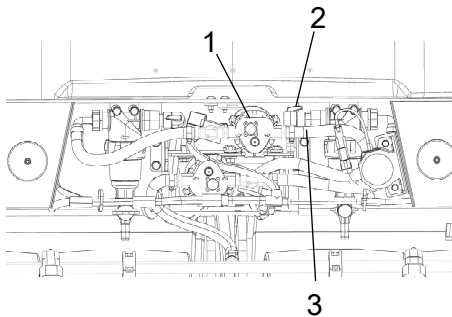


Fig. Pump system
1. Water pump
2. Hose clamps
3. Draining hose

The tank is drained by first opening the rear cover.

There is a water pump (1) on the right-hand side, inside the cover. Loosen the drainage hose (3) located on the adapter by loosening the hose clip (2).

Turn the drainage hose downward and outward, place a container below this on the ground and let the water drain out.

When cleaning the tank, see Water tank - Cleaning.



The Emulsions tank is made of plastic (polyethylene), and is recyclable.



Remember that there is a risk of freezing during the winter. Drain the tank, pump, filter and lines, or mix antifreeze in the water.



Water tank - Draining

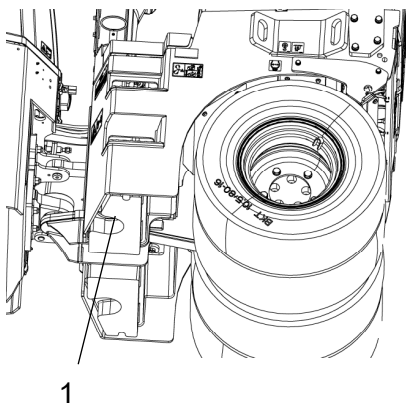


Fig. Water tank
1. Drain plug



Remember that there is a risk of freezing during the winter. Empty the tank, pump and lines.

Remove the drain plug (1) and allow all the water to run out. Wipe clean the drain plug and screw back in.

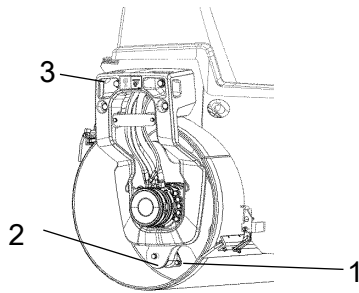


Fig. Drum end
1. Rubber element
2. Fastening screws
3. Bolted joints

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.

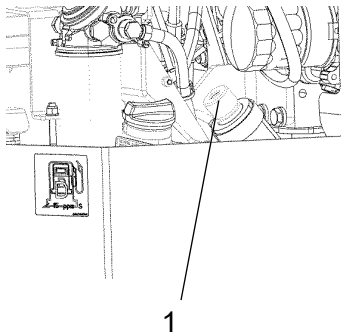


Fig. Engine compartment
1. Tank cap, hydraulic fluid

Hydraulic reservoir cap - Check

Screw off the tank cap (1) 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.

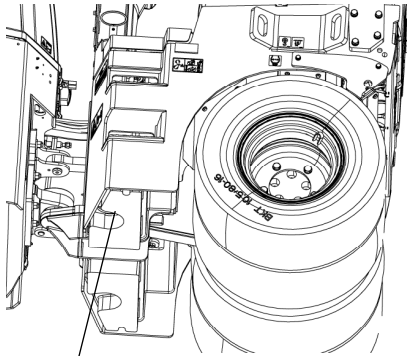


Water tank - Draining



Remember that there is a risk of freezing during the winter. Empty the tank, pump and lines.

Remove the drain plug (1) and allow all the water to run out. Wipe clean the drain plug and screw back in.



1

Fig. Water tank
1. Drain plug



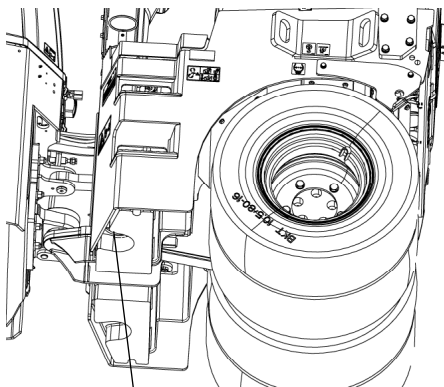
Water tank - Cleaning

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.



1

Fig. Water tank
1. Drain plug

Checking - Diesel engine valve clearance

Contact your local Kubota representative for this service

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