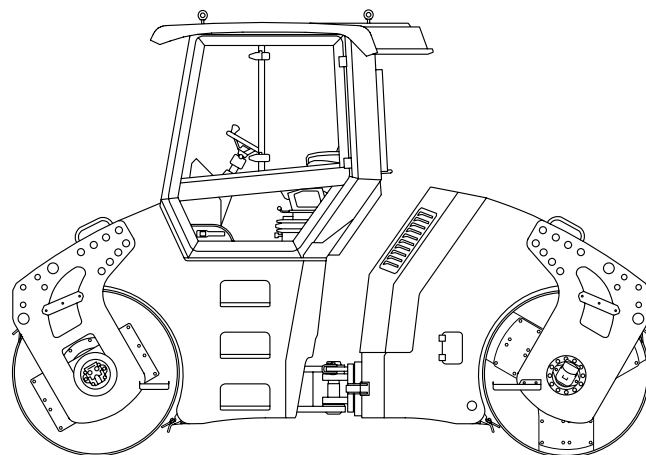


AV 70 X

TANDEM ROLLER
CUMMINS QSB4.5-C130
EU Stage IIIA / U.S. EPA Tier 3



OPERATING MANUAL

EDITION 07/2021 EN
Product identification number 3008841 -

AMMANN

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Every 500 hours of operation, but at least once a year	123
3.6.20. Engine fuel filter exchange.....	123
3.6.21. Engine cooling liquid level check	125
3.6.22. Check of wiring.....	125
3.6.23. Replace air filter elements	126
3.6.24. Clean cab ventilation filter.....	128
Every 1000 hours of operation	129
3.6.25. Inspect engine belt	129
3.6.26. Inspect the exhaust system.....	129
3.6.27. Inspect the silencing system	130
3.6.28. Clean the water tank.....	132
3.6.29. Oil change in the gearboxes.....	133
Every 2000 hours of operation	134
3.6.30. Checking and adjusting valve clearance.....	134
3.6.31. Engine coolant exchange	134
3.6.32. Exchange oil in the vibrators	138
3.6.33. Exchange hydraulic oil and filters	139
Maintenance as required	143
3.6.34. Fuel system breathing.....	143
3.5.33. Clean water separator of fuel filter	144
3.6.36. Cleaning of coolers.....	145
3.6.37. Drain water from sprinkling circuit before winter season.....	146
3.6.38. Adjust the scrapers.....	148
3.6.39. Machine cleaning	150
3.6.40. Drum cooling liquid AV 70 X HF	151
3.6.41. Check the tightening of bolted connections.....	152
3.7. Defects.....	155
3.8. Attachments.....	156
Wiring Diagram	156
Hydraulic diagram	162
Regular maintenance spare parts chart	164
Content of the set of filters after 500 and 1000 operating hours. (4-11891A).....	165
Content of the set of filters after 2000 operating hours. (4-760125)	165

	AV 70 X	AV 70 X HF
	EU Stage IIIA / U.S. EPA Tier 3	
Optional equipment		
Tier II engine - non CE - limited quantity		
Air-conditioning		
Installations for radio (antenna, 2 loudspeakers) (only a cab version)		
Radio with CD		
Reversing alarm		
Beacon		
Additional working headlights		
Adjustable scrapers		
Cutter/final compaction device		
Fire extinguisher		
Ammann set of tools		
Biologically degradable oil		
Different colour design (Ammann scheme), max. 2 different colours		
Special colour design		
Filter set 250 h		
Filter set 500 h		
Filter set 1000 h		
Filter set 2000 h		
Additional documentation		

* measured according the EN 500-4

** measured according the DIRECTIVE 2000/14/EC and EN 500-4

*** measured according the EN 1032+A1 on the gravel base under the vibration travel)

1. Read Operation Manual!



2702bz

Get perfectly well familiar with the Machine operation and its maintenance per the Operation Manual!

