ARB FRONTIERTANK

Part Number: **TAD107**

Product Description: **FRONTIER SERIES POLYMER FUEL TANK 135L**

Suited to vehicle/s: **PAJERO 2000 ON ALL DIESEL MODELS**

WARNING

NOTE THE FOLLOWING:

- This product must be installed exactly as per these instructions using only the hardware supplied.
- In the event of damage to any component, contact your nearest authorised ARB stockist. Repairs or modifications must not be attempted.
- Do not use this product for any vehicle make or model, other than those specified by ARB.
- This product is designed to carry diesel fuel only and is not suitable for use in petrol applications.
- When working with fuel, ensure correct work practices and suitable PPE in employed.
- Contain any spills and dispose of correctly.
- Do not remove labels from this product.
- This product or its fixing must not be modified in any way.
- The fuel gauge and distance to empty indicator may vary from factory condition.
- The installation of this product may require the use of specialized tools and/or techniques
- It is recommended that this product is only installed by trained personnel
- State regulations vary, please check with your local authorities regarding documentation of this installation.
- Biodiesel fuels do not conform to a mandatory code of practice regarding the chemical make-up of the fuel, therefore use of biodiesel is not recommended in this tank.
- These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer
- During installation, it is the duty of the installer to check correct operation/clearances of all components
- Work safely at all times
- Unless otherwise instructed, tighten fasteners to specified torque

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GENERAL CARE AND MAINTENANCE

By choosing a Frontier Series fuel tank, you have bought a product that is one of the most sought after 4WD products in the world. Your fuel tank is manufactured from a High Density Poly Ethylene (HDPE) product that has superior cross linking qualities. This cross linking polymer provides high impact resistance, high strength and rigidity and will not be effected by harsh chemicals and minerals. It is engineered to be a reliable high quality accessory that represents excellent value. To keep your fuel tank in original condition it is important to care and maintain it following these recommendations:

- It is recommended that following exposure to salt and or other contaminants, the fuel tank mounting straps, and fuel sender mounting area be thoroughly rinsed to prevent corrosion.
- As part of any Pre Trip Preparation, or on an annual basis, it is recommended that a thorough visual inspection of the vehicle is carried out, making sure that all bolts and other components are torqued to the correct specification. Also check that all wiring sheaths, fuel line connectors, and fittings are free of damage. Replace any components as necessary. This service can be performed by your local authorized ARB Stockist.

FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

BASIC TOOLS KIT	**HOSE CUTTERS**
VEHICLE HOIST OR HYDRAULIC JACK AND STANDS	**LIFTING EQUIPMENT SUITABLE FOR SUPPORTING FUEL TANKS**
FUEL SENDER REMOVAL TOOLS	**FUEL TRANSFER EQUIPMENT**
ANGLE GRINDER/HACKSAW	**EMERY PAPER/FILE**

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear 	**Hearing protection** 

NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

FASTENER TORQUE SETTINGS:

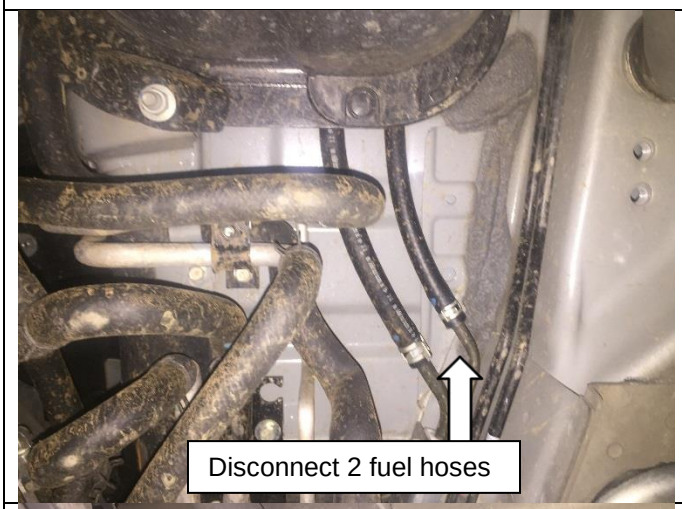
SIZE	Torque Nm	Torque lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

