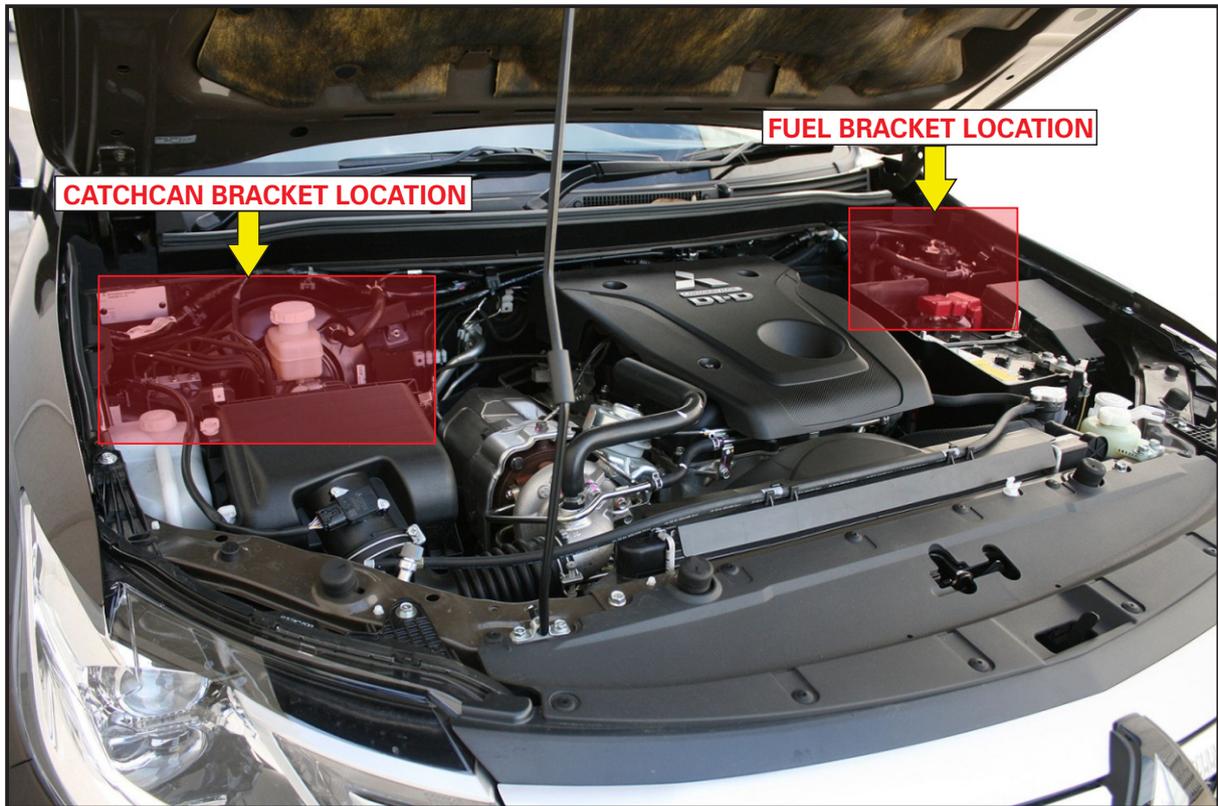


RVSK112 FUEL WATER SEPARATOR / CATCHCAN FITMENT INSTRUCTIONS

MITSUBISHI TRITON MQ / MR / PAJERO SPORT - See RYCO catalogue for specific application details.

The Ryco RVSK112 kit includes mounting bracket specifically designed for the vehicle, and all components required to complete the installation of Ryco Z980SK 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.

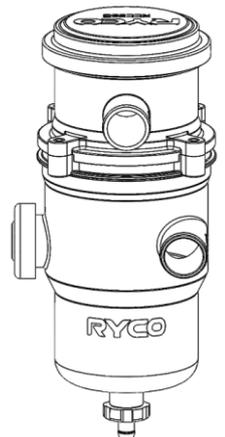
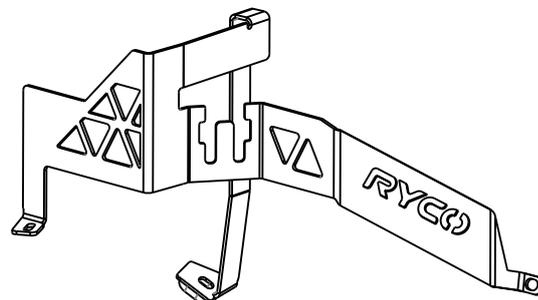
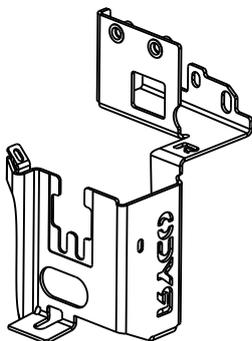


SECTION 2
FUEL WATER SEPARATOR
(SOLD SEPARATELY)

SECTION 4
CATCHCAN
(SOLD SEPARATELY)

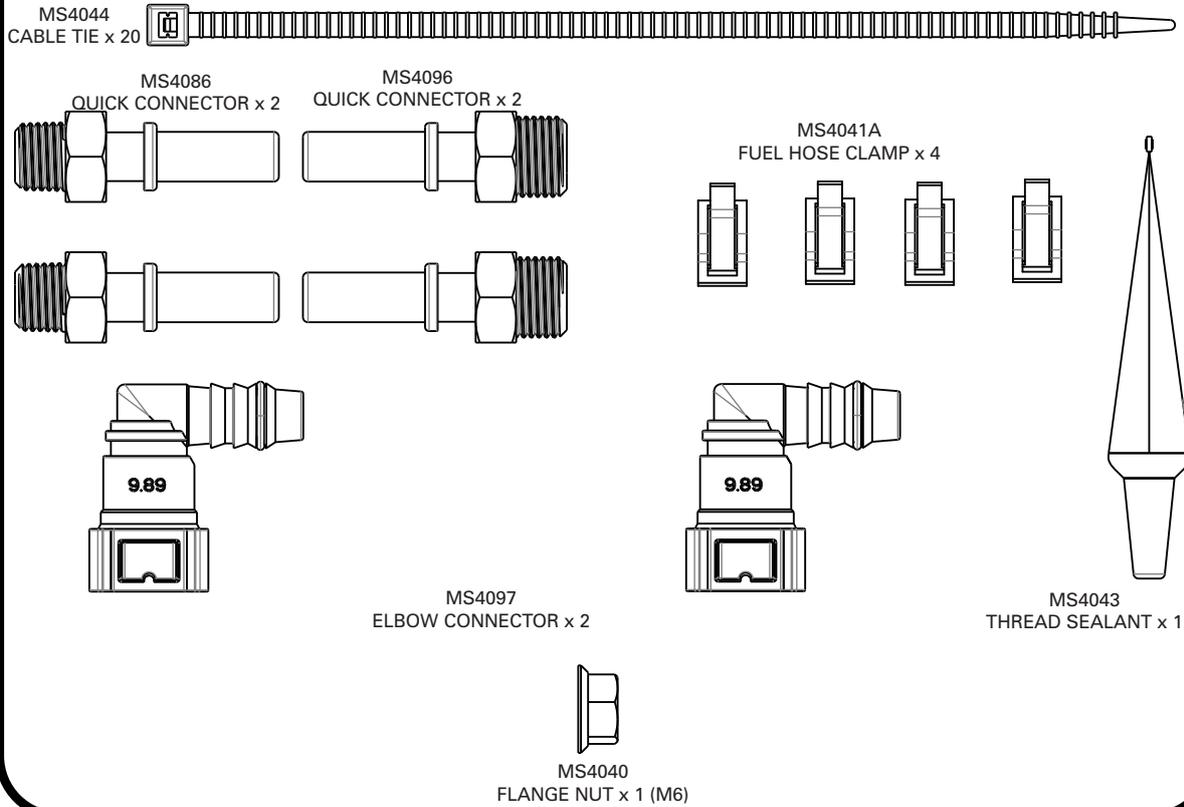
SECTION 1
FUEL MOUNTING BRACKET
(INCLUDED IN RVSK112)

SECTION 3
CATCHCAN MOUNTING BRACKET
(INCLUDED IN RVSK112)

