

Instructions manual

ICA250-IN5EN1.pdf
Driving & Maintenance

Vibratory roller
CA250

Engine
Cummins 4BT 3.9 102C

Serial number
10000127x0E000001 -



Translation of original instruction

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Safety - General instructions

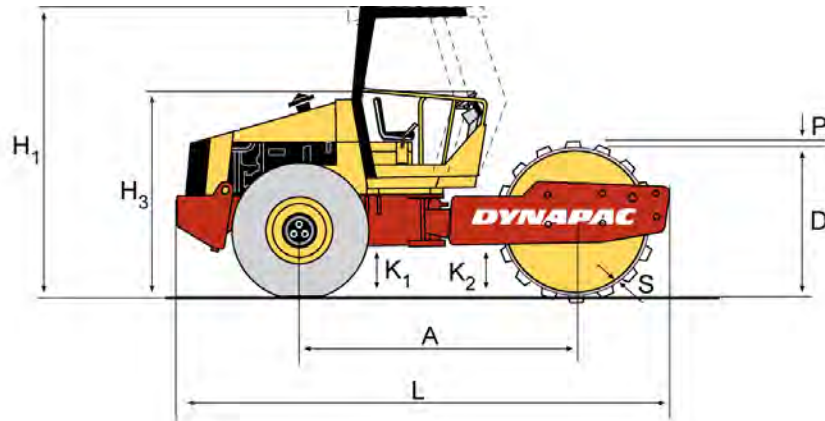
(Also read the safety manual)



1. **The operator must be familiar with the contents of the OPERATION section before starting the roller.**
2. **Ensure that all instructions in the MAINTENANCE section are followed.**
3. **Only trained and/or experienced operators are to operate the roller. Passengers are not permitted on the roller. Remain seated at all times when operating the roller.**
4. **Never use the roller if it is in need of adjustment or repair.**
5. **Only mount and dismount the roller when it is stationary. Use the intended grips and rails. Always use the three-point grip (both feet and one hand, or one foot and both hands) when mounting or dismounting the machine. Never jump down from the machine.**
6. **The ROPS (Roll Over Protective Structure) should always be used when the machine is operated on unsafe ground.**
7. **Drive slowly in sharp bends.**
8. **Avoid driving across slopes. Drive straight up or straight down the slope.**
9. **When driving close to edges, ditches or holes, make sure that at least 2/3 of the drum width is on previously compacted material (solid surface).**
10. **Make sure that there are no obstacles in the direction of travel, on the ground, in front of or behind the roller, or overhead.**
11. **Drive particularly carefully on uneven ground.**
12. **Use the safety equipment provided. The seat belt must be worn on machines fitted with ROPS.**
13. **Keep the roller clean. Clean any dirt or grease that accumulates on the operator platform immediately. Keep all signs and decals clean and legible.**
14. **Safety measures before refueling:**
 - **Shut off the engine**
 - **Do not smoke**
 - **No naked flame in the vicinity of the machine**
 - **Ground the filling device nozzle to the tank to avoid sparks**
15. **Before repairs or service:**
 - **Chock the drums/wheels and under the strike-off blade.**
 - **Lock the articulation if necessary**

Technical specifications - Dimensions

Dimensions, side view



	Dimensions	mm	in
A	Wheelbase, drum and wheel	2879	113,3
L	Length, standard equipped roller	5550	218,5
H1	Height, with ROPS (STD, D)	2952	116,2
H1	Height, with cab (STD, D)	2952	116,2
H3	Height, without ROPS/cab (STD, D)	2190	86,2
D	Diameter, drum	1523	60
S	Thickness, drum sweep, nominal	25	0,98
K1	Clearance, tractor frame	453	17,8
K2	Clearance, drum frame (STD, D)	400	15,7

Machine plate - Identification

Product identification number on the frame

The machine PIN (product identification number) (1) is punched on the right edge of the front frame or the upper edge of the right frameside.

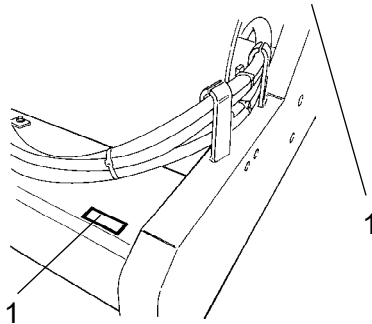


Fig. Front frame
1. PIN

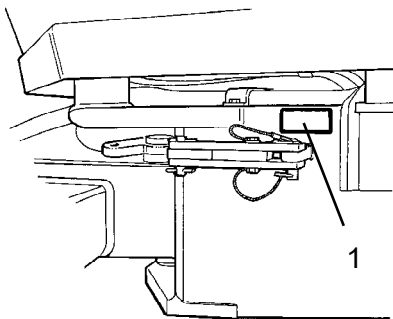


Fig. Operator platform
1. Machine plate

Machine plate

The machine type plate (1) is attached to the front left side of the frame, beside the steering joint.