2. Handbook



2428bz

The Operation Manual stowage box.

3. Fasten your seat belt!



2687bz

Fasten your seat belt before driving!

4. Clamping hazard



2941bz

Maintain safe distance from the Machine, danger of being clamped by the Machine in between the front and rear frame.

5. Danger area



2942bz

Keep a safe distance!

6. Adjust while at rest



2584bz

Adjust and maintain with the engine stopped.

2.3.3. Dewaxing and inspection of the supplied machine

- Check the machine against delivery documentation.
- Check whether any parts were damaged during transport or are missing. Inform the shipper of any discrepancies.



Before starting operations again, wash off conservation with high pressured hot water with ordinary degreasing means added as directed, while observing environmental rules.

Remove conservation and wash the machine in places with catch basins available to collect rinse water and chemicals.



Switch + hazard beacon indicator lamp (18) - (optional)

It is used to switch ON/OFF hazard beacon, indicator lamp in the switch signals this function.



Alarm lights switch (19)

It is used for turning on/off the warning lights – the function is indicated by flashing of the indicator lamp in the warning light switch.



Switch + indicator lamp for cabin's additional lights (20) - (optional)

It is used to switch ON/OFF additional lights, indicator lamp in the switch signals this function.



Switch + indicator lamp rear lights (21)

It is used to turn ON/OFF rear lights, indicator lamp in the switch signals this function.



Indicator lamps for (dipped / distance) lights (22)

591508

These lamps signal dipped or distance lights switched ON.



Switch edge cutters sprinkling (23)

0095

Turns on edge cutters sprinkling.



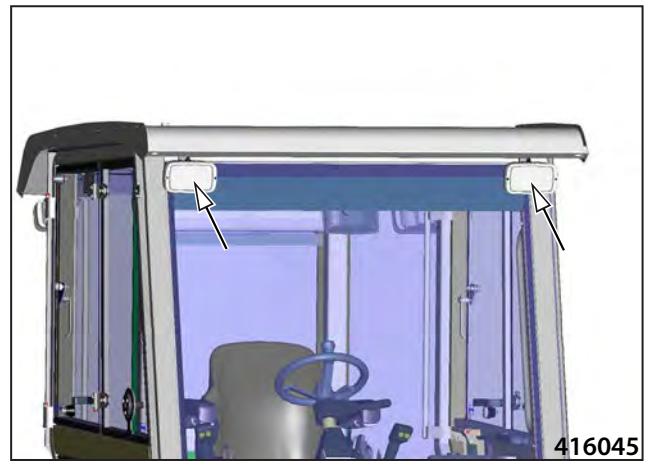
Infrathermometer (24) - (optional)

3044

It will be enabled through the key turned ON in the ignition box (12) and it will measure through temperature sensor for a bitumen surface rolled. The value measured is indicated in °C degrees on display (24).

Additional lights (45)

Lights located on the Machine cabin (optional).



Beacon socket (46)

It is used to connect the beacon.



Back mirrors (47)

External back mirrors enable to view poorly visible areas.



Maintain these mirrors clean and properly adjusted!

Travel in CRAB mode

This function is used to adjust extended track during Machine travel.

Use potentiometer (2) to adjust travel speed, and use travel controls (1) to adjust its direction.

Press pushbuttons (5) and (6) on travel controls (1) to control the Machine in CRAB mode, and at the same you may turn the Machine.

Shift the travel controls (1) to opposite position via (0) and then return to (0) position within the interval of 1 second to stop the Machine - the engine will continue to run.

By deflecting the travel controllers (1) from the position (0), the machine drives off.

Turning ON:

Press button (5) to deflect the front drum to the right and press button (6) to deflect to the left, the indicator lamp on cluster (25) will light up to signal this function.

Max deflection of the front drum to both sides is 180 mm (7.09 in).

Turning OFF:

Press switch (4) to cancel CRAB mode of front drum.

Indicator lamp on cluster (25) will go OFF to signal CRAB mode has been reset.