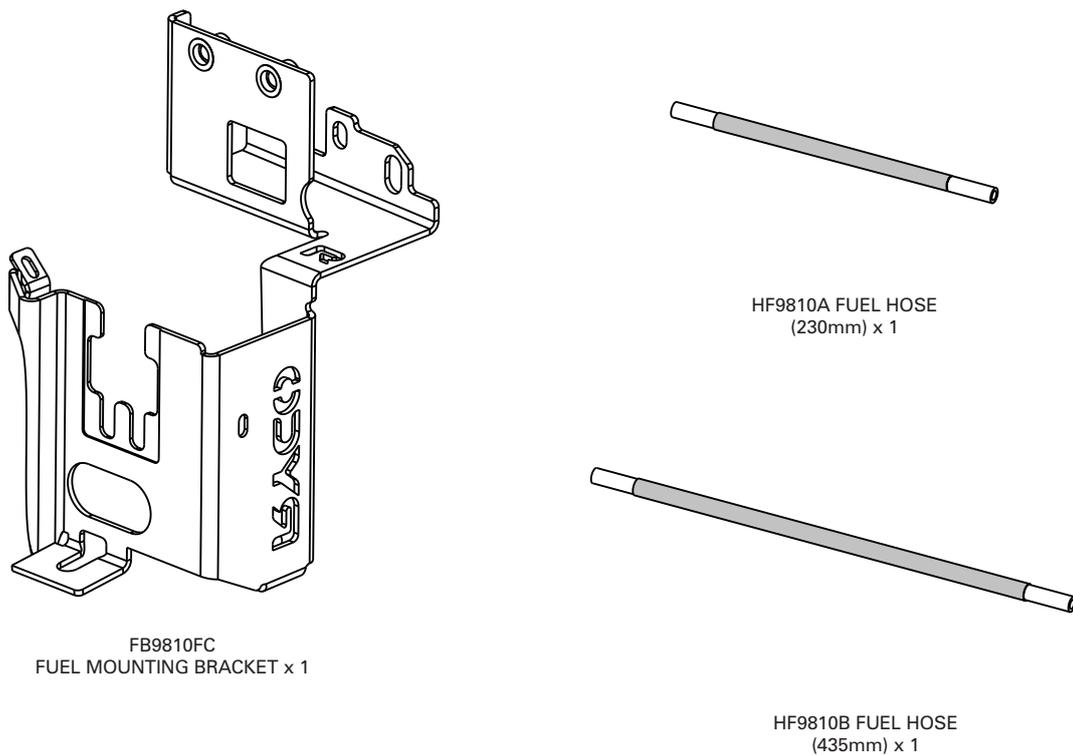


COMPONENTS INCLUDED IN RVSK112 KIT
(Components not sold SEPARATELY)

PARTS LIST - FUEL FILTER BRACKET & COMPONENTS BOX



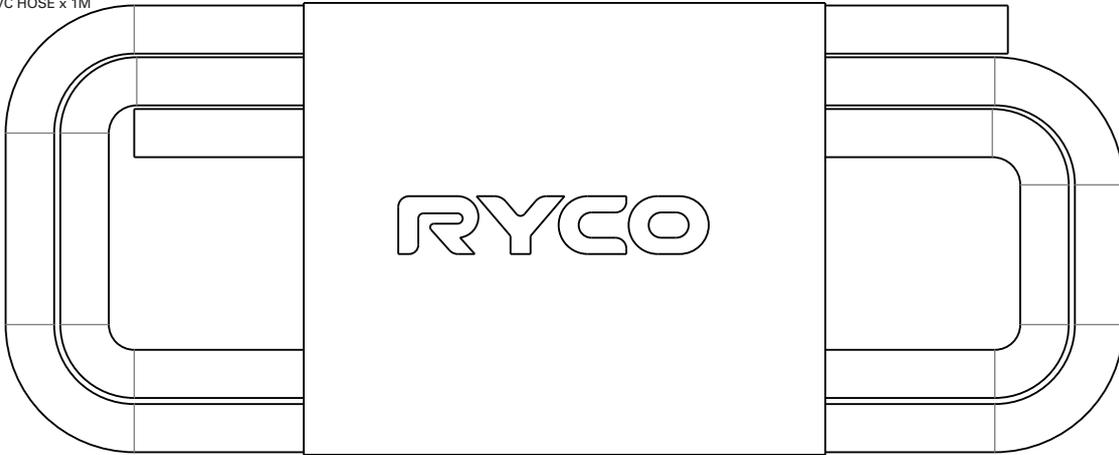
PARTS LIST - PACKAGED IN CARTON



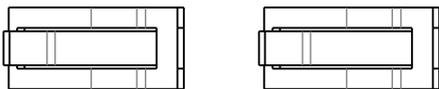
**COMPONENTS INCLUDED IN RVSK112 KIT
(Components not sold SEPARATELY)**

PARTS LIST - CATCHCAN BRACKET & COMPONENTS BOX

MS4089
PVC HOSE x 1M



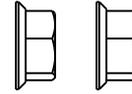
MS4091
PCV HOSE CLAMP x 2



MS4037A
HEX BOLT x 1 (M6 - 35MM)

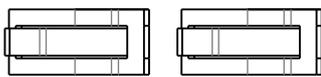


MS4106
FLAT WASHER x 1 (M6)



MS4040
FLANGE NUT x 2 (M6)

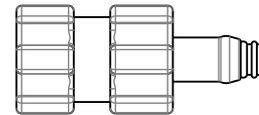
MS4094
PCV HOSE CLAMP x 2



MS4107
SPRING WASHER x 1 (M6)

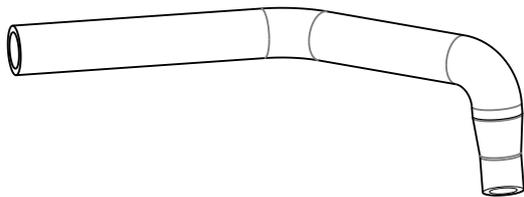


MS4093
DRAIN HOSE CLAMP x 2

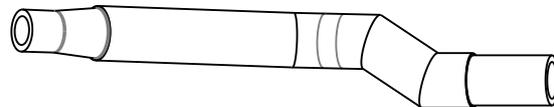


MS4090
DRAIN VALVE x 1

PARTS LIST - PACKAGED IN CARTON



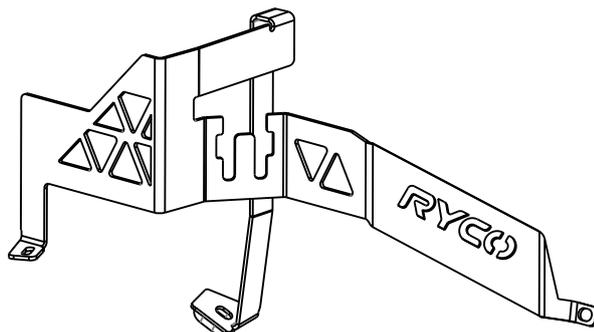
MH9810A
PCV HOSE x 1



MH9810B
PCV HOSE x 1



NYLON BRACKET x 1

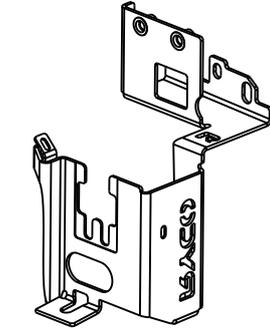


FB9810CC
CATCHCAN MOUNTING BRACKET x 1

RVSK112 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 1 FUEL MOUNTING BRACKET FITMENT (1/4)

PARTS REQUIRED



FB9810FC
FUEL MOUNTING BRACKET



MS4040
FLANGE NUT (M6) x 1

TOOLS & PPE'S REQUIRED

- * WORK GLOVES
- * SOCKET SET
- * RATCHET SET

WORK PROCEDURE

1. Unclip all OEM fuel filter Deutsch connectors from the OEM fuel filter bracket
2. Disconnect OEM Male & Femal Deutsch connectors
3. Remove the OEM fuel filter housing from the OEM fuel filter bracket by lifting it up out of its slot, then place it to left hand side of the bracket.
4. Unscrew the 2 x OEM M8 bolts shown in Fig. 2a. Ensure you hold onto these M8 bolts, as you will be using these to fit the FB9810FC bracket later.

