



## 10 Step Guide to Servicing Your **DirectFlow™** Air Filtration System

Properly servicing your genuine Fleetguard Direct Flow air filtration system is the best way to ensure the longevity of your filters and the maximum protection of your engine system. Please adhere to the following steps for best installation practices.

**1**

Basic tools required: clean water or rubbing alcohol, shop towel/rag/napkins (whatever you have available), permanent marker.



**2**

Allow filter element to reach 25 inches of restriction, as indicated by either cab indication light or by manual restriction indicator located on the air box, for maximum life and performance. Indicator appears red when restriction has been reached...push yellow button to reset back to green. **DO NOT** clean and reuse filter elements as this can damage the filter and will also void product warranty. Reference your OEM service manual for specific service interval recommendations.

**3**

Check all hoses downstream of the air box to ensure no potential leak points. Visually inspect all hoses and connection points, looking for any damage or gaps in the clamps. Use a feeler gauge to ensure the clamps have a snug fit at the connections. Inspect the air box for any damage or anything out of the ordinary.

**4**

For systems outfitted with a Dust Ejection Valve (DEV), typically located directly before the air box, open the valve to purge dust that may have collected inside. If dust does come out of the DEV, also check the precleaner for dust inside. Remove both tabs on the precleaner, remove and clean the precleaner, and reinstall by snapping tabs back tight.

**5**

Inspect the front of the air box for any damage or anything out of the ordinary. Remove the latches holding on the hatch cover, remove the hatch cover and check the gasket on the hatch cover for any cuts or damage. Set hatch cover out of the way with the outside facing the ground; hatch cover can be used as a holder for air filter elements once removed from air box.

# 6

Grab black handle on top of primary element to pull directly out of air box. Inspect primary filter element for any damage or waviness in the pleats which would indicate the element has been overused or exposed to water. Check to make sure primary element gasket is providing a good seal within the air box. Dust on gasket is not an indication that dust is passing downstream of the primary element; this dust comes from pulling primary element through debris field within air box as it is removed.

Look downstream for anything unusual after removing primary filter. A sheen of dust in the air box is typical; however, large amounts of dust within the air box is unusual and indicates that the element may not be properly seated within the air box or there is a problem with the system.

# 7

Dampen shop towel/rag with clean water and proceed to wipe down interior of air box where the primary element was located. Remove as much dust as possible while cleaning the air box, especially if also servicing the secondary filter element.

# 8

Remove secondary filter element by pulling on tabs and extracting from air box. Remember, system is exposed once secondary element has been removed so minimize this time. Inspect secondary element gasket for any cracks or splits in the rubber. Look downstream of secondary filter in the air box for anything unusual, and clean out the space with a damp shop towel/rag.

# 9

Write date code and number of hours on the equipment somewhere easy to read on both filter elements prior to reinstalling the secondary and primary filter elements. This service practice informs anyone servicing the equipment exactly when the filters were last changed.

# 10

Reinstall secondary and primary filters the same way that they were removed. Carefully push on corners of the filter elements until each corner seats against the air box; filter elements should snugly fit within air box. Place hatch cover back onto front of air box and tightly secure clamps.

**Congratulations!** You have successfully serviced a Direct Flow air filtration system! As stated earlier, allowing your Direct Flow system to reach 25 inches of restriction as indicated by the equipment's dash indicator or the manual indicator located on the air box is the best way to maximize the life and performance of the air filtration system and provides the maximum protection for your equipment's engine.

## Best Warranty in the Business.

The Cummins Filtration Warranty extends to our entire line of products, ensuring the same promise of performance and coverage beyond the competition. Visit [cumminsfiltration.com](http://cumminsfiltration.com) to learn more about the competitive benefits of the Cummins Filtration Warranty.



Visit our Youtube page to watch a Direct Flow service video!  
[www.youtube.com/watch?v=qUqQqC8drx0](http://www.youtube.com/watch?v=qUqQqC8drx0)