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PARTS LISTING-TAD107BK			
APPLICATION.	**PART NO.**	**QTY**	**DESCRIPTION**
FRONTIER SERIES FUEL TANK INSTALLATION	**TAD107**	**1**	**POLYMER FUEL TANK**
	BP80346	1	KIT INSULATOR TAD107
	BP80349	1	FLOAT ARM EXTENSION
	BP80054	2	#24 HOSE CLAMPS SUIT 35MM HOSE
	BP80351	2	JOINER FLOAT ARM TAD107
	BP80333	1	STRAP KIT PAJERO
	BP80228	3	RETAINER FUEL LINE
	BP80290	1	FUEL LINE
	BP80291	1	FUEL LINE
	BP80292	1	FUEL LINE
	BP80359	1	P6 3/8NPT X 3/8 HOSE BARB ELBOW
	BP80094	3	M5 X 12 SEMS PAN HEAD
	BP80095	1	P6 3/8NPT X ½ HOSE BARB ELBOW
	BP80055	2	#4 HOSE CLAMPS SUIT 1/4 " HOSE & 8MM HOSE
	BP80053	2	#10 HOSE CLAMPS SUIT 12MM HOSE
	BP80224	1	STICKER BUMPER ARB FRONTIER
	BP80160	1	GAUGE CAUTION STICKER
	BP80154	0.4	STRAP RUBBER 40MM
	BP80154	0.53	STRAP RUBBER 40MM
	BP80154	0.85	STRAP RUBBER 40MM
	BP80154	0.85	STRAP RUBBER 40MM
	3789672	1	INSTRUCTIONS

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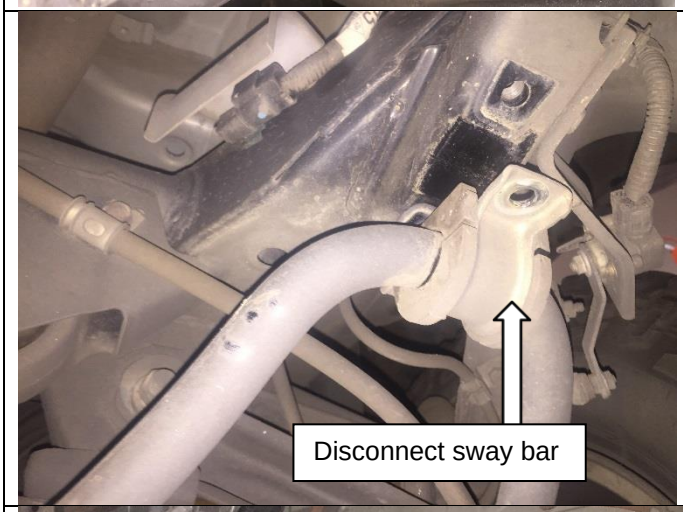
REMOVAL OF ORIGINAL FUEL TANK



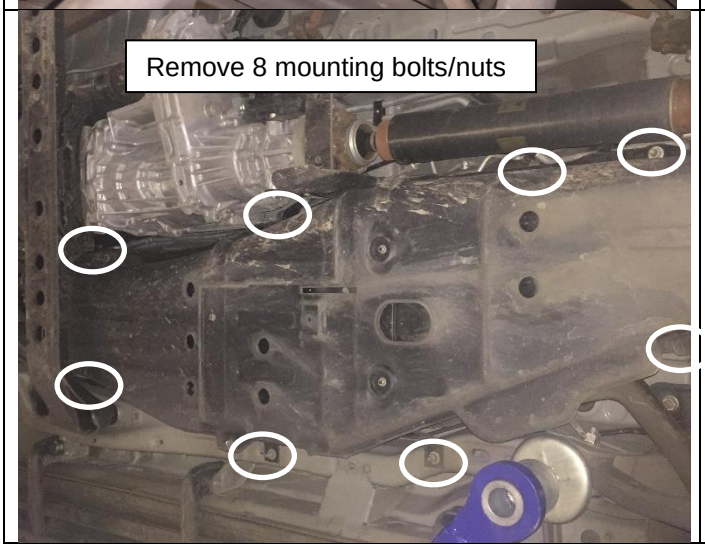
Disconnect the 2 fuel hoses from the steel fuel lines at the front of the fuel tank. Retain clamps for installation procedure.



Disconnect the fuel filler hose from the steel filler neck. Retain the hose clamp for the installation process.



