

## RVSK104 FUEL WATER SEPARATOR / CATCHCAN FITMENT INSTRUCTIONS

TOYOTA LAND CRUISER PRADO GDJ - See RYCO catalogue for specific application details.

The Ryco RVSK104 kit includes mounting bracket specifically designed for the vehicle, and all components required to complete the installation of Ryco Z980K series fuel water separator and RCC351 series catchcan (both sold separately). It is recommended that the installation is conducted by a qualified mechanic following the procedures in this instruction sheet.



### SECTION 1

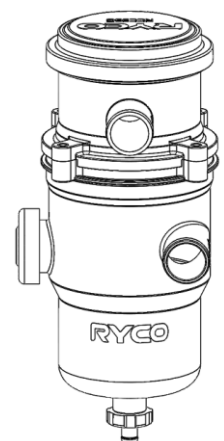
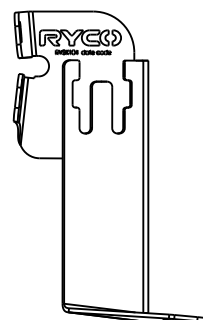
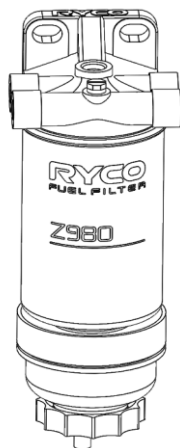
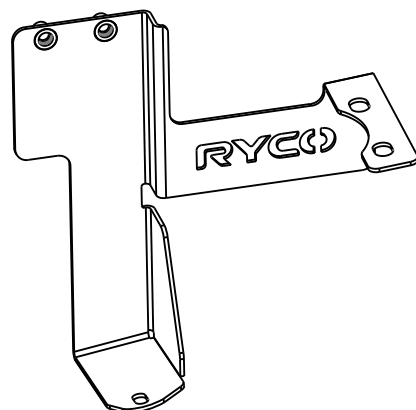
### SECTION 2

FUEL FILTER METAL BRACKET  
(INCLUDED IN RVSK104)

FUEL WATER SEPARATOR  
(SOLD SEPARATELY)

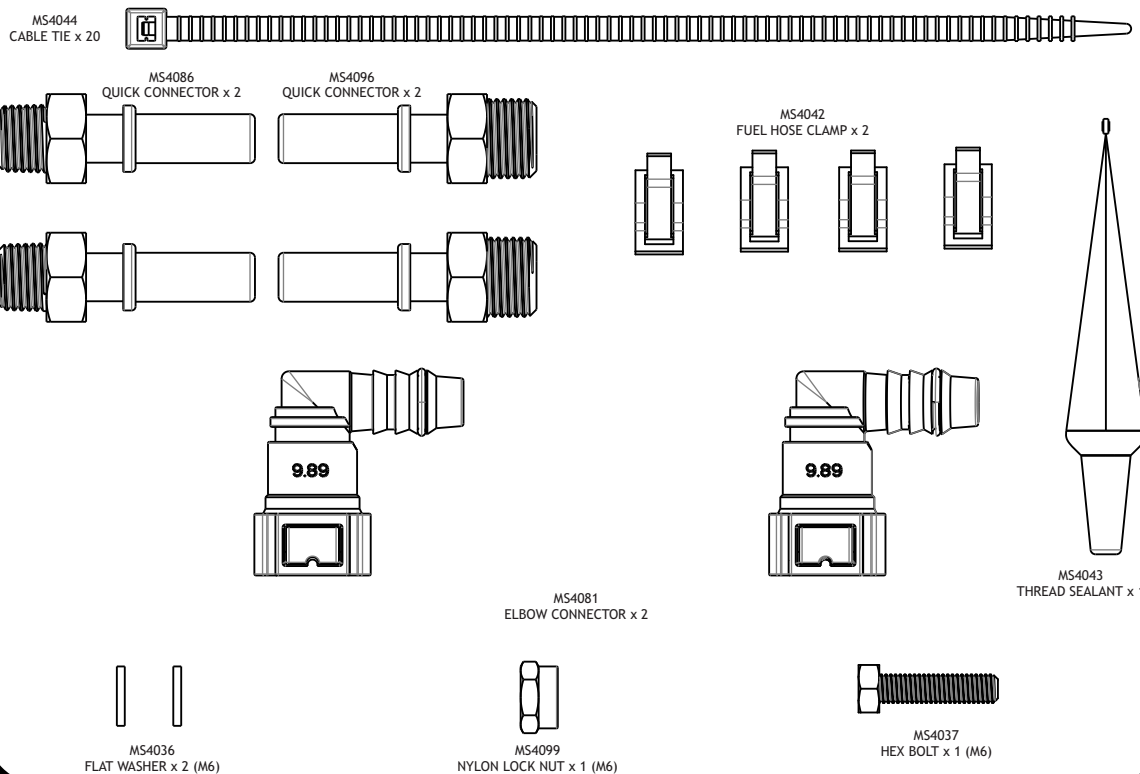
CATCH CAN METAL BRACKET  
(INCLUDED IN RVSK104)

CATCHCAN  
(SOLD SEPARATELY)

