

Instruction Manual

REDLINE
by **DYNAPAC**
ROAD GROUP

Operating and Maintenance Manual
Asphalt Compactor – DRA30

Engine: DYNAPAC- 275 DI TU

Serial number: *10300619HME011517*



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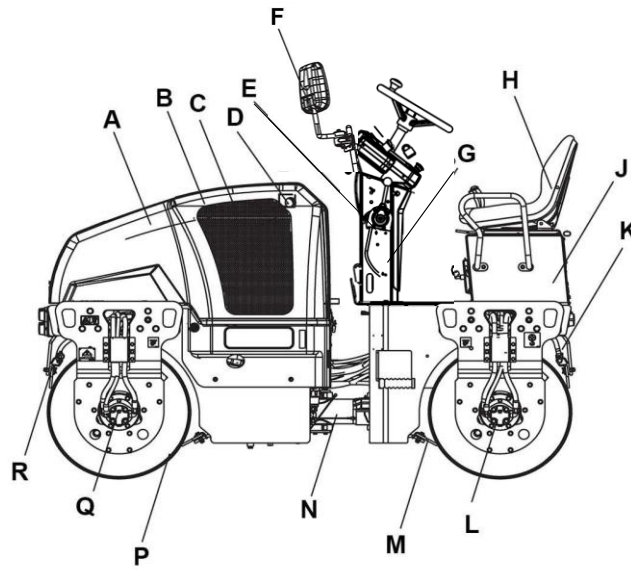
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Figure 1-6: Major Components Left Side



A	Hood	G	Steering console	N	Steering joint
B	Engine	H	Seat	P	Drum
C	Cooler	J	Platform	Q	Vibration motor
D	Air Cleaner	K	Sprinkler system	R	Scraper
E	Throttle lever	L	Vibration motor		
F	Mirror (Optional)	M	Scraper		

Diesel Engine

The machine is equipped with a water-cooled, straight three cylinder, and four-stroke diesel engine.

Section 3: Special Instructions

3.1 Operational Limitations

Standard Lubricants and Other Recommended Oils and Fluids

Before leaving the factory, the systems and components are filled with the oils and fluids specified in the lubricant specification. These are suitable for ambient temperatures in the range 5°C to +45°C (41°F to 113°F).

Higher Ambient Temperatures

For operation of the machine at higher ambient temperatures, however maximum +50°C (122°F).

Hydraulic system - mineral oil Shell Tellus S2V68 or similar.

Lower Ambient Temperature - Freeze Risk

Make sure that the watering system is empty/drained of water (sprinkler, hoses, tank/s) or that anti-freeze has been added, to prevent the system freezing.

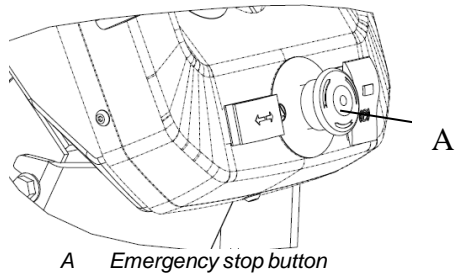
Temperatures

The temperature limits apply to standard versions of rollers.

Emergency Stop

The emergency button is used to stop the engine in an emergency situation which it cannot be shut off in an usual manner. It switches off the engine and activates the brakes. The emergency stop aborts the entire control operation in a quicker way for the safety of the personnel.

Figure 5-5: Emergency Stop



Sprinkler Switch

Figure 5-7: Sprinkler Manual/Auto

- A. Sprinkler Manual/Auto
- B. Sprinkler timer

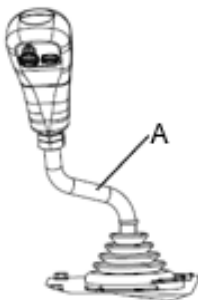


Sprinkler timer will work only when AUTO mode Selected.

Forward/Neutral (FNR) Lever

Direction of travel and speed of the roller is regulated with the forward/reverse lever. The machine speed increases or decreases in proportion to the position of the lever.

Figure 5-6: FNR Lever



Seat Buzzer

Seat buzzer beeps if the operator is not seated during the operation of the roller and it continues to beep until the operator is seated. If the buzzer beeps for long the brakes are activated and engine is forced to stop.

