



FRONT RUNNER

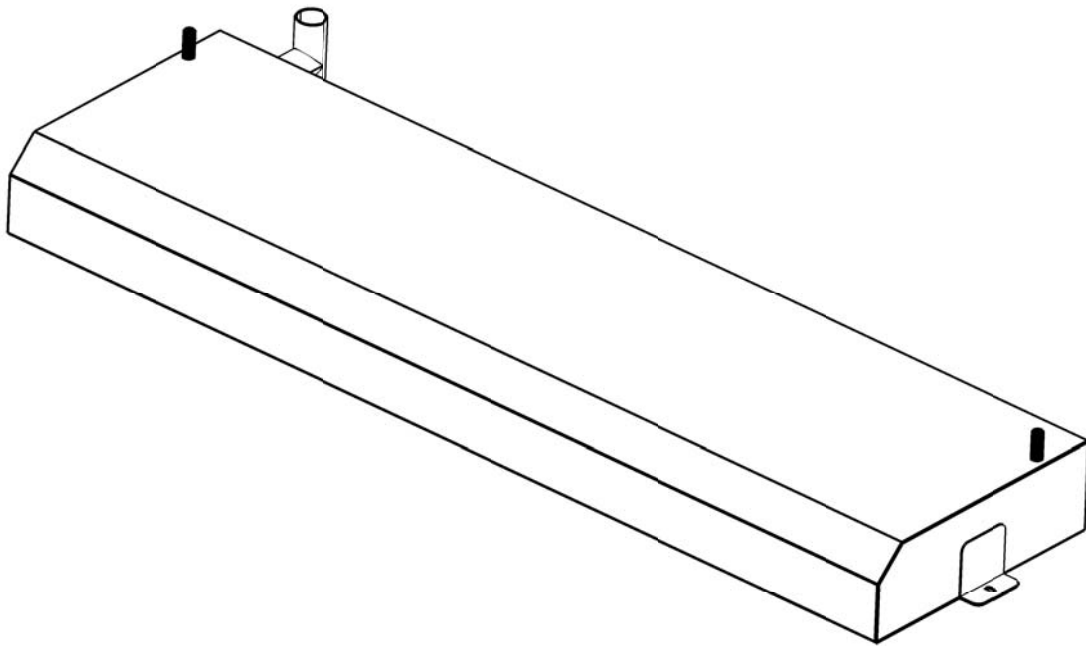
**LAND ROVER DEFENDER 130
50L ADDITIONAL FUEL TANK**

ENG

FTLD029



INSTALL TIME: 3 Hours



IMPORTANT WARNING!

IT IS CRITICAL THAT ALL FRONT RUNNER PRODUCTS BE PROPERLY AND SECURELY ASSEMBLED AND ATTACHED TO YOUR VEHICLE. IMPROPER ATTACHMENT COULD RESULT IN AN AUTOMOBILE ACCIDENT, AND COULD CAUSE SERIOUS BODILY INJURY OR DEATH TO YOU OR TO OTHERS. YOU ARE RESPONSIBLE FOR ASSEMBLING AND SECURING ALL FRONT RUNNER PRODUCTS TO YOUR VEHICLE, CHECKING THE ATTACHMENTS PRIOR TO USE, AND PERIODICALLY INSPECTING THE PRODUCTS FOR ADJUSTMENT, WEAR, AND DAMAGE. THEREFORE, YOU MUST READ AND UNDERSTAND ALL OF THE INSTRUCTIONS AND CAUTIONS SUPPLIED WITH YOUR FRONT RUNNER PRODUCT PRIOR TO INSTALLATION OR USE. IF YOU DO NOT UNDERSTAND ALL OF THE INSTRUCTIONS AND CAUTIONS, OR IF YOU HAVE NO MECHANICAL EXPERIENCE AND ARE NOT THOROUGHLY FAMILIAR WITH THE INSTALLATION PROCEDURES, YOU SHOULD HAVE THE PRODUCT INSTALLED BY A PROFESSIONAL INSTALLER OR OTHER QUALIFIED PERSONNEL.