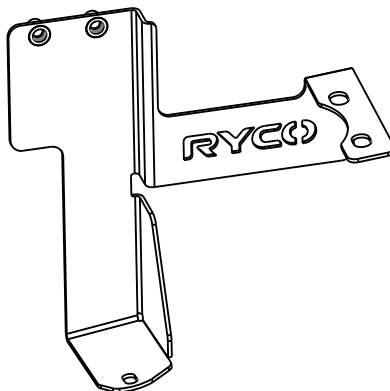


## COMPONENTS INCLUDED IN RVSK104 KIT (NOT SOLD SEPARATELY)

### PARTS LIST - FUEL FILTER BRACKET & COMPONENTS BOX



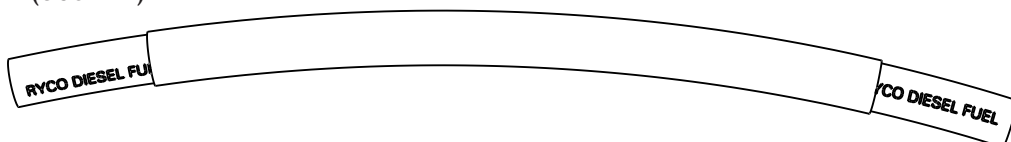
FB9804FC  
FUEL FILTER METAL BRACKET x 1



HF9804A  
FUEL HOSE x 1  
(210mm)



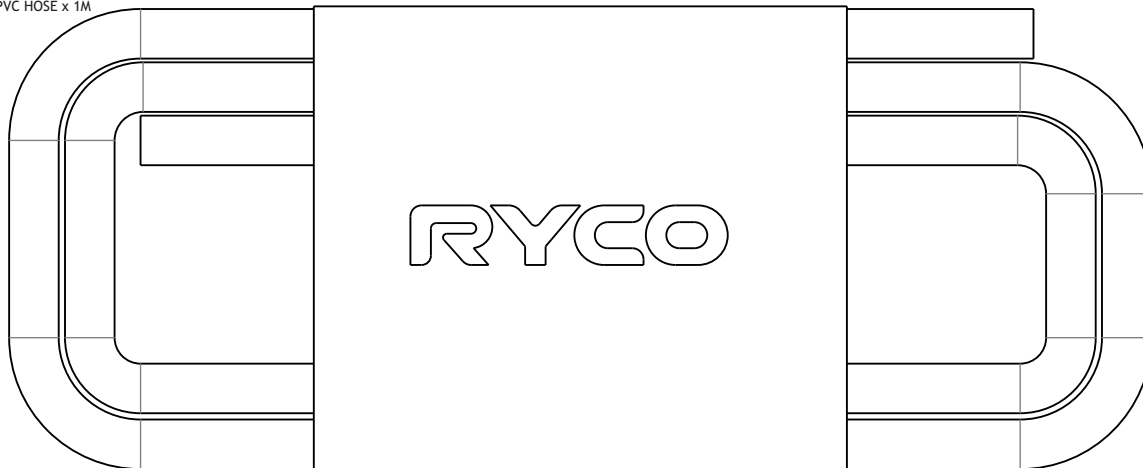
HF9804B  
FUEL HOSE x 1  
(360mm)



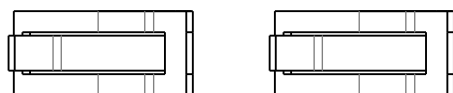
**COMPONENTS INCLUDED IN RVSK104 KIT  
(NOT SOLD SEPARATELY)**

**PARTS LIST - CATCHCAN BRACKET & COMPONENTS BOX**

MS4089  
PVC HOSE x 1M



MS4091  
PCV HOSE CLAMP x 2



MS4036  
FLAT WASHER x 2 (M6)

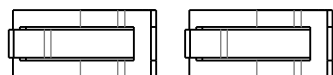
MS4092  
PCV HOSE CLAMP x 1



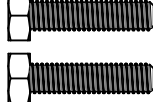
MS4100  
HOSE JOINER x 1



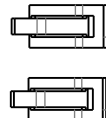
MS4094  
PCV HOSE CLAMP x 2



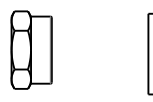
MS4037  
HEX BOLT x 2 (M6)



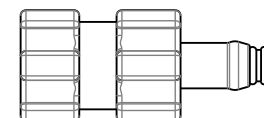
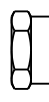
MS4093  
DRAIN HOSE CLAMP x 2



MS4031  
FLAT WASHER x 1 (M8)

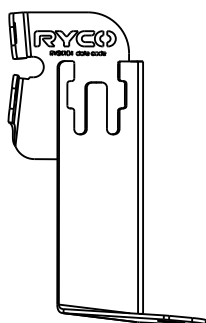


MS4099A  
NYLON LOCK NUT x 1 (M8)

