



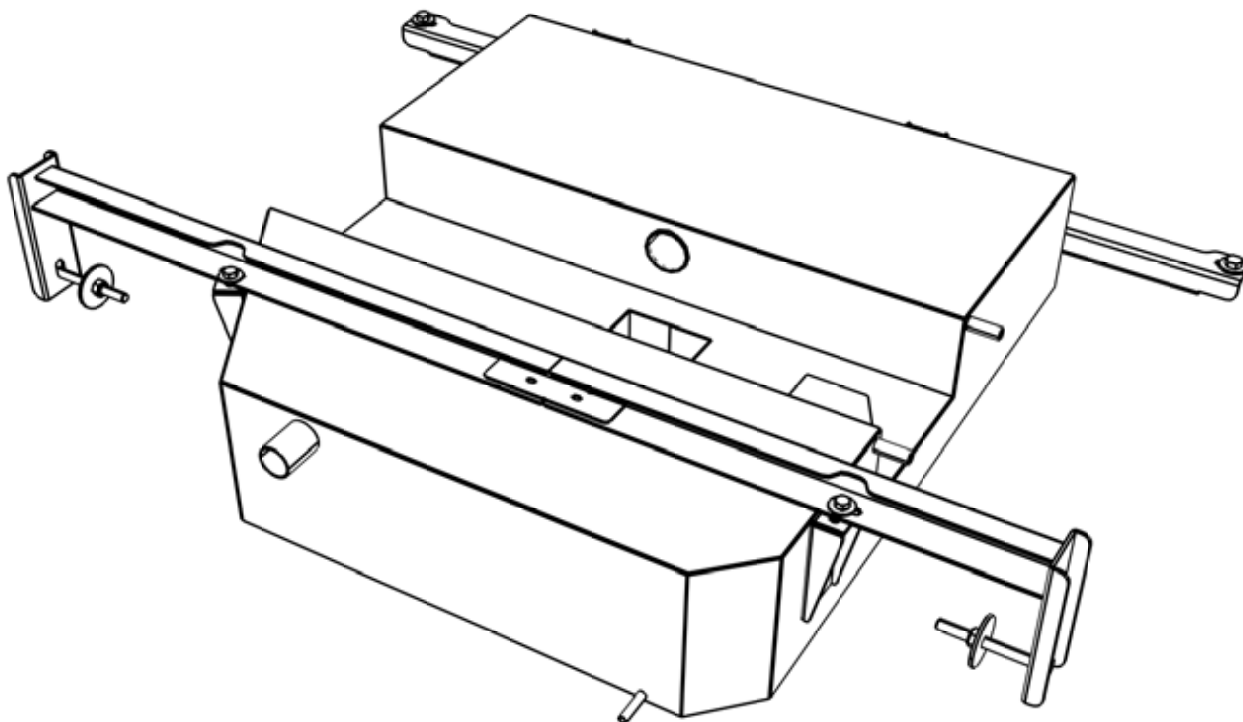
FRONT RUNNER

Toyota Hilux DC 2005 - Current Additional 70L Fuel Tank

ENG

FTTH009

 **INSTALL TIME: 1.5 Hours**



This installation is applicable to Toyota Hilux models made from 2005 - current. Some Steps differ between the 7th Generation and the 8th Generation. Ensure that the vehicle's fuel tank is below the half level mark before starting the fitment.

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.