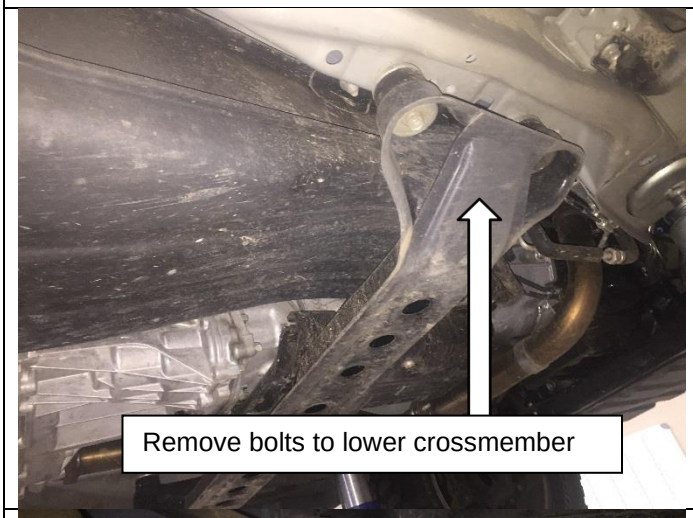
Disconnect the 2 sway bar “D” brackets from the vehicles body and allow the sway bar to swing down.



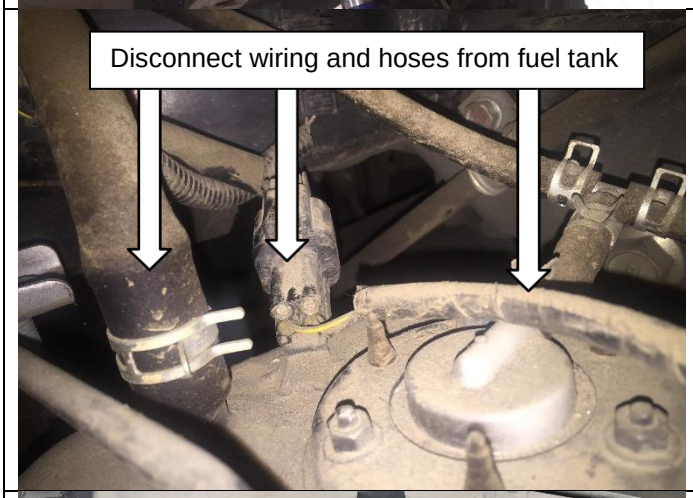
Support the tank with a jack. Remove the 6 nuts and 2 bolts from around the outer lip of the tank. Retain the fasteners for the installation procedure.

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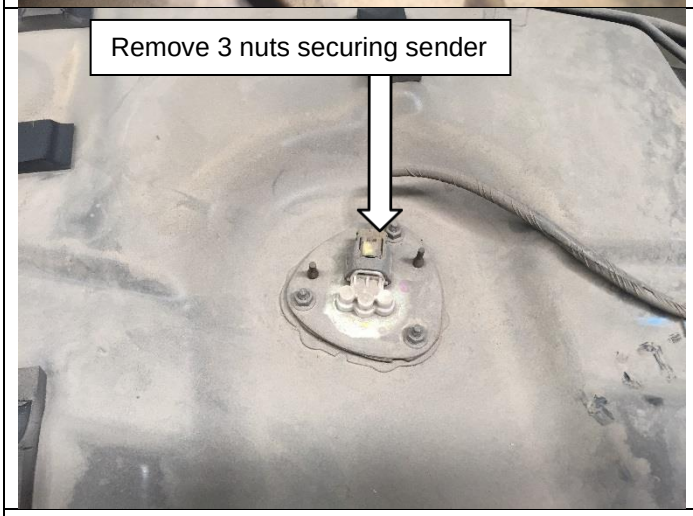
REMOVAL OF ORIGINAL FUEL TANK



Depending on the vehicle model and transmission fitted, it may be necessary to support the rear crossmember with a jack, remove the 4 bolts securing the rear crossmember and lower the crossmember to gain access to one of the inner tank mounting bolts.