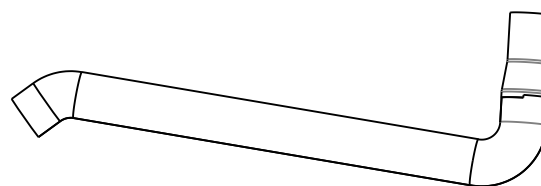


MS4090  
DRAIN VALVE x 1

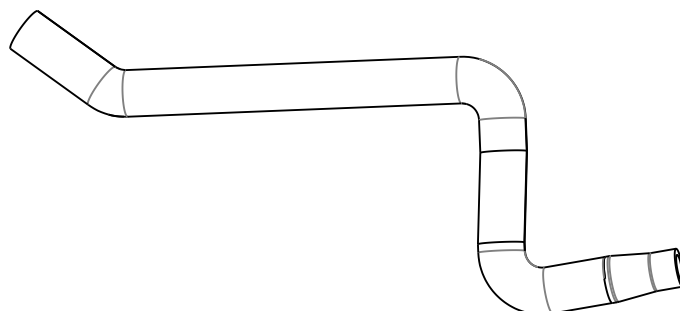
FB9804FC  
CATCH CAN METAL BRACKET x 1



MH9804A PCV HOSE x 1



MH9804B PCV HOSE x 1



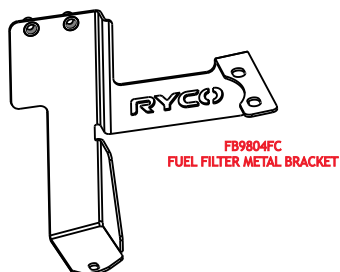
NYLON BRACKET x 1



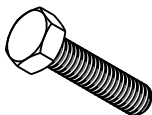
## RVSK104 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

### SECTION 1A FUEL FILTER BRACKET FITMENT

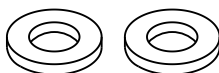
#### PARTS REQUIRED



MS4037  
HEX BOLT x 1 (M6)



MS4036  
WASHER x 2 (M6)



MS4099  
NYLON LOCK NUT x 1 (M6)



#### TOOLS & PPE'S REQUIRED

- \* WORK GLOVES
- \* RACHET SET

#### WORK PROCEDURE

1. Remove the two nuts (marked A in Fig. 1) securing the factory filter to the vehicle. Lift the factory filter and fit Ryco fuel filter metal bracket in the same position as the factory fuel filter. Place the factory filter housing on top of the Ryco fuel filter bracket and slightly tighten the nuts previously removed.
2. Use the supplied 6mm bolt, nut and washers to secure the bottom section of the Ryco bracket through the hole in the vehicles front passenger side wheel house.  
 Note: Install the factory bolt at point B in Fig. 1 in the orientation shown. The bolt should be installed from the wheel house up in to the engine bay so the bolt does not protrude down under the vehicle.
3. Tighten all fasteners.

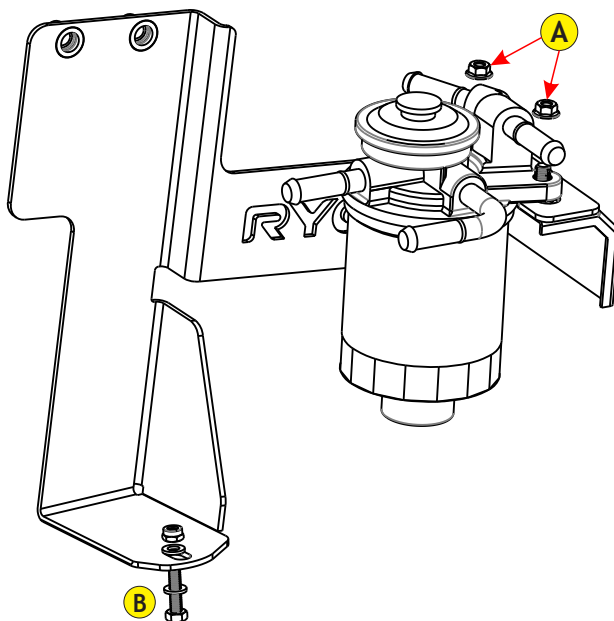


FIG. 1 BRACKET INSTALLATION

## RVSK104 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

### SECTION 1B FUEL WATER SEPARATOR INSTALLATION

PARTS REQUIRED	TOOLS & PPE'S REQUIRED
	<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 your Ryco fuel water separator head.
2. Locate the blanking plugs supplied with the fuel water separator.
3. Apply the supplied thread sealant to the thread of the blanking plugs and the quick connectors. Install them as per Fig. 3, ensuring they are tight.
4. Install one of the supplied elbow connectors onto one end of each of the supplied fuel hoses and install two (2) supplied fuel hose clamps onto both ends of fuel hose, as per Fig. 4. Do not tighten fuel hose clamps yet.

