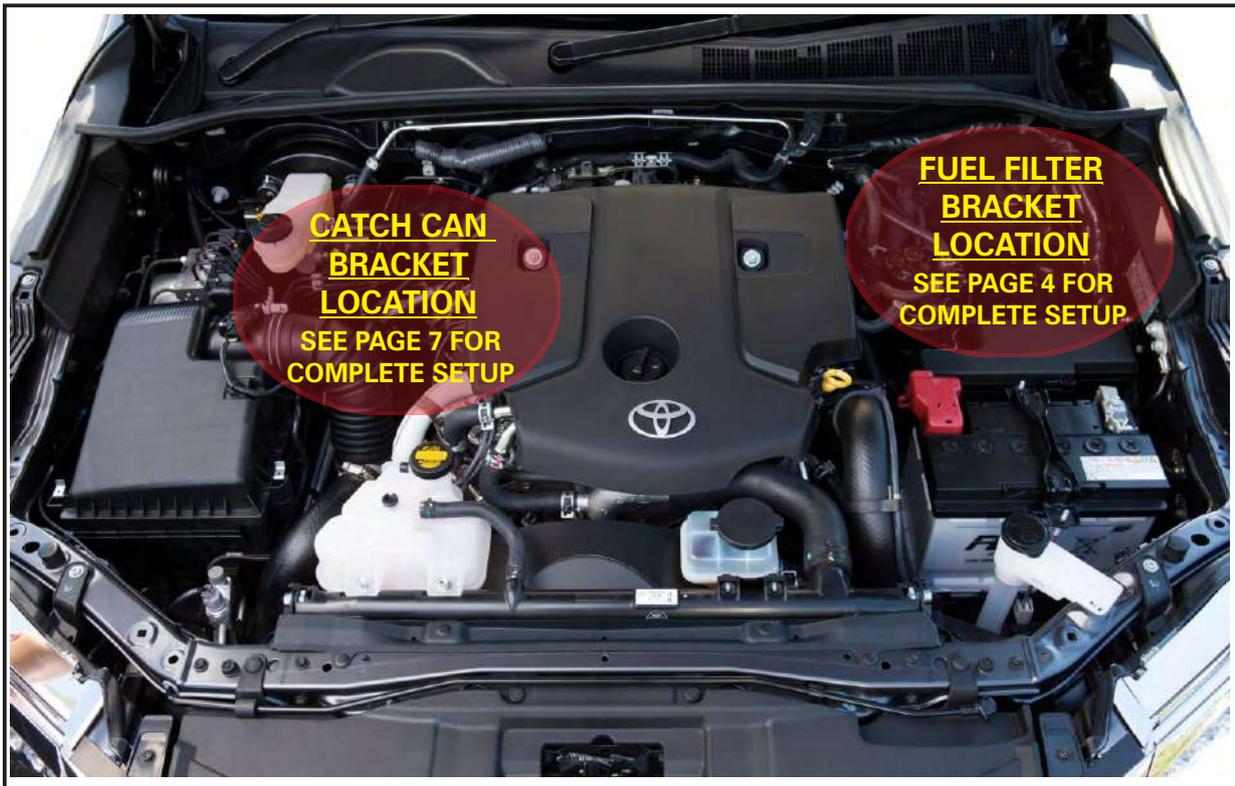


X102R FUEL WATER SEPARATOR / CATCHCAN FITMENT INSTRUCTIONS

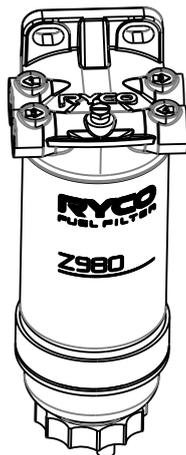
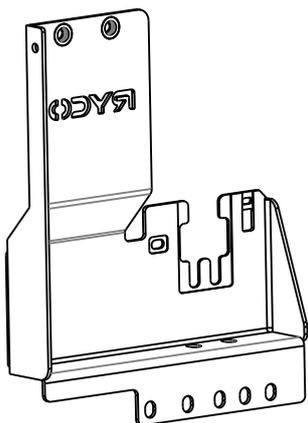
TOYOTA HILUX GUN / FORTUNER 2015-ON - See RYCO catalogue for specific application details.

The Ryco X102R kit includes mounting brackets specifically designed for the vehicle, and all components required to complete the installation of Ryco Z980K16 series fuel water separator and RCC351 series catchcan. It is recommended that the installation is conducted by a qualified mechanic following the procedures in this instruction sheet.