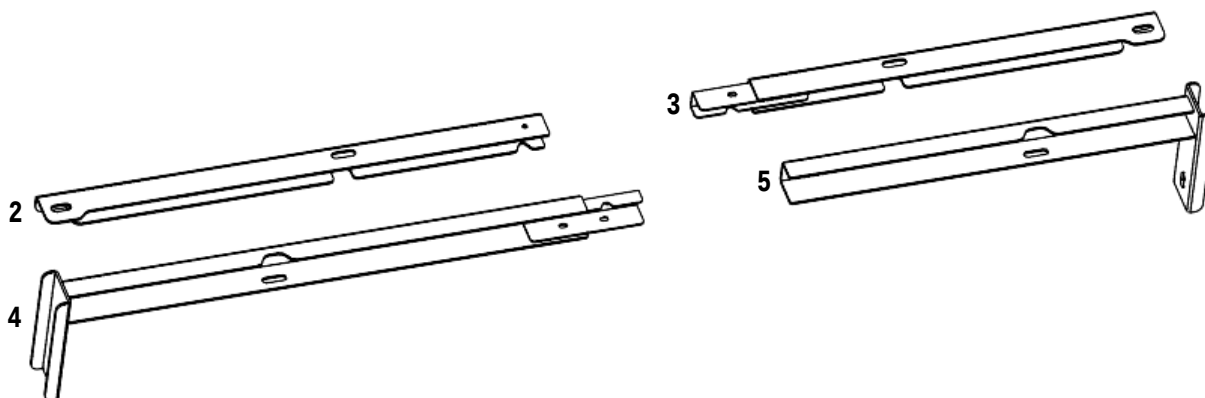
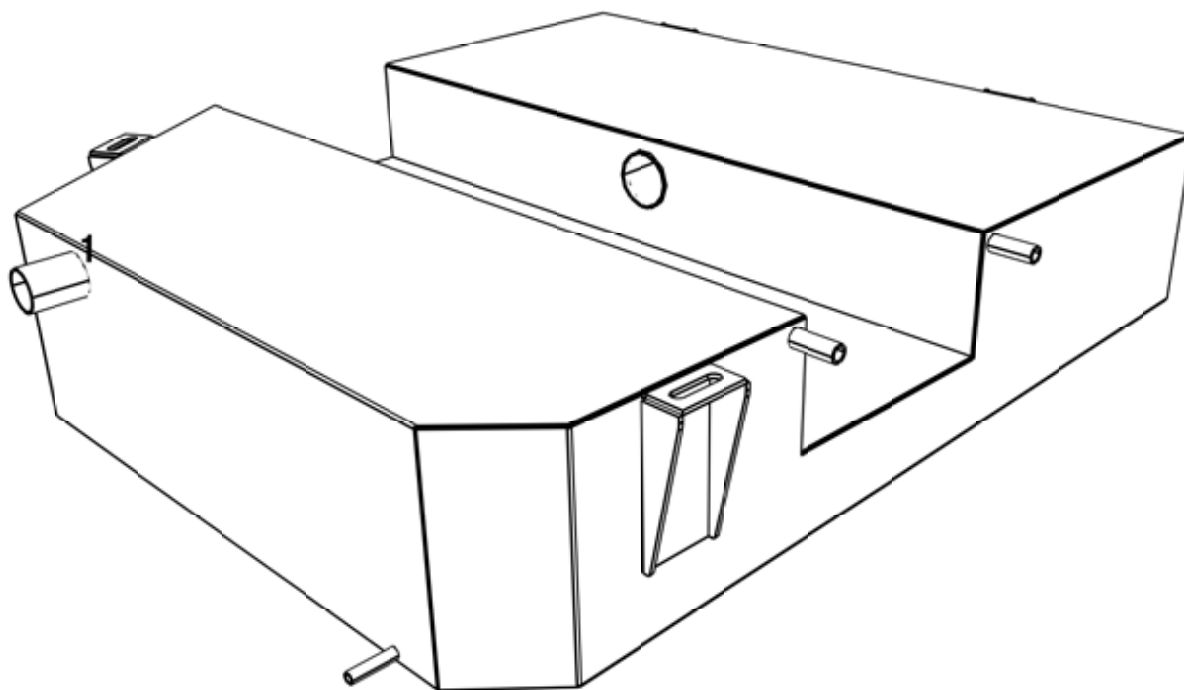
1 GET ORGANIZED...

Here is what you are looking at:

Item #	Quantity	Description
1	1	AUXILIARY FUEL TANK
2	1	REAR BRACKET PART 1
3	1	REAR BRACKET PART 2
4	1	FRONT BRACKET PART 1
5	1	FRONT BRACKET PART 2

You will need:

- ☐ Measuring Tape
- ☐ Medium Flat Screwdriver
- ☐ 7 mm, 10 mm, 13 mm, 16 mm Flat & Socket Wrench
- ☐ Vice
- ☐ Hack Saw
- ☐ Drill Machine
- ☐ 7 mm & 10 mm Drill Bit
- ☐ Threadlocker (LOCTITE)
- ☐ Pliers
- ☐ Rounded & Semi-Circle Steel File or Sandpaper
- ☐ Utility Knife
- ☐ Suitable Marking Pen
- ☐ Suitable Cable Ties - Step 4G

