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DODGE WATER IN FUEL SENSOR KIT

Add on Accessory for the BD Venom Filter Kit

1050352

2000-2007 Dodge 5.9 WIF Kit

1050353

2007-2019 Dodge 6.7 WIF Kit

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

Water In Fuel Sensor Kit Information

The water in fuel (WIF) sensor kit allows installation of a new WIF sensor into the Venom pump system using a new filter, sensor, and extension harness which will connect it to the vehicles original WIF sensor wiring. Once installed, the WIF warning in the instrument cluster will be functional using the new sensor.

This kit is strongly suggested on installations that bypass the stock fuel bowl, such as the BD Monster Line kit as the factory water separator will no longer be functional. It is also recommended for any installations of a water separator filter with a Venom pump as the new filter will collect water, not the factory fuel bowl.

Tools Required




- 3/4", 1", and 1-1/2" wrenches
- Side cutter
- Hose pinch pliers (optional)

Kit Contents

Dodge 5.9 Kit - 1050352

1500291	395351700S	1300131	1500364	1500367	P550249- VEN
					
Sensor Extension Harness	WIF Sensor	Tie Wrap	Adapter; 7/8 NC x 16mm CZP	Adapter; WIF Sensor to Filter	Fuel Separator & O-Rings
Quantity 1	Quantity 1	Quantity 6	Quantity 1	Quantity 1	

Dodge 6.7 Kit - 1050353

1500290	395351700S	1300131	1500364	1500367	P550249- VEN
					
Sensor Extension Harness	WIF Sensor	Tie Wrap	Adapter; 7/8 NC x 16mm CZP	Adapter; WIF Sensor to Filter	Fuel Separator & O-Rings
Quantity 1	Quantity 1	Quantity 6	Quantity 1	Quantity 1	

Installation Instructions

1. Pinch off the hose leading to the BD Venom water separator filter to reduce fuel leakage during installation (optional).



2. Place a suitable drain pan below the water separator filter.

Remove the water separator filter and drain.

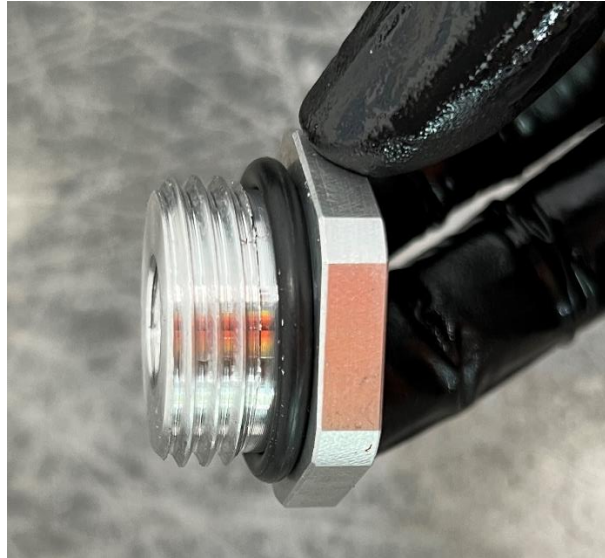


3. Replace the threaded adapter in the filter head with the new one included in the kit.

Install the new water separator filter onto the threaded adapter.