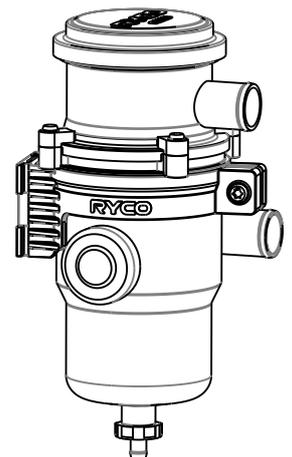
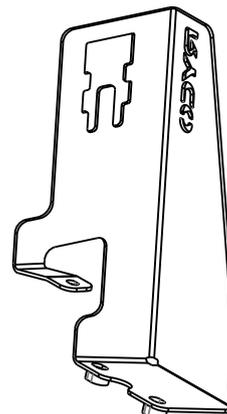
SECTION 1

FUEL FILTER METAL BRACKET FUEL WATER SEPARATOR



SECTION 2

CATCH CAN METAL BRACKET CATCHCAN



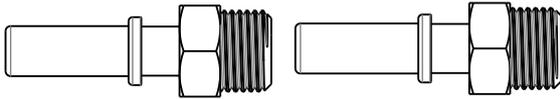
COMPONENTS INCLUDED IN X102R KIT

X102R PARTS LIST - BRACKET / FUEL FILTER COMPONENTS BOX

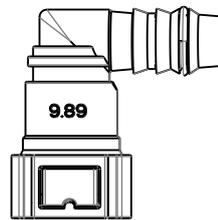
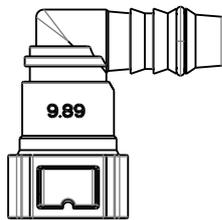
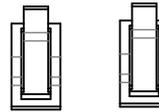
MS4044
CABLE TIE x 20



MS4096A
QUICK CONNECTOR x 2



MS4042
FUEL HOSE CLAMP x 2



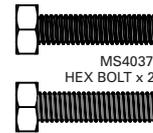
MS4081
ELBOW CONNECTOR x 2



MS4036
FLAT WASHER x 2 (M6)

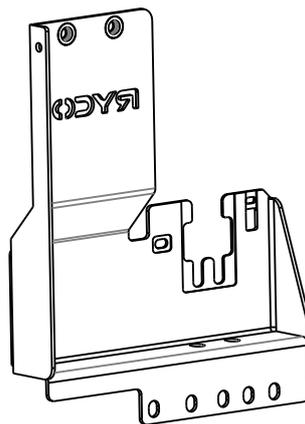


MS4099
NYLON LOCK NUT x 1 (M6)

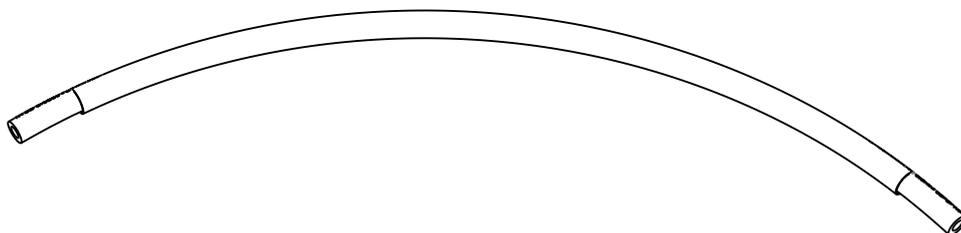


MS4037
HEX BOLT x 2 (M6)