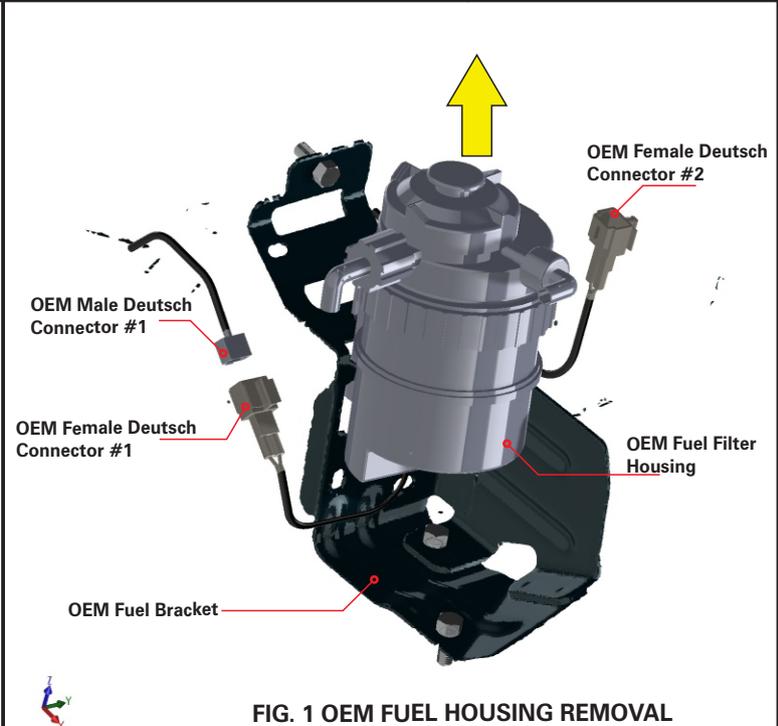


FIG. 1 OEM FUEL HOUSING REMOVAL

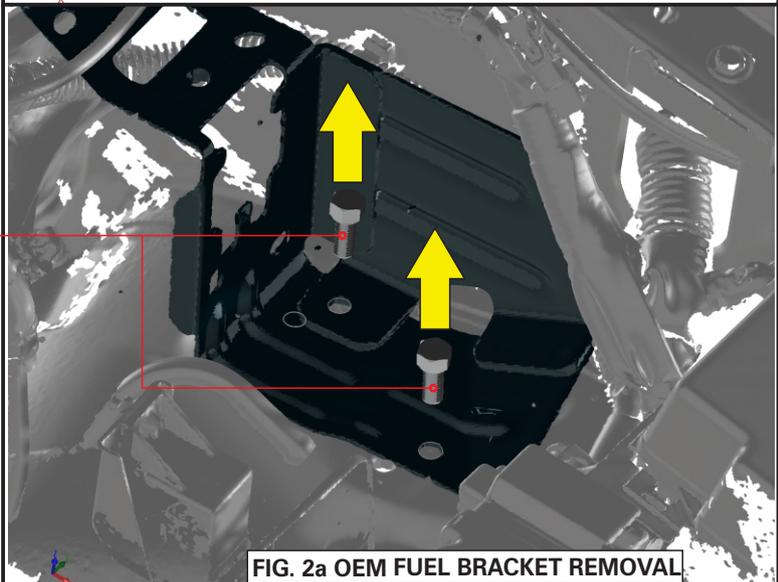


FIG. 2a OEM FUEL BRACKET REMOVAL

RVSK112 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 1 FUEL MOUNTING BRACKET FITMENT (2/4)

WORK PROCEDURE

5. Unscrew the OEM M8 bolt shown in Fig. 2b. Place this M8 bolt with the other 2 OEM M8 bolts as you will be using these to fit the supplied FB9810FC bracket later.

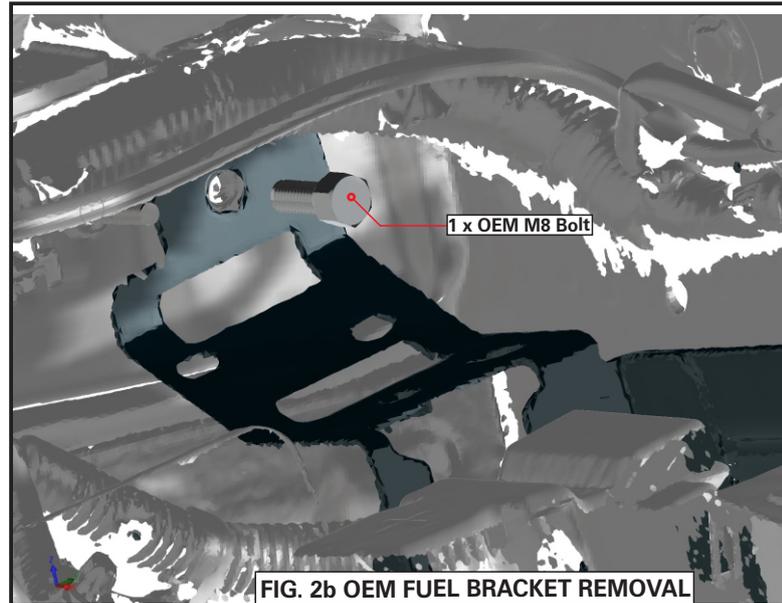


FIG. 2b OEM FUEL BRACKET REMOVAL

6. Remove the OEM fuel supply hose & hose clamps (highlighted green in Fig. 3). Have a rag ready as some fuel will spill from the hose and pipe.

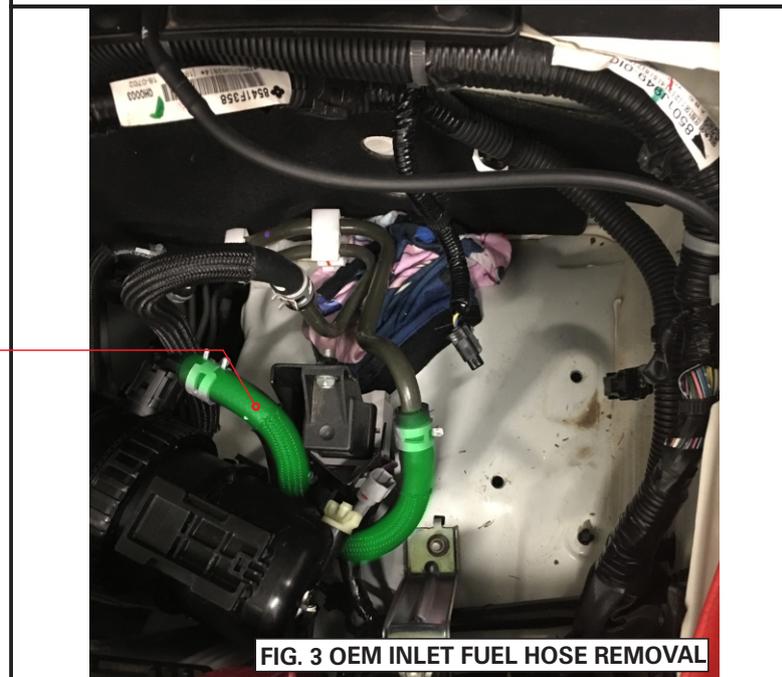


FIG. 3 OEM INLET FUEL HOSE REMOVAL

7. Half screw in 2 of the OEM M8 bolts saved from the previous steps in to the base mounting point as shown in Fig. 4a. (Screw in enough to allow Ryco FB9810FC bracket to slide in).

RYCO FB9810FC Fuel Bracket

2 x OEM M8 Bolts

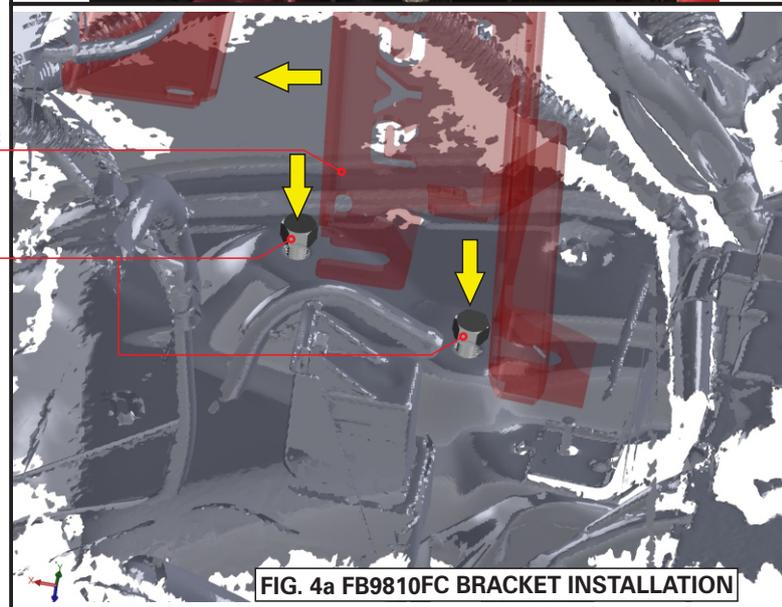


FIG. 4a FB9810FC BRACKET INSTALLATION

8. Slide the RYCO FB9810FC bracket so bottom two slots of the bracket engage the half screwed in OEM M8 Bolts.

RVSK112 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 1 FUEL MOUNTING BRACKET FITMENT (3/4)

WORK PROCEDURE

9. Screw in the remaining OEM M8 bolt saved from the previous steps in to the firewall mounting point. Then install the supplied MS4040 M6 flange nut on to the firewall stud as shown in Fig. 4b.

MS4040 M6
Flange Nut

OEM M8 Bolt

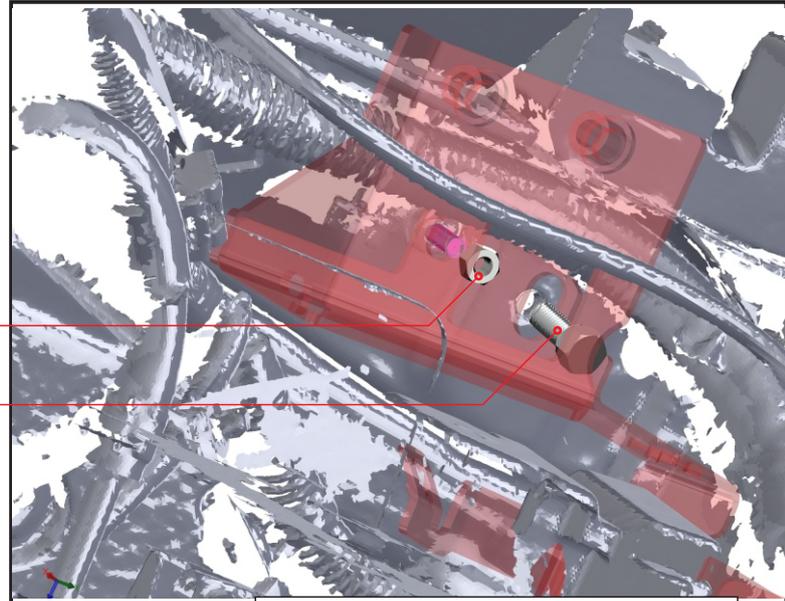


FIG. 4b FB9810FC BRACKET INSTALLATION

10. Proceed to fully tighten the OEM M8 Bolts shown in Fig. 4c.



FIG. 4c FB9810FC BRACKET INSTALLATION

11. Install the OEM Fuel Filter Housing by first passing the female OEM Deutsch connector#1 through the opening as shown in Fig.5a. Then mount the OEM fuel filter housing on to its mounting slot as shown in Fig.5a.