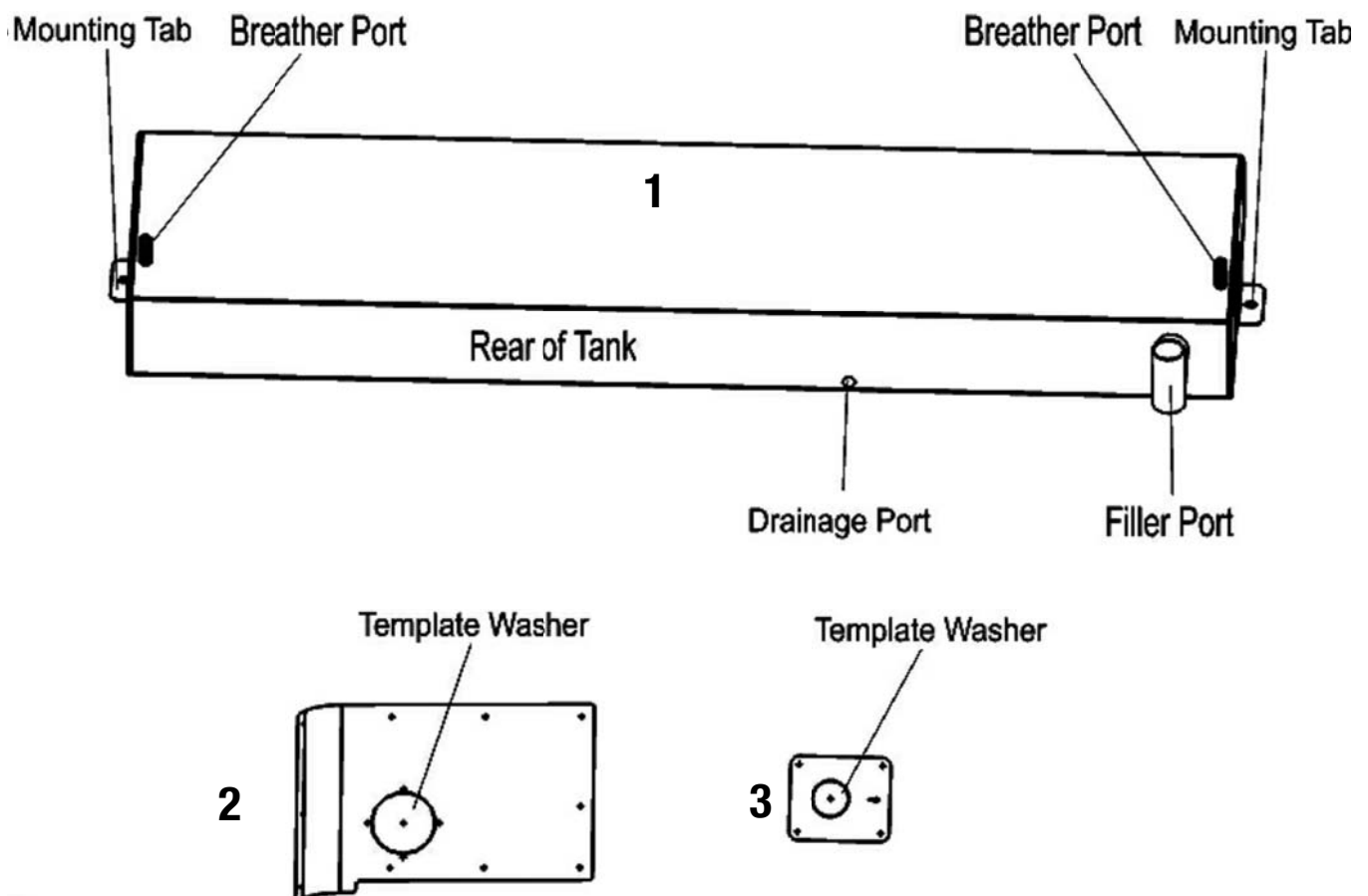
1 GET ORGANIZED...