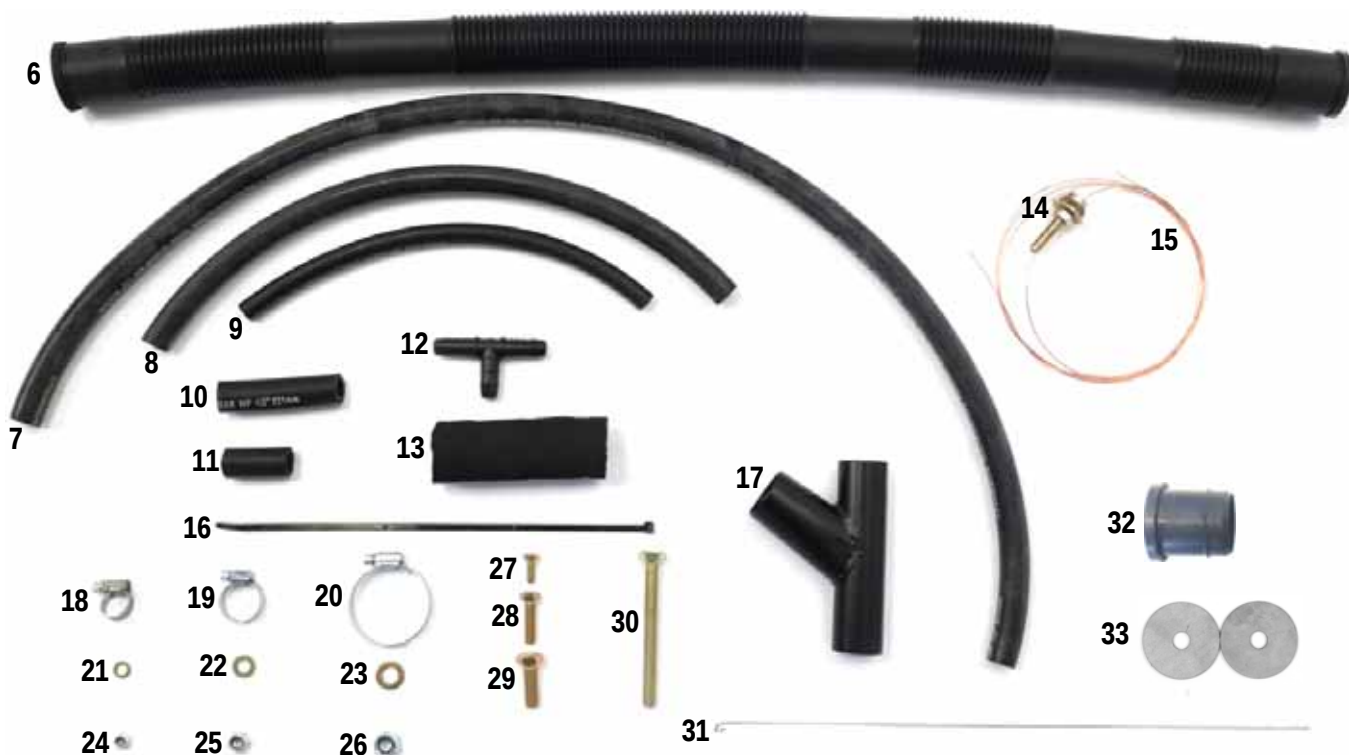


1 GET ORGANIZED CONT...

Here is what you are looking at:

Item #	Quantity	Description
6	1	PLASTIC FILLER HOSE
7	1	12mm FUEL HOSE - 1 000mm LONG
8	2	12mm FUEL HOSE - 450mm LONG
9	1	8mm FUEL HOSE - 280mm LONG
10	2	12mm FUEL HOSE - 78mm LONG
11	1	12mm FUEL HOSE - 40mm LONG
12	2	PLASTIC T-PIECE
13	1	32mm FUEL HOSE - 100mm LONG
14	1	BALANCE FITTING
15	1	COPPER WIRE
16	2	CABLE TIE
17	1	Y-FILLER
18	2	8 - 16mm HOSE CLAMP

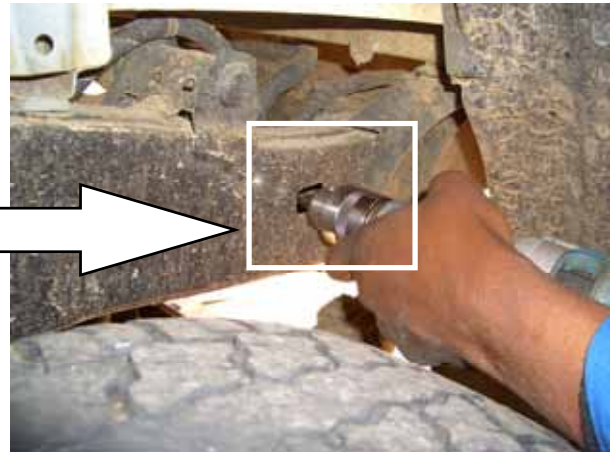
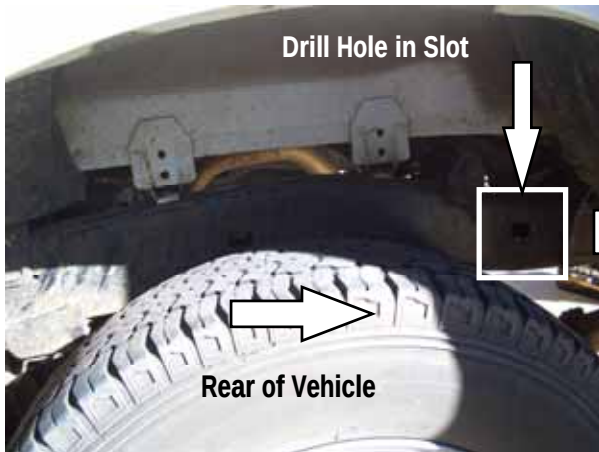
Item #	Quantity	Description
19	10	16 - 25mm HOSE CLAMP
20	6	32 - 50mm HOSE CLAMP
21	4	M6 FLAT WASHER
22	8	M8 x 25 FLAT WASHER
23	8	M10 x 30 FLAT WASHER
24	2	M6 NYLOC NUT
25	4	M8 NYLOC NUT
26	4	M10 NYLOC NUT
27	2	M6 x 15 HEX BOLT
28	4	M8 x 25 HEX BOLT
29	2	M10 x 30 HEX BOLT
30	2	M10 x 100 HEX BOLT
31	1	HOOING WIRE
32	2	RUBBER BUNG
33	2	M10 x 50 x 3 FLAT WASHER