Note

In the event that the control lamp on the combined instrument (25) is flashing, hold the switch and turn the steering wheel (to the left/right) until the control lamp goes out.

If the Machine is equipped with cutter and final compactor, then pushbuttons (5) and (6) on travel control (1) on the same side where it has been mounted, are used to control it. Then pushbuttons (5) and (6) on the second travel control (1)) are used to control the Machine in CRAB mode.



Take special care when Machine travels in CRAB mode near constructed facilities so to avoid their damage due to any collision (hitting)!

If necessary, fold the external mirrors!

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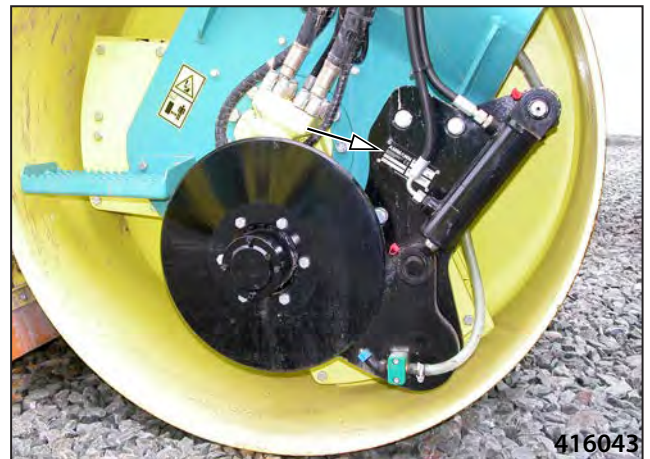
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2.7.8. Edge cutter and compacter

(OPTION)

 **To additional assembly use appropriate manual.**

Edge cutter plate location.




416043

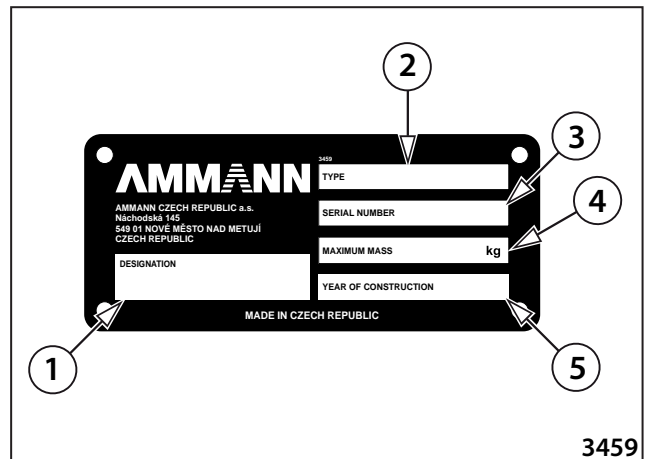
Edge cutter plate

- 1 - Name - always mentioned only in the English version
- 2 - Type
- 3 - Serial number
- 4 - Maximum weight
- 5 - Year of manufacture

How to activate the cutter:

- Turn the switch pump spray cutters (11).

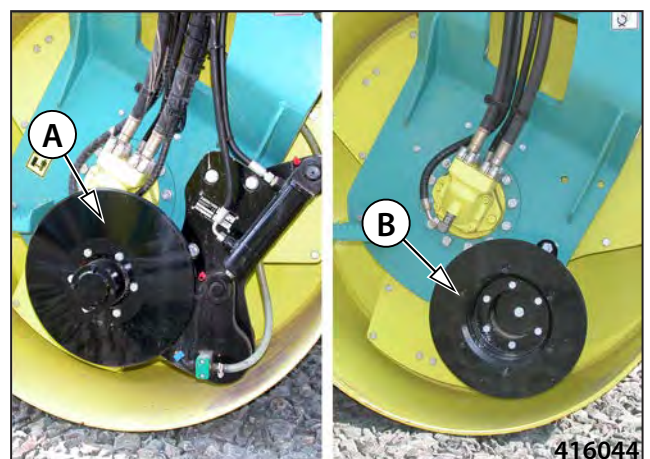
 **Make sure nobody is endangered when the edge cutter is started!**



3459

- Turn the switch sprinkling cutters (23).
- Press button (5), (6) (see up/down symbols on the button) to set the edge cutter to the required position.
- The required position is being set while the button is pressed. After reaching the limit position in either direction, the cutter will automatically stop.












