

Instruction Manual

4812317313EN
Operation and Maintenance

Pneumatic Tire Roller
CP1200

Diesel Engine
Cummins QSF 2.8 – Tier III e IV

Serial number
10000500xxB004535 (Tier III)
10000510xxB004536 (Tier IV)



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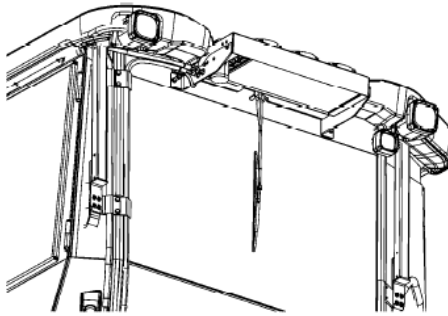


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Safety – Option items

Air conditioning



The system contains pressurized refrigerant. It is forbidden to release refrigerant to the atmosphere.



The maintenance of the air conditioning system shall be carried out only by trained people and with the proper tools and equipment.






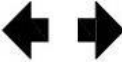




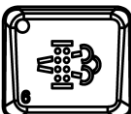


The air conditioning system is pressurized. The incorrect handling can result in serious personal injury. Do not loose or disconnect hoses and connections with the system loaded.



The system must be refilled with approved coolant when necessary. Refer to the safety decal next to the replacement and filling place.

Instrument/controls - Description and function

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Nº	DESIGNATION	SYMBOL	FUNCTION:
			The electric circuit is off.
1	Ignition key		All instruments and electric controls are on.
			The starter is activated.
2	Forward/reverse lever	-	<p>To turn on the machine, the lever must be in "Neutral ". The direction of travel and the machine speed is regulated with the forward - reverse lever. If is moved forward, the roller moves forward, backward moves back.</p> <p>The roller speed is proportional to the distance between the lever and the neutral position. The further away from neutral, the higher the speed.</p>
3	Command keyboard	-	
4	Direction lights		It shows that the direction lights are activated (activation via switch at the steering column).
5	Attention lights		Indicates that there are general problems in the machine. See the multifunction screen for the description.
6	Warning lights		Indicates that there are flaws in the machine. See the multifunction screen for the description.
7	High beam lights		It shows that the high beam lights are on
8	High/low speed		The roller starts always in the high speed mode. The low speed mode is obtained when activated.
9	Enable the regeneration (Tier 4 Engine)		Press to enable the regeneration Refer to the "Operation" section (Tier 4 Engine).
10	Disable the regeneration (Tier 4 Engine)		Press to disable the regeneration. Refer to the "Operation" section (Tier 4 Engine).
11	Brake test button		Press to test the brake drive mechanism

Instrument/controls - Description and function

Operator help when starting



When trying to turn on the machine without having set up to three necessary conditions to do so, the missing ones are shown in the display. The missing conditions must be set before turning on the machine.

Conditions that must be set:

- The parking brake shall be activated.
- The forward/reverse lever shall be in the neutral position.
- The Diesel engine rpm shall be in the low speed (low = slow speed) (not all the models, refer to the manual to know if your model fits in this condition).

Operator help when activating



When trying to activate the edge cutter (option) with the machine in high speed, the display will show the slow speed mode for a few seconds.

To activate the previous function, make sure the low speed mode is activated.

Operating the roller

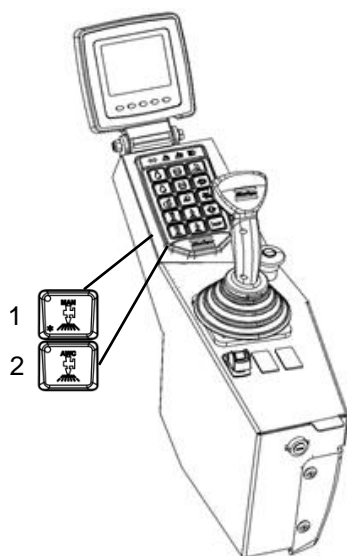


Fig.- Side panel
1. Manual sprinkler
2. Automatic sprinkler



Under no circumstances the machine shall be operated away from the ground. The operator shall be seated inside the machine during the operation.



Make sure the areas at the front and behind the machine are free.

1. Place the desired working speed.
2. Make sure the steering is working normally by turning the steering wheel to the left and to the right once with the roller stationary.
3. When compacting asphalts, do not forget to activate the sprinkler system (1) or (2).



