

## RYCO FUEL WATER SEPARATOR FILTER KIT - RFWK102

Application: Toyota Hilux & Fortuner Gun Series 2.8L Turbo Diesel

ENGINE BAY LOCATION:

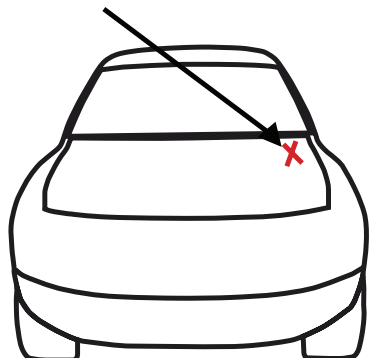


ILLUSTRATION ONLY

Kit Contents:

Item Description	Qty
Ryco Fuel Water Separator Filter	1
Additional Z980 Filter	1
3/8" X 1/4"-18NPT Right Angle Fitting	2
Flat Washer 6mm	2
Hex Bolt M6*25mm	3
Flange Nut M6	3
Fuel Hose Clamp 8-16mm	4
Fuel Injection Hose (10mm)	1
Thread Sealant Loctite 567	1
Installation Bracket	1
Cable Tie	3
Fitting Instructions RFWK102	1

### WARNING:

1. Ryco recommends the assembly be fitted as a pre-filter only acting as a first line of defence.
2. Ensure the engine bay and work station is clean from contaminants that may get into the components to be fitted.
3. To avoid fuel leaks apply Loctite® 567 thread sealant (supplied) to all brass fittings fitted to the filter assembly.

Caution: Beware of hot engine bay components.

### Steps:

1. The Ryco filter bracket is a replacement of the factory bracket. The factory bracket needs to be removed.
2. To remove the factory bracket start by disconnecting the electrical connector from the factory filter housing. There is a small clip on the factory bracket holding a cable. Remove this clip.
3. Remove the bolt securing the ECU to the wheel arch besides the factory filter bracket. Grab the factory filter housing assembly and lift up to remove from the bracket. To fully remove the filter housing from the bracket, unclip the harness clip from the bracket.
4. Remove the 5 bolts securing the factory bracket to the vehicle. The factory bracket is no longer required.
5. Fit the Ryco bracket in the same position as the factory bracket reusing the original 5 bolts. Slide back into place the factory filter housing, secure the ECU to the right hand side of the bracket, reconnect the electrical connector and harness clip.
6. Install the brass fittings to the Ryco filter aluminum assembly using the thread sealant supplied to avoid fuel leaks. Apply the sealant all around the first two threads of the fitting and apply a small amount to the first couple of threads on the assembly. The elbow fitting goes in the inlet side, it needs to be facing upwards in a 2-3 o'clock position. The straight fitting goes in the outlet side. Lastly, use the two 6mm bolts, washers and nuts to secure the filter assembly to the bracket. Make sure the filter, the bowl and the drain plug are all screwed in properly.
7. Remove the fuel hose from the inlet side of the factory filter and connect to the inlet of the Ryco unit securing the hose to the fitting with one of the supplied clamps.
8. Fit the fuel injection hose (supplied) to the outlet fitting of the Ryco unit and the other end to the inlet side of the factory filter housing. Cut the hose the required length and secure both ends with clamps (supplied).
9. Prime the fuel system by pumping the primer on top of the factory filter housing until it becomes firm. Start the engine and check for any fuel leaks. If the engine stalls, prime again and restart the engine.
10. Inspect the fuel filter bowl frequently for any signs of water. If water is visible loosen up the drain plug and let the contaminated fuel drain out until clean fuel comes out. Tighten the drain plug. To complete the installation pour some water around the engine bay filter area to flush out any subsidiary diesel fuel.