

VEHICLE Ford Ranger PX, PXII & PXIII 2011- onwards &
Mazda BT50 2011 - 2019 Dual Cabs ONLY

PRODUCT Battery Tray

PRODUCT CODE BT104-BLACK

1. Remove rear seat assembly. Undo 4 x T50 Torx bolts at either side of back rest. Undo 1 x T50 Torx bolt holding centre buckle and feed up through seat.

2. Remove jack and tool kit from holders.

3. Remove interior clips and carpet from rear wall.
Note: Not completely; just need access to rear wall as per figure 4.

4. Identify and mark 6 x spot welds on tool holder bracket (figure 2) and 6 x spot welds on jack holder bracket. See figure 1.

5. Using a spot weld removal tool (figure 3), drill 12 spot welds and gently pry off brackets. Ensure care is taken to only drill through bracket and not second layer of sheet metal.

6. Grind any sharp edges and seal any holes.

7. Place the tray in position and use as a template to trim the carpet. Mark 6 x holes to the rear wall and 3 x holes to the floor of the vehicle.

8. Remove tray and drill 9 x 10mm holes.
Note: Ensure you only drill through the rear wall and not into the tub/tray.

9. Remove tray and paint any unsealed surfaces.
See figure 4.

10. Refit tray and use 3 x M8 bolts to secure the tray to the floor. Whilst under the vehicle, remove the muffler heat shield to reveal bolts, thread on nuts with panel washers and lightly tighten.

11. The rear six bolts use the paired, welded backing plates to secure the Tray to the rear wall. To align these, feed around 3m of thin electrical cable (3mm or smaller) through the top hole, starting with the hole closest to the driver's side pillar. Using a hooked rod, retrieve the cable and feed through the top nut, tying a knot once through so the wire cannot pull back through.
See figure 5.



Figure 1 - Jack Holder



Figure 2 - Tool Holder



Figure 3 - Spot Weld Removal Tool

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12. Pull cable back through into the vehicle until the plate is firm against the back wall. Using a pick or screwdriver, pivot the bottom hole so it aligns with the hole in the tray and thread in M8 bolt until firm.
Note: Do not fully tighten.

13. Pull cable back through, install top bolt and repeat for passenger side plate.

14. Repeat for centre holes, bolting through the battery hold down clamp. See figure 6.

15. Once all bolts are installed, fully tighten to spec.

16. Fit battery to Tray. Roadsafe recommends the REMCO RM12-150FT, available from Federal Batteries. 100Ah or 150Ah slimline batteries up to 110 x 290 x 560mm will fit. You may need to remove lower battery clamp bolt and pivot bracket to fit larger batteries. Battery terminals should be facing the centre of the vehicle.

17. Install the battery clamp and bolt to the tray using supplied M10 bolts and washers. If using a smaller battery, install the 125mm-long M10 bolt with crush tube to stop the battery sliding around.

18. Reinstall seats, ensuring seatbelt electrical connection is correctly installed and all bolts are tightened to spec.

19. Depending on the size of battery installed, extra force may be required to lock back rest into place.



Figure 4 - Painted unsealed surfaces



Figure 5 - Backing Plate



Figure 6 - Battery Installed



Figure 7 - Completed Install