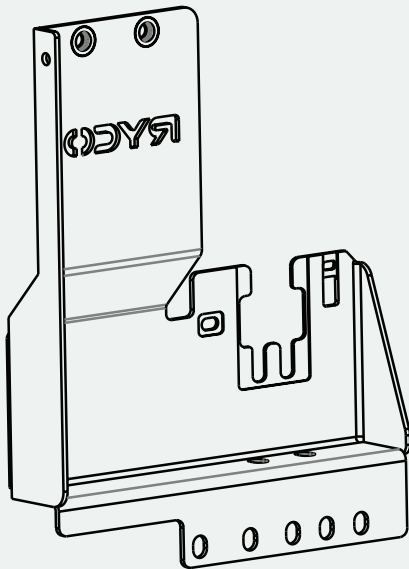


X102FW™

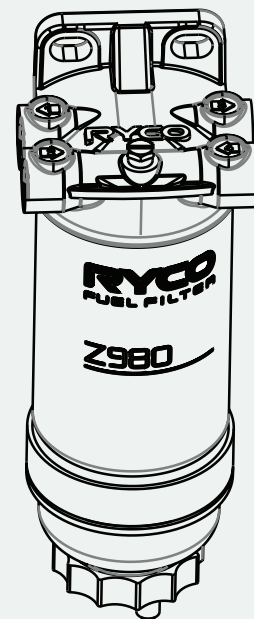
X102FW FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

TOYOTA HILUX GUN / FORTUNER 2015-ON - See RYCO catalogue for specific application details..

The Ryco X102FW kit includes mounting brackets specifically designed for the vehicle, and all components required to complete the installation of Ryco Z980K16 series fuel water separator (FWS). It is recommended that the installation is conducted by a qualified mechanic following the procedures in this instruction sheet.



SECTION 1
FUEL WATER SEPARATOR MOUNTING BRACKET



SECTION 2
FUEL WATER SEPARATOR

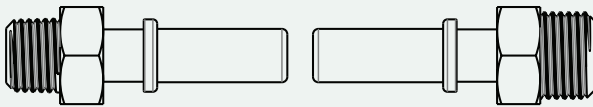
COMPONENTS INCLUDED IN X102FW KIT

PARTS LIST - FUEL FILTER BRACKET & COMPONENTS BOX

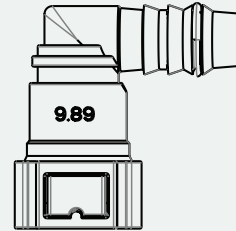
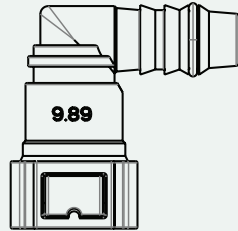
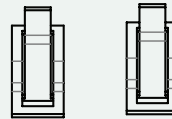
MS4044
CABLE TIE x 20



MS4096A
QUICK CONNECTOR x 2



MS4042
FUEL HOSE CLAMP x 2



MS4081
ELBOW CONNECTOR x 2

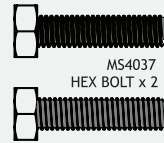
MS4036
FLAT WASHER x 2 (M6)



MS4099
NYLON LOCK NUT x 1 (M6)

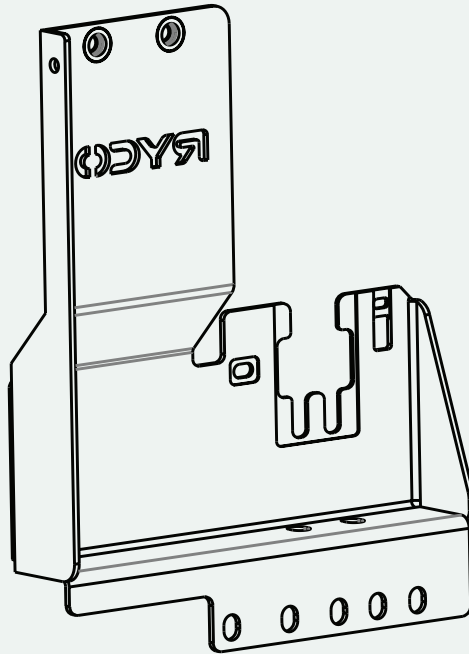


MS4037
HEX BOLT x 2 (M6)