(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 a little prep now may save you a lot of time later.

2 PREPARE FOR INSTALL

- (A)** Holes need to be drilled into the chassis of the 2005 - 2015 models in order to secure the front bracket. Drill an 7 mm pilot hole, through the chassis in the illustrated position. Center the hole within the existing slot. Increase the pilot hole to 10 mm. Repeat on the left side of the vehicle.



- (B)** Remove the spare wheel from underneath the vehicle.
- Loosen the left rear wheel arch liner in order to access the vehicles filler neck.

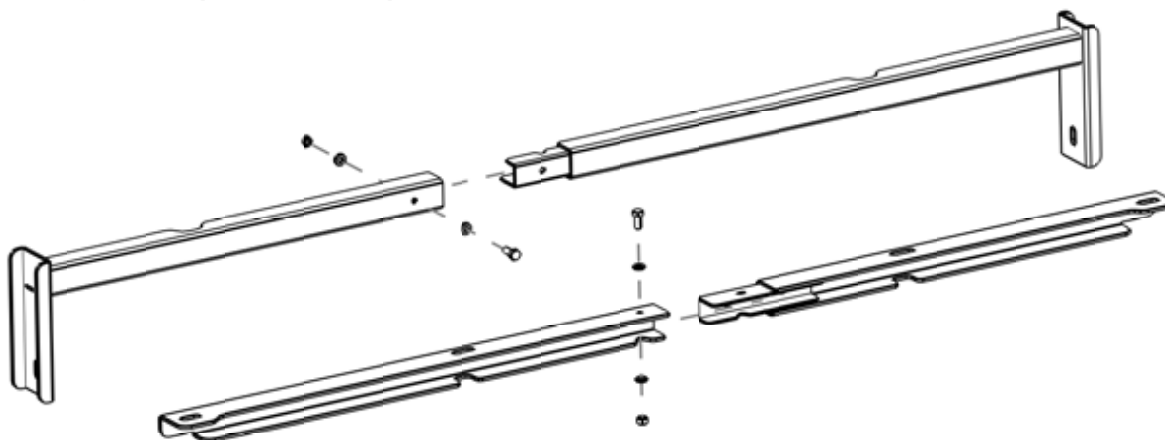


- (C)** Drill a hole into the rear of the existing fuel tank with an 8 mm drill bit. The top Half of the tank has an existing marking moulded into the plastic as shown by the arrow. Drill in the center of these marking.



2 PREPARE FOR INSTALL CONT...

- (D)** Assemble the Front and Rear Brackets (Items 2, 3, 4, 5) using the M6 x 16 Hex Bolts, M6 Flat Washers and M6 Nyloc Nuts (Items 21, 24, 27) as shown below.



- (E)** Position the Front Bracket assembly over the outside of the chassis with the open face of the "U" channel facing the front of the vehicle. Line up the mounting holes in the Bracket assembly with the holes drilled in Step 2A and loosely secure the assembly to the vehicle using the two M10 x 100 Hex bolts, two M10 Flat Washers on the outside, two M10x50x3 Flat washers on the inside and two M10 Nyloc Nuts (Items 23, 26, 30, 33).



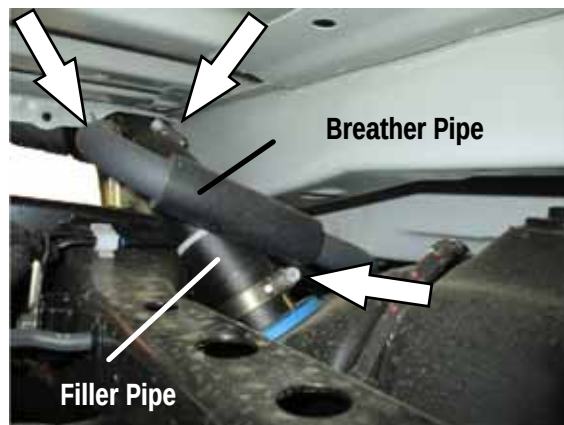
- (F)** Install the Rear Bracket assembly with open face of the "U" channel facing the rear of the vehicle . The assembly is bolted to the existing holes on either side of the chassis using the two M10 x 30 Hex Bolts, four M10 Flat Washers and two M10 Nyloc Nuts (Items 23, 26, 29).