- The cutting disc (A) can be replaced for the compacting disc (B).
- The replacement is performed by dismantling the attachment of a final compaction disc on the rear yoke by means of bolts. Unused cutting disc will be attached to the rear left drum yoke with two bolts.



416044

3. MAINTENANCE MANUAL

AV 70 X (Cummins Tier 3)

Part	Medium Type	Medium Amount l (gal US)	Brand
Engine	Engine oil under Section 3.2.1.	7 (1,85)	 2412
Fuel tank	Fuel under Section 3.2.2.	110 (29,05)	 2151
Hydraulic tank	Hydraulic oil under Section 3.2.4.	40 (10,56)	 2158
Drum bearings, calliper bearings, king pins, suspensions	Lube grease under Section 3.2.5.	As required	 0787
Cooling system	Coolant under Section 3.2.3.	15 (3,96)	 2152
Vibration drum	Engine oil under Section 3.2.1.	2x10,5 (2,77)	 2412
Drum drive gearbox	Gear oil under section 3.2.7.	2x1,2 (0,32)	 2186
Glass washer tank	Liquid under Section 3.2.6.	2,75 (0,72)	 2260
Sprinkling tank	Water	600 (158,5)	 2567
Drum cooling liquid AV 70 X HF	Mixture according to chapter 3.2.8.	2x40 (2x10,57)	 2152
Air-conditioning	Mixture according to chapter 3.2.9.	-	 2441

3.6.8. Tank oil level check

- Lift the bonnet.
- Check oil level in oil gauge.
- Fill up oil via the filling device using quick-coupling (1), proceed as per Section 3.6.33.

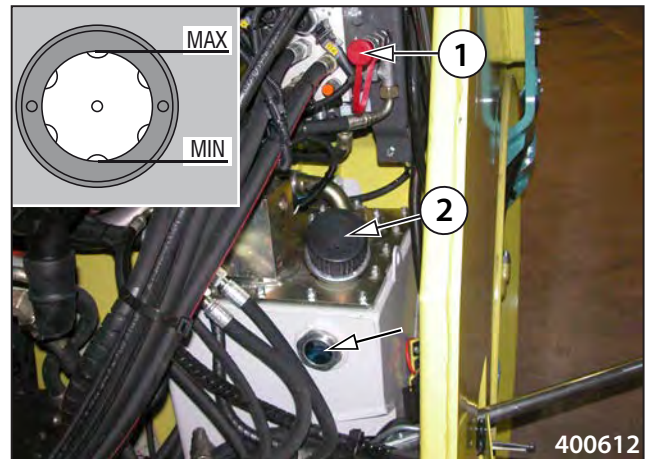


Tank filler neck cap (2) has been sealed. If this seal is damaged during guarantee period, then the Machine guarantee will terminate.

Conduct this filling method as emergency one - not recommended by manufacturer! Oil level shall always be visible in oil gauge!

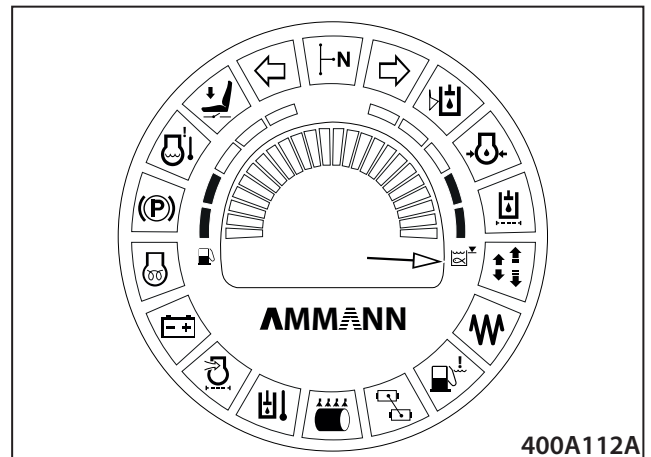
Refill required oil according to the Section 3.2.4.

