

# Instruction manual

## Operating & Maintenance

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**Vibratory roller  
CC1300**

**Engine  
Kubota V2203-M-E3B**

**Serial number  
10000334x0A012586 -**



Translation of original instruction

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## Introduction

### The machine

Dynapac CC1300 is a self-propelled vibratory tandem roller in the 4 metric tonnes class featuring 1300 mm wide drums. The machine is equipped with drive, brakes, and vibration on both drums.

### Intended use

CC1300 has primarily been designed for the compaction of asphalt, but has excellent compaction capacity for reinforcement layers and bearing courses. The roller is mainly intended for compacting asphalt on streets and minor roads in towns. It has sufficient capacity to follow a small asphalt paver.

### Warning symbols



**WARNING !** Marks a danger or a hazardous procedure that can result in life threatening or serious injury if the warning is ignored.



**CAUTION !** Marks a danger or hazardous procedure that can result in damage to the machine or property if the warning is ignored.

### Safety information



**It is recommended to at least train operators in handling and daily maintenance of the machine in accordance with the instruction manual. Passengers are not allowed on the machine, and you must sit in the seat when operating the machine.**




**The safety manual supplied with the machine must be read by all roller operators. Always follow the safety instructions. Do not remove the manual from the machine.**

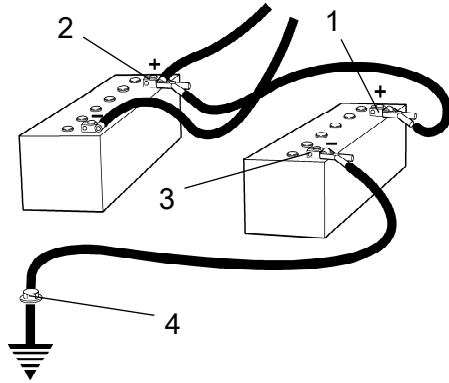


**We recommend that the operator reads the safety instructions in this manual carefully. Always follow the safety instructions. Ensure that this manual is always easily accessible.**

### 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.**

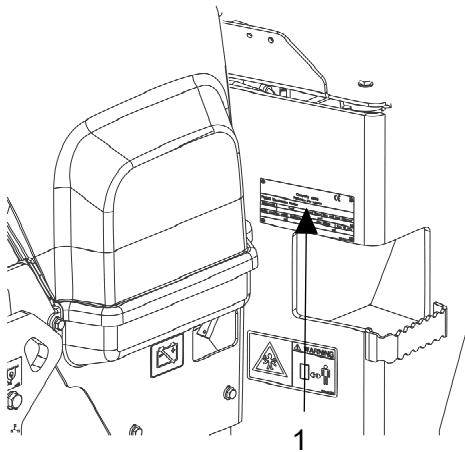


**Fig. Jump starting**

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.






**Fig. Operator platform**  
**1. Machine plate**

**Machine plate**

The machine type plate (1) is affixed on the left front edge of the operator's platform.

The plate specifies the manufacturer's name and address, the type of machine, the PIN number (serial number), service weight, engine power and year of manufacture. If the machine is delivered outside of the EU, the plate may not have a CE marking and the year of manufacture.

					
Dynapac Compaction Equipment AB Box 504, SE-371 23 Karlskrona Sweden					
Product Identification Number		XXXXXXXXXXXXXXXXXX			
Designation	Type	Rated Power	Max axle load front / rear		
XXXXXX	XXXXXX	XXX kW	XXXXXXXX kg		
Gross machinery mass	Operating mass	Max ballast	[Date of Mfg]		
XXXX kg	XXXX kg	XXXX kg	XXXX		
Made in Sweden					
<small>4017 0001 03</small>					

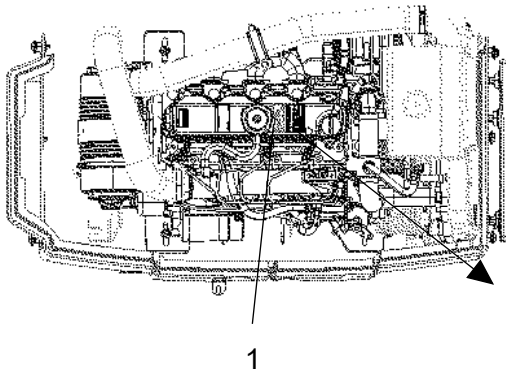
**Please state the machine's PIN (serial number) when ordering parts.**

**Engine plates**

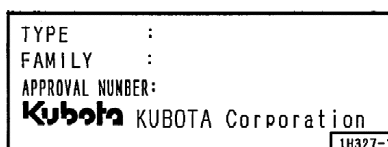
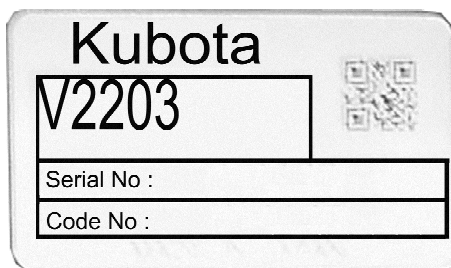
The engine's type plate (1) is located on top of the cylinder head cover.

