

# Instruction manual

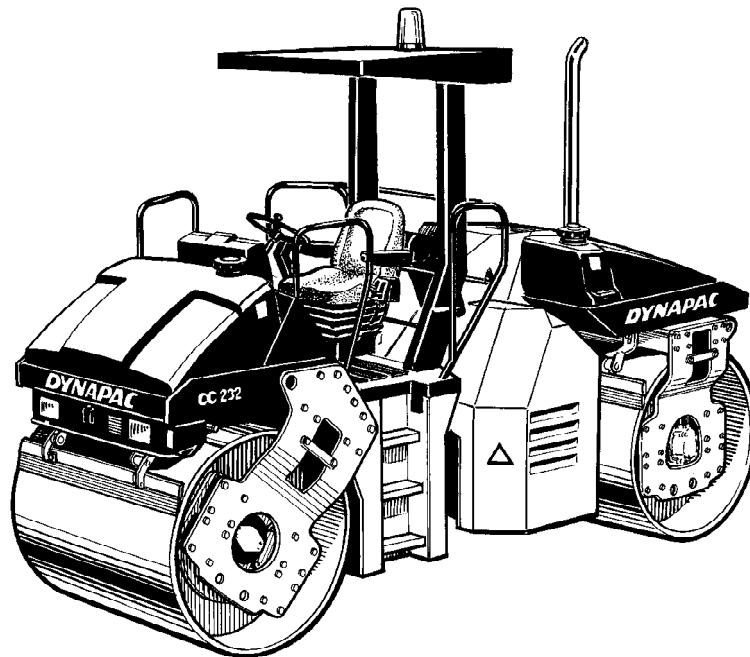
**ICC222HF-3EN2.pdf**

**Operation & Maintenance**

**Vibratory roller  
CC222HF**

**Engine  
Deutz BF04 2011 / TD2011 L04 I**

**Serial number  
\*61712100\* -**



Dynapac CC222HF is a 7.5-ton class vibratory roller, with articulated steering and brakes and vibration on both drums.

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## Introduction


### 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

 **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.**

 **Read the entire manual before starting the machine and before carrying out any maintenance.**

 **Ensure good ventilation (extraction of air by fan) where the engine is run indoors.**

#### CALIFORNIA

#### Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

### General

This manual contains instructions for machine operation and maintenance.

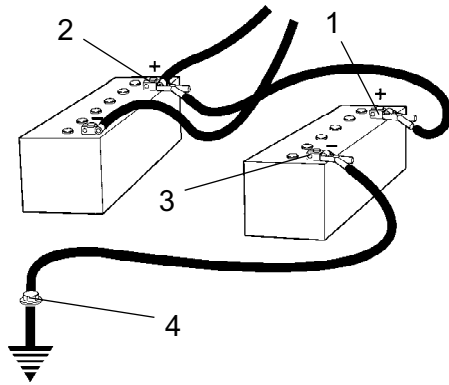
### Jump starting



**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.

**Technical specifications - General**

**Engine**

Manufacturer/Model	Deutz BF04L 2011 / TD2011 L04 I	
Power (SAE J1995)	60 kW	82 hp
Engine speed	2800 / 2600 rpm	

**Electrical system**








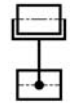
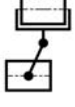









Battery	12V 170Ah
Alternator	12V 80A
Fuses	See the Electrical system section - fuses

**Tightening torque**

Tightening torque in Nm for oiled, bright galvanized bolts tightened using a torque wrench.

**STRENGTH CLASS**

M - thread	8.8	10.9	12.9
M6	8,4	12	14,6
M8	21	28	34
M10	40	56	68
M12	70	98	117
M16	169	240	290
M20	330	470	560
M24	570	800	960
M30	1130	1580	1900
M36	1960	2800	-