Here is what you are looking at:

You will need:

- | | |
|---|---|
| ☐ Drill Machine | ☐ Suitable Steel File |
| ☐ 5 mm Drill Bit | ☐ T30, T40, T50 Torx Wrench |
| ☐ 22 mm Hole Saw or Step Drill | ☐ Flat Screw Driver |
| ☐ 76 mm Hole Saw | ☐ Silicone |
| ☐ Utility Knife | ☐ Pop Rivet Gun |
| ☐ Suitable Marking Pen | ☐ Hacksaw Blade or Suitable Tool for Step 3G |
| ☐ 8, 10 & 13 mm Flat and Socket Wrench | ☐ Masking Tape |

Item #	Quantity	Description
1	1	FUEL TANK
2	1	OUTER COVER PLATE
3	1	INNER COVER PLATE



- (A) Familiarize yourself with the parts and then step away from the work area and read through these instructions from beginning to end. Take a moment as little prep now may save you a lot of time later.

1 GET ORGANIZED...

Here is what you are looking at:

Item #	Quantity	Description
4	1	12 mm FUEL HOSE
5	1	FILLER NECK
6	1	FILLER CAP
7	18	POP RIVET
8	1	STEEL FILLER T-PIECE
9	1	STEEL BREATHER T-PIECE
10	2	NYLON T-PIECE
11	1	BANJO FITTING
12	2	COPPER WASHER
13	1	BANJO BOLT

Item #	Quantity	Description
14	1	8mm FUEL HOSE
15	2	50 - 75 mm HOSE CLAMP
16	2	45 - 50 mm UNI-CLAMP
17	10	16 -25 mm HOSE CLAMP
18	2	20 - 32mm HOSE CLAMP
19	2	8 - 16 mm HOSE CLAMP
20	1	38 mm FILLER HOSE
21	2	M6 x 30 HEX BOLT
22	4	M6 x 19 FLAT WASHER
23	2	M6 NYLOC NUT

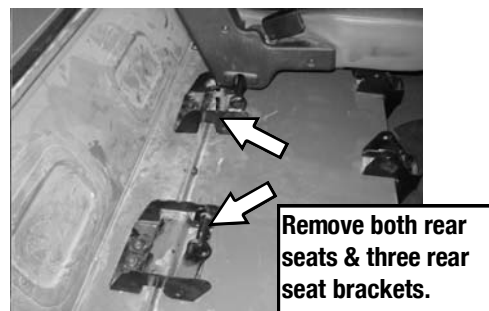


- (A) Familiarize yourself with the parts and then step away from the work area and read through these instructions from beginning to end. Take a moment as little prep now may save you a lot of time later.

2 REMOVE REAR SEATS AND BOX

- (A) Move the two front seats into the forward position and collapse them, creating space to work in the rear of the vehicle. Remove the two rear seats from the vehicle. Remove the three rear seat mounting brackets.

Remove the "Box" that the rear seats were mounted to.



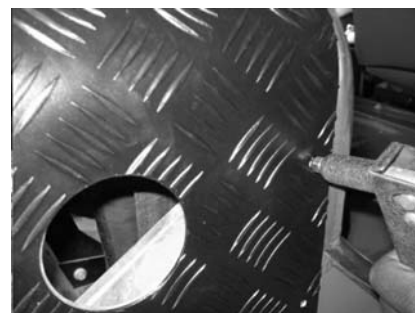
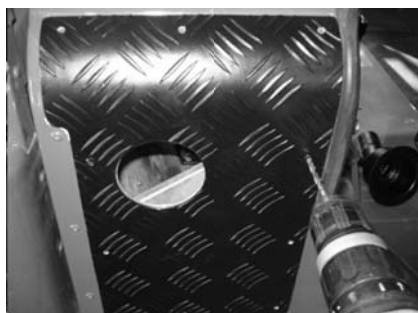
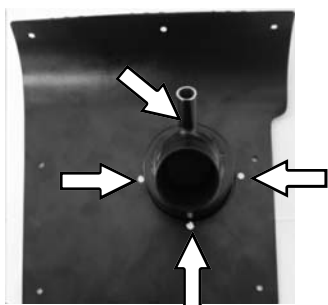
3 DRILL HOLES AND FIT COVER PLATES

- (A) Working on the area just behind the right hand side passenger door, tape up the area as shown using masking tape. Place the Outer Cover Plate (Item 2) over the taped area. Mark the hole in the center of the Template Washer, as indicated by the arrow, onto the masking tape and remove the Cover Plate.