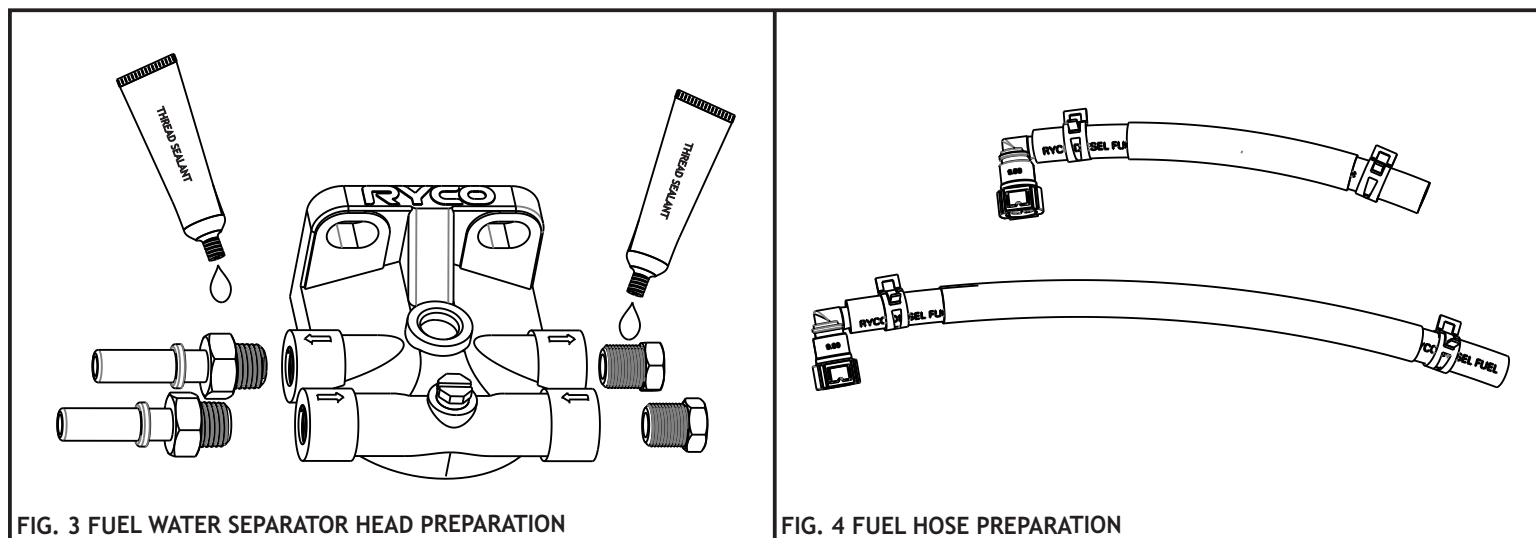


FIG. 3 FUEL WATER SEPARATOR HEAD PREPARATION

FIG. 4 FUEL HOSE PREPARATION

# RVSK104 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

## SECTION 1B FUEL WATER SEPARATOR INSTALLATION (CONTINUED)

### WORK PROCEDURE (CONTINUED)

5. Locate the factory fuel inlet hose (coloured blue in Fig. 5) at the factory fuel filter. Loosen the factory fuel hose clamp and disconnect the fuel supply line from the factory filter. Have a rag ready to capture any diesel that may spill out of the fuel line and the fuel filter.
6. Trace the other end of the fuel supply line and disconnect it from the metal factory fuel supply pipe, as per Fig. 5. Remove the factory fuel supply line from the vehicle and store for safe keeping. Have a rag ready to capture any diesel that may spill out of the fuel lines.
7. Mount the Z980K fuel filter assembly onto the metal bracket as per Fig. 6 using the two (2) black M10 bolts and washers supplied with the Z980K.
8. Connect the open end of the shorter supplied fuel hose (HF9804A coloured red in Fig. 6) to the factory fuel supply pipe and secure with a hose clamp. Connect the elbow connector to the inlet port of the Z980K by pushing the elbow connector onto the metal quick connector until you hear a “click”. See Fig. 6 for hose routing.
9. Connect the longer hose (HF9804B coloured yellow in Fig. 6) to the outlet port of the Z980K by pushing the elbow connector on to the metal quick connector until you hear a “click”, and connect the open end of the fuel hose to the factory fuel filter inlet port and secure with a hose clamp.
10. 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.
11. Start the engine and check for fuel leaks.