Release the parking brake button (5) by sliding the red lock on the button backwards and changing the lever position. Remember that the machine can roll if you are on a slope.

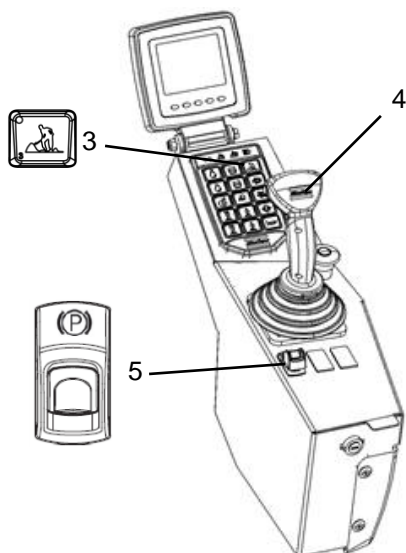


Fig.- Side panel
3. Low speed
4. Forward/reverse lever
5. Parking brake

4. Gently push the lever Front / Back (4) to either direction , depending on which one you want to go.



Make sure the parking brake (5) is working correctly by activating it and moving the forward/backward lever (4) to the F or R position. Keep the brake test button pressed. This way, when you throttle the machine, it will not move.

Lifting

Lifting the roller

Make sure the front wheels are parallel with the frame before lifting the roller.

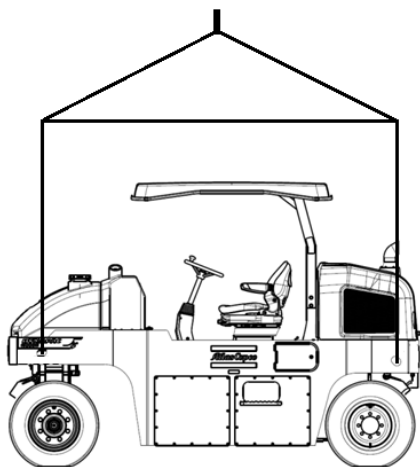


Fig. - Roller prepared for lifting.



Make sure the hooks are safely placed in the lifting eyes. The equipment shall only be lifted by the proper lifting eyes.



Always use cables and steel chains according to the safety norms and make sure there are no worn components and that parts are not damaged during the lifting.



The machine's gross weight is specified in the hoisting plate (1). Refer also to the Technical Specifications.



Do not go under or next to the machine when it is being lifted.

Make sure the lifting hooks are safely connected to the machine. Check the machine gross weight and the compatibility of the lifting equipment.

Lifting the roller with a jack



The machine's gross weight is specified in the hoisting plate (1). Refer also to the Technical Specifications.



Lifting devices such as a jack (2) or equivalents must be dimensioned according to the safety regulations for lifting devices.



Do not go under or next to the machine when it is being lifted. Also check if the lifting device is fixed and secure in its position, and at a steady level and surface.

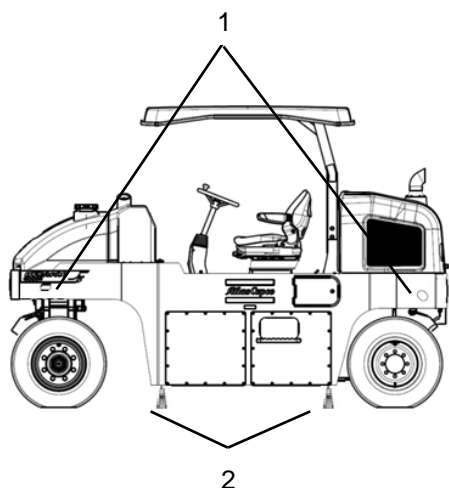


Fig. - Roller lifted with the jack
1. Hoisting plate
2. Jack

The roller shall only be lifted with a jack or similar if it is correctly fitted in the lifting eyes. The frame is reinforced in these points to support the tension. Lifting at any other place can result in damage to the machine or personal injury to the operator.

Torque

Torque for oiled bolts tightened with a torque wrench.