OEM Fuel Filter
Housing

OEM Female Deutsch
Connector#1

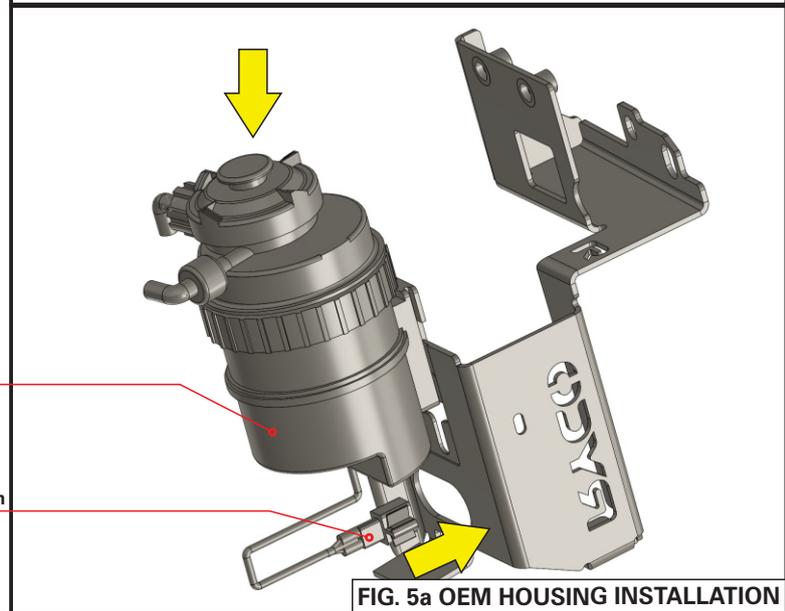


FIG. 5a OEM HOUSING INSTALLATION

RVSK112 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 1 FUEL MOUNTING BRACKET FITMENT (4/4)

WORK PROCEDURE

12. Clip the female OEM Deutsch connect#1 on to the slot as shown in Fig.5b.

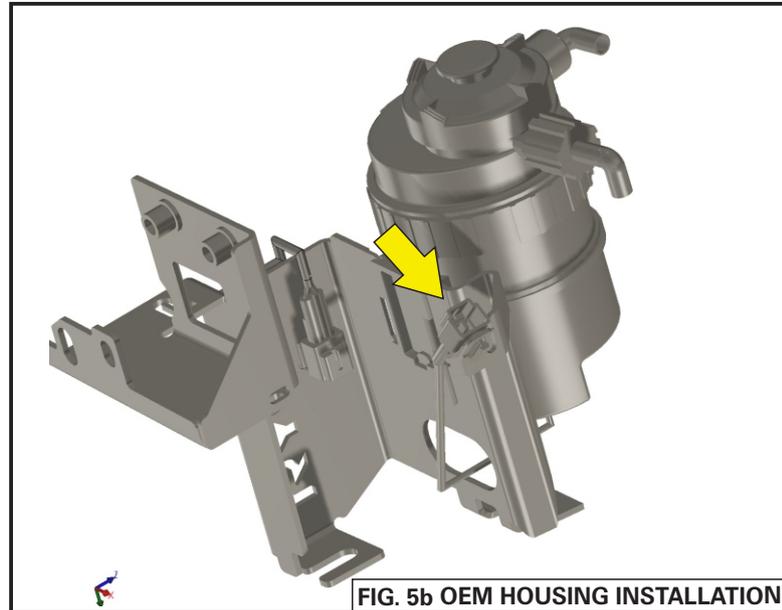


FIG. 5b OEM HOUSING INSTALLATION

13. Connect the Male and Female OEM Deutsch connector#1 then cable tie the OEM Deutsch connector#1 loom to the slot on the FB9810FC bracket as shown in FIG. 5c

- Male OEM Deutsch Connector#1 Loom
- Cable Tie
- Female OEM Deutch Connector #2
- Male OEM Deutsch Connector#1

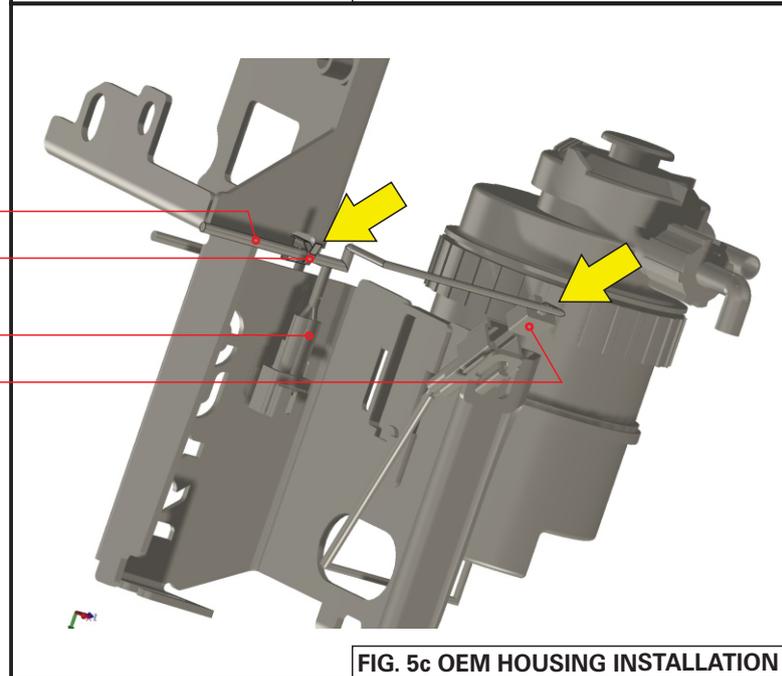


FIG. 5c OEM HOUSING INSTALLATION

14. Clip the Female OEM Deutsch connector#2 to the slot on the FB9810FC bracket as shown in Fig. 5c.

RVSK112 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 2 FUEL WATER SEPARATOR INSTALLATION

PARTS REQUIRED		TOOLS & PPE'S REQUIRED		
			<p>MS4086 / MS4096 QUICK CONNECTOR x 2</p>	
				<p>MS4042 FUEL HOSE CLAMP x 4</p>
				<p>MS4097 ELBOW CONNECTOR x 2</p>
<p>Z980K FUEL WATER SEPARATOR (SOLD SEPARATELY)</p>	<p>MS4043 THREAD SEALANT</p>			<p>HF9810B FUEL HOSE x 1 (436mm)</p>
<p>HF9810A FUEL HOSE x 1 (230mm)</p>	<p>MS4097 ELBOW CONNECTOR x 2</p>	<p>MS4043 THREAD SEALANT</p>	<p>TOOLS & PPE'S REQUIRED</p> <ul style="list-style-type: none"> * WORK GLOVES * RACHET SET * HOSE CLAMP PLIERS * RAGS 	

WORK PROCEDURE (1/3)

1. Select the supplied male quick connectors (MS4086 or MS4096) that fit your Ryco fuel water separator head.
2. Locate the blanking plugs supplied with your Ryco 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 two (2) supplied elbow connectors onto one end of both the supplied fuel hoses and install four (4) supplied fuel hose clamps onto each end of the fuel hoses, as per Fig. 4. Do not tighten the fuel hose clamps yet.