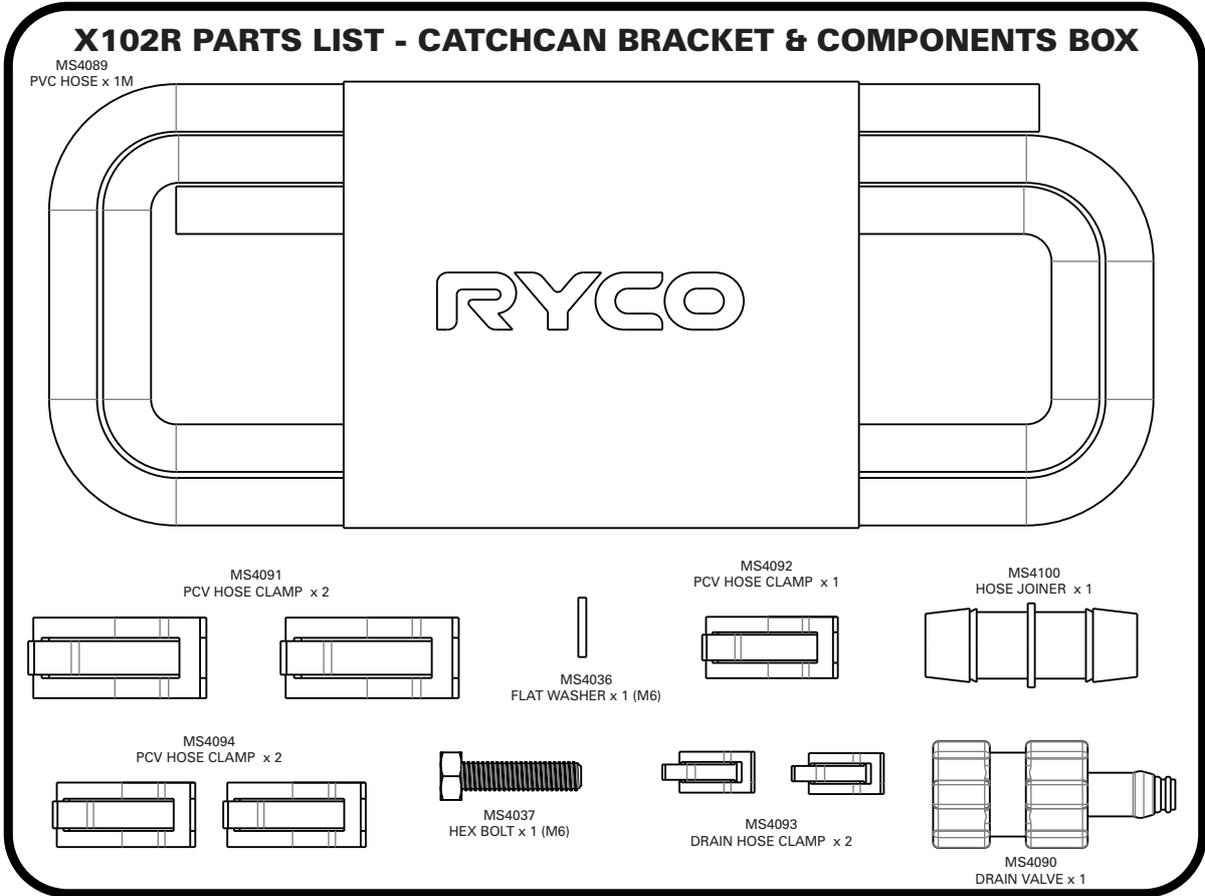
FB9808FC
FUEL FILTER METAL BRACKET x 1



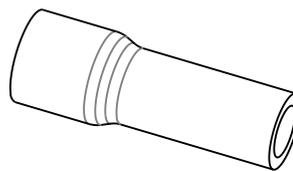
HF9808
FUEL HOSE x 1
(720mm)



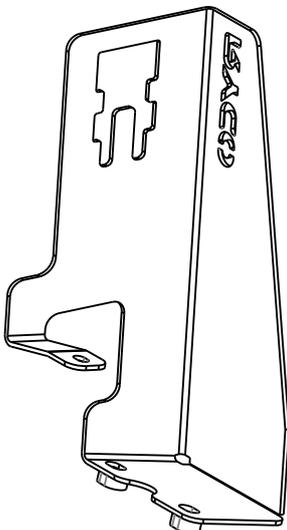
COMPONENTS INCLUDED IN X102R KIT



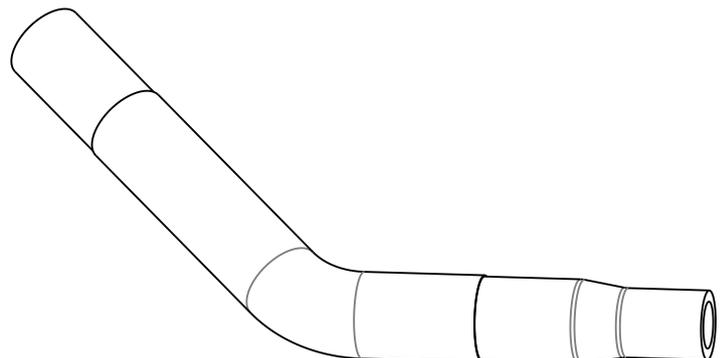
MH9808A PCV HOSE x 1



FB9808CC
CATCH CAN METAL BRACKET x 1

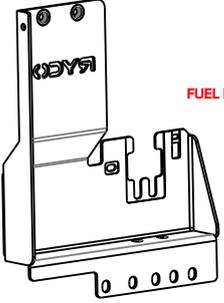
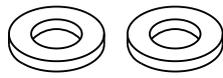


MH9808B PCV HOSE x 1



X102R FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 1A FUEL FILTER BRACKET FITMENT

PARTS REQUIRED		TOOLS & PPE'S REQUIRED
 <p>FB9808FC FUEL FILTER METAL BRACKET</p>	<p>MS4037 HEX BOLT x 2 (M6)</p>  <p>MS4036 WASHER x 2 (M6)</p>  <p>MS4099 NYLON LOCK NUT x 1 (M6)</p> 	<p>* WORK GLOVES * RACHET SET</p>

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 besides 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 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.