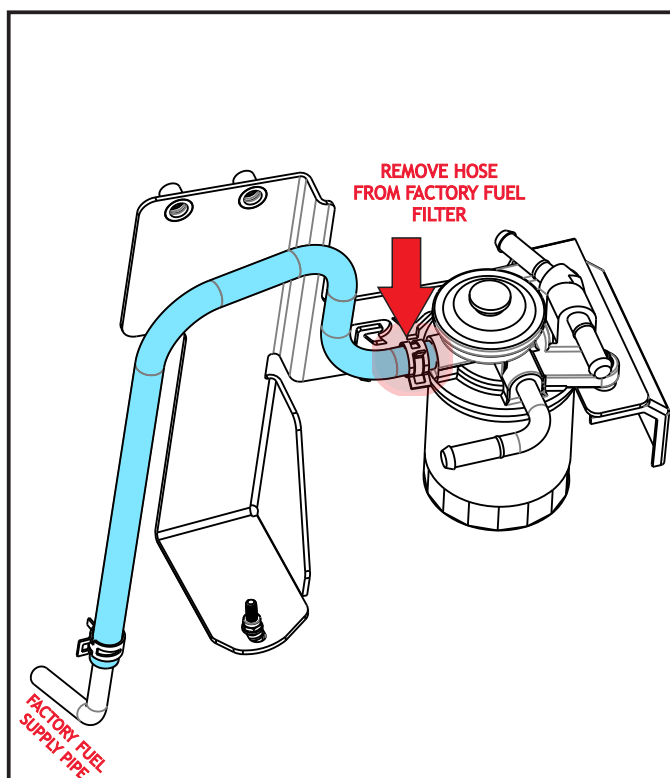


FIG. 5 FACTORY HOSE IDENTIFICATION

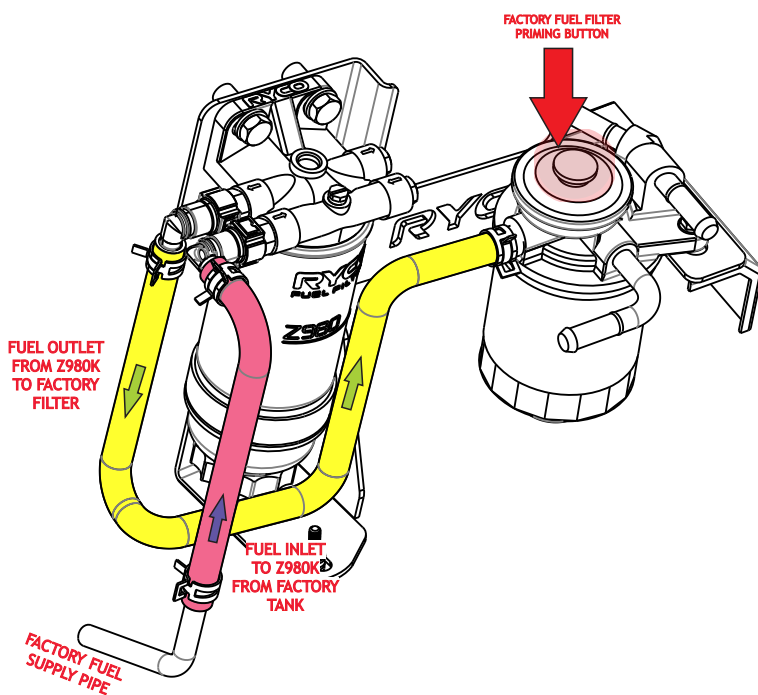
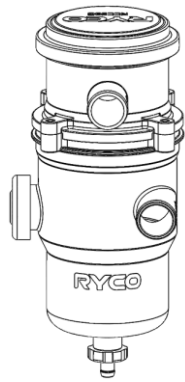
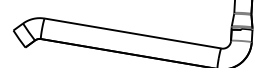

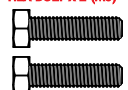

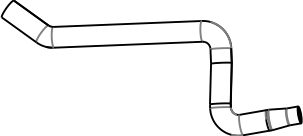


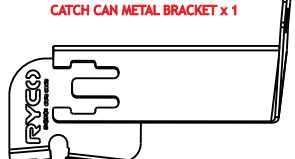





FIG. 6 FUEL WATER SEPARATOR INSTALLATION



## RVSK104 CATCHCAN FITMENT INSTRUCTIONS

### SECTION 2a CATCHCAN BRACKET INSTALLATION

PARTS REQUIRED				TOOLS & PPE'S REQUIRED	
 <b>RCC351 CATCHCAN (SOLD SEPARATELY)</b>	<b>MH9804A PCV HOSE x 1</b> 	<b>MS4099A NYLON LOCK NUT x 1 (M8)</b> 	<b>MS4037 HEX BOLT x 2 (M6)</b> 	<b>3MM NYLON BRACKET (OPTIONAL)</b> 	<b>* WORK GLOVES</b> <b>* RACHET SET</b> <b>* HOSE CLAMP PLIERS</b>
	<b>MH9804B PCV HOSE x 1</b> 	<b>MS4036 FLAT WASHER x 2 (M6)</b> 	<b>MS4031 FLAT WASHER x 1 (M8)</b> 		
	<b>FB9804FC CATCH CAN METAL BRACKET x 1</b> 	<b>MS4091 PCV HOSE CLAMP x 2</b> 	<b>MS4092 PCV HOSE CLAMP x 1</b> 	<b>MS4094 PCV HOSE CLAMP x 2</b> 	

### WORK PROCEDURE (1/2)

1. Remove the plastic engine cover.
2. Starting at the driver's side rear corner of the engine bay, locate Stud A in as shown in Fig. 7a.
3. Position the supplied FB9804CC catchcan bracket into engine bay as shown in Fig. 7b with stud A in slot A.

