

OPTIMAX Dual-Stage Engine Air Precleaner System inspection procedures

Step 1

Identify parts

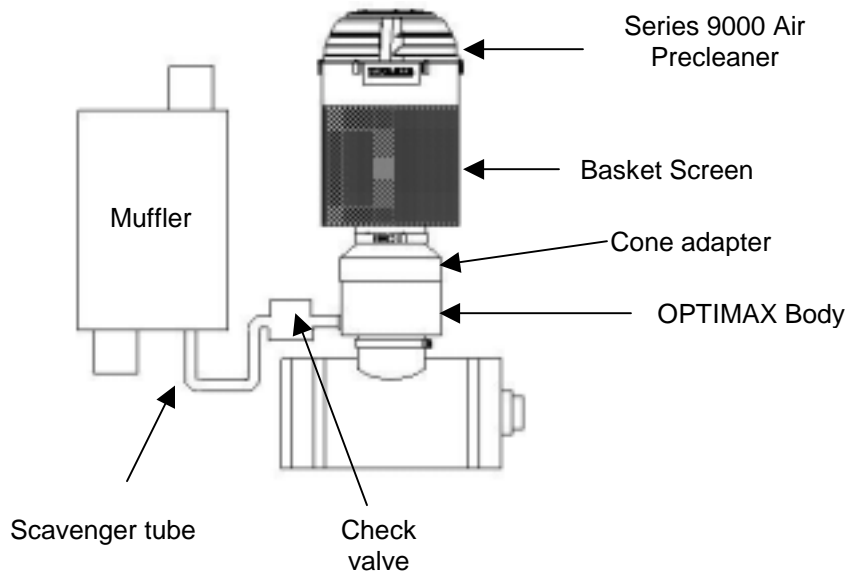


Figure 1

Step 2

Remove the Scavenger tube from the OPTIMAX body. Start the machine and run until it reaches high Idle. While at high idle, use a piece of notebook paper (or these instructions) to cover the opening of Scavenger tube. If the paper is held in place, then the vacuum is acceptable. Turn the

machine off, and then shake the check valve to verify that the flapper is loose (will rattle). If the flapper is loose and the vacuum on the Scavenger tube is acceptable, then proceed to Step 3.

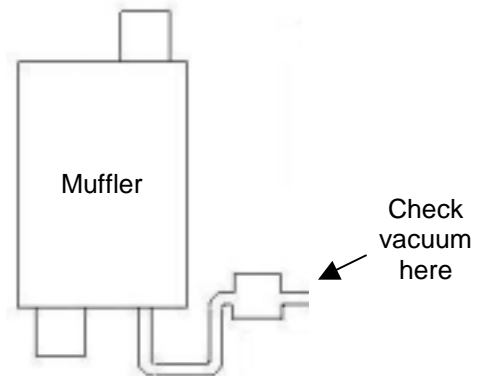


Figure 2

If the vacuum is not present on the Scavenger tube, check the tube to make sure nothing is blocking the airflow. If the Scavenger tube is clear then remove the tube from the muffler. Check the vacuum at the Scavenger tube connection at the muffler. If there is still no vacuum then the muffler must be replaced.

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Step 3

Loosen the clamp and separate the cone adapter from the OPTIMAX body. Lay the upper portion of the assembly down in safe place for inspection. Inspect the OPTIMAX body for debris. Clean the catch tray and scavenger port outlet if debris are present, see Figure 3*. Re-install the Scavenger tube to the scavenger port outlet on the side of the OPTIMAX body after cleaning.

*Compressed air is recommend to clean out the OPTIMAX catch tray and scavenger port outlet.