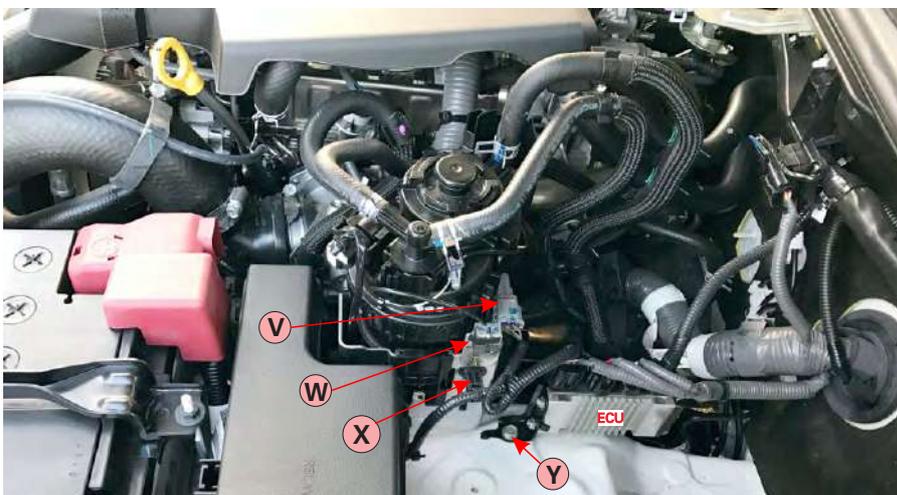


FIG. 1 FACTORY FUEL FILTER IDENTIFICATION

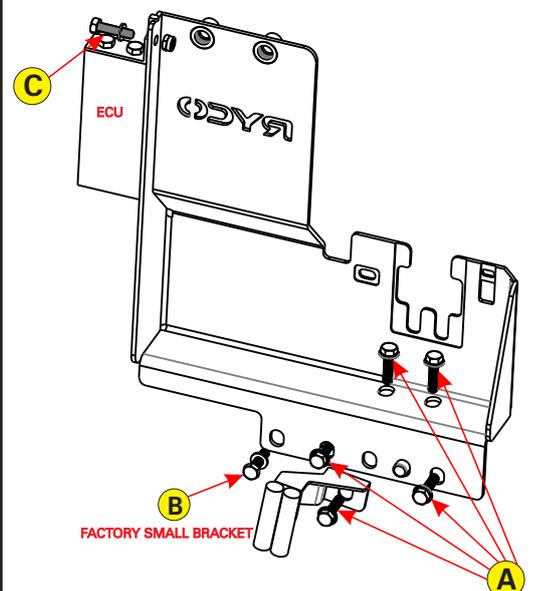


FIG. 2 BRACKET INSTALLATION

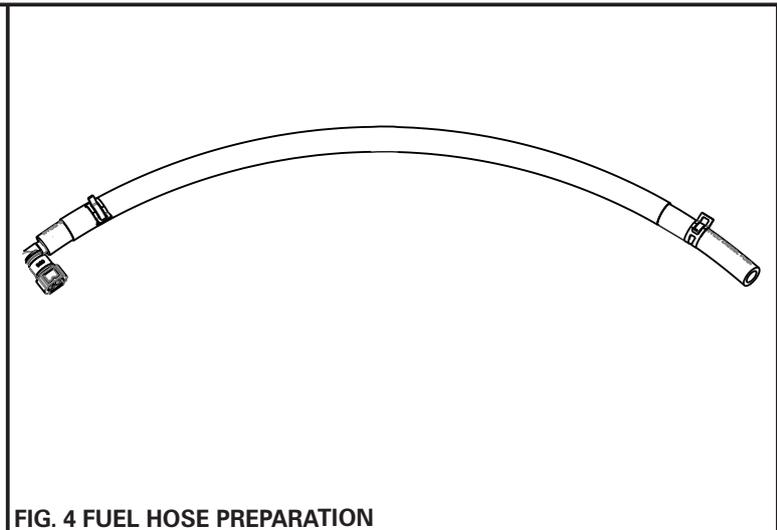
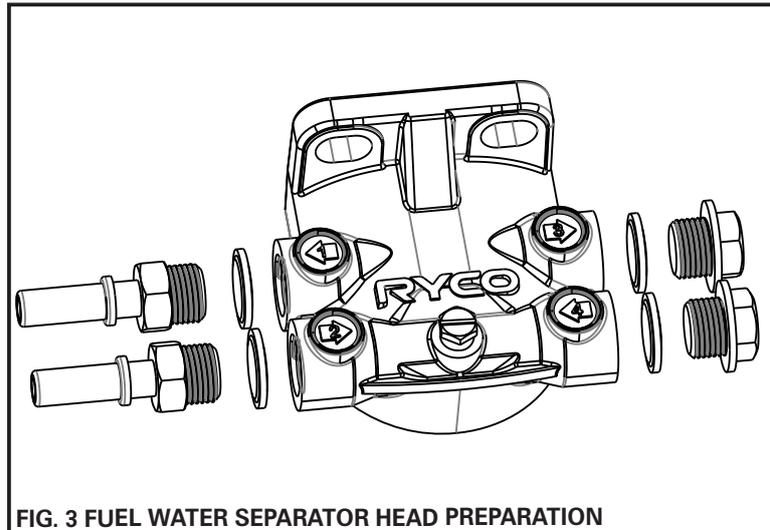
X102R FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 1B FUEL WATER SEPARATOR INSTALLATION

PARTS REQUIRED		TOOLS & PPE'S REQUIRED
<p>M16 PLUG x 2</p> <p>M10 BOLT x 2</p> <p>M10 FLANGE NUT x 2</p> <p>RUBBER BONDED WASHER x 4</p> <p>M10 WASHER x 2</p> <p>RYCO Z980K16 FUEL WATER SEPARATOR</p>	<p>MS4096A QUICK CONNECTOR x 2</p> <p>MS4042 FUEL HOSE CLAMP x 2</p> <p>HF9808 FUEL HOSE x 1 (720 mm)</p> <p>MS4081 ELBOW CONNECTOR x 2</p>	<p>* WORK GLOVES</p> <p>* RACHET SET</p> <p>* HOSE CLAMP PLIERS</p> <p>* RAGS</p>

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.