No	Designation	Symbol	Function
4	Hazard beacon, switch		Turn to the right to switch on the hazard beacon.
5	Direction indicator, switch		Turn to the left to switch on the left direction indicators etc. The direction indicators are off in the middle position.
6	Hazard warning lights, switch		Turn the switch to the right to turn on the hazard warning lights.
7	Main/dipped beam switch with control lamp		In the right position, the switch lights and the main beam is on. In the left position, the dipped beam is on.
8	Forward working lights, switch	  	Lights off. Parking lights on Front working lights on
9	Pivotal steering, On/Off, switch		In the left position, the pivotal steering is switched off In the right position, the the pivotal steering is switched on
10	Control lamp, drum position		The lamp indicates that the sides of the drums are not aligned.
11	Voltmeter		Shows electrical system voltage. Normal range is 12-15 volts.
12	Temperature gauge, hydraulic fluid		Shows hydraulic fluid temperature. Normal temperature range is 65°-80°C (149°-176°F). Stop the engine if the gauge shows a temperature of more than 85°C (185°F). Locate the fault.
13	Temperature gauge, engine oil		Shows the engine oil temperature. Normal temperature is around 95°C (194°F). Stop the engine if the gauge shows a temperature of more than 120°C (248°F). Locate the fault.
14	Engine speed / Frequency meter		The inner scale shows current engine speed. The outer scale shows vibration frequency for the rear or front drum.
15	Speedometer		The outer scale shows speed in km/h. The inner scale shows speed in mph.
16	Fuel gauge		Shows level in the fuel tank.
17	Water gauge		Shows level in the rear water tank.
18	Water gauge		Shows level in the front water tank.
19	Sprinkler, edge cutter, switch		In the left position, watering is off.

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## Operation - Starting

### Before starting

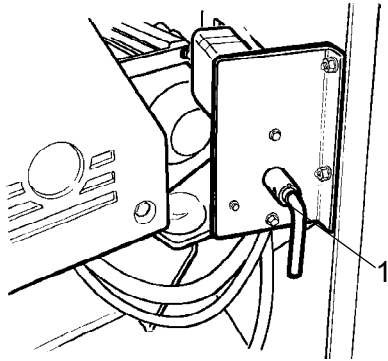
#### Master switch - Switching on

Remember to carry out daily maintenance. Refer to the maintenance instructions.

The master switch is located in the engine compartment. Turn the key (1) to the on position. The entire roller is now supplied with power.



**The engine hood must be unlocked when operating, so that the battery can be quickly disconnected if necessary.**



**Fig. Battery space (left engine door)**  
1. Master switch

#### Control unit, operator's seat - Adjusting

The control unit has three adjustment options, transverse travel, rotation and steering column angle.

For transverse travel, raise the inner lever (1), which releases the catch.

For rotation, lift the outer lever (2). Ensure that the control unit locks in position before operating the machine.

Release locking lever (3) to adjust the steering column. Lock in the new position.

The seat can be adjusted as follows: - Length adjustment (4)

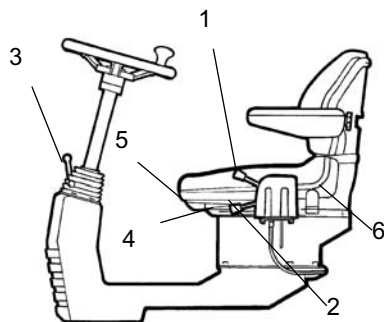
- Backrest inclination (5)
- Weight adjustment (6)



**Adjust all settings when the machine is stationary.**



**Always ensure that the seat is in locked position before operating the roller.**



**Fig. Operator position**  
1. Locking lever - transverse travel  
2. Locking lever - rotation  
3. Locking lever - steering column angle  
4. Locking lever - length adjustment  
5. Lever - backrest inclination  
6. Lever - weight adjustment

## Operating - Stopping

### Braking

#### Emergency brake

Braking is normally activated using the forward/reverse lever. The hydrostatic transmission retards and slows the roller when the lever is moved towards the neutral position.

A disc brake in each drum motor acts as an emergency brake when in motion and as a parking brake when stationary.



**To brake, press the emergency/parking brake knob (1), hold the steering wheel firmly and be prepared for a sudden stop.**

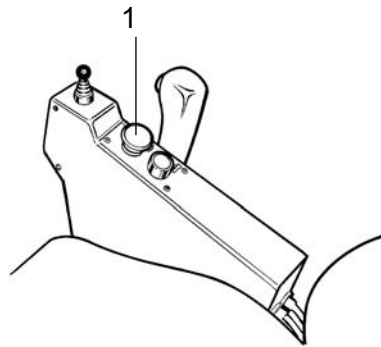


Fig. Control panel  
1. Emergency brake/parking brake knob

After braking, return the forward/reverse lever to the neutral position and pull up the emergency/parking brake knob.

#### Normal braking

Press the switch (1) to switch off the vibration.

Move the forward/reverse lever (2) to the neutral position to stop the roller.

Even when stopping briefly, always depress the emergency/parking brake knob (3) when stopping on sloping ground.

Turn the engine speed control back to idling. Allow the engine to idle for a few minutes to cool down.



