

piranha
OFF ROAD PRODUCTS

FITTING GUIDE

Ph: 03 9762 1200 - Em: sales@piranhaoffroad.com.au

Part Number	BTFR-E22
To Suit Vehicle	Ford Ranger Next Gen 22 on 2Lt & 3Lt Diesel - Not Raptor
Approx. Fitting Time	2 Hours
Max Battery Size	305mm Non AGM Max 23KG
Recommended Isolator	DBDC1230S
Tray Location	Engine Bay, Driver Side, Mid

WARNING! - This is a guide only. Piranha Off Road Products accepts no responsibility for damaged caused during installation.

SELF FIT: Suitable for self fit, but some steps would be easier with assistance.

Install Notes:

DCDC mount bracket included is pre-drilled with holes for our DBDC1230D & also any of the Redarc under bonnet BCDC range.



3). Check earth wire is sitting in the groove of the perimeter beam, refit original bolt and tighten. Tighten three coolant expansion mounting bolts if they were loosened previously.

Part's List

1	BTFR-E22 Main Tray	2	M6 Body Washer (P115)
1	BTFR-E22 Support Arm & Nut Plate	2	M5 x 8mm pan head (FF23669P)
1	BTFR-E22 DCDC Mount	2	M6 wingnut (P108)
1	Standard Top Mount	2	Standard J bolt (P109)
2	2 x M5 wizlock nut (FF21831P)	1	1 x M6 x 30mm bolt (P159)
6	M8 x 25mm bolt (P145)		

1). Remove R/H/F mudflap, wheel arch guard liner, windscreen washer bottle filler neck, bolt on perimeter beam adjacent to coolant expansion tank, bolt securing earth wire next to filler neck, bolt on top of perimeter beam (securing radiator support panel), air filter housing mounting bolt and lift air filter housing pins out of locating gromets (air filter lid, intake hoses and sensor wiring also need to be undone). (Refer Pic. 1)

TIP: Three bolts mounting coolant expansion tank may need to be loosened or removed to allow expansion tank to be moved to get adjacent bolt out (Blue Squares).

2). Lower tray into position, with the back plate of the tray between the air filter housing arm and the perimeter beam. Loosely fit new M8 x 25mm bolt adjacent to coolant expansion tank, new M6 x 30mm bolt through the back plate of the tray into existing captive thread. Maneuver the air filter housing into place, reseating the locating pins into the gromets and refit original bolt. **Note:** This step is more difficult if a snorkel is fitted, as the snorkel entry hose restricts movement of the air filter housing. (Refer Pic. 2)

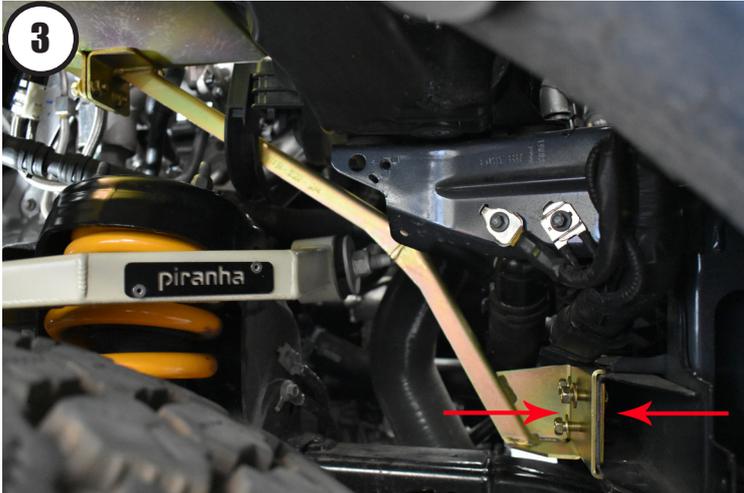


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4). From under wheel arch, maneuver support arm up into position. It sits engine side of plastic arm off air filter housing. Slip backing nut plate into body crossmember box section and loosely fit all five M8 x 25 bolts. Ensure backing plate shim is located correctly (Refer Pic. 3)

TIP: Push tray up and slide top of arm under edge of tray, then push bottom along body crossmember, pulling top of the arm towards and bottom away until it is in place.

5). Fully tighten the three bolts along the back plate of the tray, which were loosely fitted at step 2). Fully tighten the five support arm bolts.

6). Refit wheel arch guard liner and mudflap. Refit air filter housing, lid, intake hoses and any wiring as removed in step 1).



7). Insert battery hold down 'J' bolts into tray, place battery in tray, fit top mount, washers and wing-nuts.

TIP: Use electrical or masking tape to hold J bolts in place against the side of the tray. Battery terminal posts are best located to the rear. (Refer Pic. 4)

8). Trim away hose holding tab on the underside of the washer bottle filler neck and refit with original bolts.

Note: Trimming the tab off is not completely necessary, depending on battery casing height, but if the tab rests on the battery, it pushes the filler neck up to sit higher than it originally did. (Refer Pic. 5)

9). Fit DC/DC to mounting plate (fixings not supplied), fit plate to tray with 2 x M5 x 8mm pan head screws from the front and wizlock nuts next to the filler neck. Re-fit and tighten original bolt into radiator support panel on perimeter beam. (Refer Pic.6)



Please Note: It is the installers responsibility to check all items have adequate clearance and are secured/protected against vibration, rubbing & chaffing.

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