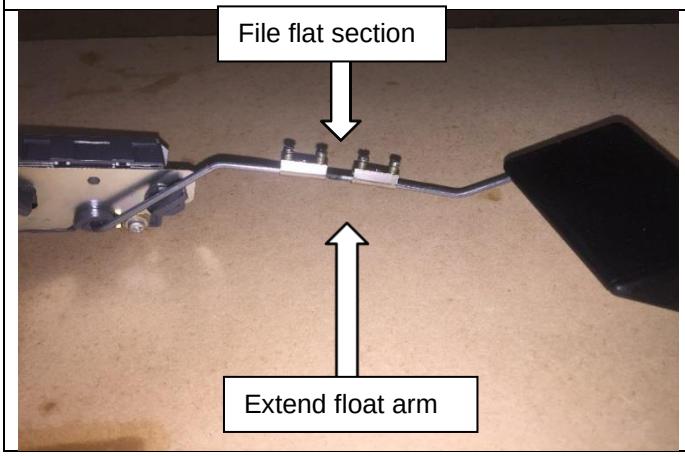
Whilst lowering fuel tank, disconnect the wiring harness from the top of the fuel tank. Also disconnect the 16mm breather hose and 6mm rollover hose from the tank.



Remove 3 nuts securing sender and remove sender from tank.

Remove fuel sender extension harness and retain for the installation procedure.

INSTALLATION PROCEDURE



File a 25mm long flat section on the sender arm in the position shown.

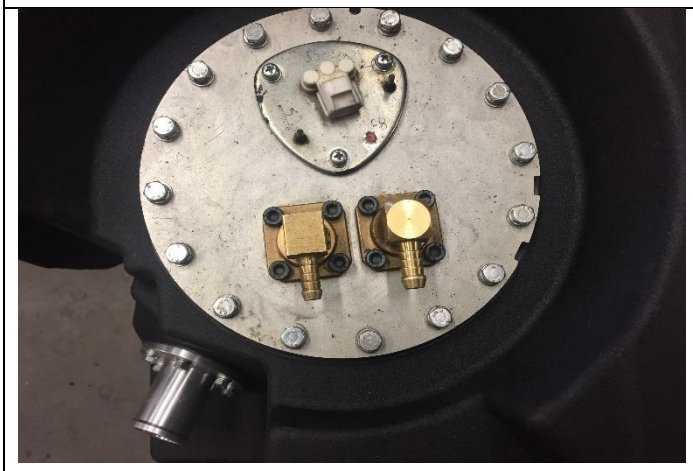
Cut the float arm midway along the flat section.

Install 20mm wire extension between the 2 cut ends of the sender arm and secure using 2 clamps supplied.

Position screws in clamps onto the flat section in the float arm so that original orientation of the float is maintained.

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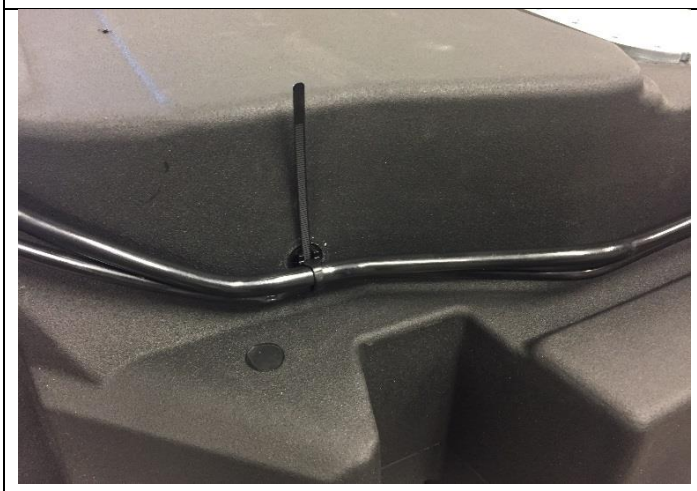
INSTALLATION PROCEDURE



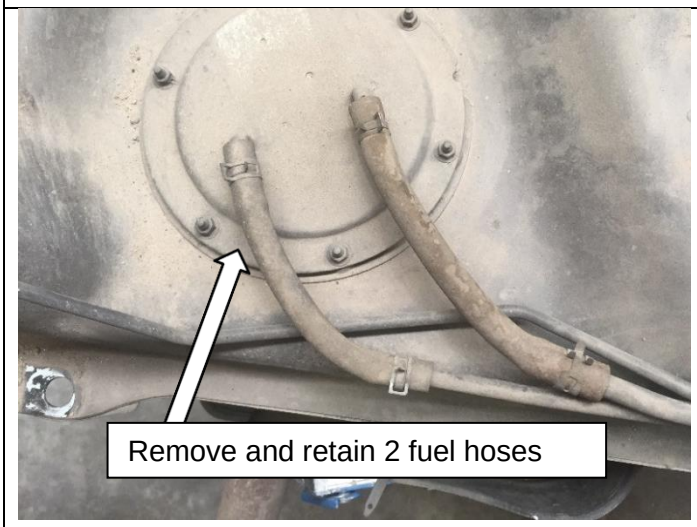
It may be necessary to change the brass outlets on the Frontier tank to suit the model of vehicle being fitted.