**When starting and driving a machine that is cold, remember that the hydraulic fluid is also cold and that braking distances can be longer than normal until the machine reaches the working temperature.**

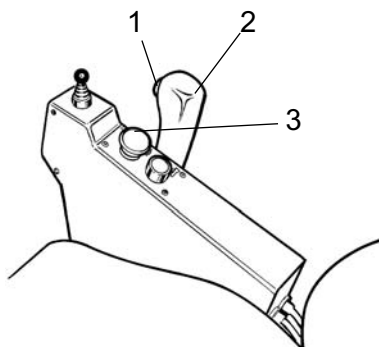
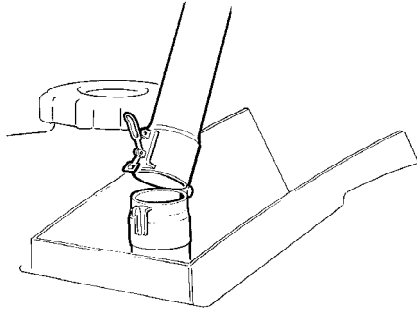


Fig. Control panel  
1. Vibration On/Off switch  
2. Forward/Reverse lever  
3. Emergency/parking brake knob

### Folding exhaust pipe (Optional)

The roller can be equipped with a foldable exhaust pipe.



*Fig. Folding exhaust pipe*



***Before starting to work on the foldable exhaust pipe, make sure that it is not hot. Take great care and use gloves.***



***Risk of being crushed when raising or lowering the exhaust pipe.***

### Every 2000 hours of operation (Yearly)

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

<b>Pos. in fig</b>	<b>Action</b>	<b>Comment</b>
15	Change the hydraulic fluid	
8	Change the oil in the drums	
9	Drain and clean the fuel tank	
5	Drain and clean the water tanks	
10	Check the condition of the articulation	
	Overhaul the air conditioning	Optional



### Main filter - Cleaning with compressed air

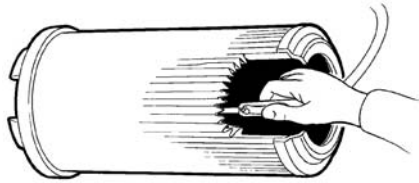


Fig. Main filter

When cleaning the air filter, use compressed air with a maximum pressure of 5 bars. Blow air up and down along the paper pleats on the inside of the filter.

Hold the nozzle at least 2-3 cm (0.8-1.2 in) away from the paper pleats so that the paper is not torn by the air pressure.



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

Wipe the inside of the cover (2) and the filter housing (5) clean. See the previous illustration.



Check that the hose clamps between the filter housing and the suction hose are tight and that the hoses are intact. Inspect the entire hose system, all the way to the engine.



Change the main filter after 5 cleanings or more frequently.



### Backup filter - Change

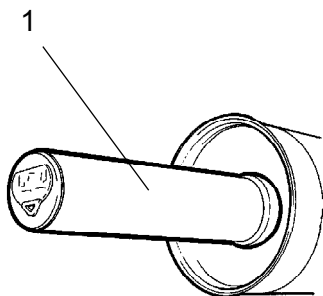
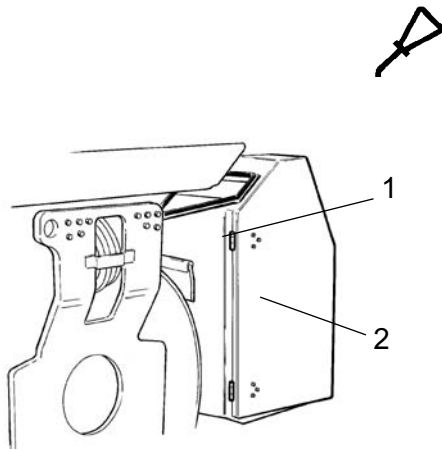


Fig. Air filter  
1. Backup filter

Change the backup filter with a new filter after every fifth replacement or cleaning of the main filter.

The back-up filter cannot be cleaned.

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.



**Fig. Engine compartment**  
**1. Hinges**  
**2. Control cables**

### **Hinges, controls - Lubrication**

Lubricate both hinges (1) on the engine compartment doors until the grease penetrates into the hinge.

If the machine has a cab, lubricate the cab door hinges in the same way.

Also lubricate the hinges on the front and rear lamp covers with a few drops of oil.

Lubricate the forward/reverse control cables alongside the hydraulic pump control arm. Apply a few drops of oil to the control sleeve opening.

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