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VW MKIV High Flow Fuel Pump Install Instructions

Introduction:

High flow fuel pump kit designed to plug 'n play directly into all MKIV VW Jetta/Golf 1.8T and VR6, including R32. This kit utilizes the tried and true Walbro 255 LPH in line pump. Factory style fittings and lines are provided to allow this pump to be installed without modification to factory fuel lines. An extensive wiring kit is also included to complete the package.

Package contents:

- 1-Walbro 255 LPH inline pump
- 2-Bundy style pump fittings w/sealing washers
- 1-Foam insulator w/straps
- 2-#6 Eye loop connectors
- 1-Short hose assembly
- 1-Long hose assembly
- 6-Mounting screws
- 2-#10 ring terminal
- 1-Butt connector (special)
- 1-Wiring assembly
 - 1-Relay
 - 1-20 amp breaker
 - 1-Terminated wire leads
 - 1-Ground wire

Advisements:

You are working on a fuel system, please work in a well-ventilated area! Always use eye protection. We advise the use of a lift, but if using a jack make sure to use jack stands and

be sure the car is well supported. Before operating vehicle be sure to prime fuel system and check for leaks.

Step 1:

Determining pump on signal wire

Remove passenger side rear seat lower. Remove 3-bolt access cover to expose electrical connection on top of fuel pump module. Start vehicle and using a meter, probe connector to determine which wire is +12V for factory fuel pump. It is one of the latter 2, and normally brown is for ground.

Note: determining the correct wire using factory service manual can skip this step.

Step 2:

Safety

Disconnect -12V battery cable.

Step 3:

Installing relay and circuit breaker under dash

Remove lower dash panels on driver's side. Locate ignition on stud labeled #75. *See fig.1*

Remove 10mm nut and attach short red wire lead with 1/4" ring terminal on stud. Find a suitable place to mount circuit breaker and relay using supplied screws. Holes will need to be drilled for these screws, they are not self tapping. Be sure terminal studs on circuit breaker cannot ground out. Find a suitable ground spot and crimp supplied ring terminal to black wire and attach.

Step 4:

Running wires to rear

Run long red and blue wires down left kick panel and underneath left doorsill. Then route wires underneath rear seat to fuel module access cover. Wires need to be routed under cover. A hole can be drilled or floor can be deformed to allow wires to go between cover and floor. Do not drill through fuel tank. With either method make sure wires cannot be crushed or be chafed.

Step 5:

Crimp signal wire

Using supplied butt connector (special, one wire in/two wire out) splice into +12V pump wire found in step 1. Tape will need to be unwrapped a few inches on factory harness. Cut the +12V pump wire and strip back each side. Connect blue signal wire from relay and one side of +12V cut wire to one side of butt connector. Re-connect +12V cut wire with other side of butt connector. Shrink heat shrink using a heat gun or other suitable method. This is probably not a good place to use an open flame though. Re-tape harness. *See Fig.2*

Step 6:

Route red wire to inline pump

The red wire from relay needs to be routed from the access cover to down near fuel filter. Feed wire along top of tank following fuel lines. This is a little difficult. A second person looking up from underneath waiting to grab it will be a big help. Make the wire come down in front of the fuel filter.

Step 7:

Remove fuel filter

Disconnect inlet and outlet connections on fuel filter. Be careful, the system is still under pressure, it will spray. Take filter completely out.

Step 8:

Install hoses

Run provided hose assemblies above fuel filter mounting bracket. Run longer line on passenger side of bracket and shorter one on the driver's. Connect male bundy quick connect to female bundy connector which used to connect to the inlet of fuel filter. This hose will end up connecting to the inlet of the inline pump. Re-install fuel filter and connect female bundy quick connect of provided hose assembly to the inlet of the fuel filter. Re-install factory outlet connection on filter. Make sure no hoses are being pinched or kinked.

Step 9:

Mount pump

Install bundy style fittings on pump. Do not forget the sealing washers. Slide foam insulator over pump. Mount pump and connect hoses as shown in *Fig.3*. It may be easier to make electrical connections before pump is secured.

Step 10:

Pump wiring connection

Cut red wire from relay to length and crimp on a #6 ring terminal. Attach to + side of pump. Using supplied piece of black wire attach a #6 ring terminal to one side, then attach to - side of pump. Find a suitable spot to ground pump using one of the screws and #10 ring terminal provided. Be sure to grind paint and undercoat off to insure good ground.

Step 11:

Check for leaks

Verify there are no leaks