4. Install the O-ring supplied with the filter onto the adapter.



5. Check that the new WIF sensor O-ring is present, and then thread the sensor into the filter to WIF adapter.

Install with 19mm or 3/4" wrench. DO NOT OVER-TIGHTEN

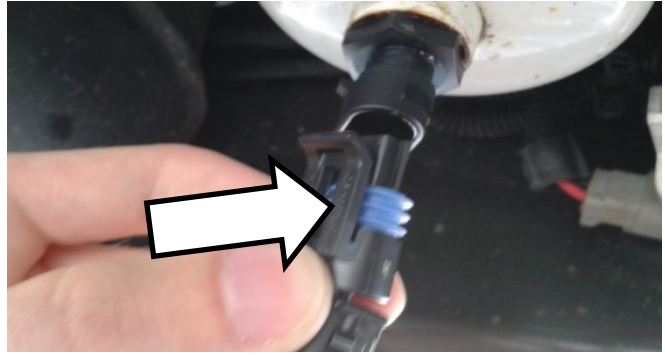


6. Install the WIF filter adapter and sensor into the water separator.

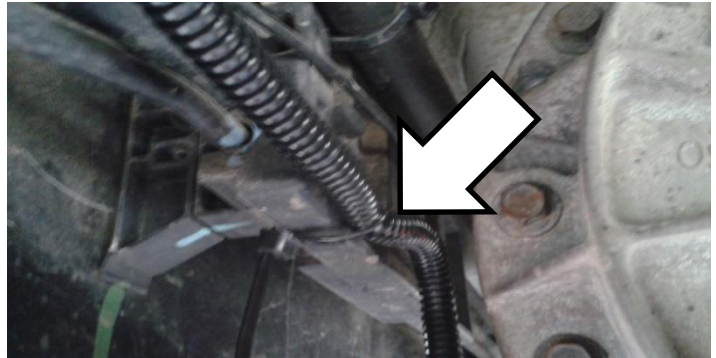
Note: Tighten until o-ring bulges



7. Connect BD wiring harness to the sensor and route the wire towards the engine bay.



8. Secure the wiring parallel to the fuel lines, securing with zip ties on the inside of the frame rail.

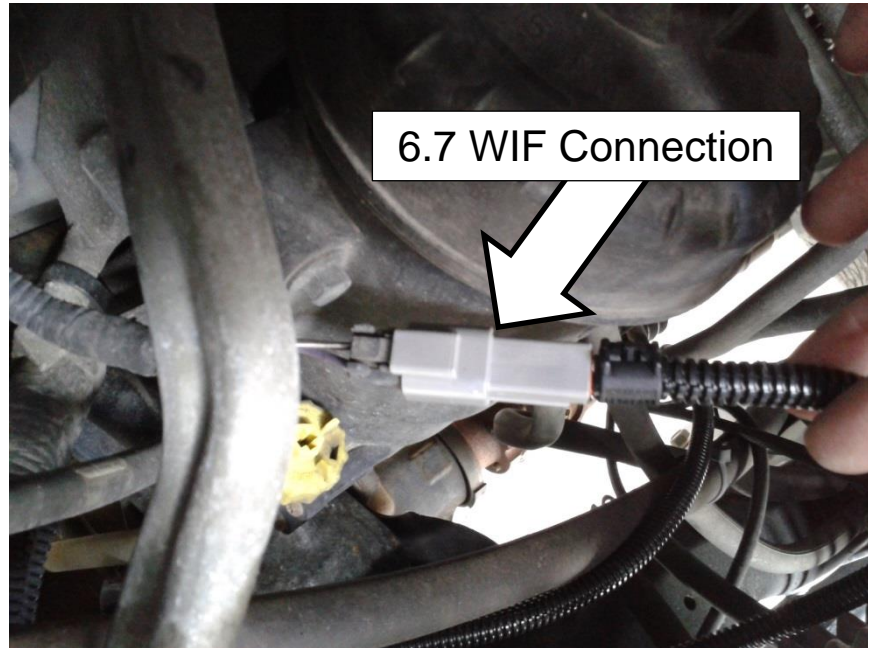


9. Locate the factory water in fuel sensor at the stock fuel bowl on the driver's side of the motor. The sensor is on the front side of the housing.

Disconnect the wiring connector from the old sensor.



10. Plug the new BD wiring harness into the vehicle's original sensor wiring.



11. Turn the key on and wait for pump to prime the fuel filter before starting engine. Check for leaks from the sensor.

Maintenance

The water separator filter should be periodically drained as per normal vehicle maintenance schedule. To drain the filter simply unplug the sensor and unscrew it.

If the water in fuel light illuminates in the dash, drain the filter as soon as possible to avoid allowing water to reach the injection system.



Troubleshooting

WIF Light on all the time
(all models)

- Unplug the WIF sensor – if light goes out, clean or dry off the sensor probe ends on the inside of the filter housing

WIF Light on all the time
(6.7L engine only)

- Ensure BD harness is connected to the factory wiring connector
- Disconnect harness from vehicle and sensor. Measure resistance across the two wires. Should measure approx. 82,000ohm (82k ohm)

WIF Light does not turn on

- Check for dirty or badly corroded WIF sensor pins
- Check for continuity through harness

Fuel Leaks from Sensor

- Remove sensor and check O-ring for cuts or deformation - replace O-ring as necessary

If you have any technical difficulties, concerns or comments, please phone our Technical Support hotline at (800) 887-5030 between 8:30am-5:00pm PST (Pacific Standard Time) Monday to Friday.