



FUEL FILTER CONVERSION KIT

2011+ 6.7L FORD | 121003

INSTALLATION GUIDE

HS-MOTORSPORTS.COM

FUEL FILTER CONVERSION KIT

6.7L FORD



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 - 1/8" NPT Plug |
| 2 - ORB Post Fittings | 1 - Baldwin Fuel Filter |
| 3 - ORB Plugs | 1 - Protective Filter Boot / Insulator |
| 1 - Fuel Injector Return Fittings | |

POWER THAT *WORKS.*

STEP 1

Disconnect the vehicle batteries.



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.

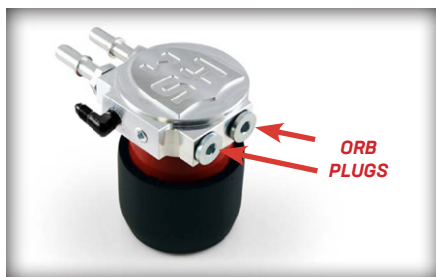
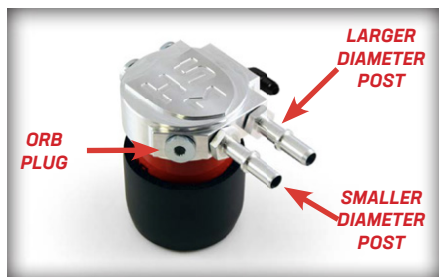
NOTE: The factory fuel filter will likely still contain fuel at the time of removal. Take care not to tip the filter excessively to prevent unnecessary spillage. Have some shop towels/rags handy to clean up any fuel spillage that may occur.



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

STEP 4

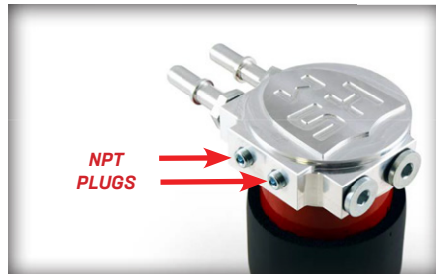
Locate the supplied HSM fuel filter adapter housing, (2) ORB post fittings, and (3) ORB plugs. Install the ORB post fittings in the fuel filter adapter housing with the LARGER diameter post fitting in the RIGHT port as shown. Install the ORB plugs in the (3) remaining ORB ports as shown.



STEP 5

2011 - 2016 TRUCKS: Using thread sealant, install the two supplied 1/8" NPT plugs in the 1/8" NPT ports on the filter housing as shown.

2017+ TRUCKS: Using thread sealant, install 90 degree -4an fitting in the front 1/8 NPT port and one 1/8 NPT plug in the rear port as shown. Ensure when tight the 90 degree fitting faces forward as pictured.



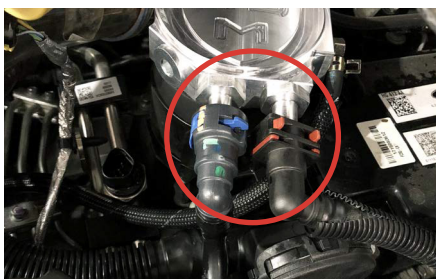
STEP 6

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 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.

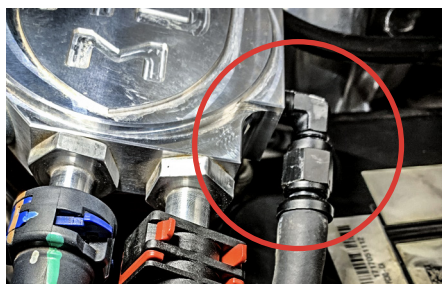
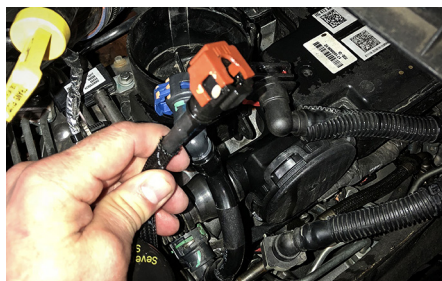


NOTE: *One of the post fittings is a larger diameter than the other. Be sure that you are connecting the fuel lines to the appropriate fittings (same as stock configuration). Excessive force should not be required for reconnecting the fuel lines.*

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 about 4" back from where the factory rubber injector return hose ends. Install supplied -4an hose pigtail and barb as shown using spring clamp on small side of injector return line. 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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