Identify the correct sizes according to the fuel sender and fuel lines on the vehicle being fitted, if necessary, install a new size fitting from the installation kit to suit.

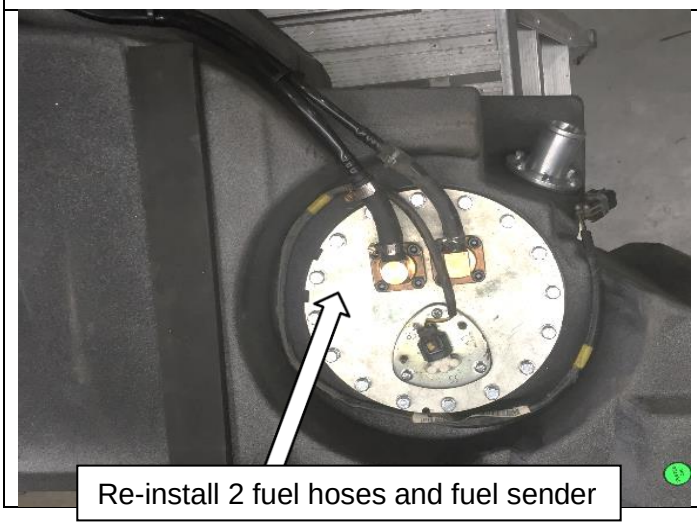
Apply a small amount of thread sealer to the brass fitting prior to installation.



There are 3 fuel lines in the TAD107 kit. Select the 2 correct diameter fuel lines for the model of vehicle being installed. Position these 2 fuel lines on the side of the tank and secure to the 3 M8 threads on the side of the tank with the fuel line retaining clamps supplied.



Remove the 2 fuel hoses from the fuel pick up on the original tank. Retain the hoses and clamps for the installation procedure.



Shorten the 2 fuel hoses retained from the previous step and secure them to the fuel pick up and return on the tank as shown. Make the hoses as short as possible so that the fuel lines do not protrude above the top of the fuel tank. Secure using new clamps supplied in the kit.

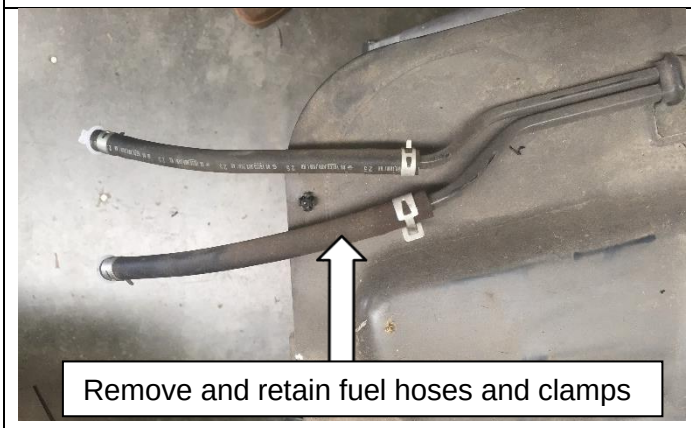
Re-install fuel sender into new fuel tank. Ensure that float arm is positioned so that it does not foul on the swirl pot inside the fuel tank.

Secure the sender using the 3 M5 x 12 screws supplied in the kit.

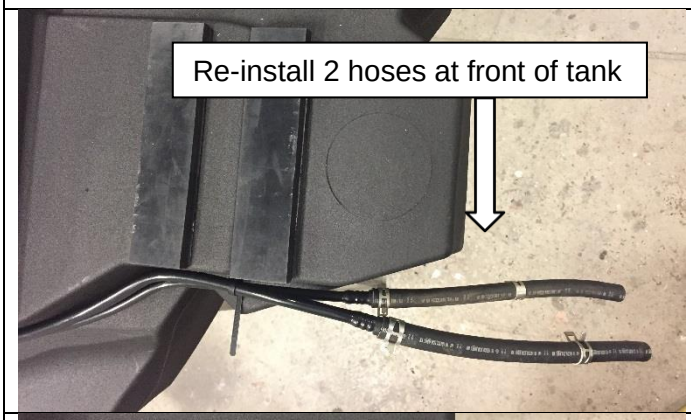
Re-install fuel sender extension harness.