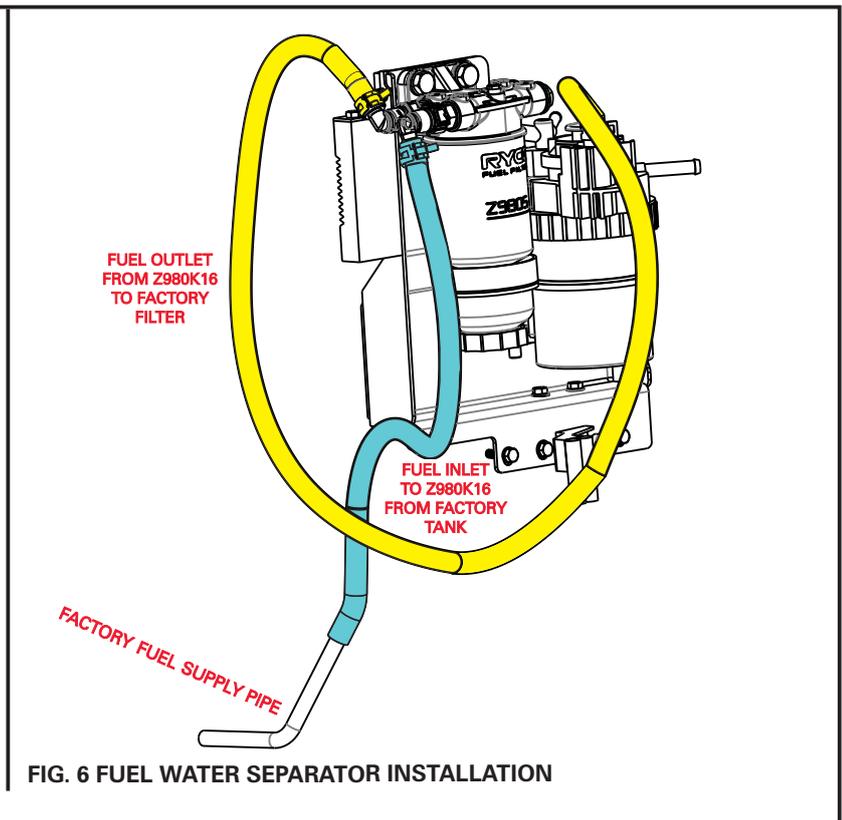
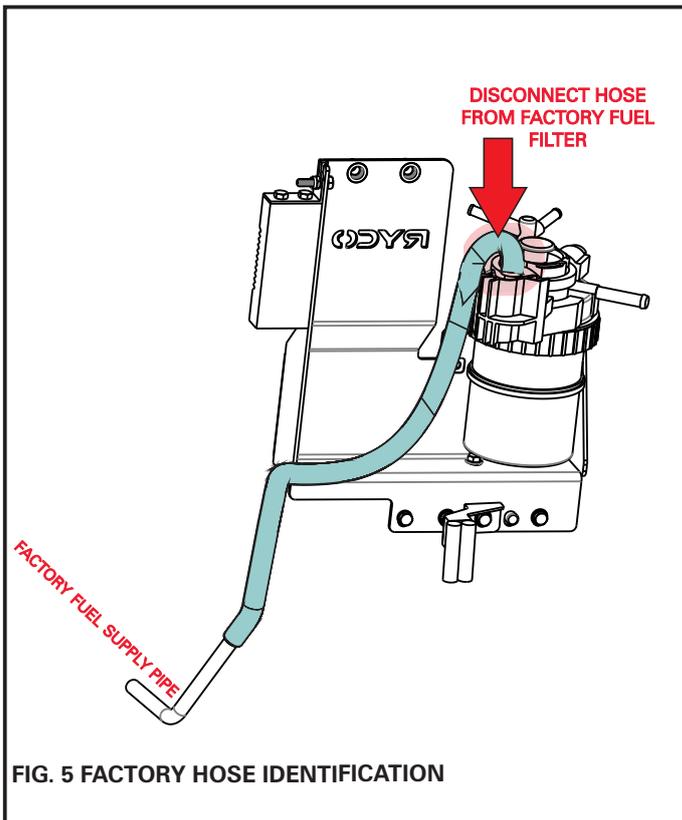


X102R FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 1B FUEL WATER SEPARATOR INSTALLATION (CONTINUED)