Upon higher loss of oil, find out the cause of hydraulic system leaking (leaks through hose screw joints, screwed fitting of hydroelectric generators or of hydraulic motors, etc.), and repair the defects.



3.6.9. Water tank refilling

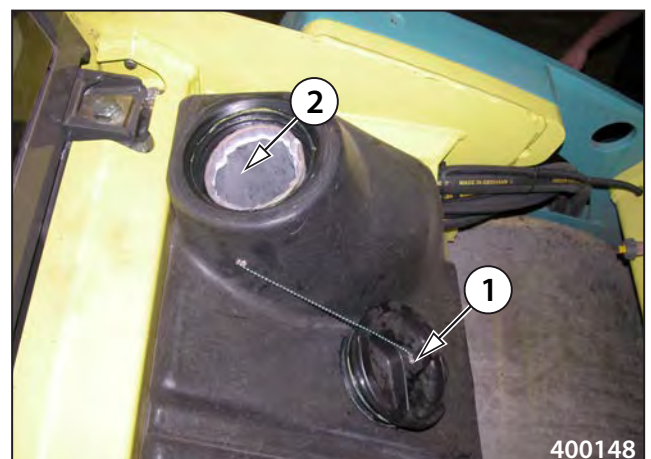
- Check water amount on the RH cluster. It is signalled by LEDs, and in case of lack of water, please refill.
- Minimal amount of water is signalled by red LED flashing.
- Perform the following before engine is started.



Open the cap (1) and refill with clean water via the strainer (2).



Before winter period, drain water from the water tank and sprinkling system! Proceed according to Section 3.6.37.





Keep storage batteries dry and clean.

NEVER disconnect storage battery with the engine running. Always follow storage battery manufacturer's manual when working with the storage battery!

Use rubber gloves and safety glasses when handling storage battery.

Protect your skin with proper clothing against being stained by electrolyte.

Upon eye contact with electrolyte immediately flush eyes with large amounts of water for at least a couple of minutes. Get prompt medical attention.

Upon ingestion of electrolyte drink max amount of milk, water or solution of calcined magnesia in water. Get prompt medical attention.

Upon skin contact with electrolyte remove contaminated clothing, including shoes, wash affected spots as soon as possible with soap water or solution of soda and water. Get prompt medical attention.

Do not eat, drink, smoke, while at work!

Upon work completion, please wash your hands and your face thoroughly with water and soap!

Do NOT attempt to confirm a wire is energized through contacting Machine frame.

Disconnect storage battery before its repair or when handling wires or electric equipment within wiring circuit to avoid any short-circuit.

To disconnect storage battery you must first disconnect (-) pole of the cable. To connect, first connect (+) pole. **NEVER** attempt to make direct conductive connection between storage battery's both poles, short circuit will occur with the risk of storage battery explosion.



Do not turn storage battery upside down, electrolyte may pour down.

Flush with water and neutralize with lime the spot affected with spilled electrolyte.

Hand over the aged storage battery that does not work, for its disposal.



400631

- Replace the safety element (3) from the filter shell and check it.

Insert

Order number: 4-5358520141



When safety element is damaged, please replace it with the new one of identical type as per identification!



400632

- Clean filter's inner space in such a way to avoid dust penetration into the inner feed piping to the engine.



NEVER use compressed air to clean the inner space.



400633

- Take off the air filter dust valve, clean it and reinstall.