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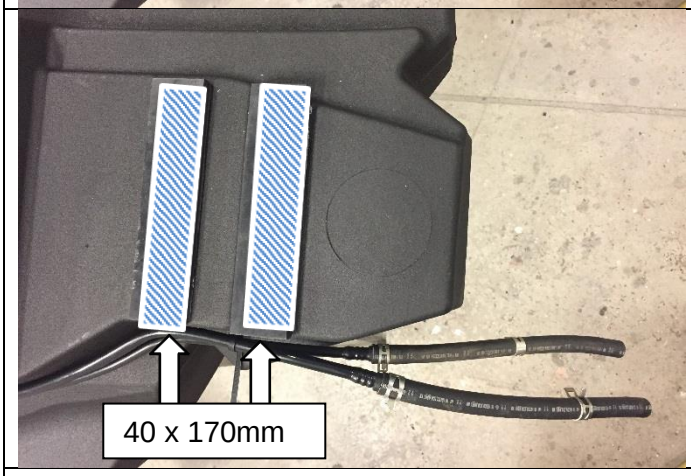
INSTALLATION PROCEDURE



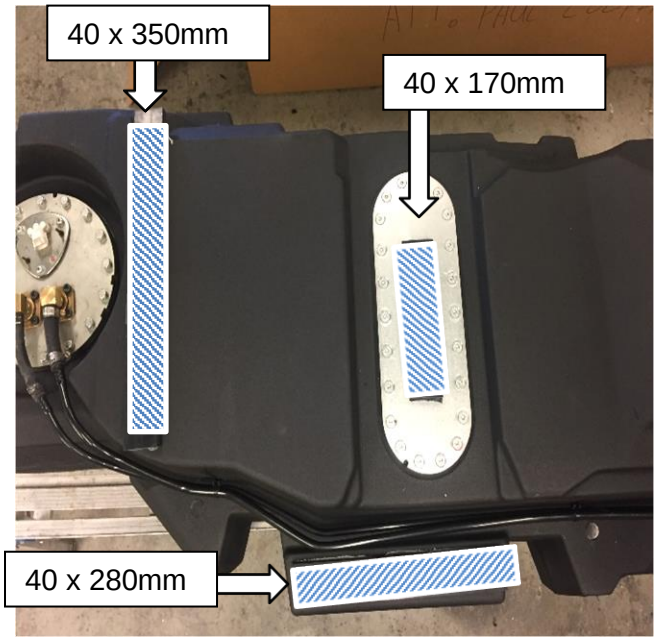
Remove the 2 fuel hoses from the front of the fuel tank and retain hoses and clamps.



Re-install the 2 fuel hoses and clamps removed in the previous step onto the new fuel lines at the front of the fuel tank.



Remove the white protective backing from the 2 x 170mm long rubber insulators and install onto the top of the fuel tank in the location shown.



Remove the white protective backing from the 3 remaining rubber insulators and install into the location shown.

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INSTALLATION PROCEDURE



Hint, loosen the front crossmember bolts to lower the crossmember slightly. This will allow for easier installation of the fuel tank.

Using a jack, raise the fuel tank into the vehicle. Slide the front of the tank over the top of the crossmember and ensure that the fuel lines pass through freely and do not become snagged.



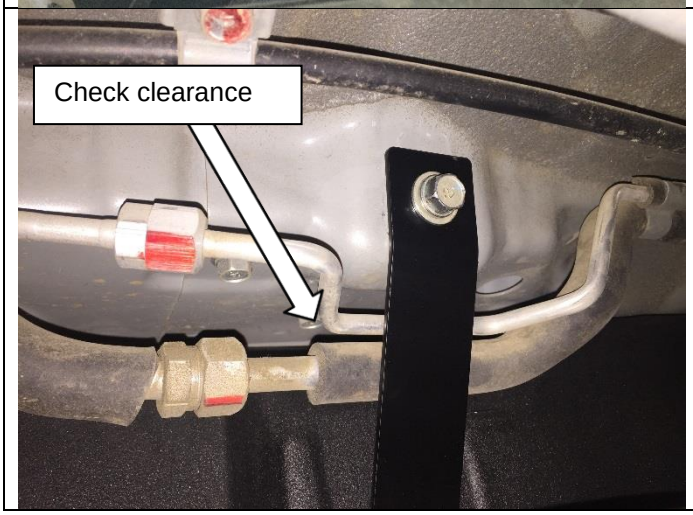
Whilst raising the tank into position, reconnect the 16mm filler breather hose and 6mm rollover hose. Secure hoses using original clamps retained in the removal process.