The plate specifies the manufacturers name and address, the type of machine, the PIN product identification number (serial number), operating weight, engine power and year of manufacture. (If the machine is supplied to outside the EU, there are no CE markings and in some cases no year of manufacture.)

DYNAPAC			
Atlas Copco (India) LTD			
Plot No. 90, MIDC, Satpur, Nashik - 422007, India			
Product Identification Number			
Type	Rated Power	Max. safe load front / rear	
	kw	kg	
Gross machinery mass	Operating mass	Max. ballast	Year of Mfg.
kg	kg	kg	
			0011 0011 01

Fig. Machine plate

Please state the machine's PIN when ordering spares.

Controls in the cab

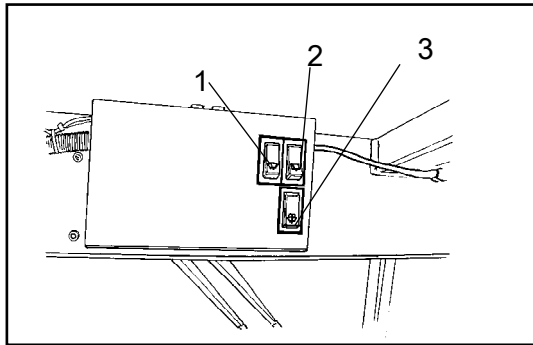


Fig. Cab roof, front
1. Front wiper
2. Rear wiper (Optional)
3. Front and rear windshield washers

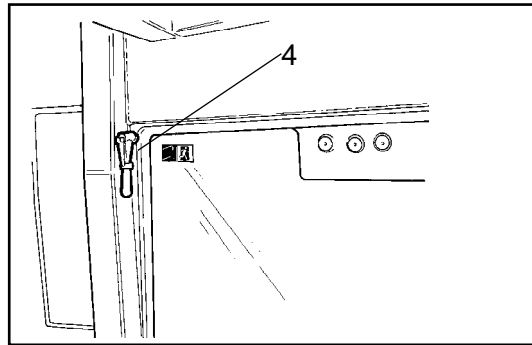


Fig. Cab roof, rear
4. Hammer for emergency escape

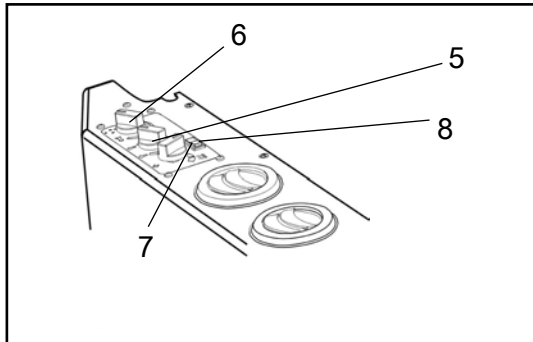


Fig. Cab, right side. Heater (Optional)
5. Control, temperature
6. Control, circulation,
7. Control, fan
8. Switch, AC (Optional)

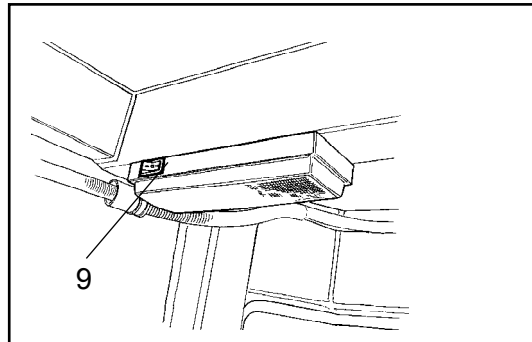


Fig. Cab, rear
9. Switch, cab lighting (Optional)

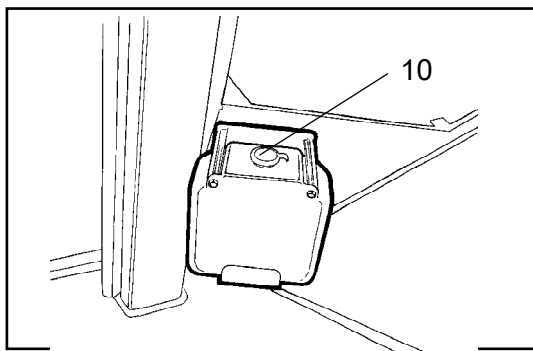


Fig. Cab, left side
10. Windscreen washer fluid container (Optional)