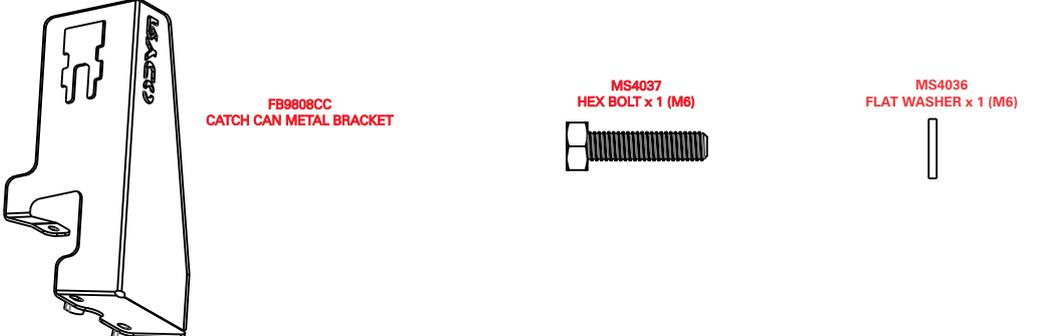
WORK PROCEDURE (CONTINUED)

5. 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.
6. 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.
7. 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".
8. 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.
10. 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.
11. 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.
12. Once the fuel system has been primed, start the engine. Check for any leaks.



X102R FUEL WATER SEPARATOR / CATCHCAN FITMENT INSTRUCTIONS

SECTION 2A CATCHCAN BRACKET FITMENT

 <p>FB9808CC CATCH CAN METAL BRACKET</p> <p>MS4037 HEX BOLT x 1 (M6)</p> <p>MS4036 FLAT WASHER x 1 (M6)</p>	<p>TOOLS & PPE'S REQUIRED</p> <ul style="list-style-type: none"> * WORK GLOVES * RACHET SET * HOSE CLAMP PLIERS
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WORK PROCEDURE

1. Locate the bracket mounting position on the drivers side of the engine bay as shown in Fig. 1 , then remove the two (2) factory bolts (A in Fig. 1) from the suspension upper control arm shield, but do not remove the shield.
2. Fit the Ryco catchcan bracket on top of suspension upper control arm shield, and reinstall the two (2) factory bolts (position A in Fig. 2), and install the supplied bolt and washer (position B in Fig. 2).
3. Ensure all fasteners are tight.