3 PREPARE PIPING FOR INSTALL

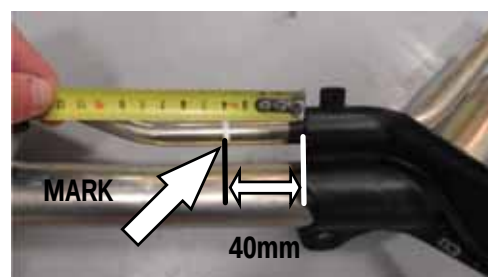
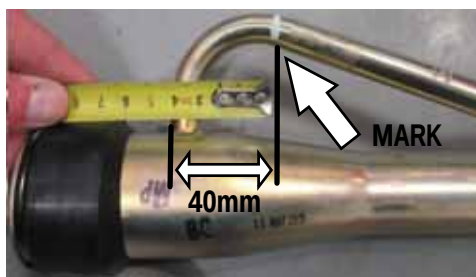
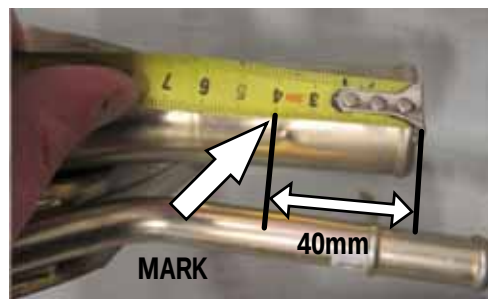
- (A) Loosen the three hose clamps as indicated by the arrows. Remove the main filler hose that runs between the filler neck and fuel tank. Keep the filler hose as it will be used in Steps 3D & 3E.

Unclip the fuel flap release cable from the breather pipe and pull the breather pipe free of the filler neck. Loosen and remove the filler neck from the vehicle taking care not to damage the fuel flap release cable.



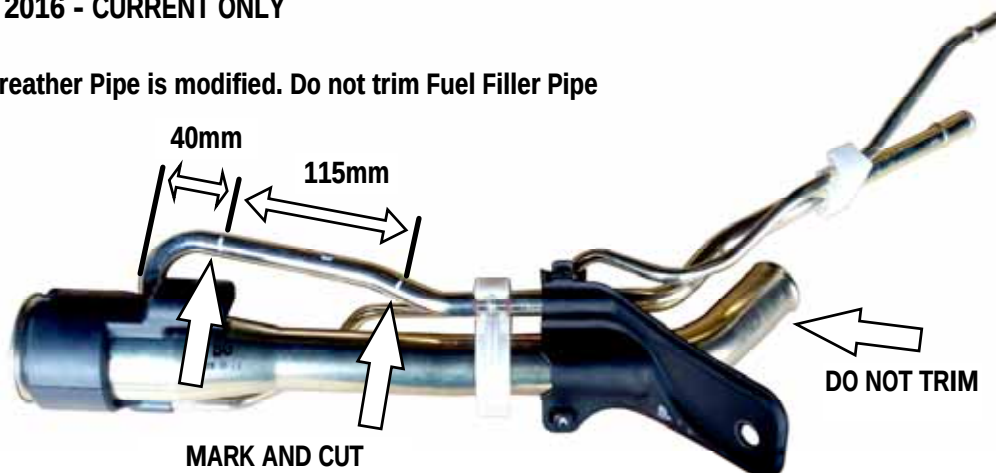
(B.1) TOYOTA HILUX 2005 - 2015 ONLY

With the filler neck removed, measure and mark the filler neck as illustrated. Cut the filler neck on each of your markings and clean any rough edges using a steel file or sandpaper. The offcuts may be discarded.