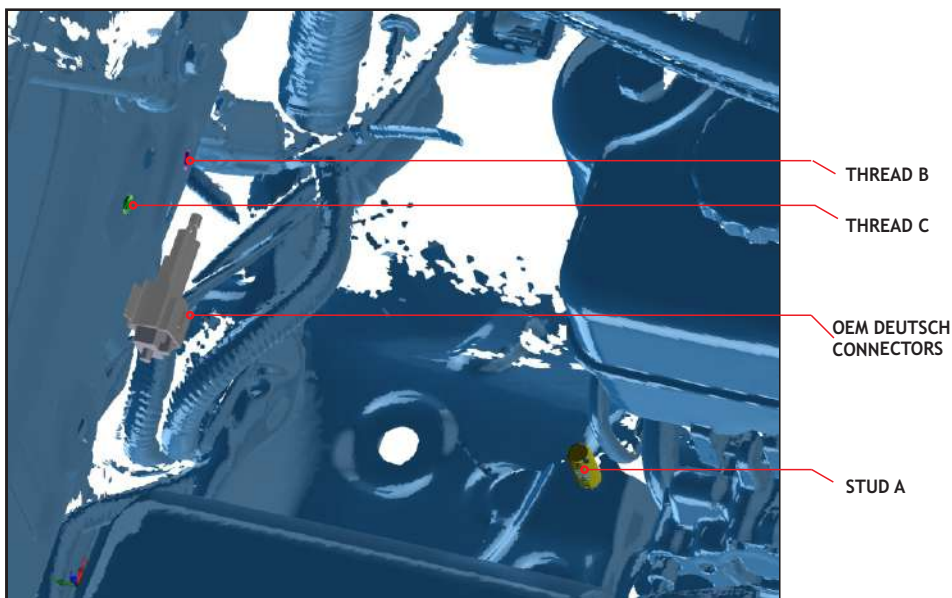


FIG. 7A CATCHCAN BRACKET INSTALLATION AREA

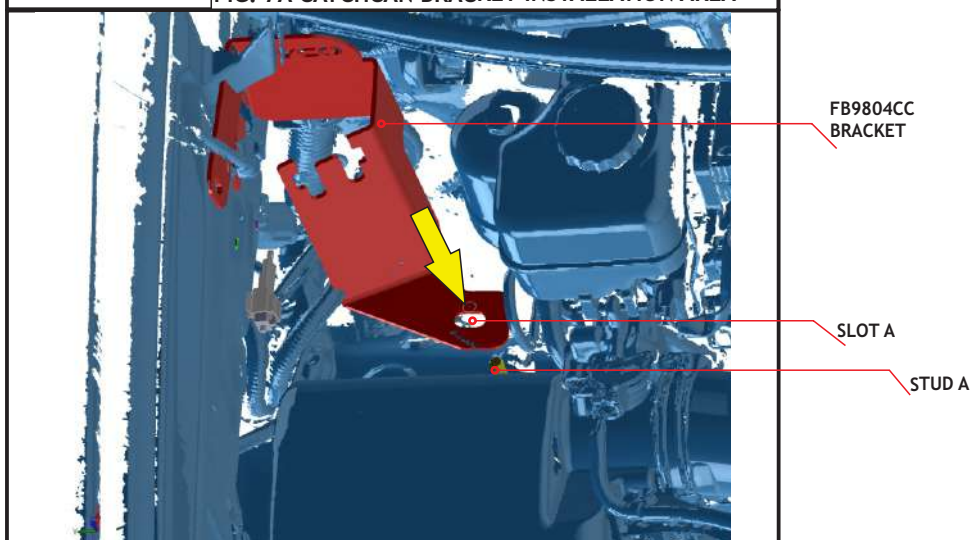


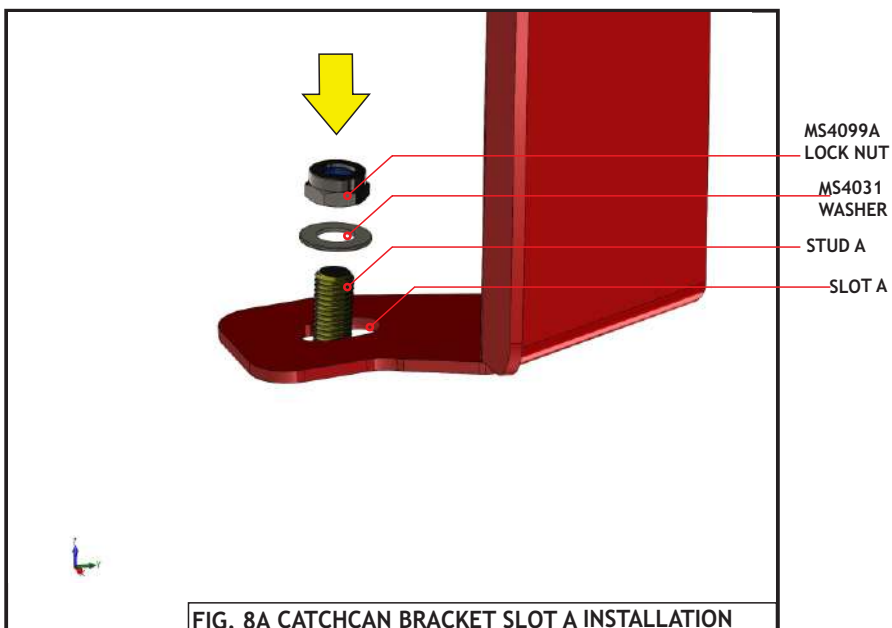
FIG. 7B CATCHCAN BRACKET INSTALLATION

## RVSK104 CATCHCAN FITMENT INSTRUCTIONS

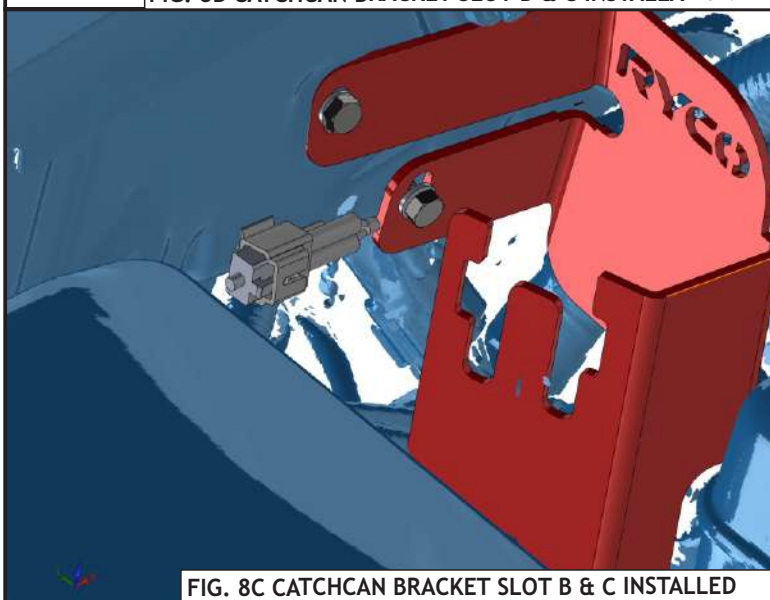
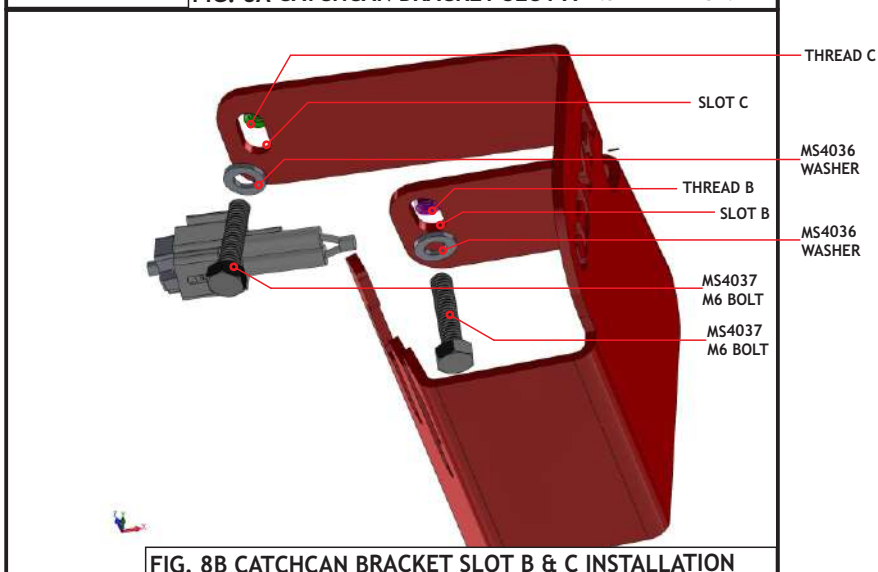
### SECTION 2a CATCHCAN BRACKET INSTALLATION