The plate specifies the type of engine, its serial number and the engine specification.







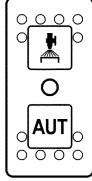
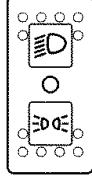
**Please specify the engine serial number when ordering spares. Refer also to the engine manual.**



**Fig. Engine**  
**1. Type plate**



## Function description

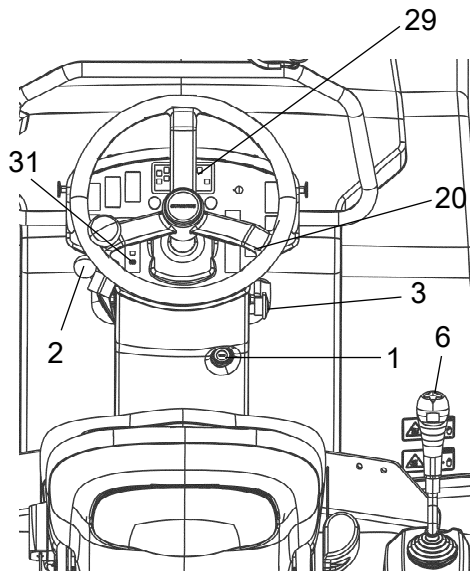
No	Designation	Symbol	Function
1.	Starter switch		<p>Positions 1-2: Shut off position, key can be removed.</p> <p>Position 3a: All instruments and electric controls are supplied with power.</p> <p>Position 3b: Glowing. Hold the starter switch in this position until the lamp goes out. The starter motor is activated in the next position.</p> <p>Position 3c: Starter motor activation.</p>
2.	Throttle control		<p>In forward position, the engine idles. In backward position, the engine runs at full speed.</p>
3.	Emergency stop		<p>When pressed, the emergency stop is activated. The engine switches off and the brakes are activated. Brace yourself for a sudden stop.</p>
4.	Vibration On/Off. Switch		<p>Press once and release to switch vibration on. Press again to switch the vibration off.</p>
5.	Handbook compartment		<p>Pull up and open the top of the compartment for access to handbooks.</p>
6.	Forward/Reverse lever		<p>The engine can only be started when the lever is in neutral. The engine will not start if the forward/reverse lever is not in the neutral position. Direction of travel and speed of the roller is regulated with the forward/reverse lever. Move the lever forward to drive the roller forwards, etc. The speed of the roller is proportional to the distance of the lever from the neutral position. The further the lever is from the neutral position, the higher the speed.</p>
7.	Seat switch		<p>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.</p>
8.	Fuse box (on control column)		<p>Contains fuses for the electrical system. See under the heading 'Electrical system' for a description of fuse functions.</p>
9.	Instrument cover		<p>Lowered over the instrument plate to protect the instruments from the weather and sabotage. Lockable</p>
12.	Sprinkler, switch (Optional)		<p>Upper position = switching on of flow of water to drum. Intermediate position = Sprinkling switched off Lower position = switching on of water to drum via forward/reverse lever. The flow of water can be controlled by means of the sprinkler timer (13).</p>
13.	Sprinkler timer (Optional)		<p>Variable adjustment of water flow from 0-100%. Only works when AUTO (12) is pressed in.</p>
14.	Driving lights, switch (Optional)		<p>Upper position = Traffic lighting goes on Intermediate position = Lighting switched off Lower position = Parking light goes on</p>

## Starting

### Starting the engine



**The operator must remain seated when starting.**



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.

Set the vibration switch (20) for manual/automatic vibration in (position O).



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

**Figure. Control panel**

- 1. Starter switch**
- 2. Throttle control**
- 3. Emergency stop**
- 6. Forward/Reverse lever**
- 20. Vibration switch man/auto**
- 29. Glow lamp**
- 31. Parking brake**

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

Set the throttle control (2) to full speed when starting a cold engine. Preheating: Turn key to position II. When the glow lamp (29) goes off: Turn the starter switch (1) to the right. As soon as the engine starts, release the starter switch 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.