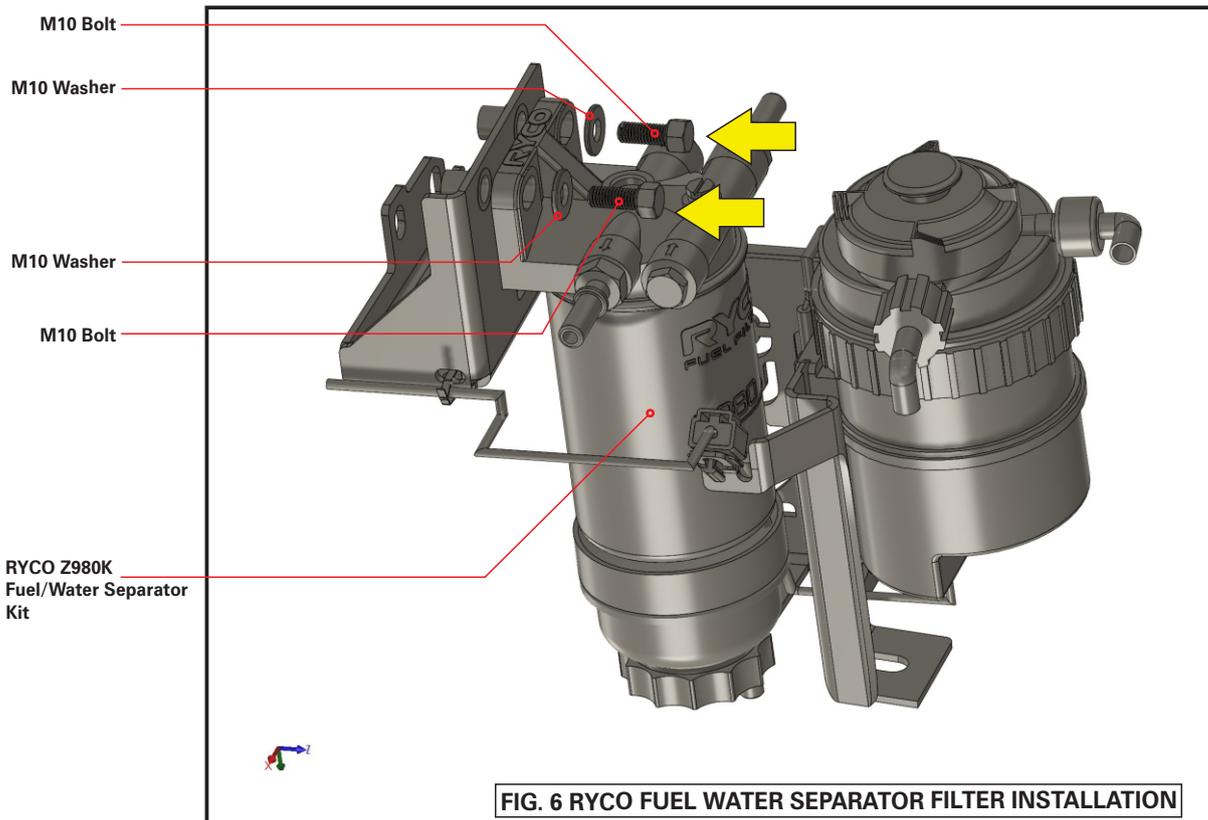
<p>FIG. 3 FUEL WATER SEPARATOR HEAD PREPARATION</p>	<p>FIG. 4 FUEL HOSE PREPARATION</p>
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RVSK112 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 2 FUEL MOUNTING BRACKET FITMENT (2/3)

WORK PROCEDURE

5. Using the M10 Bolts and Washers supplied in the Ryco Z980K fuel water separator kit, attach the Z980K to the FB9810FC bracket as shown in FIG. 6.
6. Starting with the longer Ryco fuel hose FH9810B, install the open end of the hose on to the vehicles fuel tank supply pipe, and tighten with the MS4041A hose clamp as shown in Fig. 7 (overleaf).
7. Route the hose around the front of the OE fuel filter housing and along the other side of the fuel filter assembly, shown as green in Fig. 7 (overleaf).
Connect the MS4097 Elbow Connector to the Z980K Inlet Quick Connector.
Connection has been successfully made when you hear a 'click' noise.



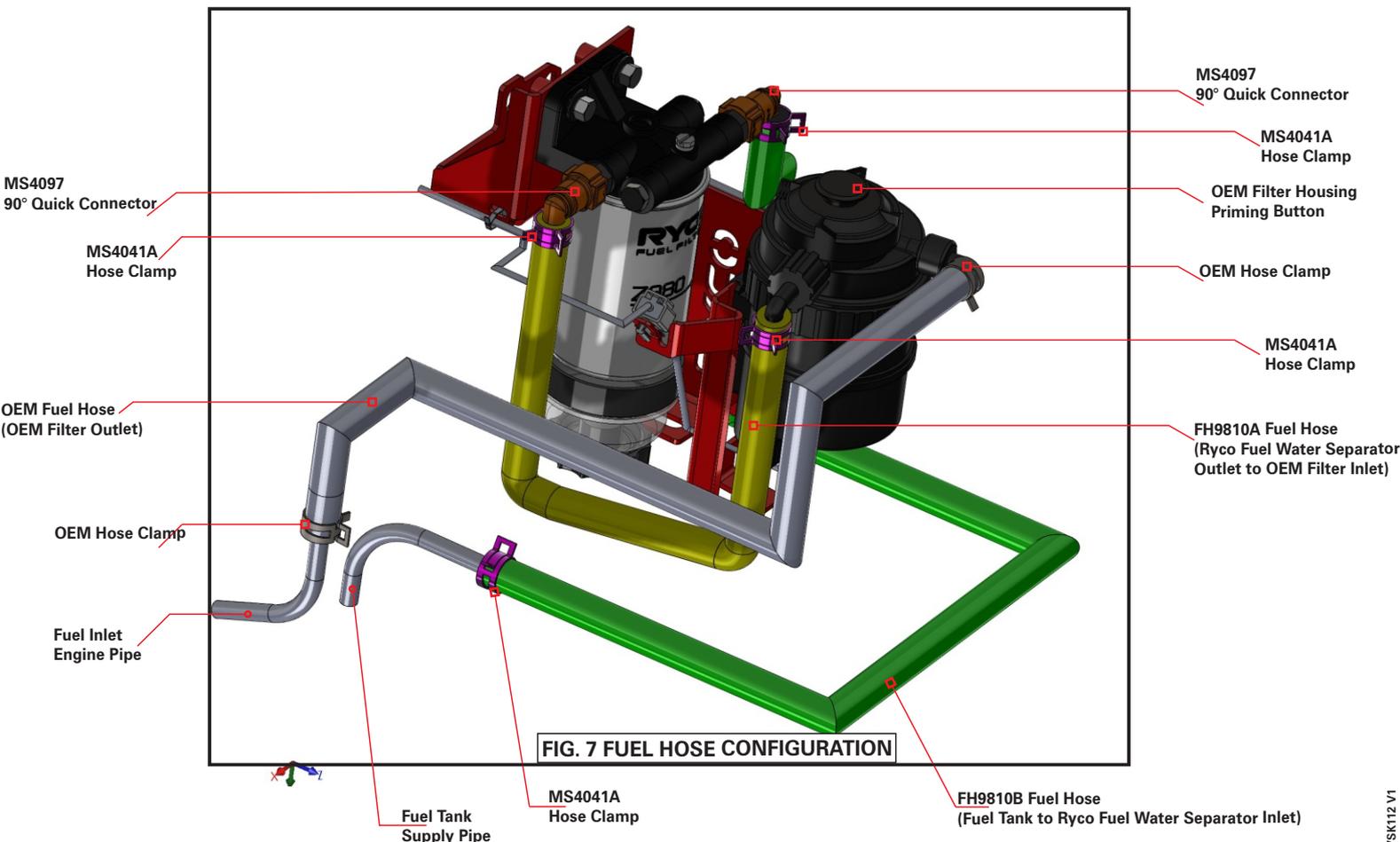
RVSK112 FUEL WATER SEPARATOR FITMENT INSTRUCTIONS

SECTION 2 FUEL MOUNTING BRACKET FITMENT (3/3)

WORK PROCEDURE

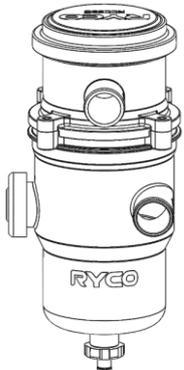
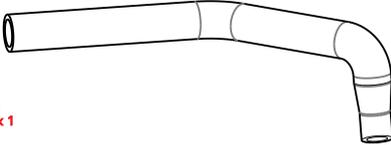
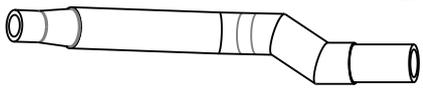
REFER TO FIG.7 DIAGRAM BELOW

8. With the shorter Ryco fuel hose FH9810A, install the open end of the hose on to the inlet port of OEM fuel filter housing and tighten with the MS4041A Hose Clamp.
Route the hose, shown in yellow in Fig. 7. and connect the MS4097 Elbow Connector to the Z980K Outlet Quick Connector.
Connection has to be successfully made when you hear a 'click' noise.
9. **WARNING:** The fuel system **MUST BE PRIMED** prior to starting the engine.
DO NOT OPEN THE BLEED SCREW ON THE RYCO Z980K, keep closed.
10. Locate the priming button on top of the factory fuel filter and prime the fuel system by pumping the button repeatedly. Continue pumping until it is hard to press.
The priming process could take approximately 5 - 10 minutes.
11. Once you can no longer depress the priming button, turn on the engine.
With the engine running, check for fuel leaks on all the installed equipment.