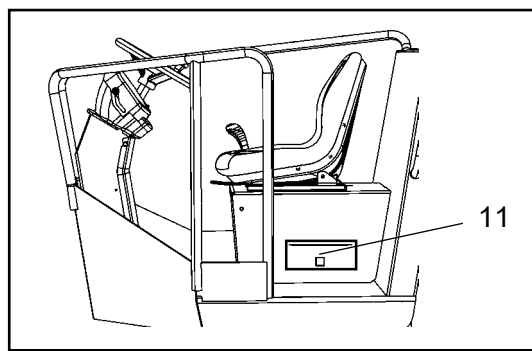


Fig. Cabin driving compartment
11. Manual compartment

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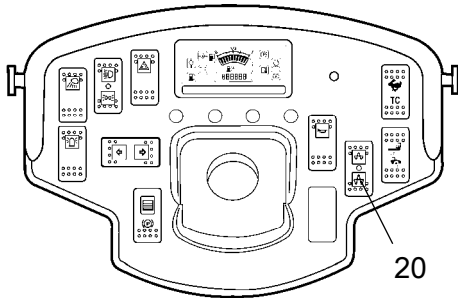


Fig. Instrument panel
20. Vibration switch

Check while warming the engine that the warning lamps for the oil pressure (24) and charging (28) go out.

The warning lamp (25) should remain on.



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.

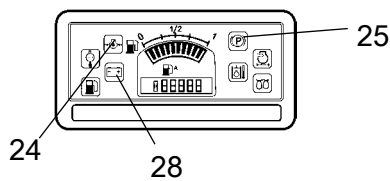


Fig. Control panel
28. Charging lamp
24. Oil pressure lamp
25. Brake lamp



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

Long-term parking

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

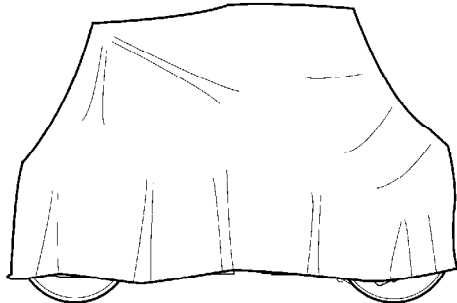


Fig. Roller weather protection

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

* Remove the battery from the machine. Clean the battery, check that the electrolyte level is correct (see under the heading 'Every 50 hours of operation') and trickle-charge the battery once a month.

Air cleaner, exhaust pipe

* Cover the air cleaner (see under the heading 'Every 50 hours of operation' or 'Every 1000 hours of operation') 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.')






Maintenance - Lubricants and symbols

Fluid volumes

Rear axle		
- Differential	10 liter	10,6 qts
- Planetary gear	1,9 liters/side	2,0 qts/side
Drum gearbox	3.0 liter	3,2 qts
Drum	15 liter	16 qts
Hydraulic reservoir	52 liters	13.7 gal
Oil in hydraulic system	23 liters	6 gal
Lubrication oil, diesel engine	11 liter	11,7 qts
Coolant, diesel engine	24 liter	6,4 gal



Always use high-quality lubricants and the amounts recommended. Too much grease or oil can cause overheating, resulting in rapid wear.

	ENGINE OIL	Air temperature -15°C - +50°C (5°F-122°F) Shell Rimula R4 L 15W-40, API CH-4 or equivalent.
	HYDRAULIC FLUID	Air temperature -15°C-+40°C (5°F-104°F) Shell Tellus T68 or equivalent. Air temperature above +40°C (104°F) Shell Tellus T100 or equivalent.
	BIOLOGICAL HYDRAULIC FLUID	BP Biohyd SE-S46 When it leaves the factory, the machine may be filled with biodegradable fluid. The same type of fluid must be used when changing or topping up.
	BIOLOGICAL HYDRAULIC FLUID, PANOLIN	PANOLIN HLP Synth 46 When it leaves the factory, the machine may be filled with biologically degradable fluid. The same type of fluid must be used when changing or topping up. (www.panolin.com)
	TRANSMISSION OIL	Air temperature -15°C - +40°C (5°F-104°F) Shell Spirax AX 80W-90, API GL-5 or equivalent. Air temperature 0°C (32°F) - above +40°C (104°F) Shell Spirax AX 85W-140, API GL-5 or equivalent.
	DRUM OIL	Mobil SHC 629



Diesel engine Check oil level

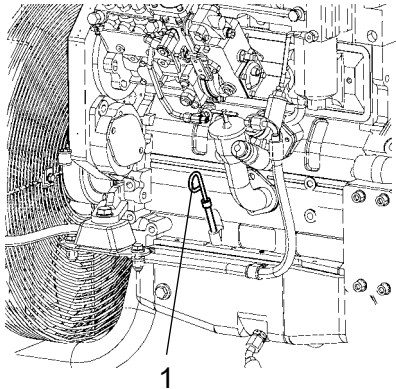


Fig. Engine compartment
1. Dipstick



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

The dipstick is located on the engine's right side.