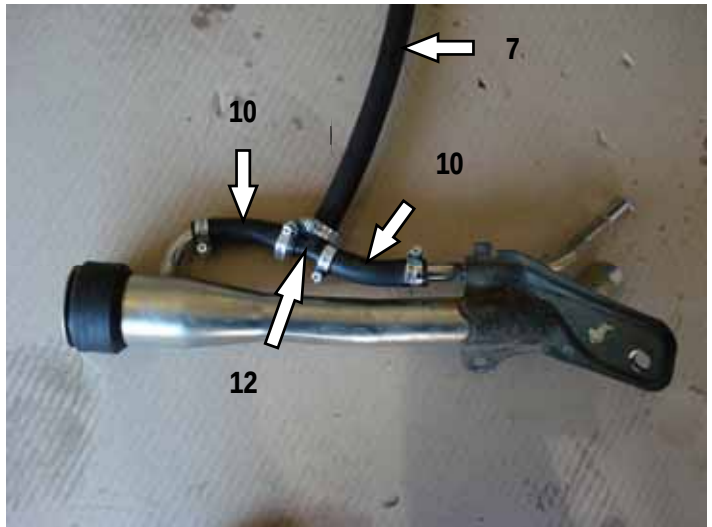
(B.2) TOYOTA HILUX 2016 - CURRENT ONLY

Note: Only the Breather Pipe is modified. Do not trim Fuel Filler Pipe



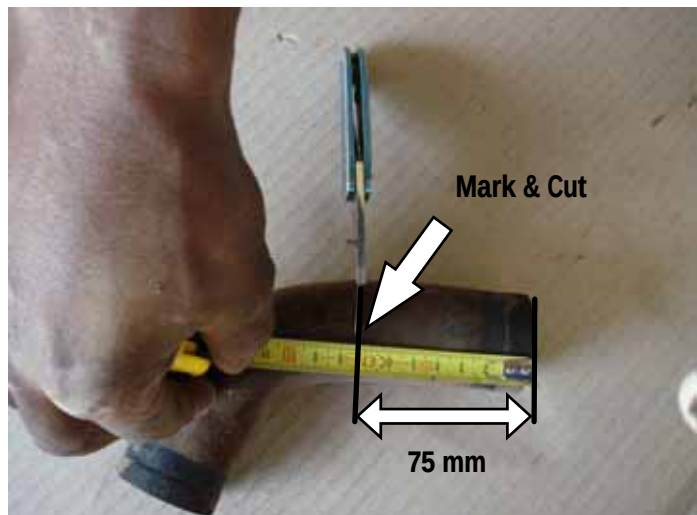
3 PREPARE PIPING FOR INSTALL CONT...

- (C)** Connect the two 78 mm long - 12mm Fuel Hoses, one Plastic T-piece and 1 000 mm long - 12 mm Fuel Hose (Items 7, 10, 12) to the filler neck using five 16-25 mm Hose Clamps (Item 19) as shown.



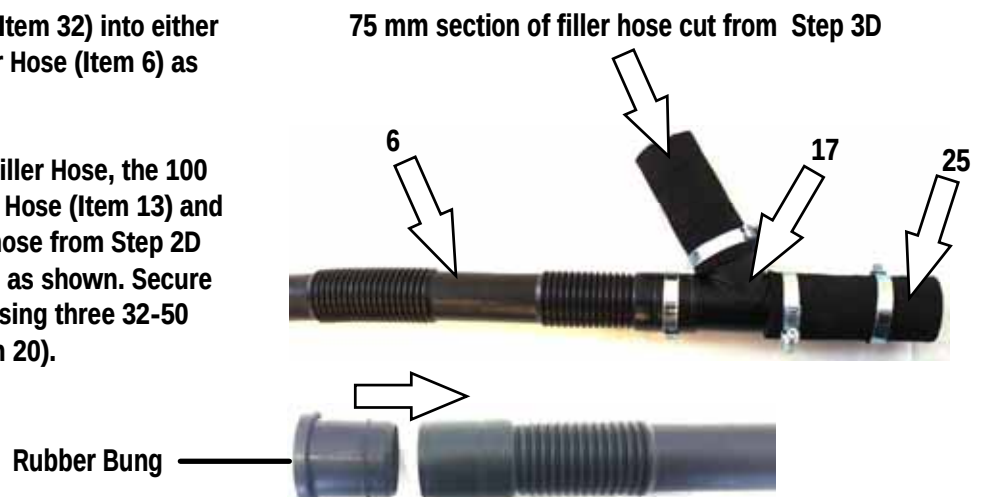
- (D)** TOYOTA HILUX 2005 - 2015 ONLY

Measure, mark and cut 75 mm off the straight section of the filler hose removed in Step 2B. The 75 mm long piece of hose will be used in Step 2E. The remaining section may be discarded.