RVSK112 CATCHCAN FITMENT INSTRUCTIONS

SECTION 3 CATCHCAN INSTALLATION

PARTS REQUIRED		TOOLS & PPE'S REQUIRED
 <p>RCC351 CATCHCAN (SOLD SEPARATELY)</p>	<p>MH9810A PCV HOSE x 1</p> 	<p>* WORK GLOVES * RACHET SET * HOSE CLAMP PLIERS</p>
	<p>MH9800B PCV HOSE x 1</p> 	
	<p>MS4091 PCV HOSE CLAMP x 2</p> 	
	<p>MS4094 PCV HOSE CLAMP x 2</p> 	
	<p>MS4037A HEX BOLT x 1 (M6 - 35MM)</p> 	
	<p>MS4106 FLAT WASHER x 1 (M6)</p> 	
<p>3MM NYLON BRACKET (OPTIONAL)</p> 	<p>MS4107 SPRING WASHER x 1 (M6)</p> 	
	<p>MS4040 FLANGE NUT x 2 (M6)</p> 	

WORK PROCEDURE

1. Remove the plastic engine cover.
2. Remove OEM PCV hose highlighted green in FIG. 8a
3. Remove the OEM nut from the brake booster mounting stud as shown in Fig. 8a
4. Remove the rear airbox mounting OEM bolt & washer shown in FIG. 8b.

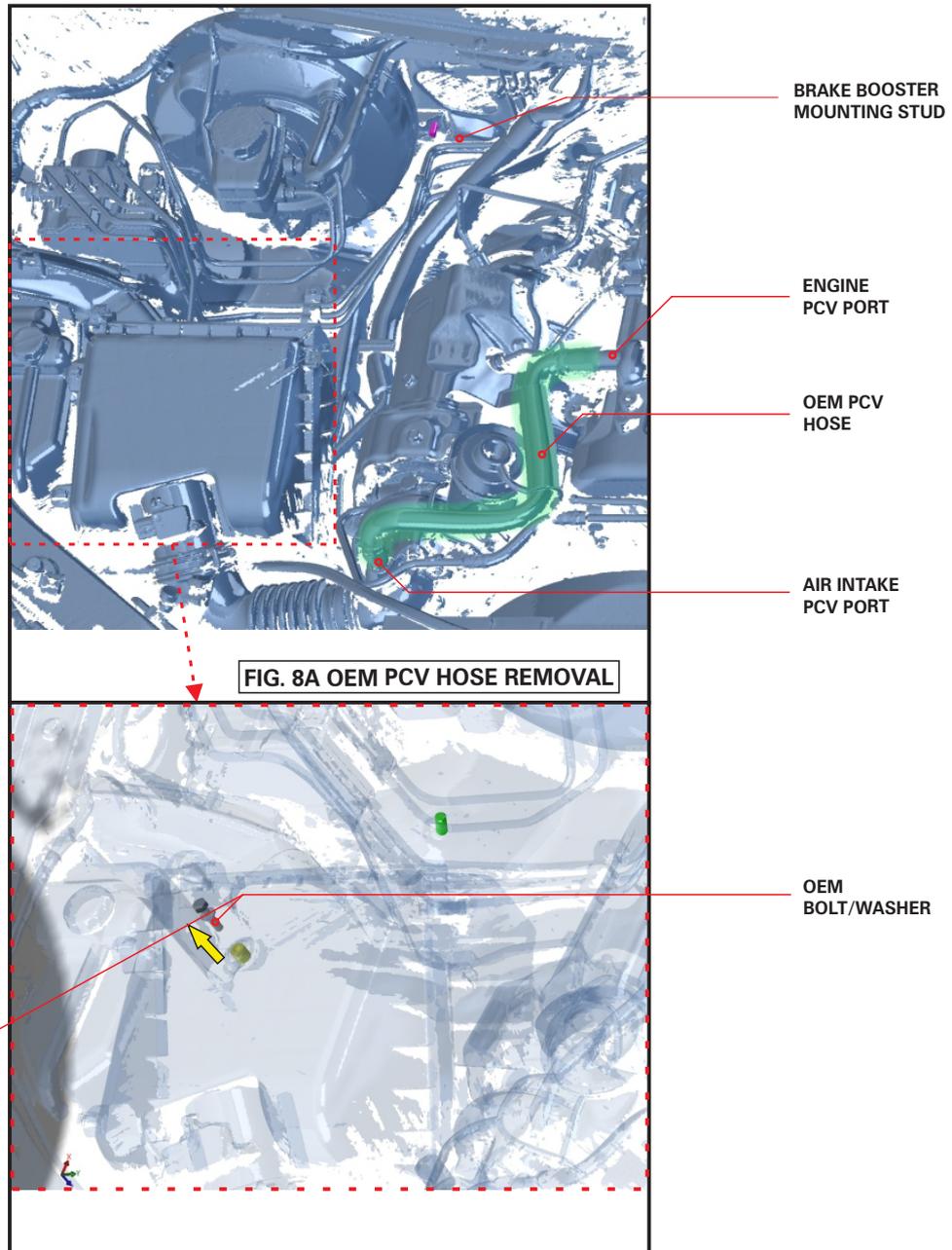


FIG. 8b AIRBOX MOUNTING OEM BOLT/WASHER REMOVAL

RVSK112 CATCHCAN FITMENT INSTRUCTIONS

SECTION 3 CATCHCAN INSTALLATION

WORK PROCEDURE

5. When fitting the FB9810CC Catchcan bracket as shown in FIG. 9A to 9C, you will be required to manouvre the bracket around engine components.

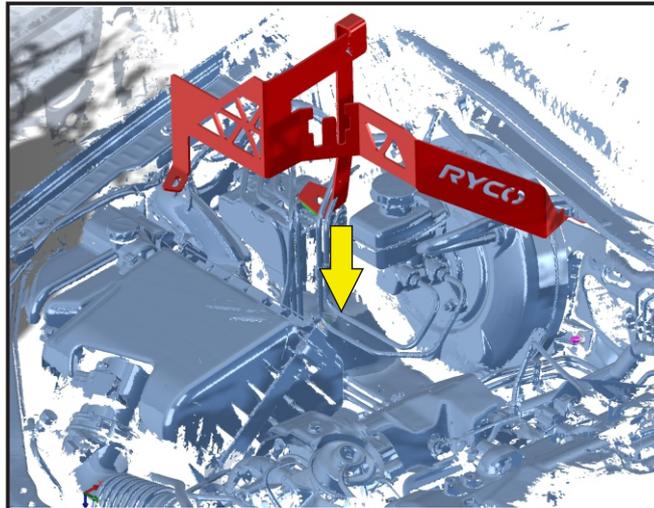


FIG. 9A FB9810CC BRACKET INSTALLATION

6. Referring to FIG. 9B, we recommend first engaging the bracket Slot B on to engine Stud B under the brake pipes. Then proceed to line up Slot A with Thread A behind the air box. Finally engage Slot C onto Firewall Stud C at the brake booster.