Using a 76 mm hole saw, drill a 76 mm hole into the side of the vehicle. Remove the masking tape and using a file, clean any rough edges left behind from drilling.



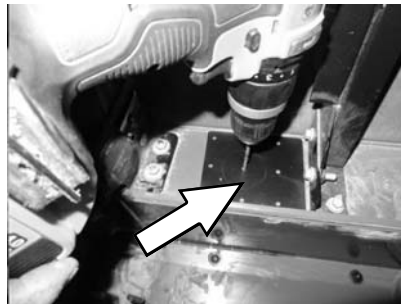
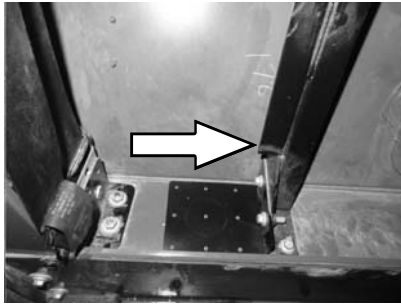
- (B) Press out the Template Washer on the Cover Plate. Place the Filler Neck (Item 5) through the Cover Plate and align as shown. Mark the four holes in the Cover Plate, as indicated by the arrows, onto the Filler Neck. Place the Cover Plate back onto the vehicle, lining up the hole in the cover plate with the hole in the vehicle's body. Using a 5 mm drill bit, drill machine, pop rivet gun and Pop Rivets (Item 7) supplied, drill and secure the Cover Plate to the vehicle.



3 DRILL HOLES AND FIT COVER PLATES CONT...

- (C) Working just inside the right hand side passenger door. Place the Inner Cover Plate (Item 3) onto the top of the rear shelf and push it up against the bracket as shown. The arrow on the Cover Plate must point towards the bracket.

Using the hole in the center of the Template Washer as a marker, drill a 5 mm hole into the vehicle and remove the Cover Plate. Using the 79 mm hole saw, open up the 5 mm hole to 76 mm. Using a file, clean any rough edges left behind from drilling.

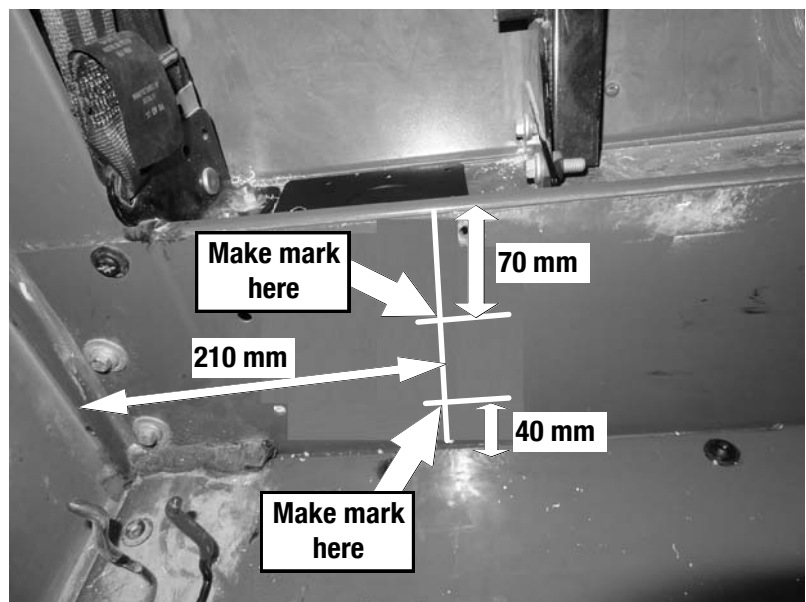


- (D) Press out the Template Washer on the Cover Plate and place the Cover Plate back onto the vehicle, lining up the hole in the Cover Plate with the hole in the vehicle's body. Using a 5 mm drill bit, drill machine, pop rivet gun and Pop Rivets (Item 7) supplied, drill and secure the Cover Plate into position.

- (E) Still working on the inside of the right rear passenger door, make two markings on the front face of the rear shelf.