#### WORK PROCEDURE (2/2)

4. Install supplied MS4031 M8 Washer onto Engine bay Stud A, then screw on supplied MS4099A M8 lock nut onto Stud A.  
Refer to FIG.8A



4. Align Slot B & C on the bracket with the threaded holes on the side of the engine bay. Install the supplied 2 x MS4037 M6 bolts with supplied 2 x MS4036 M6 washers.  
Refer to FIG.8B & 8C.





## RVSK104 CATCHCAN FITMENT INSTRUCTIONS

### SECTION 2b CATCHCAN INSTALLATION

#### WORK PROCEDURE (1/2)

1. Install the RYCO RCC351 Catchcan by inserting the plastic bracket into the slot on the FB9804CC metal bracket, as shown in FIG. 9A & 9B.

Rotate the RCC351 slightly in its plastic bracket so that the ports clear the airbox and point toward the engine PCV port.

Note: If the slot on the plastic bracket supplied with your RCC351 does not fit the FB9804CC bracket, replace it with the RCC351 plastic bracket supplied in the RVSK104 kit.



FIG. 9A CATCHCAN INSTALLATION



FIG. 9B CATCHCAN INSTALLED

2. Loosen the OEM hose clamp located on the OEM PCV hose (coloured red in Fig. 10) at the engine PCV port location. Remove the OEM PCV hose from the engine PCV port, then remove the OEM hose clamp from this end of OEM PCV hose.

OEM PCV HOSE



FIG. 10 OEM PCV HOSE LOCATION

## RVSK104 CATCHCAN FITMENT INSTRUCTIONS

### SECTION 2b CATCHCAN INSTALLATION

#### WORK PROCEDURE (2/2)

3. Starting with the longer supplied MH9804B PCV hose, install the small end on to the Engine PCV Port & tighten with a supplied MS4094 hose clamp as shown in Fig. 11A & 11C.
4. Install the other end of the MH9804B PCV hose on to the lower, inlet port, of the RCC351 Catchcan and tighten with an MS4091 hose clamp as shown in Fig. 11A & 11C.
5. Install the larger end of the shorter supplied MH9804A PCV hose on to the upper, outlet port, of the RCC351 Cathcan and tighten with a MS4091 hose clamp. Install the other end of the MH9804A PCV hose on to the supplied MS4100 PCV hose joiner, tightening with a MS4094 PCV hose clamp. Insert other end of MS4100 PCV hose joiner into the open end of the OEM PCV hose and tighten with a supplied MS4092 hose clamp as shown in Fig. 11B.

