



FUEL FILTER CONVERSION KIT

2011+ 6.7L FORD | 121003

INSTALLATION GUIDE

HS-MOTORSPORTS.COM

Rev: 08.10.21

FUEL FILTER CONVERSION KIT

6.7L FORD



IMPORTANT!

Please inspect and thoroughly clean all parts prior to installation. Any small particle of dust or contamination can cause catastrophic failure to a fuel system. If you are unsure if you can install this product without contamination, please refer to a professional installation shop.

TROUBLESHOOTING

Please read and understand all installation instructions before proceeding with the installation. If you have questions during the installation of this product, please contact H&S Motorsports support at tech@hs-motorsports.com or (855) 623-4450.

INCLUDED PARTS

- | | |
|---|--|
| 1 - Billet Aluminum Fuel Filter Adapter | 1 - 90° Fitting |
| 2 - ORB Post Fittings | 1 - Baldwin Fuel Filter |
| 2 - ORB Plugs | 1 - Protective Filter Boot / Insulator |
| 1 - Fuel Injector Return Fittings | |

POWER THAT *WORKS.*

STEP 1

Disconnect the vehicle batteries.



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NOTE: Some residual fuel may still be present in the fuel lines. Have some shop towels/rags handy to clean up any fuel spillage that may occur.

STEP 2

ALL MODEL YEARS: Locate the factory upper fuel filter located at the top of the engine near the driver side. Disengage the locking tabs on the two large fuel lines by squeezing the locks and pushing up. Disconnect the two large fuel lines from the from the factory fuel filter.

2017+ TRUCKS: Slide the locking tab up on the smaller fuel line (injector return) and squeeze the sides of the fitting to release it from the factory fuel filter. All fuel lines should now be disconnected from the factory fuel filter.



STEP 3

After all fuel lines are disconnected from the factory fuel filter, carefully twist the filter counter-clockwise to release it from the factory filter mount as shown. Carefully pull up and remove the factory fuel filter from the vehicle. the factory fuel filter can be discarded at this time.

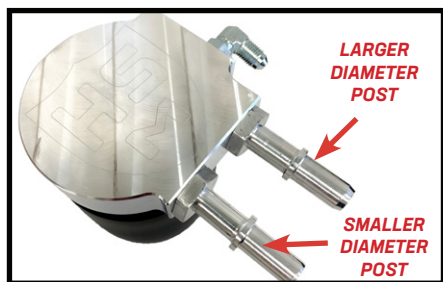
NOTE: The factory fuel filter will likely still contain fuel at the time of removal. Take care not to tip the filter excessively to prevent unnecessary spillage. Have some shop towels/rags handy to clean up any fuel spillage that may occur.



NOTE: In some custom applications, different figure configurations may be required. Never use thread sealant (tape or paste) with ORB style fittings.

STEP 4

Locate the supplied HSM fuel filter adapter housing, (2) ORB post fittings. Install the ORB post fittings in the fuel filter adapter housing with the LARGER diameter post fitting in the RIGHT port as shown.

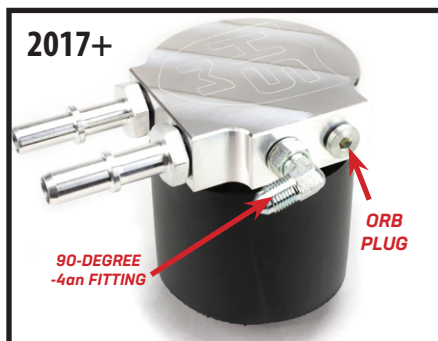
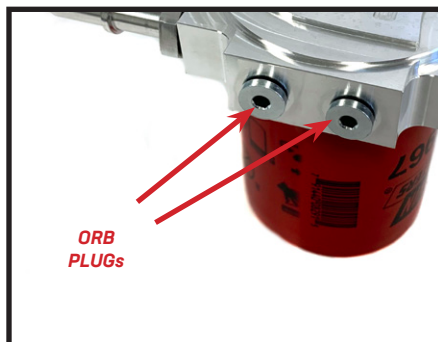


STEP 5

NOTE: We have updated the fittings in our new kits. There are still kits out there with previous style fittings. Your kit may look different than these instructions. They function the same.