Reconnect fuel sender wiring.



After connecting hoses and wiring, raise the tank into its correct position. Loosely install both the front and rear straps to correctly orientate the tank.

Ensure that the fuel lines are positioned between the chassis rail and the tank and are not pinched between the tank and the body.



Then install the 2 x centre straps in the tailshaft tunnel first and tighten this bolt.

Ensure that the air conditioning pipes have clearance from the tank strap.

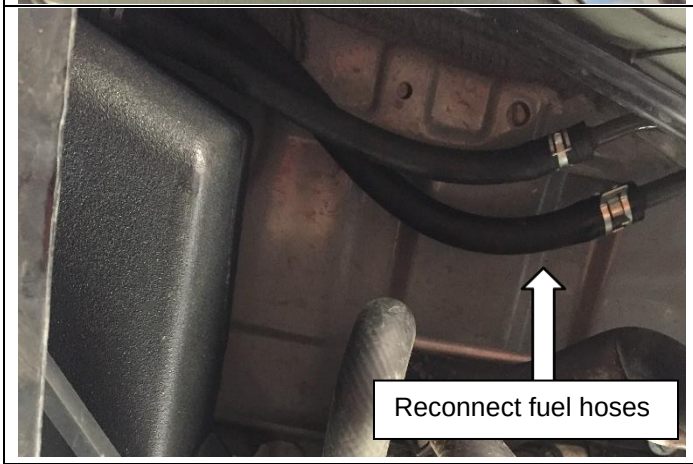
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INSTALLATION PROCEDURE



Align and install the two centre straps over the mounting studs on the chasis rail.

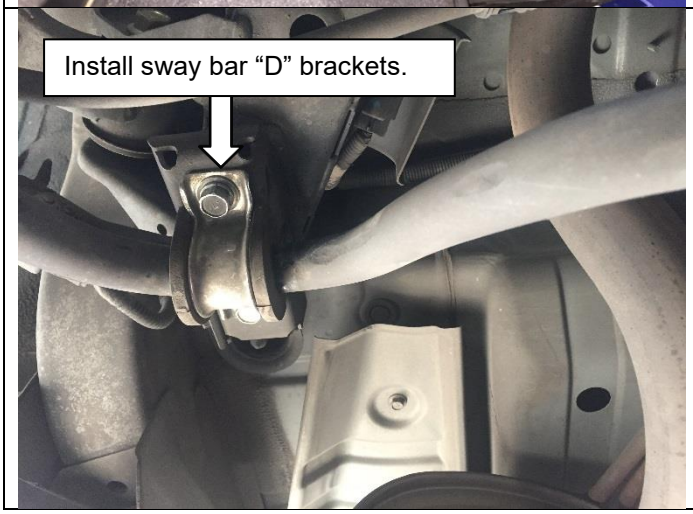
Tighten all 6 nuts retaining the straps at this stage.



Reconnect 2 fuel hoses at front of tank. Secure using clamps retained in removal procedure.



Cut a 170mm long straight section of hose from the fuel filler hose. Install the hose between the steel fuel filler neck and the tank inlet and secure using 2 new hose clamps supplied in the kit.



Re install sway bar “D” brackets using bolts retained in the removal procedure.

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INSTALLATION PROCEDURE



Add fuel to vehicle and run engine to check for leaks. Check fuel sender for correct operation.

Note, it may take several minutes or several cycles of the ignition for the gauge to show a true reading if the new fuel level is less than the previous level. It is possible it will still show the fuel level that was present before removing the original tank. This is normal operation as the fuel gauge is controlled by the vehicle's body control module.

Install Gauge Caution Sticker to RH upper side on the inside of the vehicles windscreen.

FITTED PRODUCT



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