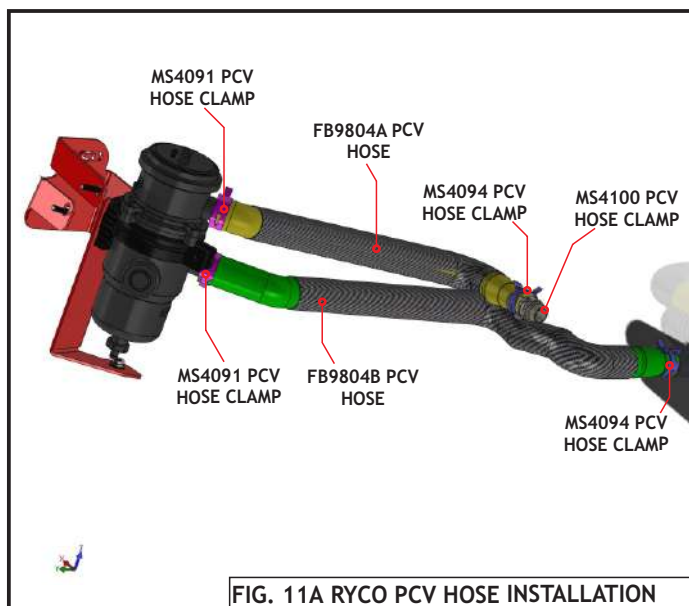


FIG. 11A RYCO PCV HOSE INSTALLATION

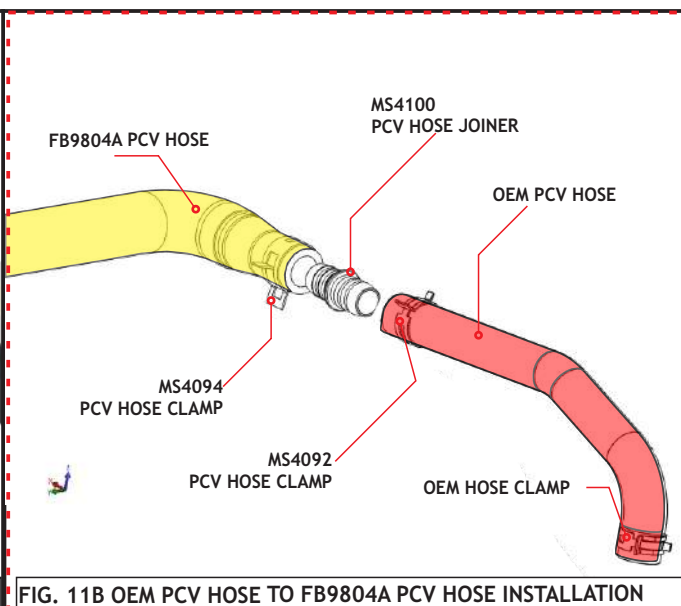


FIG. 11B OEM PCV HOSE TO FB9804A PCV HOSE INSTALLATION

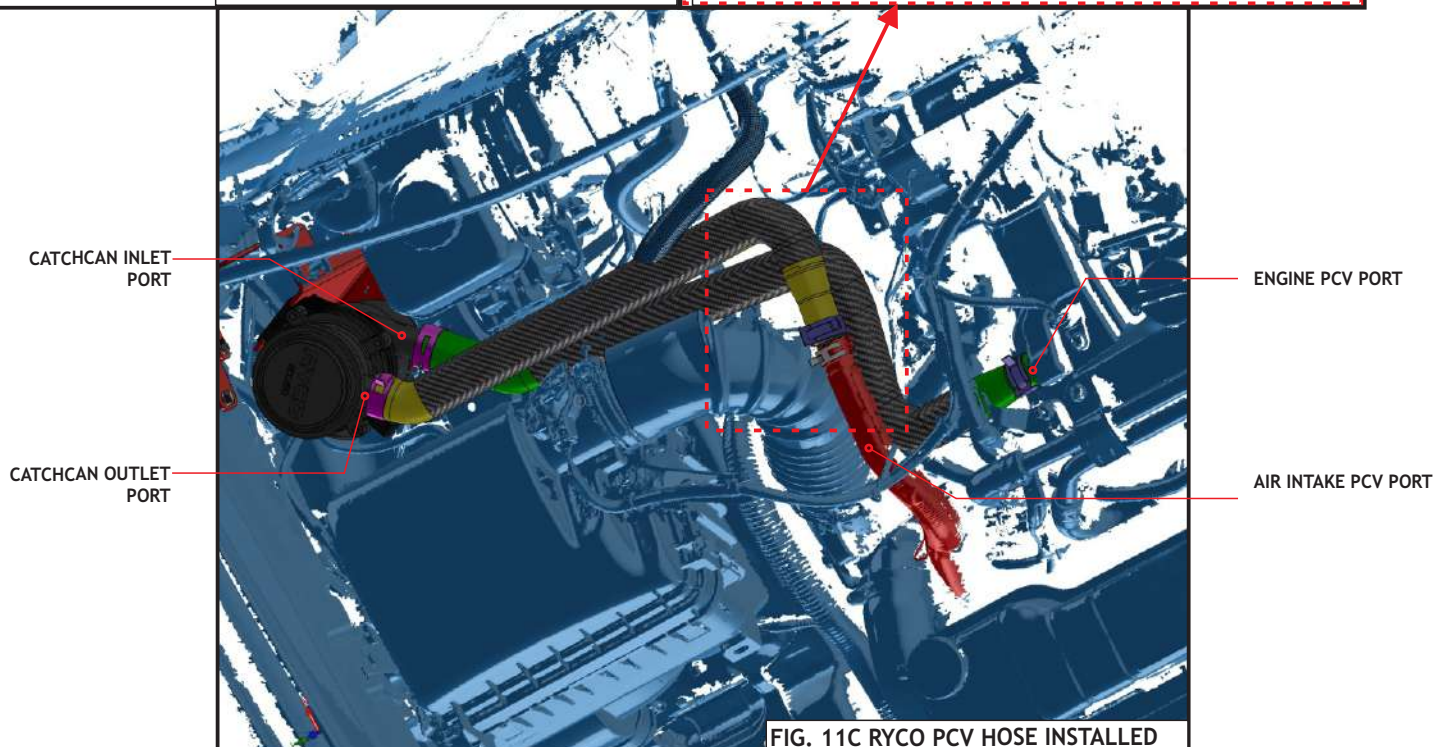


FIG. 11C RYCO PCV HOSE INSTALLED

## **RVSK104 CATCHCAN FITMENT INSTRUCTIONS**

### **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 remove the drain plug on the unit and let the oil drain onto a pan or bottle.