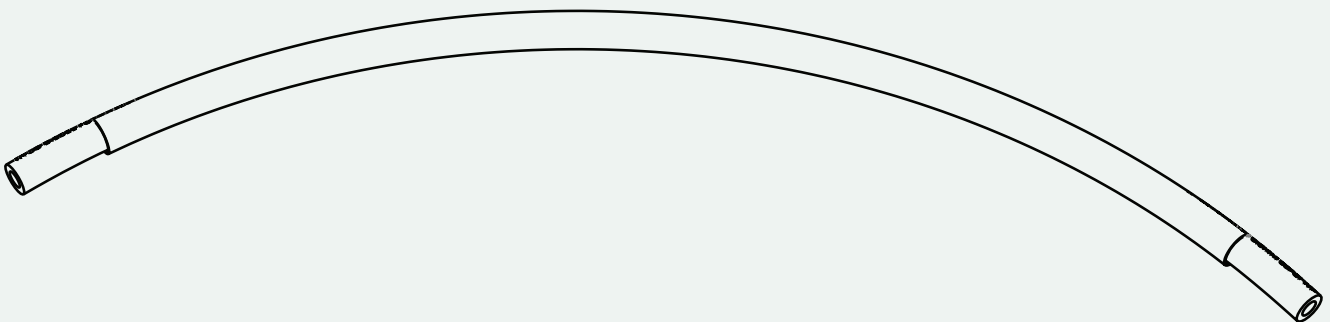


COMPONENTS INCLUDED IN X102FW KIT

FB9808FC
FUEL FILTER MOUNTING BRACKET x 1

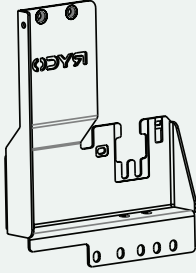


HF9808
FUEL HOSE x 1 (720mm)

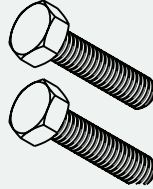


SECTION 1 FUEL WATER SEPARATOR MOUNTING BRACKET FITMENT

PARTS REQUIRED



FB9808FW
Fuel Filter Mounting Bracket



MS4037
Hex Bolt x 2 (M6)



MS4099
Nylon Lock Nut x 1 (M6)



MS4036
Flat Washer x 2 (M6)

TOOLS & PPE REQUIRED

- Ratchet Set
- Work Gloves

WORK PROCEDURE

- 1 The Ryco fuel filter bracket replaces the factory bracket. The factory bracket needs to be removed.
- 2 To remove the factory bracket, disconnect electrical connector (V), dismantle filter housing lock cable clip (W) and cable harness clip (X). Remove the bolt securing the ECU to the wheel arch beside the factory filter bracket (Y). See detail in FIG. 1.
- 3 Grab the factory filter housing assembly and lift up to remove from the factory bracket. Remove the 5 bolts securing the factory bracket to the vehicle. The factory bracket is no longer required, store for safe keeping.
- 4 Fit the Ryco bracket in the same position as the factory bracket reusing the 5 factory bolts (A) and a supplied bolt and washer (B). Secure the ECU to the right hand side of the bracket using the supplied M6 bolt, washer and lock nut (C) (Check detail in per FIG. 2.)
- 5 Slide the factory cable filter housing assembly on to the Ryco fuel filter bracket. Connect electrical connector, fit filter housing lock cable clip and cable harness clip. Tighten all fasteners.