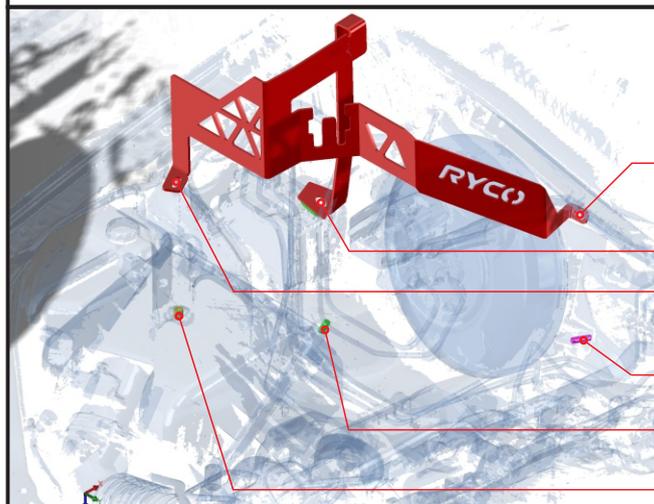


FIG. 9B FB9810CC SLOT/THREAD/STUD LOCATIONS

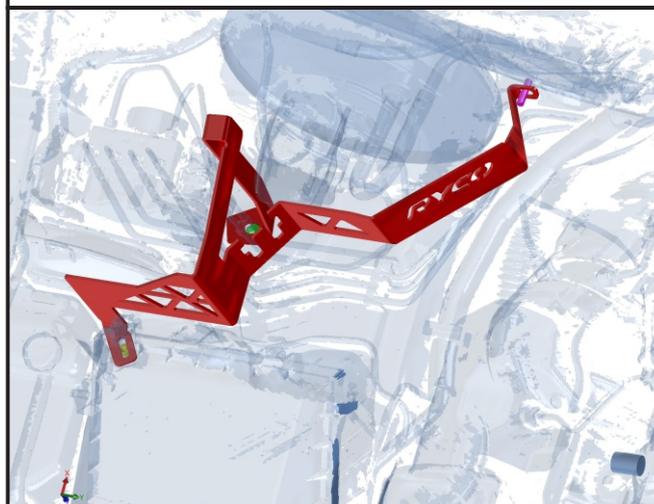


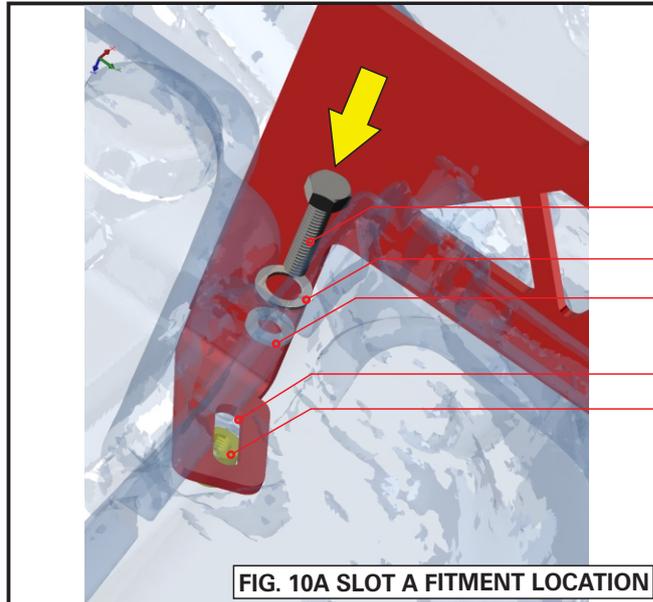
FIG. 9C FB9810CC BRACKET IN POSITION

RVSK112 CATCHCAN FITMENT INSTRUCTIONS

SECTION 3 CATCHCAN INSTALLATION

WORK PROCEDURE

7. Engage supplied MS4037A M6 bolt into supplied MS4107 M6 spring washer, MS4106 M6 washer & Slot A, proceeding to then screw into Airbox mount Thread A.



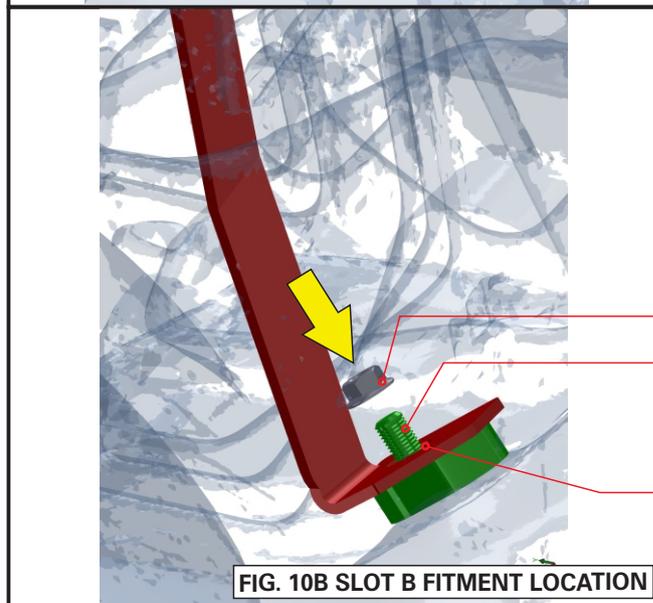
MS4037A,
M6 - 35mm BOLT

MS4107,
M6 SPRING WASHER
MS4106,
M6 WASHER

SLOT A
THREAD A

FIG. 10A SLOT A FITMENT LOCATION

8. Screw supplied MS4040 M6 flange nut onto Stud B.



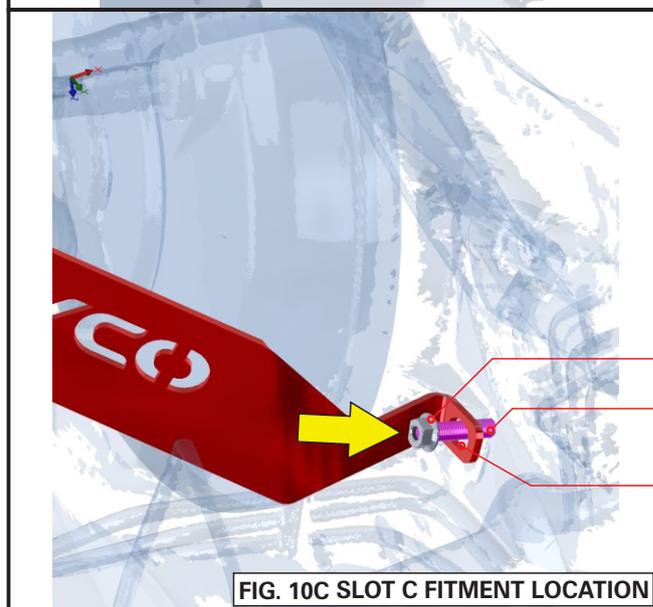
MS4040,
M6 FLANGE NUT

STUD B

SLOT B

FIG. 10B SLOT B FITMENT LOCATION

9. Screw supplied MS4040 M6 flange nut onto Stud C.



MS4040,
M6 FLANGE NUT

STUD C

SLOT C

FIG. 10C SLOT C FITMENT LOCATION

RVSK112 CATCHCAN FITMENT INSTRUCTIONS

SECTION 4 CATCHCAN INSTALLATION

WORK PROCEDURE

10. Slot Catchcan on to the FB9810CC Catchcan bracket as shown in FIG.

NOTE: If the plastic bracket supplied with your RCC351 has a 2mm slot, remove & replace with the plastic bracket supplied in the RVSK112 kit.

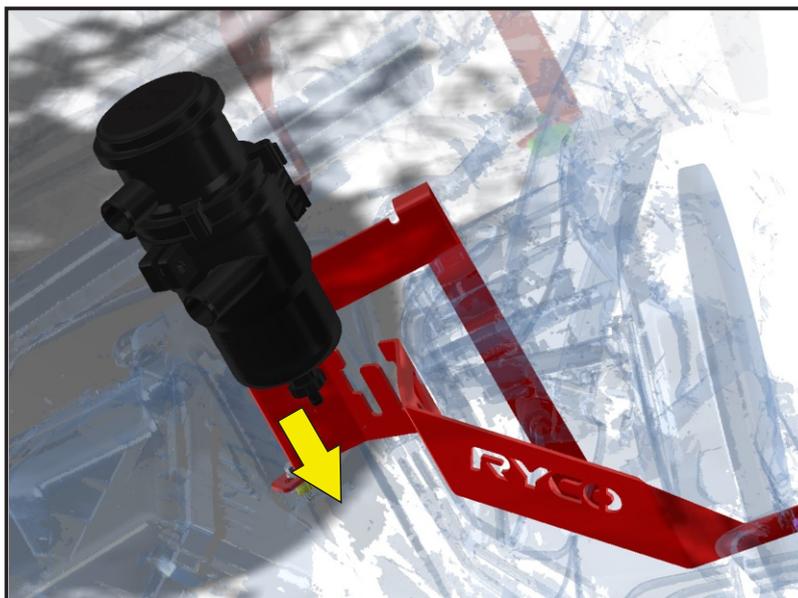


FIG. 11a CATCHCAN FITMENT

11. Proceed to rotate the RCC351 to match the alignment shown in FIG. 11b, ensuring clearance to the Engine Airbox.

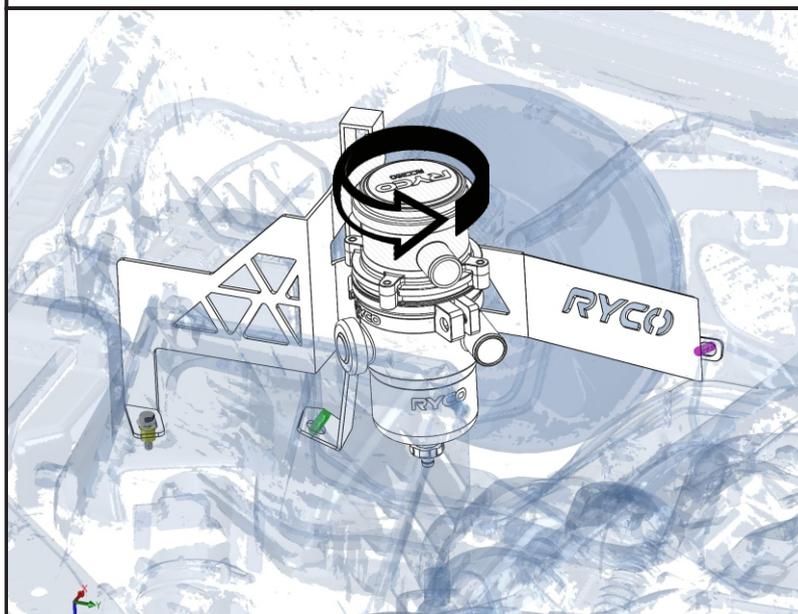


FIG. 11b CATCHCAN FITMENT

RVSK112 CATCHCAN FITMENT INSTRUCTIONS

SECTION 4 CATCHCAN INSTALLATION

WORK PROCEDURE

REFER TO FIG. 11a & 11b

12. Starting with the MH9810B PCV hose, install the small end on to the Engine PCV Port & tighten with the MS4094 hose clamp as shown in Fig. 11a & 11b.
13. Install the other end of the MH9810B PCV hose on to the lower, inlet port, of the RCC351 Catchcan and tighten with the MS4091 hose clamp as shown in Fig. 11a & 11b.
14. Install the larger end of the MH9810A hose on to the upper, outlet port, of the RCC351 Catchcan and tighten with a MS4091 hose clamp. Install the other end of the MH9810A PCV hose on to the Air Intake PCV port and tighten with a MS4094 hose clamp as shown in Fig. 11a & 11b.