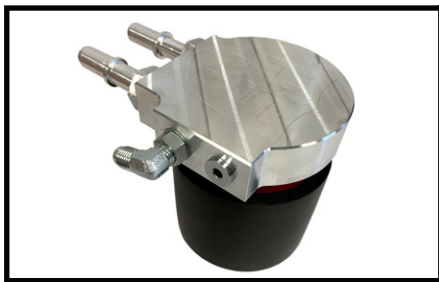
2011 - 2016 TRUCKS: Your HSM Fuel filter housing may already have the 90 degree injector return fitting installed for the 2017+ trucks. If it does remove it and install the two plugs as shown for the 2011-2016 trucks. Locate the two ORB o-ring port plugs. Put vaseline or grease on the o-rings and tighten them into the ports on the filter housing as shown.

2017+ TRUCKS: Locate 90 degree o-ring ORB fitting if it already isn't installed. Put vaseline or grease on the o-ring and install it into the forward port on the filter housing as shown. Orient the fitting as shown or to installer preference and snug jam nut up. If it is not installed or clocked as preferred you may loosen the jam nut ONLY slightly and orient the fitting. The fitting does not need to be removed! Make sure to re-tighten the jam nut. Locate the ORB o-ring port plug and repeat the previous step for rear port on the housing as shown. Tighten plug.



STEP 6

If desired, the supplied fuel filter may be primed with clean diesel fuel or ATF (not required). Apply a light coat of clean engine oil to the supplied fuel filter o-ring gasket and install the filter onto the HSM fuel filter housing assembly (hand tight). Install the supplied fuel filter boot/insulator onto the fuel filter and carefully slide the new HSM fuel filter assembly into the factory location.



STEP 7

Orient the HSM fuel filter assembly so that the two large large post fittings line up with the previously disconnected factory fuel lines. Carefully reconnect the two large factory fuel lines to the post fittings on the HSM fuel filter assembly. After ensuring that the fuel lines are fully seated, re-engage the factory fuel line locking tabs as shown.

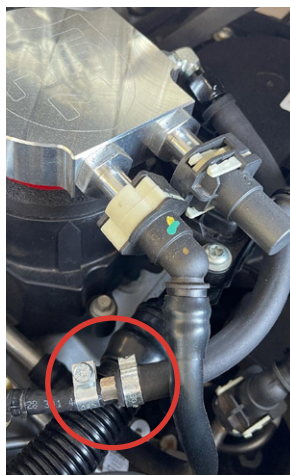
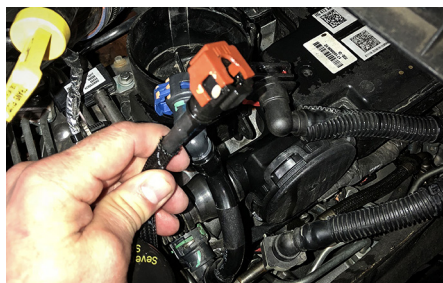


NOTE: *One of the post fittings is a larger diameter than the other. Be sure that you are connecting the fuel lines to the appropriate fittings (same as stock configuration). Excessive force should not be required for reconnecting the fuel lines.*

NOTE: When dealing with fuel system components, always take extra precautions to avoid contamination.

STEP 8

2017+ TRUCKS ONLY: Locate the third (smaller) factory fuel line (this is the injector return). With a clean, sharp hose cutter or similar tool, cut the factory rubber hose up as close as possible to the plastic fitting where the factory hose is pushed onto the plastic barb at the injector return hose end. Install supplied -4an hose pigtail and barb as shown using the supplied fuel injection clamp on the small side of the injector return line and tighten clamp. Re-route injector return hose as desired and connect to the -4an 90 degree fitting. Tighten fitting.



STEP 9

Ensure that all connections are secure. Re-connect the vehicle batteries. Turn the key to the RUN position for 30 seconds (do not start the engine yet) to prime the fuel system. After priming, re-check all work to ensure that no leaks or other issues are present. If no issues are found, start the engine and check for leaks again.

Enjoy your H&S Motorsports fuel filter conversion kit!





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