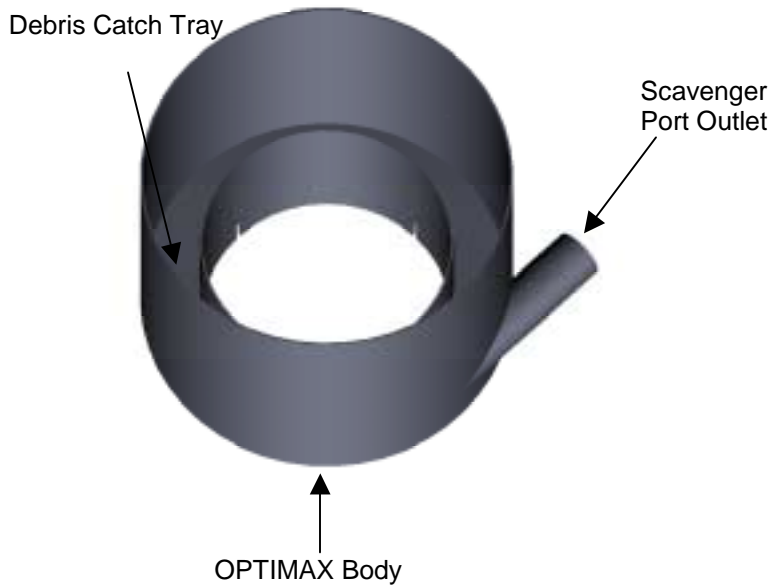
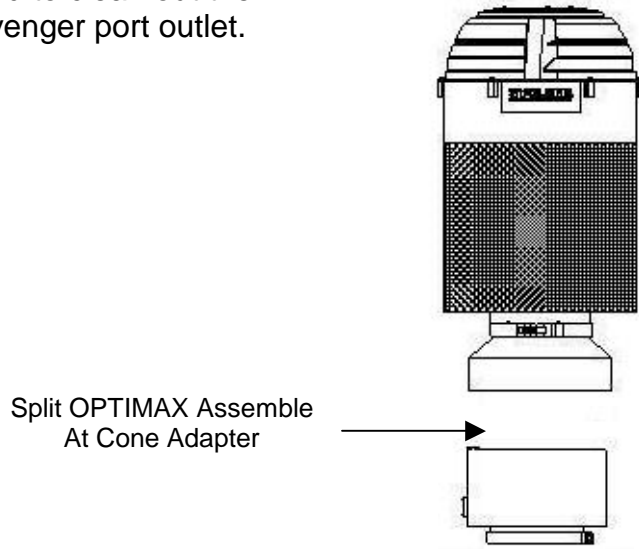


Figure 3

Step 4

After inspection of the OPTIMAX body, the Series 9000 Air Precleaner needs to be inspected as well. In order to inspect the Series 9000 Air Precleaner, turn the assembly that was previously removed upside down as shown in the Figure 4.

Reach down inside (**Caution!** The stop tabs on the inside throat of the Series 9000 Air Precleaner can be sharp) and spin rotor assembly with your hand. If rotor spins freely, turn the assembly over and blow out the ejection port with compressed air. **If the rotor does not spin then please call Sy-Klone at 1-800-351-8265 ext 310 immediately.**

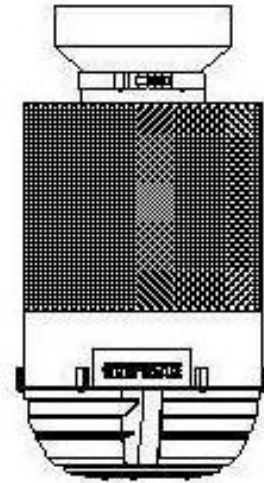


Figure 4

Personal injury may occur if compressed air is used to spin rotor!