Pull up 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.



Fuel tank - Filling

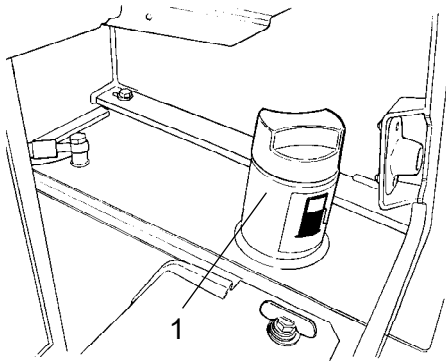


Fig. Filling with fuel
1. Filler pipe




Stop the diesel engine. Short-circuit (press) the filler gun against a non-insulated part of the roller before filling, and against the filler pipe (1) while filling.




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

The tank holds 250 liters of fuel.


Maintenance - 250h

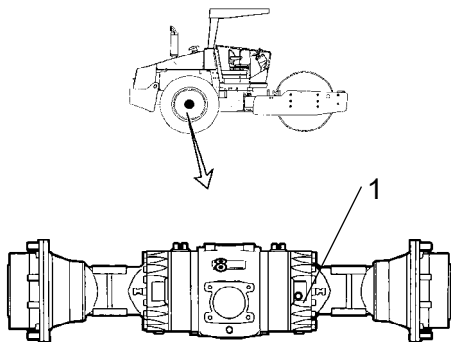
 **Park the roller on a level surface. When checking and making adjustments, the engine should be switched off and the emergency/parking brake should be applied, if not otherwise specified.**

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



Rear axle differential - Check oil level

 **Never work under the roller when the engine is running. Park on a level surface. Block the wheels securely.**



Wipe clean and remove the level plug (1) and check that the oil level reaches the lower edge of the plug hole. Top up with oil to the right level if the level is low. Use transmission oil, see lubricant specification.

Clean and refit the plug.

Fig. Level check - differential housing
1. Level/Filler plug



Fuel tank - Drainage

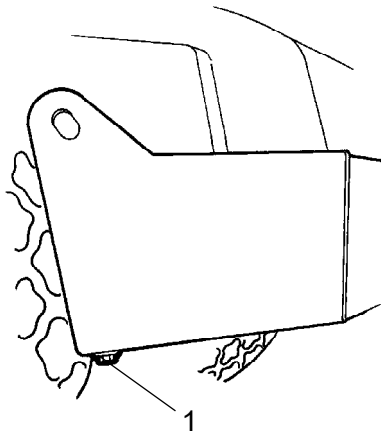



Fig. Fuel tank
1. Drainage plug

Water and sediment in the fuel tank are removed via the drainage plug (1) in the bottom of the fuel tank.

 **Be very careful during draining. Do not drop the plug or else all the fuel will flow out.**

Drainage must be performed when the roller has been stationary for an extended period, e.g. after being stationary overnight. The fuel level should be as low as possible.

The roller should preferably have been standing with this side slightly lower, so that water and sediment have gathered near the drainage plug (1).



Save the condensate and sediment and hand it in to an environment-friendly waste disposal station.

Drain as follows:

- Place a container under the plug (1).
- Remove the plug (1).
- Drain out the condensate and sediment until only pure fuel emerges at the plug.
- Screw in the plug again.



Air conditioning (Optional) Fresh air filter - Change



Use a step ladder to reach the filter (1). The filter can also be accessed via the right cab window.

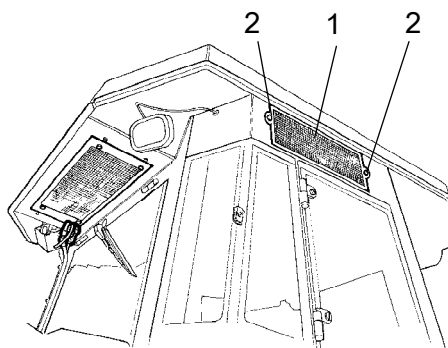


Fig. Cab
1. Fresh air filter
2. Screw (x2)

Loosen the two screws (2) on the cab's right side. Take down the whole holder and remove the filter insert.

Replace with a new filter.

It may be necessary to change the filter more often if the machine is working in a dusty environment.

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