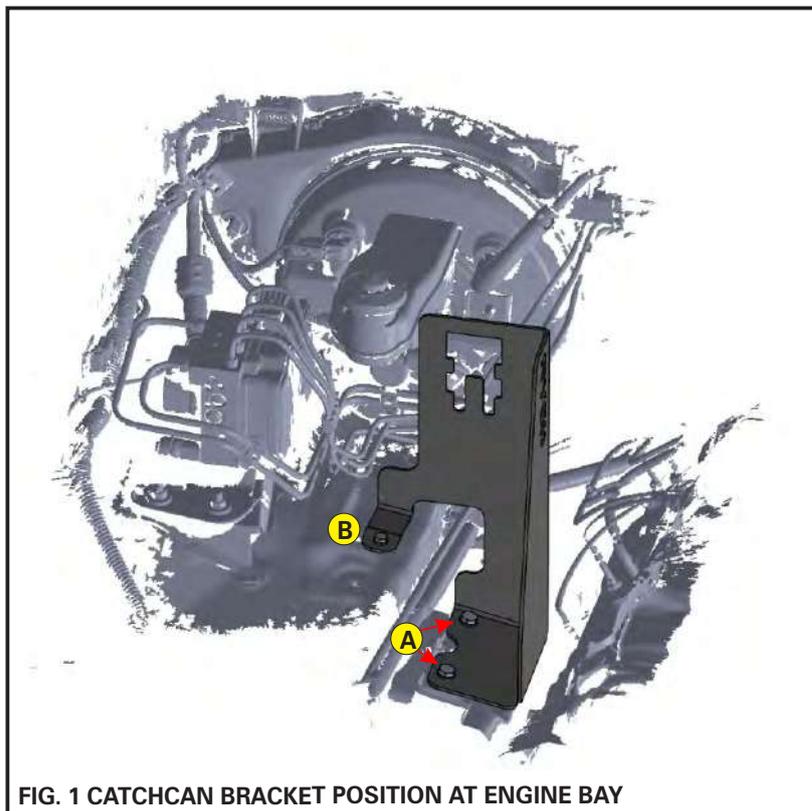


FIG. 1 CATCHCAN BRACKET POSITION AT ENGINE BAY

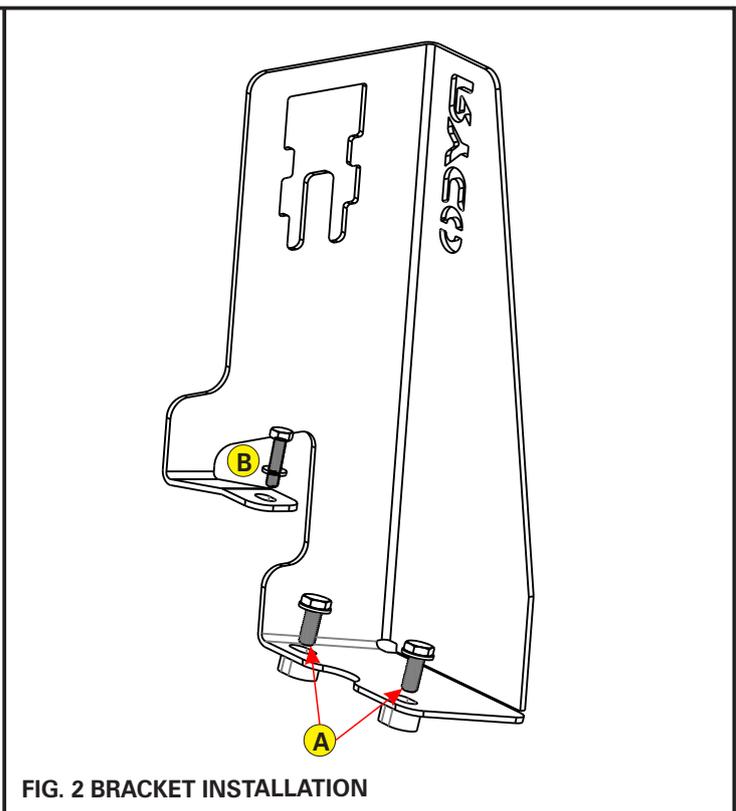
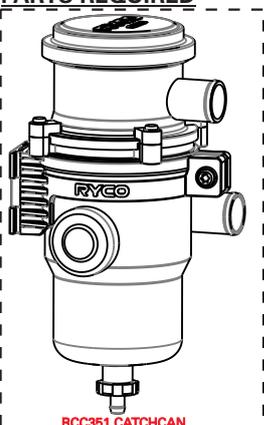
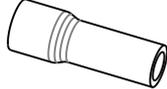
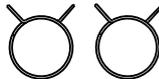
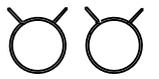


FIG. 2 BRACKET INSTALLATION

X102R FUEL WATER SEPARATOR / CATCHCAN FITMENT INSTRUCTIONS

SECTION 2B CATCHCAN INSTALLATION

PARTS REQUIRED			TOOLS & PPE'S REQUIRED	
 <p>RCC351 CATCHCAN</p>	<p>MH9808A PCV HOSE x 1</p> 	<p>MH9808B PCV HOSE x 1</p> 	<p>* WORK GLOVES * RACHET SET * HOSE CLAMP PLIERS</p>	
	<p>MS4100 PCV HOSE JOINER</p> 	<p>MS4091 PCV HOSE CLAMP x 2</p> 		<p>MS4094 PCV HOSE CLAMP x 2</p> 
	<p>MS4092 PCV HOSE CLAMP x 1</p> 			

WORK PROCEDURE

1. Mount the catchcan onto the bracket by sliding the RCC351 onto the catchcan mounting position so the ports are facing forward and slightly toward the engine. Tighten the plastic bracket retaining screw on the RCC351.
2. Remove the engine cover. Locate the engine PCV valve outlet port at the front drivers side of the engine (see Fig. 3). Disconnect the factory PCV hose (coloured yellow in Fig. 3 & 4) from the PCV valve outlet port but leave the other end attached to the air intake.
3. Connect the small end of Ryco PCV hose MH9808B (coloured green in Fig. 5) to the engine PCV valve outlet using the supplied hose clamp MS4092. Connect the larger diameter end to the lower port of the RCC351. Secure with the supplied hose clamp MS4091.
4. Connect a supplied straight hose joiner MS4100 to the small diameter end of the Ryco PCV hose MH9808B (coloured orange in Fig. 5) and secure with a supplied hose clamp MS4094.