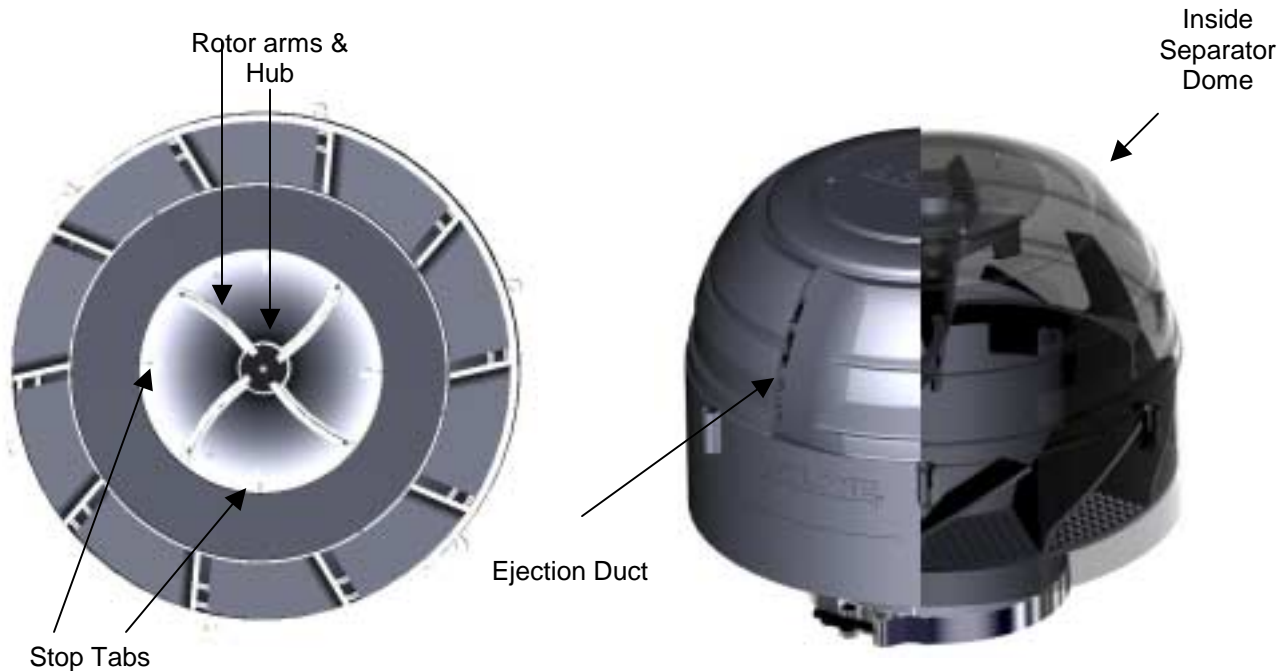


Figure 5

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Clean any debris off of the basket screen with compressed air.

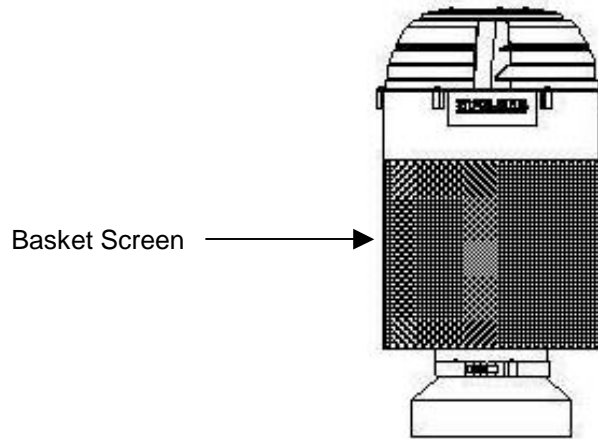


Figure 6

Step 5

Reassemble the OPTIMAX unit in the reverse order of the instruction steps above, then start the engine and run the engine at high idle. Check Ejection Duct on Series 9000 Air Precleaner for positive pressure with a piece of notebook paper. If paper blows away from the precleaner then it is operating properly.

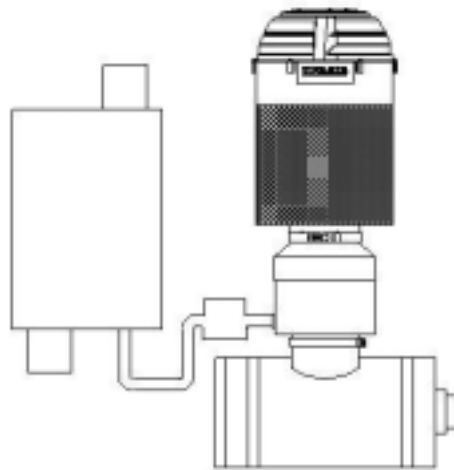


Figure 7

If you find any thing wrong with the OPTIMAX Dual-Stage Air Precleaner System please report it on the check sheet and call Sy-Klone's Service Department at 1-800-351-8265, ext. 310.