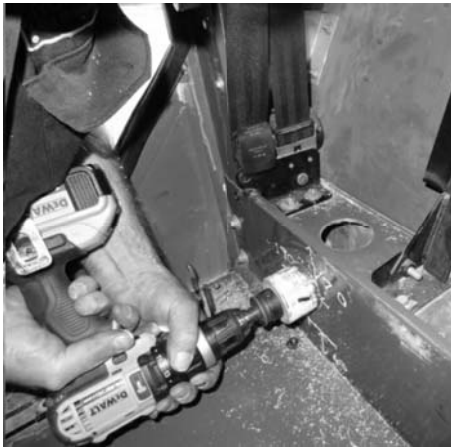
The top marking should be 210 mm in from the side of the vehicle and 70 mm down from the top of the shelf.

The bottom mark should be 210 mm in from the side of the vehicle and 40 mm up from the floor of the vehicle.

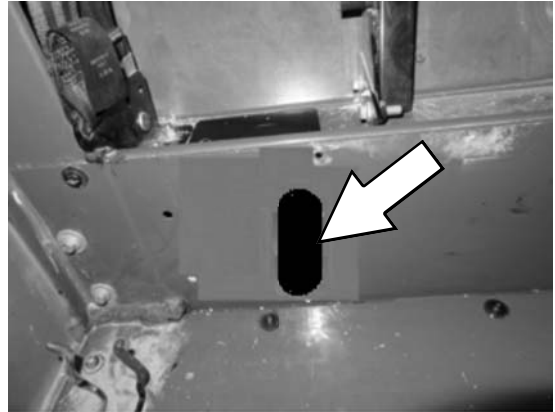


3 DRILL HOLES AND FIT COVER PLATES CONT...

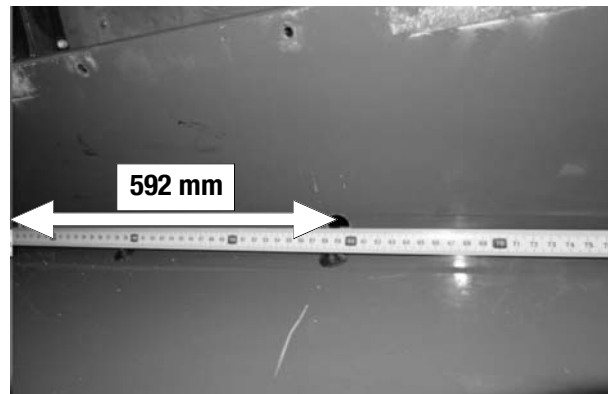
- (F) Using a 76 mm hole saw, drill a 76 mm hole on each of your markings from Step 3E.



- (G) Using a hacksaw blade or suitable tool, join the two holes drilled in Step 2F to form a rounded slot as shown.

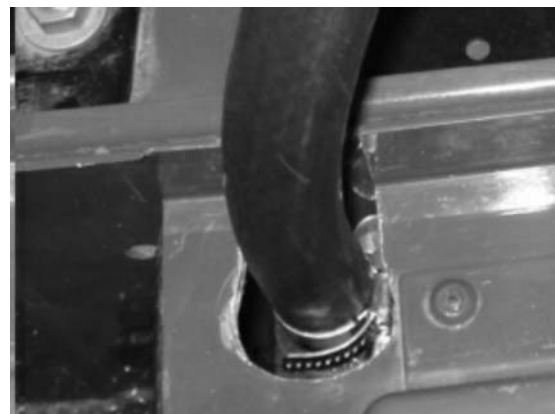


- (H) Using a 22 mm hole saw, drill a hole 590 mm in from the right hand side of the vehicle and 20 mm up off the floor.



- (I) Fit the Tank (Item 1) into the vehicle, feeding the Filler "T" and Drain Port through the holes made in Steps 3G & 3H.

Place the "Box" removed in Step 2A back into the vehicle and over the Tank. Mark-up and make a "U" shaped cut-out in the top of the "Box", as shown to the right, for both the left and right hand side Breather Ports.