Replace instantly a damaged dust valve!

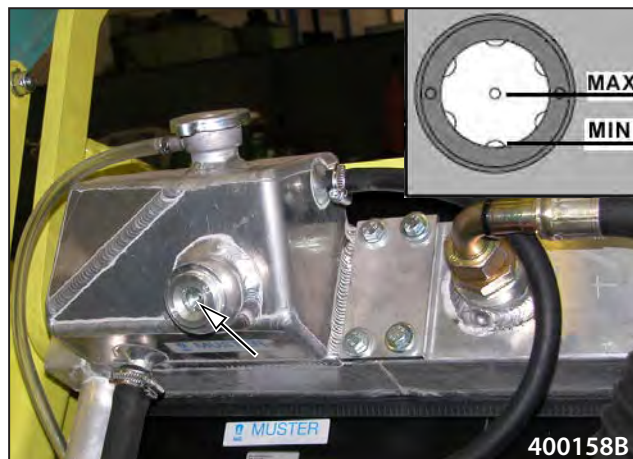


400610

Dust valve

Order number: 1-952454

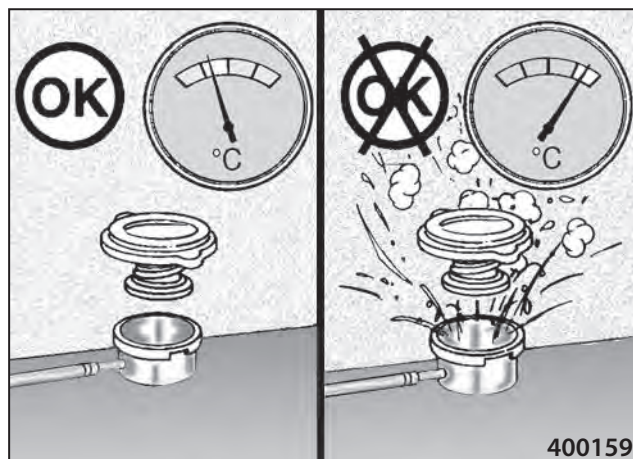
- Stop the engine.
- Confirm the coolant level on water gauge is between MIN and MAX.



Do not open the overpressure plug before coolant temperature drops below 50 °C (122 °F). If you open overpressure plug the liquid may splash out causing scald!



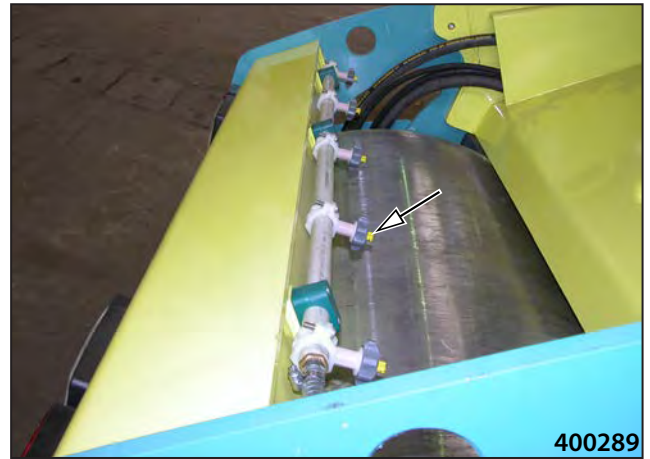
Hand over the used liquid for its safe disposal under the regulations!