Warm up the engine at idling speed for a few minutes, although longer if ambient temperature is below +10°C (50°F).

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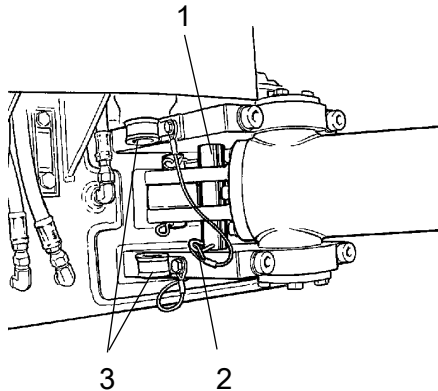
## Miscellaneous

### Lifting

#### Locking the articulation



**Before lifting the roller the steering joint must be locked to prevent it turning.**



**Fig. Left side of steering joint**

- 1. Lock bar**
- 2. Lock pin**
- 3. Holder**

Turn the steering wheel to the straight ahead position.

Switch off the machine and activate the parking brake.

Pull down the galvanized lock bar (1) from its holder (3), and place it from underneath in the hole on the lower steering joint bracket. Press the bar through until the upper end is visible in the hole on the upper steering joint bracket.

Secure the bar with the lock pin (2).

Weight: refer to the hoisting plate on the roller

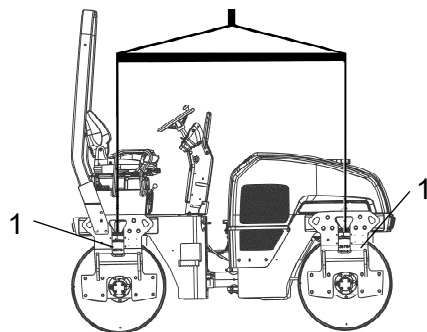
#### Lifting the roller



**The weight of the machine is shown on the lifting plate (1). See also Technical specifications.**



Lifting equipment such as chains, steel wires, straps and lifting hooks must be dimensioned in accordance with the relevant safety regulations for the lifting equipment.



**Fig. Lifting the roller**

- 1. Lifting plate**



**Stand well clear of the hoisted machine! Make sure that the lifting hooks are properly secured.**

### 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.

## Service - Checklist

Pos	Action	Every 10 hours of operation (Daily)	After the FIRST 50 hours of operation (Weekly)	Every 50 hours of operation	Every 750 hours of operation	Every 1000 hours of operation	Every 1250 hours of operation	Every 1500 hours of operation	Every 1750 hours of operation	Every 2000 hours of operation	Every 24th month	NOTE
3	Clean the outside of the radiator core	<input type="checkbox"/>										In duty environments, as necessary
4	Check coolant level	<input type="checkbox"/>										Refer to the engine manual
6	Check the engine oil level	<input type="checkbox"/>										
14	Check fluid level in hydraulic reservoir	<input type="checkbox"/>										
3	Check for free circulation of cooling air	<input type="checkbox"/>										
1	Refuel	<input type="checkbox"/>										
7	Fill the water tank	<input type="checkbox"/>										
8/21	Check the sprinkler system	<input type="checkbox"/>										
9/22	Check the scraper setting	<input type="checkbox"/>										
19	Test the brakes	<input type="checkbox"/>										
22	Check spring loaded scrapers	<input type="checkbox"/>										Option
6	Replace the engine's fuel filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Refer to the engine manual
6	Change the engine's pre-filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Refer to the engine manual
13	Change the hydraulic fluid filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10	Check rubber elements and bolted joints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Clean/Change the air cleaner filter element	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Check that hoses and couplings are not leaking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15	Grease the steering joint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16	Grease the steering cylinder brackets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	Change the engine oil and oil filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Refer to the engine manual
5	Check the battery condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18	Check the oil level / Change oil in the drums	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11	Check the hydraulic reservoir cover/breather	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	Lubricate controls and joints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	Check engine's V-belt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Refer to the engine manual
3	Check coolant freezing point/Change coolant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12	Drain the condensate from hydraulic reservoir	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	Check the engine's toothed belt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Refer to the engine manual
6	Check engine's valve clearance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Refer to the engine manual
12	Change the hydraulic fluid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Drain and clean the water tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23	Drain and clean the emulsions tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1	Drain and clean the fuel tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Check the condition of the articulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Check       Change