METRIC COARSE SCREW THREAD, BRIGHT GALVANIZED (fzb)	STRENGTH CLASS					
	8.8, oiled	8.8 dry	10.9, oiled	10.9 dry	12.9, oiled	12.9 dry
M6	8.4 N.m (6.2 lb.ft)	9.4 N.m (6.9 lb.ft)	12 N.m (8.8 lb.ft)	13.4 N.m (9.9 lb.ft)	14.6 N.m (10.7 lb.ft)	16.3 N.m (12.02lb.ft)
M8	21 N.m (15.5 lb.ft)	23 N.m (16.9 lb.ft)	28 N.m (20.6 lb.ft)	32 N.m (23.6 lb.ft)	34 N.m (25.07 lb.ft)	38 N.m (28.02lb.ft)
M10	40 N.m (29.5 lb.ft)	45 N.m (33.1 lb.ft)	56 N.m (41.3 lb.ft)	62 N.m (45.7 lb.ft)	68 N.m (50.1 lb.ft)	76 N.m (56.05 lb.ft)
M12	70 N.m (51.6 lb.ft)	78 N.m (57.5 lb.ft)	98 N.m (72.2 lb.ft)	110 N.m (81.1 lb.ft)	117 N.m (86.3 lb.ft)	131 N.m (96.6 lb.ft)
M14	110 N.m (81.1 lb.ft)	123 N.m (90.7 lb.ft)	156 N.m (115 lb.ft)	174 N.m (128.3 lb.ft)	187 N.m (138 lb.ft)	208 N.m (153.4 lb.ft)
M16	169 N.m (124.6 lb.ft)	190 N.m (140.1 lb.ft)	240 N.m (177 lb.ft)	270 N.m (200 lb.ft)	290 N.m (213.9 lb.ft)	320 N.m (236.01 lb.ft)
M20	330 N.m (243.4 lb.ft)	370 N.m (272.9 lb.ft)	470 N.m (346.6 lb.ft)	520 N.m (383.5 lb.ft)	560 N.m (413.03 lb.ft)	620 N.m (457.28 lb.ft)
M22	446 N.m (329 lb.ft)	497 N.m (366.5 lb.ft)	626 N.m (461.7 lb.ft)	699 N.m (515.5 lb.ft)	752 N.m (554.6 lb.ft)	839 N.m (618.8 lb.ft)
M24	570 N.m (420.4 lb.ft)	640 N.m (472 lb.ft)	800 N.m (590 lb.ft)	900 N.m (663.8 lb.ft)	960 N.m (708.05 lb.ft)	1,080 N.m (796.5 lb.ft)
M30	1,130 N.m (833.5 lb.ft)	1,260 N.m (929.3 lb.ft)	1,580 N.m (1,165.3 lb.ft)	1,770 N.m (1,305.5 lb.ft)	1,900 N.m (1,401.3 lb.ft)	2,100 N.m (1548.8 lb.ft)

Replace the hydraulic oil filters

Hydraulic filters are located on the right side of the engine compartment.



TAKE CARE OF THE ENVIRONMENT: All the used oil shall be properly stored for subsequent disposal. Do not dispose of oil on the ground, sewage system or other place which can harm the environment. The filter is disposable and cannot be cleaned.

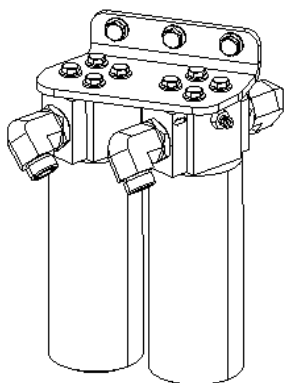


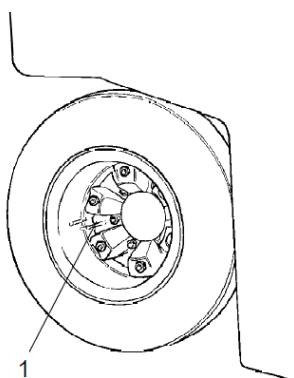
Fig. – Filters

1. Open the hydraulic oil tank cap.
2. Clean carefully the sealed surface on the filter holder.
3. Apply a thin layer of clean hydraulic oil on the rubber gasket of the new filter.
4. Fit manually the filter, first until the filter gasket manages to reach the holder. Next, tighten it with one more turn.
5. Check the hydraulic oil level on the sight glass (2) and adjust, if necessary.
6. Turn on the engine and check if the filter is well sealed.

Check the tires air pressure

To check the pressure, use an air pressure gauge. The pressure in all the tires must be the same.

To know the recommended pressure values, refer to the "Technical Specifications" section.



When replacing the tires, it is important that all of them have the same original diameter and width; otherwise they can slide into the wheel or make their installation impossible.



The machine can be equipped optionally with the pressure adjustment system (Air on the Run).
1. Air valve

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