



Filtration made easy...

Working
Together



PowerCore® PSD

Service Instructions



1. Check the restriction

Replace the filter only when the restriction level has reached the maximum recommended by the engine or equipment manufacturer or on a regular scheduled service.



2. Check the Vacuumator™ Valve and pre-cleaner tubes

Shut off the engine. Inspect the Vacuumator Valve for damage. If damaged, replace. If plugged or full of contaminant, check the pre-cleaner tubes, which should be free of contaminant. If plugged or excessive contaminant is visible, the pre-cleaner tubes will need to be cleaned.

To clean the pre-cleaner tubes, remove the housing service cover and the Vacuumator Valve and leave the filter installed (to avoid dust from entering the air induction outlet). Use a low-volume of compressed air to gently blow out the separator tubes. The compressed air can be pushed through both sides of the tubes AND from the drop tube where the Vacuumator Valve attaches.

If compressed air is not available or the use of compressed air was not effective due to dried contaminant within the housing, remove the air cleaner from the machine and cover the air intake pipes to prevent contaminant from entering. Remove the primary and secondary filters and the Vacuumator Valve. Use a low pressure water (e.g. garden hose) to clean the tubes and inside of the housing. Direct the flow of water through the separator tubes from both ends and repeat as needed to clean out the housing. Spray out the Vacuumator Valve port, alternating between in and the separator tubes. Make sure that all internal housing services are dry prior to reinstalling the filters, Vacuumator Valve and air cleaner on the machine.



3. Remove the primary filter

Push down on the service handle to tilt the filter to a 5° angle. This will loosen the seal. Then, pull up on the service handle to remove the filter from the housing.



4. Visually inspect the safety filter

Remove any excess dirt and wipe out the housing with a damp cloth before servicing the safety filter. Visually inspect the safety filter but do not remove it unless it is damaged or due for change-out. Verify that the safety filter is properly seated in the housing. The safety filter should be replaced every three primary filter changes.



5. Remove safety filter if indicated or if excessively contaminated

To remove the safety filter, use the plastic handle on the face of the safety filter. Pull the filter toward the center of the housing and remove it. Ensure that the outlet tube sealing area is clean and undamaged. If the safety filter is removed and the new filter is not to be installed immediately, be sure to cover the seal tube with a cloth so that dirt is not admitted. After removing the safety filter, wipe the air cleaner housing interior and seal surfaces with a clean, damp cloth.



6. Inspect new filters

Visually check for cuts, tears or indentations on the sealing surfaces and the media pack before installation. If any damage is visible, do not install.



7. Replace the safety filter

If replacing the safety filter, use the plastic handle. Slide the filter at an angle into the outlet side and push it in place until the filter seats firmly and evenly within the housing.



8. Insert the primary filter

Slide the filter down at approximately a 5° angle until it makes contact with the end of the housing. Rotate the filter toward the outlet section to complete the seal.



9. Replace the service cover

Place the service cover in position and fasten the metal latches. If the cover doesn't seat, remove and re-check the filter position and access cover orientation.



10. Inspect the entire air cleaner system

Make sure that inlet and outlet connections are in good condition. Torque to and do not exceed 40 in/lb. Replace rubber connectors if necessary and reset the service indicator.