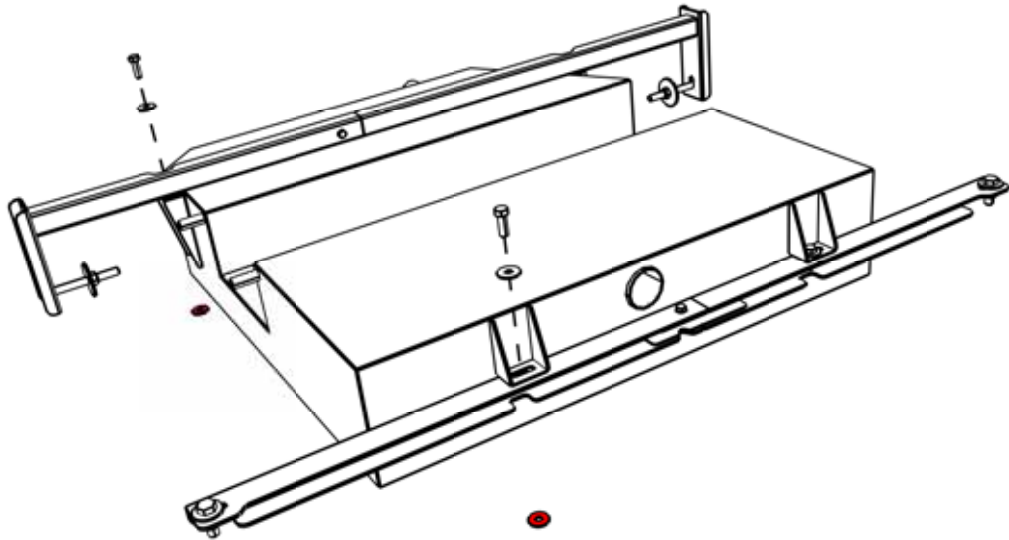
- (E)** Insert a Rubber Bung (Item 32) into either end of the Plastic Filler Hose (Item 6) as shown.

Assemble the Plastic Filler Hose, the 100 mm long - 32 mm Fuel Hose (Item 13) and the 75 mm section of hose from Step 2D to the Y-filler (Item 17) as shown. Secure the hoses in position using three 32-50 mm Hose Clamps (Item 20).



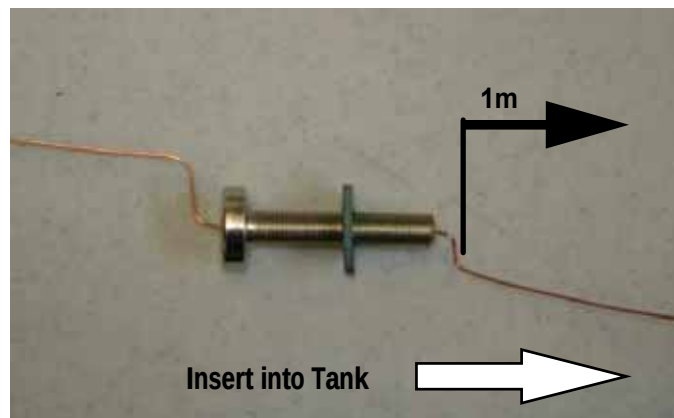
4 FIT AND CONNECT TANK

- (A)** Lift the Auxiliary Tank (item 1) into position making sure that the chain used to hold and tighten the spare wheel in position is placed through the hole in the center of the Tank. Maneuver the Tank so that the rear mounting brackets sit flush on top of the back bracket. Lift the front of the Tank upwards and rotate the front bracket until the mounting holes in the bracket line up with the mounting holes on the Tank. Secure the Tank into position using the four M8 x 25 Hex Bolt, eight M8 x 25 Flat Washers and four M8 Nyloc Nuts (Items 22, 25, 28).



- (B)** The Copper Wire (Item 15) needs to be modified. Measure a 1m length of wire from either end. Make a kink in the wire and slide the Balance Fitting (Item 14) onto the wire as shown. Ensure that the balance fitting has only ONE Fibre Washer on its threads. Make another kink in the wire after the Balance Fitting. Make sure that there is some play for the Balance Fitting along the length of the wire.

The wire and Balance Fitting assembly must be inserted into the vehicles' original tank through the original filler hose port thread and Fibre Washer end first . Keep the left end of the wire sticking out the tank. Insert the Hooking Wire (Item 31), hook end first, into the 8 mm hole drilled in Step 2C. Locate the wire within the original tank and pull the Balance Fitting through the 8 mm hole. Fasten the Balance Fitting to the tank using the remaining Fibre Washer and Nut supplied. Flatten the kink on the wire and pull copper wire out from the top of the original tank.



4 FIT AND CONNECT TANK CONT...

- (C)** Connect the Auxiliary Tank to the vehicles' main tank using the 280 mm long piece 8mm Fuel Hose (Item 9) supplied. Secure the hose in position using two 8-16mm Hose Clamps as shown.



- (D)** Secure the Y-piece and Hose assembly from Step 3E the vehicles' original tank as shown and secure using a 32-50 mm Hose Clamp (Item 20).