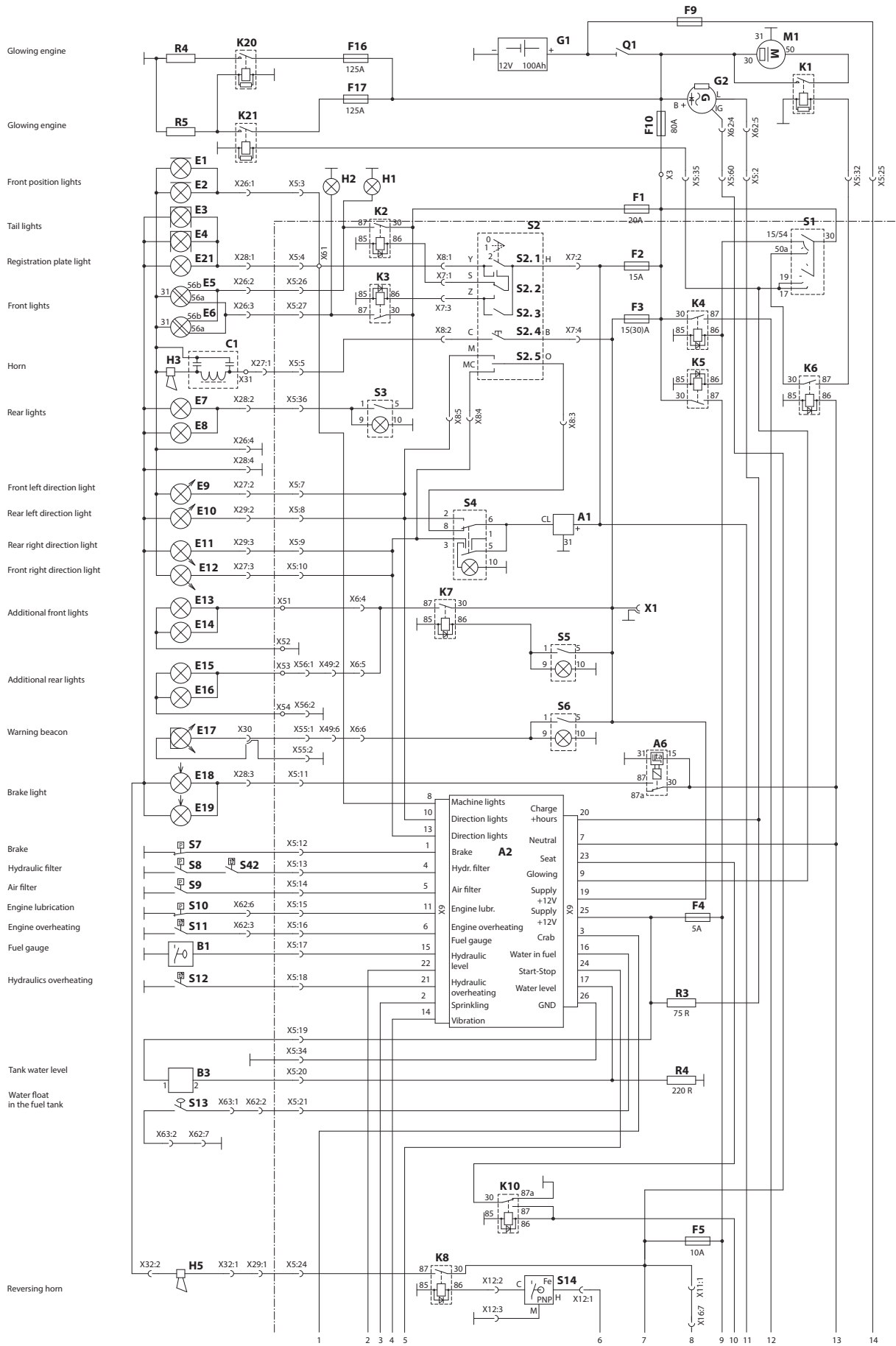


- Detach at least one sprinkler from each pipe on the front and rear sides of the Machine. Store the sprinklers at a safe place.
- Switch ON the sprinkling pumps for 20 sec. so these become drained.
- This procedure will guarantee you max drainage of the sprinkling circuit.
- when all the abovementioned operations are completed, please proceed in reverse steps, clean thoroughly the individual parts, first.



By draining the water from the sprinkling circuit in time you will avoid any potential damage that the manufacturer shall bear no responsibility for!





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