4

CONNECT UP PIPING INSIDE THE VEHICLE

- (A) Cut the length of 12mm Fuel Hose (Item 4) into the following four approximate lengths:

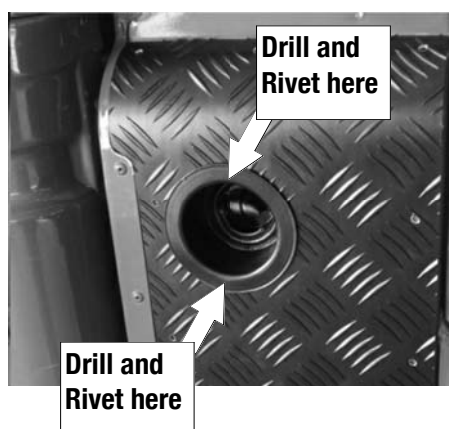
200 mm - Referred to as Item 24
 400 mm - Referred to as Item 25
 1 650 mm - Referred to as Item 26
 2 000 mm - Referred to as Item 27

- (B) When satisfied with the fitment of the "Box" over the Tank, pull back the "Box". Pull the "Box" back and flip it onto its front face. Fit the 1650 mm long 12 mm Fuel Hose (Item 27) to the left hand side Breather Port and secure using a 16-25 mm Hose Clamp (Item 17). Fit the 400 mm long 12 mm Fuel Hose (Item 25) to right hand side Breather Port using another 16-25 mm Hose Clamps.

- (C) Silicone the "Ribs" on the underside of the "Box" as shown and slide the "Box" back into position. Secure the Tank and "Box" to the floor and rear shelf of the vehicle using the original bolts removed in Step 2A and the two M6 x 30 Hex Bolts, four M6 x 19 Flat Washers and two M6 Nyloc Nuts (Items 21, 22, 23) supplied. The Bolts, Washers and Nyloc Nuts are used on the holes that line up with the Mounting Tabs of the Tank.



- (D) Using a 5 mm drill bit, drill machine, pop rivet gun and Pop Rivets (Item 7), drill the Filler Neck (Item 5) on your markings from Step 3B and secure the Filler Neck to the vehicle as shown. The Filler Neck must face down towards the hole and Cover Plate in the rear shelf (Refer to Steps 3C & 3D).



4 CONNECT UP PIPING INSIDE THE VEHICLE CONT...

- (E) Fit the 38 mm Filler Hose (item 20) to the Filler Neck as shown using a 45-55 mm Uni Clamp (Item 16). The other end of the Filler Hose must be fed through the Hole in the rear shelf (Refer to Step 3C & 3D) and connected to the top of the Filler "T" using the second 45-55 mm Uni Clamp supplied.

Connect one end of the 200 mm long 12 mm Fuel Hose (item 24) to the Breather Pipe of the Filler Neck using a 16-25 mm Hose Clamp (Item 17) as shown. Connect a Nylon T-piece (item 10) to the other end of the fuel hose with the "T" facing down.



- (F) Run the 1650mm long 12mm Fuel Hose connected to the left hand side Breather Port in Step 4B across the rear of the vehicle, behind the seat brackets and fasten it to the other end of the Nylon T-piece fitted in Step 4C using 16-25mm Hose Clamp (Item 17).

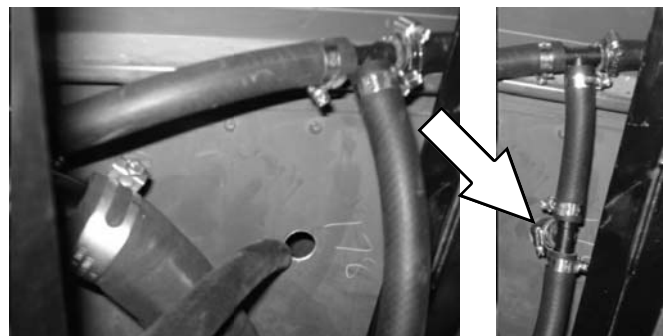


- (G) Connect the open end of the 400 mm long 12 mm Fuel Hose connected to the right hand side Breather Port in Step 4A to the bottom of the Nylon T-piece using a 16-25 mm Hose Clamp (Item 17).

Using a 22 mm hole saw, drill a hole in the rear wall of the vehicle as shown.