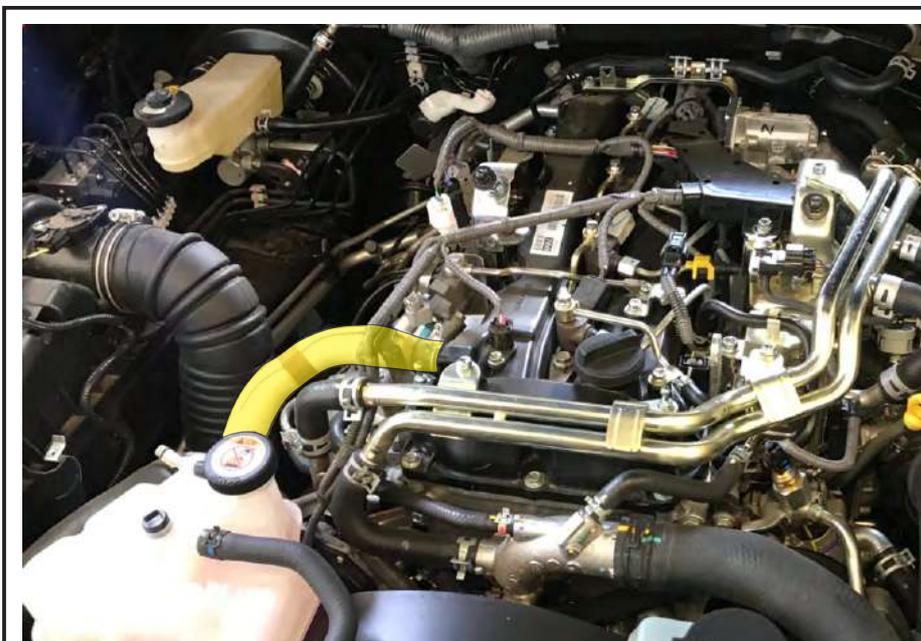


FIG. 3 FACTORY PCV HOSE POSITION AT ENGINE BAY



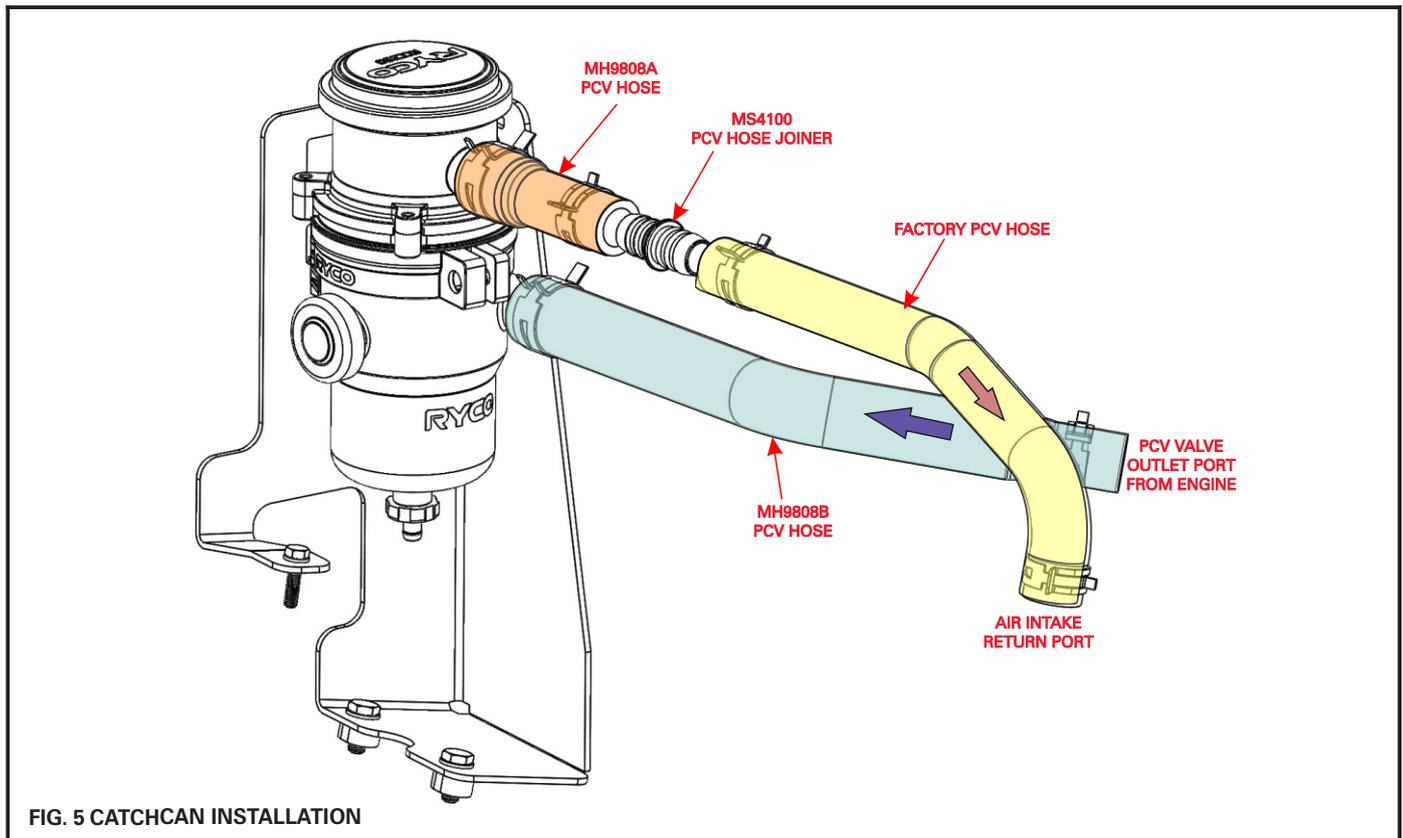
FIG. 4 FACTORY PCV HOSE IDENTIFICATION

X102R FUEL WATER SEPARATOR / CATCHCAN FITMENT INSTRUCTIONS

SECTION 2B CATCHCAN INSTALLATION

WORK PROCEDURE

5. Connect MH9808B to the factory PCV hose (coloured yellow in Fig. 5) via the hose joiner and secure with a supplied hose clamp, then connect the large diameter end to the upper part of the RCC351 and secure with a supplied hose clamp MS4091.
6. Check both PCV hoses are not jammed or kinked by the surrounding engine parts.



DRAIN HOSE INSTALLATION PROCEDURE (OPTIONAL)

1. To install the drain hose, remove the drain plug from the bottom of RCC351, take out the rubber seal from the plug and refit. Insert the drain hose and secure it with the supplied spring clamp. Insert the hose drain tap to the other end and use the zip ties to secure the hose. To drain, pull back the red section until all oil has drained out.
2. If it has been fitted without using the drain hose supplied, simply slide out the unit from its bracket and loosen the drain plug on the unit and let the oil drain onto a pan or bottle.