Check the Instruments and Lamps

Note Make sure that the emergency stop is pulled out and the parking brake is activated. If the forward/reverse lever is in neutral, the automatic brake function is engaged.

1. Turn the switch to on position.
2. Check that the warning lamps in the warning panel come on.
3. Set the sprinkler switch to the operating position and check that the system is functioning.

Interlock

The roller is equipped with interlock. The diesel engine switches off after 10 seconds, if the operator gets off the seat during tramming. If the operator is not seated during tramming a buzzer goes on unless the parking brake is activated.

Note If the diesel engine is switched off, then wait for 15 seconds to restart it. Turning the ignition key to on position will not restart the engine during this period.

7.2 Maintenance Schedule

Maintenance Schedule Information

The maintenance schedule shows those items requiring regular service and the interval at which they are performed. A regular service program is geared to the items listed under each interval. These intervals are based on average operating conditions. Before each consecutive interval is performed, all of the maintenance requirements from the previous interval must also be performed.

Note In the event of extremely severe, dusty, or wet operating conditions, more frequent maintenance than specified is necessary.

Table 7-1: Maintenance Daily/Every 8 Hours

Description	Action	Lubrication
Engine oil	Check	
Outer air cleaner element	Check	
Radiator coolant	Check	
Hydraulic Oil	Check	
Greasing	Grease	See lubrication chart

Table 7-2: Maintenance at First 50 Hours

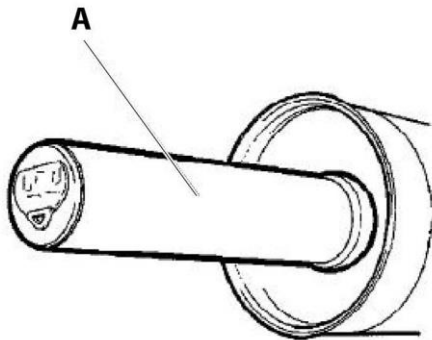
Description	Action	Lubrication
Engine oil filter element	Change	See engine manual
Engine oil	Change	See engine manual
Fuel filter element	Change	See engine manual
Mud filter	Change	See engine manual
Hydraulic oil filter	Change	

Table 7-3: Maintenance at 50 Hours or Weekly

Description	Action	Lubrication
Alternator belt	Check	
Water separator	Drain	
AVM Bolts	Check	

5. Make sure the main filter washer are not cracked or damaged. Replace if necessary.
6. The backup filter should be replaced if the air cleaner visual restriction indicator is red after servicing the main filter.
7. Clean the inside of the air cleaner housing before removing backup filter.
8. To replace the backup filter, remove the old filter from the holder. Dispose of the used element properly.
9. Install new backup filter into the holder.
10. Carefully install the cleaned or new main filter.

Figure 7-3: Air Filter



A Backup filter

11. Re-install the back cover, make sure the dust valve is positioned downwards.
12. Inspect all air intake piping and joints between the air cleaner and inspect the air inlet to make sure that no dusty air can enter.

After servicing the elements, reset the restriction indicator to green when the element is replaced in the air cleaner housing.

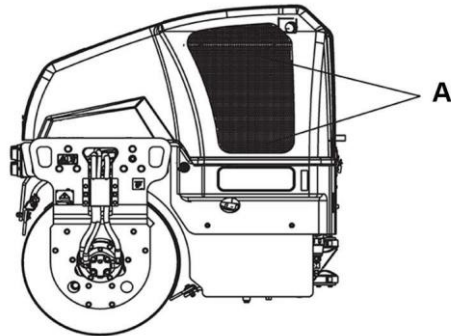
Note Never leave the air cleaner open longer than necessary.

Note The two most common servicing problems are over servicing and improper servicing.

Air Circulation

Check that the engine has free circulation of cooling air through the grille in the engine compartment.

Figure 7-4: Air Circulation



A Cooling air grille

Hose and Clamps

1. Periodic clamping bolts re-tightening is necessary due to cold-flow present in all rubber hoses. Tighten the boss clamps.
2. Examine and change out worn hoses and weakened Boss clamps. If hoses are to be changed out, change the Boss clamps also. Boss clamps hold the hose connections under a large amount of pressure. Boss clamps (including nuts and bolts) are for single use only. Do not reuse. Once removed, discard them.

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