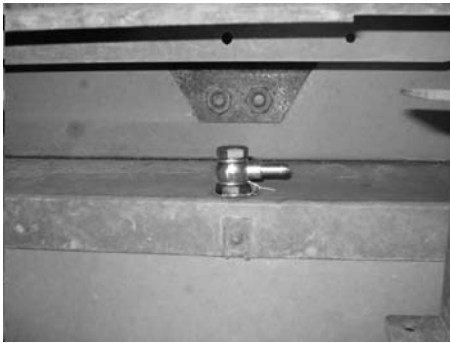
- (H) Feed the 2 000 mm long 12 mm Fuel Hose (Item 27) through the hole drilled in Step 4G. Cut the 400 mm section of Fuel Hose that runs between the Nylon T-piece and the right hand side Breather Port and "T-in" the 2 000 mm long Hose using the remaining Nylon T-piece and three 16-25 mm Hose Claps (Items 10 & 17) as shown.



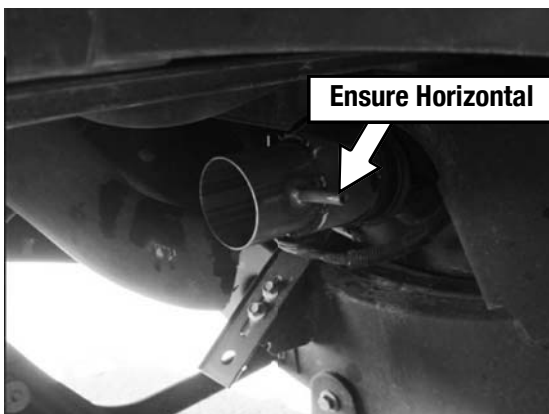
5 CONNECT UP PIPING OUTSIDE THE VEHICLE CONT...

- (A) Fit the Banjo Fitting (Item 11) to the Drainage Port of the Tank using the two Copper Washers and Banjo Bolt (Items 12 & 13). Connect one end of the 2 600 mm long 8mm Fuel Hose (Item 14) to the Banjo Fitting using one of the 8-16 mm Hose Clamps (Item 19).

Run both the 8 mm and 12 mm Fuel Hoses to the vehicle's original Tank found at the rear right hand side of the vehicle.

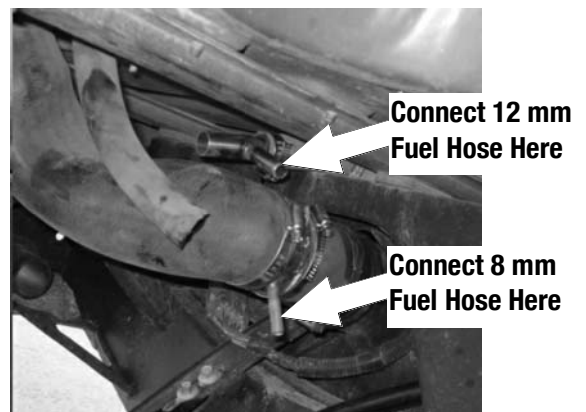


- (B) Cut the vehicle's original filler hose and fit the Steel Filler T-piece (Item 8) using the two 50-75 mm Hose Clamps (Item 15) supplied as shown below. Ensure that the T-piece is horizontal before tightening.



- (C) Cut the vehicle's original breather pipe and fit the Steel Breather T-piece (Item 9) using two 20-32 mm Hose Clamps (Item 18) supplied.

Connect the open end of the 8 mm Fuel Hose running from the Additional Fuel Tank to the Steel Filler T-piece using a 8-16 mm Hose Clamp (Item 19) and connect the 12mm Fuel Hose Running from the Additional Fuel Tank to the Steel Breather T-piece using 16-25 mm Hose Clamp (Item 17).



6 COMPLETE THE JOB

- (**A**) Refit the vehicle's rear seats. Ensure that all nuts, bolts and piping are tight and secure.

Working on the outside of the vehicle, Silicone the area around the body where the Filler Port and 12 mm Fuel Hose exit the vehicle.



Congratulations, you have completed your installation. Take a step back and admire your work. Good Job!

7 INSTALL OTHER VEHICLE AND RACK ACCESSORIES

- (**A**) Now's the time to visit your favourite Front Runner dealer in person or online.