VN/87plus

Maintenance schedule Visatron VN/87plus

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

	What to do:	Interval:	Part kit:
Procedure 1	• Check the negative pressure with u-tube manometer or digital manometer. Adjust if necessary! Setting level is 60,00 mmH2O! • 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. (whatever comes first)	**Maintenance kit** – Part no.:151481 **Cleaning kit** – Part no.: 151482 **U-tube gauge kit** – Part no.: 270532 **Test glass kit** – Part no.: 11072-270453
Procedure 2	– Replace filter in pressure regulator. **If you have a water separator:** • Replace filter cartridge of water separator.	Every 6 months or 4 000 engine running hours. (whatever comes first)	**Filter cartridge** – Part no.: 273119
Procedure 3	• Replace maintenance kit due to yearly inspection of general parts. Clean the OMD. • Check performance of pressure regulator- replace parts if necessary! • Clean suction pipes/ pipe system and siphon blocks with compressed air! • Check scavenging air outlet behind the control cover manually (low-right) by feeling the air stream.	Every 12 months or 8 000 engine running hours. (whatever comes first)	**Maintenance kit VN115/87plus** – 100150-151483 **Maintenance kit VN116/87plus** – 100151-151484 **Maintenance kit VN215/87plus** – 100152-151485
Procedure 4 **This procedure is to be carried out by authorized service personnel only!**	• **Inspection of complete OMD installation.** • 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! • Perform functional test of entire oil mist detector system with smoke generator (Part no.: 10353 & 10097) or smoke test (Part no.: 151780).	Every 24 months or 16 000 engine running hours. (whatever comes first)	**Maintenance kit VN115/87plus** – 100150-151483 **Maintenance kit VN116/87plus** – 100151-151484 **Maintenance kit VN215/87plus** – 100152-151485
Procedure 5 **This procedure is to be carried out by authorized service personnel only!**	• **Inspection of complete OMD installation. System to be modified and upgraded if necessary!** • Replace complete oil mist detector or measuring head with an exchange unit. • 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! ***If you are ordering a complete exchange oil mist detector unit, there is no need to replace maintenance kit for base plate.***	Every 48 months or 32 000 engine running hours. (whatever comes first)	**Maintenance kit VN115/87plus** – 100150-151483 & exchange unit! **Maintenance kit VN116/87plus** – 100151-151484 & exchange unit! **Maintenance kit VN215/87plus** – 100152-151485 & exchange unit!

VN/87plus

Procedure 1:

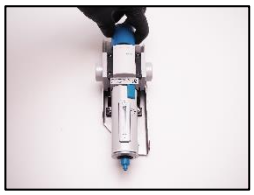
1. Check the negative pressure with a u-tube manometer. Adjust if necessary! Setting level is 60,00 mmWC!

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.

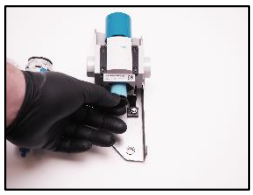
Procedure 2:



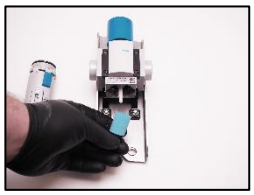
1. Close the air pressure.

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.

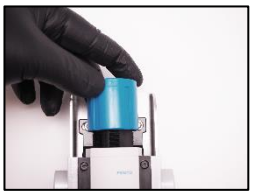
9. To the middle line.

10. Install the u-tube manometer.

11. Adjust the air pressure to 60.00 mmWC!.

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

Procedure 3:



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

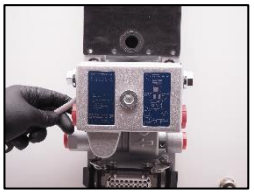
2. Disconnect the RESET task connector.

3. Dismount the measuring head.

4. Disconnect the connection case.

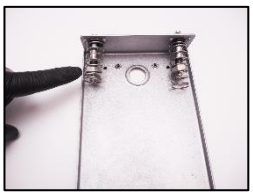
5. Change the small seal.

6. Change the valve box seal.

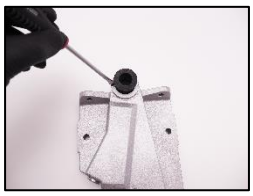


7. Reconnect the connection case to the base plate.

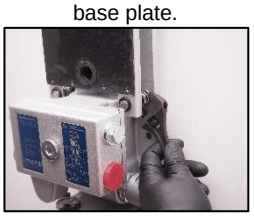
8. Unscrew the vibration plate.



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 ¼" for inspection cover.

20. Close inspection cover.

21. Unscrew the plugs at the connection case.

22. Change the screw plug seal ½".

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 4: This procedure is to be carried out by authorized service personnel only!

1. Stop the engine and remove the measuring head.

2. Clean the inside and outside of the base plate and replace all the parts in the yearly maintenance kit.

3. Overhaul complete OMD system.

Complete system is to be checked by authorized prognose test. Technical or software update to be carried out!

Procedure 5: This procedure is to be carried out by authorized service personnel only!

1. Stop the engine and remove the measuring head.

2. Clean the inside and outside of the base plate and replace all the parts in the yearly maintenance kit.

3. Install the new exchange measuring head. When starting up the OMD device, please check the negative pressure and adjust if necessary! See procedure 1. Make final test of the system to ensure that oil mist detector operation is safe.

Complete system is to be checked by authorized prognose test. Technical or software update to be carried out!