Plastic Filler to Auxiliary Tank

32mm Hose (Item 13) to Filler Neck



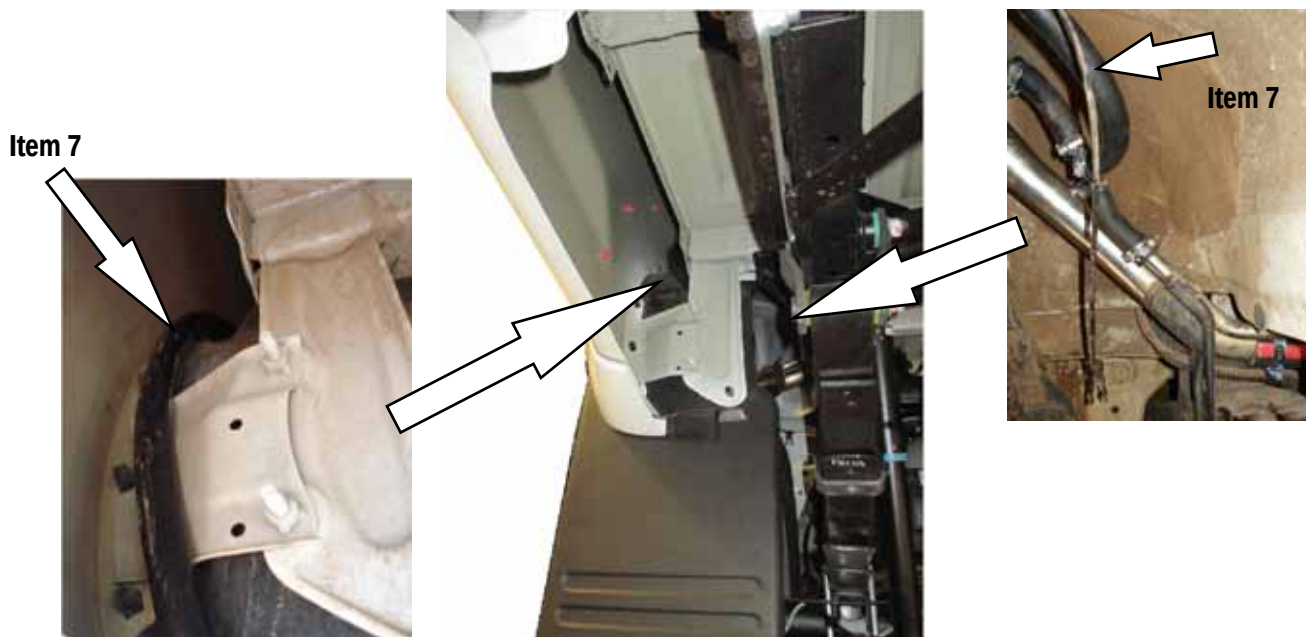
- (E)** Re-install the filler neck. Start by pushing the top of the filler neck through the rubber seal, so that you can see the filler neck through the fuel flap from the outside of the vehicle. DO NOT tighten the bracket onto the chassis yet. Connect and secure the filler neck to the 32 mm Fuel Hose (Item 13) from Step 3E & 4D using a 32-50 mm Hose Clamp (Item 20). Fasten the bracket on the filler neck to the chassis. Tighten the hose clamps.

Re-connect the original breather pipe to the filler neck using the original hose clamp. Re-attach the fuel flap cable to the breather pipe.



4 FIT AND CONNECT TANK CONT...

- (F)** Route the 1 000 mm long section of 12mm Fuel Hose (Item 7) connected to the filler neck in Step 3C, down the inside of the vehicle and over the wheel arch liner as shown.

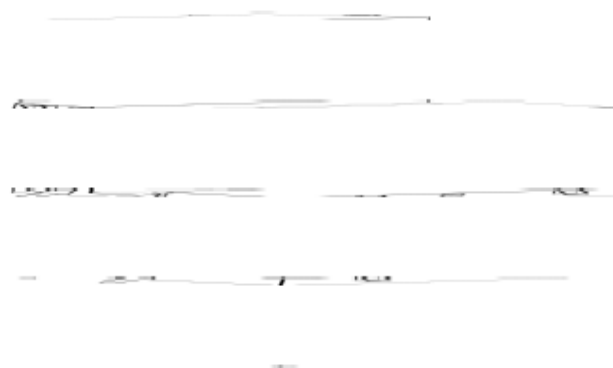


- (G)** Using the remaining Plastic T-piece and three 16-25 mm Hose Clamps (Item 19), connect the two 450 mm long - 12mm Fuel Hoses (Item 8) to the 12 mm Fuel Hose run from the filler neck in Step 4F as shown.

Cable tie the hoses to an existing hole on the chassis as illustrated.



- (H)** Using the two remaining 16-25 mm Hose Clamps (Item 19), secure the two 12 mm Hoses from Step 4G the breather ports on the Auxiliary Fuel Tank as indicated by the arrows.



4 FIT AND CONNECT TANK CONT...

- (I)** Using the two Cable Ties and the 40 mm long - 12mm Fuel Hose (Items 11 and 16) supplied, secure the Plastic Filler Hose to the chassis cross member as shown below.



- (J)** Check that all fasteners, hoses and fittings are tight and secure and refit the wheel arch liner.

- (K)** Congratulations, you have completed your installation. Take a step back and admire your work. Good Job!