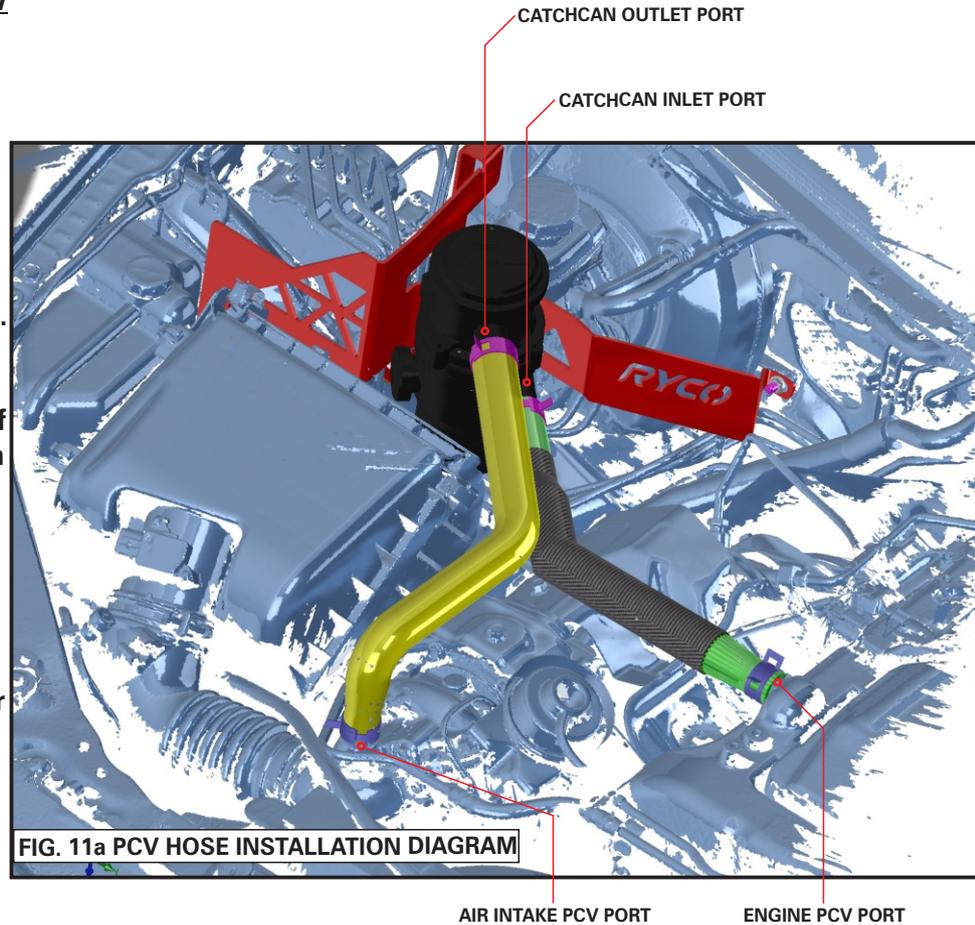


FIG. 11a PCV HOSE INSTALLATION DIAGRAM

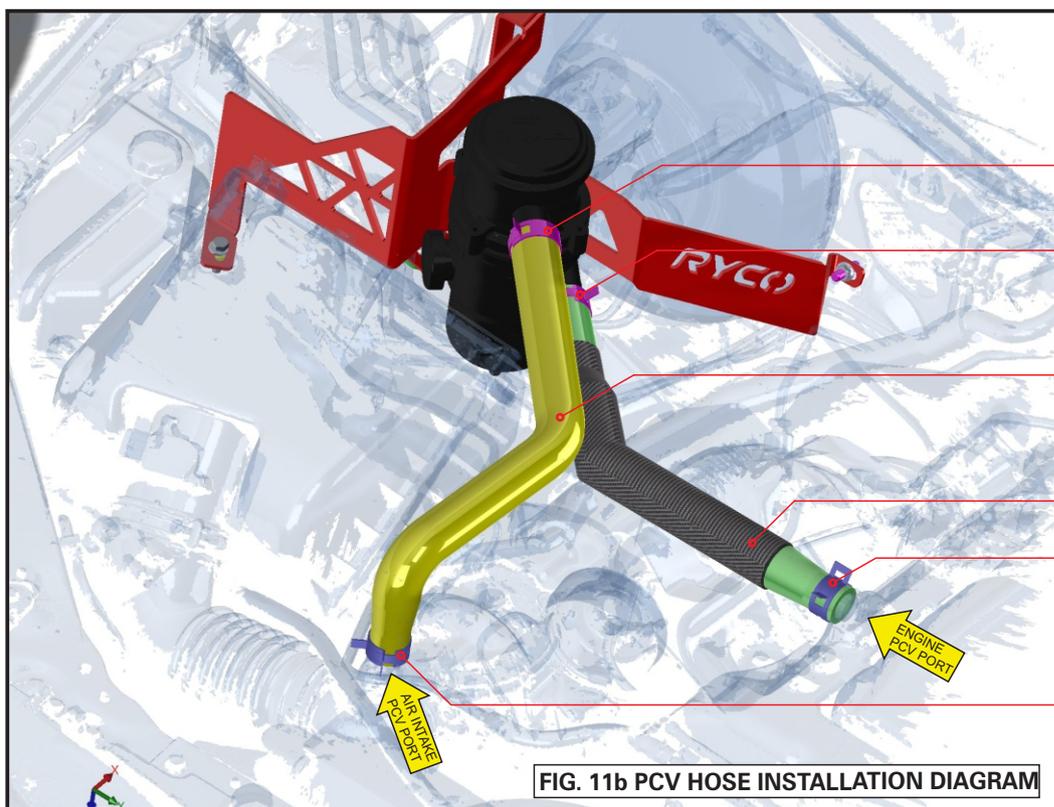


FIG. 11b PCV HOSE INSTALLATION DIAGRAM

- MS4091, 29mm HOSE CLAMP
- MS4091, 29mm HOSE CLAMP
- FB9810A
- FB9810B
- MS4094, 25mm HOSE CLAMP
- MS4094, 25mm HOSE CLAMP

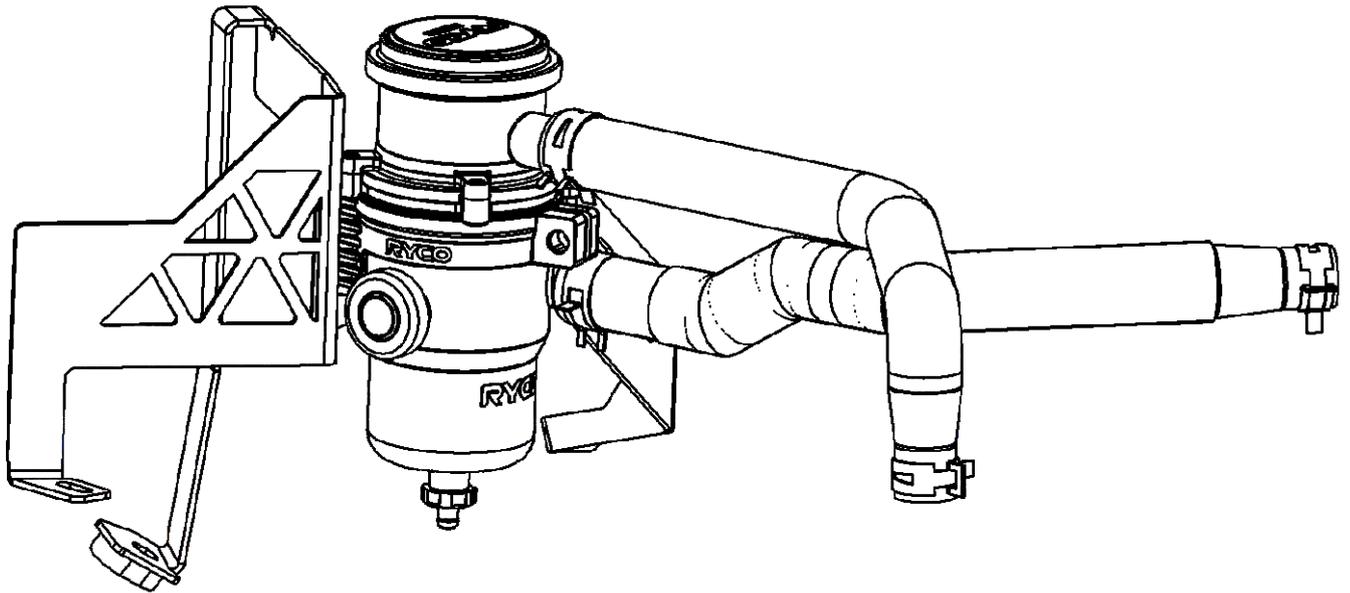
RVSK112 CATCHCAN FITMENT INSTRUCTIONS

SECTION 4 CATCHCAN INSTALLATION (CONTINUED)

WORK PROCEDURE (CONTINUED)

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.



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