

Recommended maintenance schedule VN/87 EMC

NOTE: All maintenance steps should be performed while engine is stopped!

Procedure no:	What to do:	Interval & Part kit to be used:
Procedure 1	<ul style="list-style-type: none"> Check the negative pressure with u-tube manometer or digital manometer. Adjust if necessary! Setting level is 55.00 – 65.00 mmWC! 	Every month or 650 engine running hours – <u>whatever comes first!</u> U-tube gauge kit – P/n.: 270532
Procedure 2	<ul style="list-style-type: none"> Replace the sintered bronze air filter/fresh air filter in the measuring head. Clean the fresh air bores in the measuring head. Use the cleaning needle. Clean both infrared sensor glasses in the measuring head with cotton pins and cleaning fluid. Perform functional test with test glass kit. 	Every 3 months or 2 000 engine running hours – <u>whatever comes first!</u> Kits to be used: Filter kit VN/87 – P/n.: 151481BU Cleaning kit – P/n.: 151482 Test glass kit – P/n.: 11072
Procedure 3	<ul style="list-style-type: none"> Replace filter in pressure regulator. <p>If you have a water separator:</p> <ul style="list-style-type: none"> Replace filter cartridge of water separator. 	Every 6 months or 4 000 engine running hours – <u>whatever comes first!</u> Filter cartridge – P/n.: 273119
Procedure 4	<ul style="list-style-type: none"> Replace complete service kit on OMD. Clean the inside & outside of base plate. Check performance of pressure regulator- replace parts if necessary! Clean suction pipes/ pipe system and siphon blocks with compressed air! 	Every 12 months or 8 000 engine running hours – <u>whatever comes first!</u> Kits to be used: Yearly maintenance kit for: VN 115/87 – P/n.: 100150-151483 VN 116/87 – P/n.: 100151-151484 VN 215/87 – P/n.: 100152-151485 Cleaning kit – P/n.: 151482 Test glass kit – P/n.: 11072
Procedure 5 Recommendation: Use Authorized Service Personnel for this procedure.	<ul style="list-style-type: none"> Authorized service personnel will perform an inspection of complete OMD installation. Condition of measuring head to be checked and replaced if necessary! <p>If not possible to use authorized service personnel, alternatively do as follows:</p> <ul style="list-style-type: none"> Replace exchange unit set and clean all necessary parts. Replace filter and check pressure regulator performance, replace unit if necessary. Clean suction pipes/pipe system and siphon blocks with compressed air and fill siphon blocks with oil! Check all sampling funnels positions and make sure they are firmly attached. Tighten all connections and make final functional test with smoke ampulla kit through sampling funnels to ensure there are no blockage in the pipe system. <p>If ASP is not possible, contact us for exchange unit set at: epp@epp.no or phone: +47 92 46 32 20!</p>	Every 48 months or 32 000 engine running hours – <u>whatever comes first!</u> Exchange oil mist detector components for: VN 115/87 EMC – P/n.: 10600EXP P/n.: 10601EXP VN 116/87 EMC – P/n.: 10700EXP P/n.: 10701EXP VN 215/87 EMC – P/n.: 10800EXP P/n.: 10801EXP Yearly maintenance kit for: VN 115/87 – P/n.: 100150-151483 VN 116/87 – P/n.: 100151-151484 VN 215/87 – P/n.: 100152-151485 Smoke test kit – P/n.: 151780

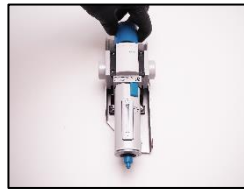
Procedure 1:



1. Install the quick connection.



2. Connect the u-tube manometer.



3. Adjust pressure to negative 55.00 – 65.00 mmWC.



4. Install the inspection cover plug.

Procedure 2:



1. Check the negative pressure with a u-tube manometer. Adjust if necessary! Setting level is 55.00 – 65.00 mmWC!



2. Replace the sintered bronze air filter/fresh air filter.



3. Clean the fresh air bones in the measuring head. Use the cleaning needle.



4. Clean the infrared sensor glasses at the left and the right side inside the measuring head. Use cotton sticks and cleaning fluid.

Procedure 3:



1. Close the air pressure.



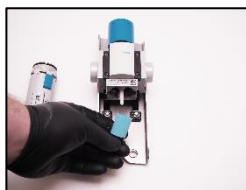
2. Hold the filter cage in one hand and pull the blue tab down horizontally with your thumb.



3. Turn the filter cage clockwise and pull out downwards.



4. Unscrew the black plastic disc and remove the dirty filter.



5. Screw in the new filter counter clockwise and make sure that it is aligned for installation.



6. Reinstall the filter cage.



7. Install the quick connection.



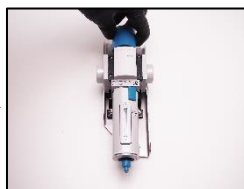
8. Fill in slacked water in the u-tube manometer.



9. To the middle line.



10. Install the u-tube manometer.

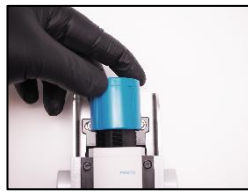


11. Adjust the air pressure to 55.00 – 65.00 mmWC.

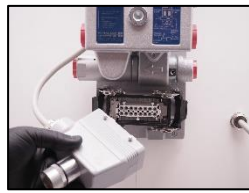


12. Disconnect the u-tube manometer and install the plug for inspection cover.

Procedure 4:



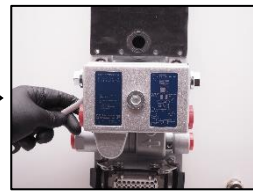
1. Stop the engine and reduce the incoming air pressure.



2. Disconnect the RESET connector.



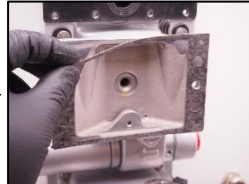
3. Dismount the measuring head.



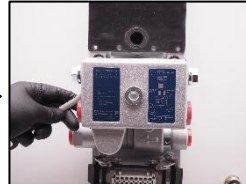
4. Disconnect the connection case.



5. Change the small seal.



6. Change the valve box seal.



7. Reconnect the connection case to the base plate.



8. Unscrew the vibration plate.



9. Change the upper and lower elastic mounting system.



10. Change the flexible bellows.



11. Reinstall the vibration plate to the base plate.



12. Change the measuring head seal.



13. Reinstall the measuring head at the vibration plate.



14. Open the inspection cover.



15. Change the scavenging air filter.



16. Change the seal for inspection cover.



17. Clean the infrared sensor glasses with cotton sticks and cleaning fluid.



18. Clean the bores with cleaning needle.



19. Change the screw plug seal 1/4\"/>



20. Close inspection cover.



21. Unscrew the plugs at the connection case.



22. Change the screw plug seal 1/2\"/>



23. Check the heating element if it is hot. If cold – replace!



24. Check all leaders in the main socket. If bad condition – replace!

Procedure 5:

Authorized service personnel will perform an inspection of complete OMD installation. Condition of measuring head to be checked and replaced if necessary!

If not possible to use authorized service personnel, alternatively do as follows:

Replace exchange unit set and clean all necessary parts. Replace filter and check pressure regulator performance, replace unit if necessary. Clean suction pipes/pipe system and siphon blocks with compressed air and fill siphon blocks with oil! Check all sampling funnels positions and make sure they are firmly attached. Tighten all connections and make final functional test with smoke ampulla kit through sampling funnels to ensure there are no blockage in the pipe system.

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