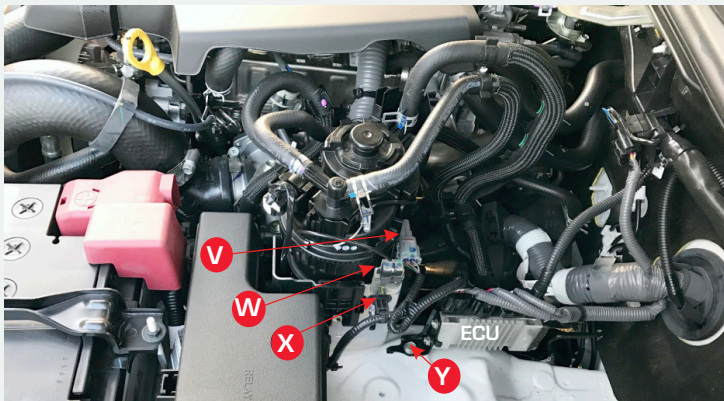


FIGURE 1
FACTORY FUEL FILTER IDENTIFICATION

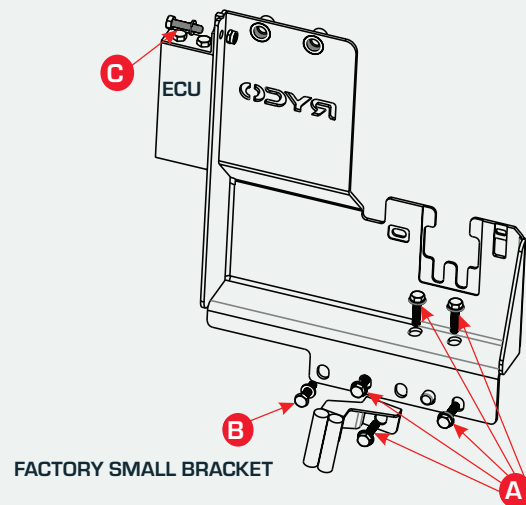


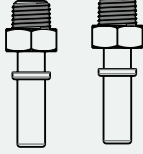
FIGURE 2
BRACKET INSTALLATION

SECTION 2 FUEL WATER SEPARATOR INSTALLATION

PARTS REQUIRED



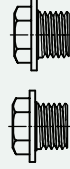
Z980K16
Fuel Water Separator



MS4096A
Quick Connector x 2



MS4042
Fuel Hose Clamp x 2



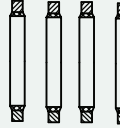
M16
Plug x 2



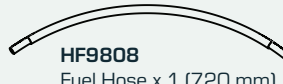
M10
Washer x 2



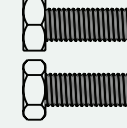
M10
Flange Nut x 2



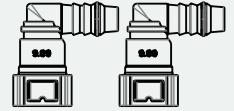
Rubber Bonded Washer x 4



HF9808
Fuel Hose x 1 (720 mm)



M10
Bolt x 2



MS4081
Elbow Connector x 2

TOOLS & PPE REQUIRED

- Ratchet Set
- Hose Clamp Pliers
- Work Gloves
- Rags

WORK PROCEDURE

- 1 Select the supplied quick connectors that fit the Ryco fuel water separator head.
- 2 Locate the blanking plugs supplied with the fuel water separator.
- 3 Install the Ryco fuel water separator head with metal quick connectors, blanking plugs and rubber bonded washers, as per FIG 3. Tighten blanking plugs (on Port 3 & 4) and quick connectors (on Port 1 & 2).
- 4 Install two supplied elbow connectors onto one end of both supplied fuel hoses and install four supplied fuel hose clamps onto both ends of fuel hoses, as per FIG. 4. Do not tighten fuel hose clamps yet.

