

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 qualified 12V automotive technician. ALL earthing points are required to be installed at all times. And where rerouted must be correctly earthed (Surface Clean/ Un painted etc)

Hardware list:

- 1 x Ranger Nut Plate
- 2 x M8x1.25Px45 mm Flanged Bolt
- 13 x M8x1.25Px25 mm Flanged Bolt
- 17 x M8 Flat Washer
- 13 x M8 Nut
- 1 x M6 Flat Washer
- 1 x M6 Nut
- 2 x M8x175LG Battery Clamp Hook Rod
- 4 x M8 Cross Nut

Hardware list:

- 1 x Battery Tray
- 1 x Firewall Mount
- 1 x Front Tray Arm 01
- 1 x Front Tray Arm 02
- 1 x Battery Tray Support Bracket
- 2 x Battery Tray Crush Tube

Tools required:

- Spanners
- Ratchets and Sockets
- Associated Basic Hand Tools

1. Remove 2 10mm head bolts for washer bottle filler neck.
See figure 1.

2. Remove filler neck and place aside.
See figure 1 and 3.

3. Remove left and right hand side upper bolts on right hand side of coolant expansion tank bolt and firewall earthing strap bolt. 8mm head and upper earthing strap (Next to right hand side bolt of coolant expansion tank) also 8mm head, remove plastic mounting clip on factory stud (Located on firewall) as this becomes a mounting location for the upper bracket. This can be discarded
See figure 2.

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

5. Remove plastic triangular blanking gromet underneath upper grill panel and dispose of. As this now becomes a mounting point for the battery tray.
See figure 8.

6. Place 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 fit. Loosely fit this bracket. Orientation pictured in instruction photo below.
See figure 3 and 8.

7. Insert 2 crossnuts 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 crossnuts and tightening the bolt down in order to flare the crossnut.
See figure 7.

8. Insert crossnut onto crossnut mount (Pictured below) and place into tubing of chassis as pictured below this is used to fasten the front mounting piece of the battery tray. The bolt hole on the bottom left is for mounting this mount.

9. 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 figure 4 and 7.

10. Remove factory earth strap on bus bar as the battery tray is required to slide around behind this strap and remove factory for fur clip and mounting tab as this is no longer required.
See figure 3.

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11. Pre-assemble the 2 mounting pieces that attach from the front radiator support to the bottom of the battery tray with supplied crush tubes and bolts as shown below.

See figure 8.

12. With ll pieces removed slide batter tray from lower corner first into vehicle and place behind removed earth stray and wiring harness. Slide 13mm head bolt back between expansion tank and mounting bracket and finger tighten

See figure 7.

13. Place bolts in crossnuts on chassis rail and finger tighten.

See figure 7.

14. Place bolts through batter tray head side through tray on both the upper mount and lower mount. Finger tighten all.

15. Tighten bots once all bolts in position finger tight.

16. Installation complete.