**Maintenance - 50h**

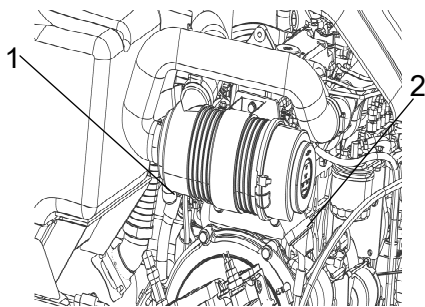
Every 50 hours of operation (Weekly)



***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.***

**Air cleaner indicator**

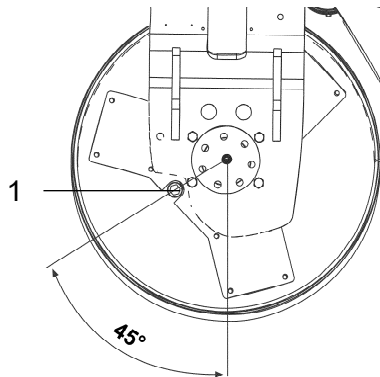
**Fig. Air cleaner**  
**1. Indicator**  
**2. Main filter**

If the indicator (1) on the air cleaner turns red, replace the main filter (2) on the air cleaner. The dust pouch is emptied by pressing the rubber bellows with your fingers. Check also that the air hoses are in good condition.

Clean the air cleaner when operated in extremely dusty environments.

**Air cleaner  
Check - Replacement of main filter**

Replace the air cleaner's main filter when the indicator shows red. The indicator is mounted on the air cleaner's connecting pipe.



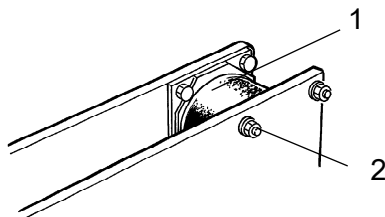
**Fig. Drum, drive side**  
1. Oil plug

### Drum - oil level Inspection - filling

Run the roller slowly until the oil plug (1) is aligned with the semicircular recess in the drum suspension.

Unscrew the plug and check that the oil level reaches up to the bottom of the hole. Top up with new oil if necessary. Use oil as specified in the lubricants specification.

Clean the magnetic oil plug (1) from any metallic residue, and refit the plug.



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

### Rubber elements and attachment screws 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.



### 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.



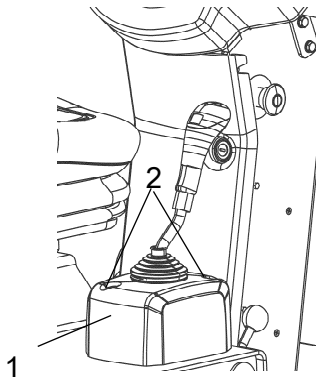
***Wear protective goggles when working with compressed air.***



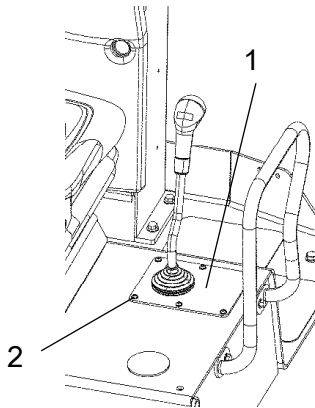
### Controls - Lubrication

Lubricate the forward/reverse lever mechanism.

Remove the cover/plate (1) by loosening the screws (2) on the top, and lubricate the mechanism under the cover/plate with oil.



**Fig. Forward/Reverse lever**  
**1. Cover**  
**2. Attachment screws**



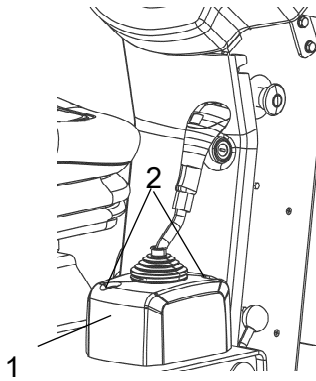
**Fig. Forward/Reverse lever**  
**1. Plate**  
**2. Attachment screws**



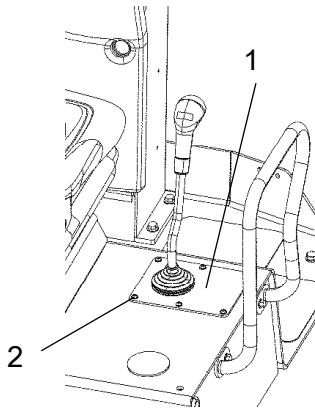
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