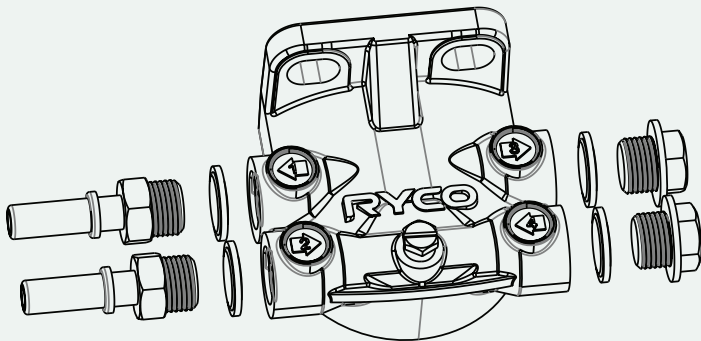


FIGURE 3
FUEL WATER SEPARATOR HEAD PREPARATION

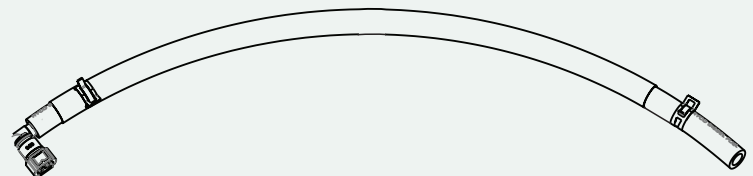


FIGURE 4
FUEL HOSE PREPARATION

SECTION 2 FUEL WATER SEPARATOR INSTALLATION

WORK PROCEDURE

- 1 Locate the fuel inlet hose at the factory fuel filter. Loosen the factory fuel hose clamp and disconnect the fuel supply line coloured green in FIG. 5) from the factory filter. Have a rag ready to capture any diesel that may spill out of the fuel line and the fuel filter. Then install supplied fuel hose clamp and insert the supplied elbow connector (MS4081) onto the end of fuel supply line, do not tighten fuel hose clamps yet.
- 2 Mount the Z980K16 fuel filter assembly onto the fuel filter bracket facing to the engine using the two (2) black M10 bolts and washers supplied with the Z980K16
- 3 Connect the fuel supply line which has been prepared in step 5 to the inlet port of the Z980K16 (coloured blue in FIG. 6) by pushing the elbow connector onto the metal quick connector until you hear a "click".
- 4 Connect HF9808 hose to the outlet port of the Z980K16 (coloured yellow in FIG. 6) by pushing the elbow connector onto the metal quick connector until you hear a "click", and route the other end as per FIG. 6. Connect the end of the fuel hose to the factory fuel filter inlet port, then secure with a hose clamp.
- 5 Ensure all hose clamps are secure. Check both fuel hoses are not jammed or kinked. For added security, use the supplied cable ties to secure the fuel hoses if necessary.
- 6 Locate the priming button on top of the factory fuel filter. Prime the fuel system by pumping the button repeatedly until you feel it go hard and become difficult to press any further. The priming process could take approximately 5 - 10 minutes.
Note: DO NOT open the bleed screw on the Z980K16 during the priming process.
- 7 Once the fuel system has been primed, start the engine. Check for any leaks.

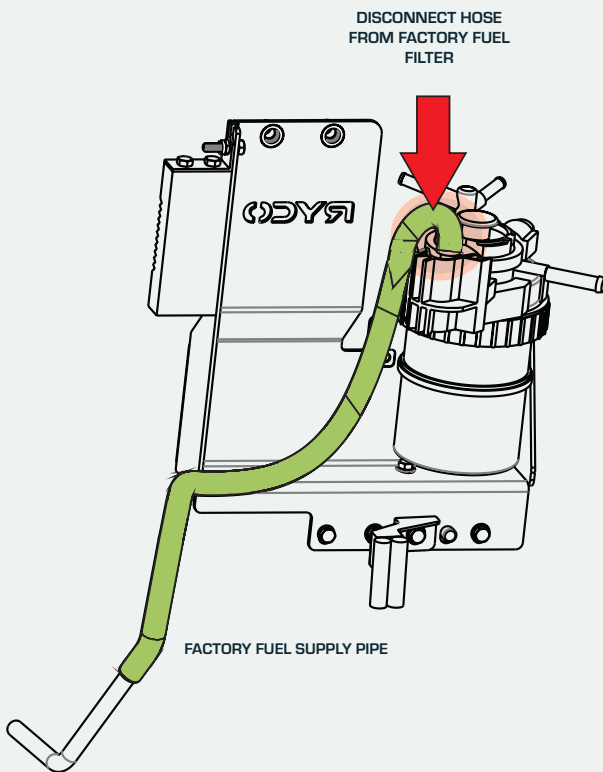


FIGURE 5
FACTORY HOSE IDENTIFICATION

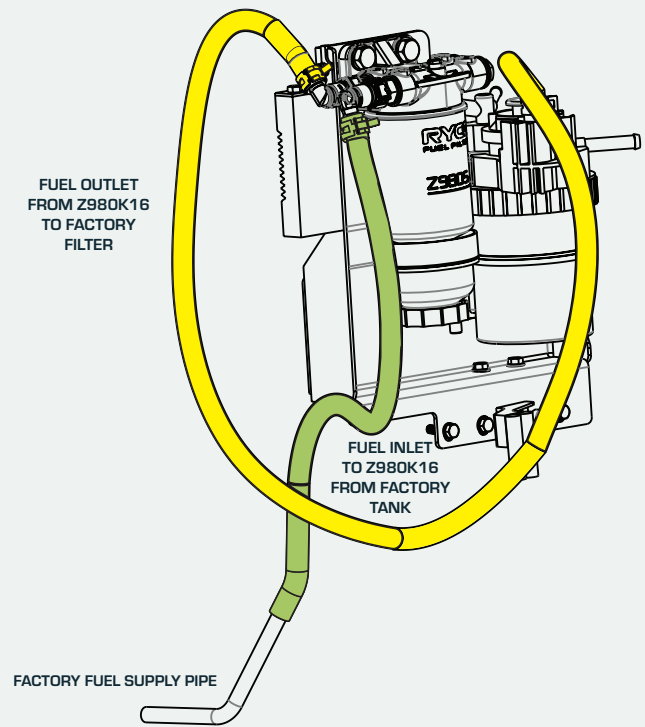


FIGURE 6
FUEL WATER SEPARATOR INSTALLATION

X102FW™

X102FW FUEL WATER SEPARATOR FITMENT INSTRUCTIONS