

# ROADSAFE

FOR THE ROAD AHEAD

# FITTING INSTRUCTIONS

**VEHICLE** Ford Ranger/ Volkswagen Amarok 2023+

**PRODUCT** Dual Battery Tray

**PRODUCT CODE** BT108

**NOTE** Suggested fitment of dual battery set up to be completed by a suitably qualified automotive trade professional. ALL earthing points are required to be installed at all times. And where rerouted must be correctly earthed (Surface Clean/ Un painted etc)

## Hardware Supplied:

- 1x Ranger Nut Plate
- 2x M8 x1.25P x 45 mm Flanged Bolt
- 13x M8 x1.25P x 25 mm Flanged Bolt
- 17x M8 Flat Washer
- 13x M8 Nut
- 1x M6 Flat Washer
- 1x M6 Nut
- 2x M8x175LG Battery Clamp Hook Rod
- 4x M8 Cross Rivet Nut
- 1x Battery Tray
- 1x Firewall Mount
- 1x Front Tray Arm 01
- 1x Front Tray Arm 4CYL
- 1x Front Tray Arm 6CYL
- 1x Battery Tray Support Bracket
- 2x Battery Tray Crush Tube

## Tools required:

- Spanners
- Ratchets and Sockets
- Associated Basic Hand Tools

1. Remove the 2x 10mm head bolts on washer bottle filler neck and remove. See Fig. 1



2. Assemble front tray battery arm by piecing both pieces together and using the crush washers and 45mm flanged bolts and nuts. 4Cyl Bracket suits both engine configurations. BT108-J24 AF Batch Code battery trays will be supplied with both brackets. See Fig. 2 & Fig. 3



3. Remove the left and right-hand side upper bolts on right hand side of coolant expansion tank. See Fig. 4, Fig. 1 & Fig. 2



4. Remove plastic mounting clip on factory stud (Located on the firewall) as this becomes a mounting location for the upper bracket. See Fig. 4 & Fig. 3



5. Remove the bolt and firewall earthing strap bolt. 8mm head and upper earthing strap. (Next to right hand side bolt of coolant expansion tank). See Fig. 5 & Fig. 1



6. Remove upper grill panel scrivets with required tooling (screwdriver/trim tool) and place aside.



7. Remove plastic triangular blanking gromet underneath upper grill panel and dispose of. As this now becomes a mounting point for the battery tray. See Fig. 6

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**8.** Place the first bracket of the battery tray (Firewall mounting piece) between the plastic of the scuttle panel and the steel of the body panel and align bolts in holes.

Re-use factory hardware for RHS mount of expansion tank and use supplied M6 washer and nut to replace the factory clip that was removed. Loosely fit this bracket. Orientation pictured in instruction photo.

See Fig. 7



Fig. 7

**9.** Insert 2 M8 cross rivet nuts into holes shown in chassis extrusion and use sacrificial nut and bolt to hand flare them. This can be done by pinning the locking nut to the face of the cross rivet nut and tightening the bolt down to flare the cross rivet nut.

See Fig. 7



Fig. 8

Fig. 9

**10.** Insert cross rivet nut onto battery tray support bracket (rectangular metal piece) and secure cross rivet nut. Place into tubing of the radiator support as this is used to fasten the front mounting arm piece of the battery tray.

See Fig. 8



Fig. 10

Fig. 5

**11.** On 4cyl models remove clip shown in Fig. 9 and loosen hose clamp slightly to create room for the battery tray support bracket. Once the battery tray mount is in place, re-tighten hose clamp and re-attach clip.

See Fig. 9 & Fig. 10

**12.** Remove 13mm head bolt on the rail next to the coolant expansion tank as pictured. Place aside as this will be re installed as part of the installation of the battery tray.

See Fig. 5 & Fig. 2

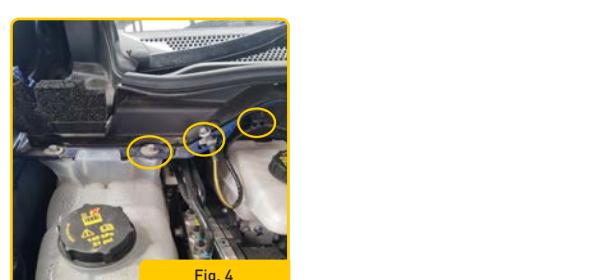


Fig. 4

**13.** Remove the factory earth strap on bus bar as the battery tray is required to slide around behind this strap and remove factory fir-clip and mounting tab as this is no longer required.

See Fig. 4

**14.** With all pieces removed, slide the battery tray from its lower corner first into vehicle and place behind removed earthing strap and wiring harness. Slide 13mm head bolt back between expansion tank and mounting bracket and finger tighten. Reattach the earthing wire removed in step 12.

See Fig. 7

**15.** Place bolts in the M8 crossnuts on chassis rail and finger tighten.

See Fig. 7

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**16.** Place all bolts used to connect the battery tray to the mounts with the bolts facing out so no rubbing from the bolts onto the battery can occur.

Amarok Only, Piping may require manipulation to clear battery tray.

See Fig. 7



**17.** Once all the bolts are in position and are all finger tight, tighten all bolts.

Make sure to support the battery tray whilst doing it up to prevent interference with the intake pipe

**18.** Re-install front upper grille panel.

**19.** Re-install washer bottle filler neck. The underside of the washer bottle support may have to be trimmed to have a flush fit.

**20.** Recheck all bolts that were loosened/ removed are tight, and that all earths are connected.

**21.** Installation is complete.