

piranha
OFF ROAD PRODUCTS

FITTING GUIDE

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

Part Number	BT300
To Suit Vehicle	Toyota LandCruiser 300 2022 on
Approx. Fitting Time	1.5 Hours
Max Battery Size	305mm - Non AGM
Recommended Isolator	DBDC1230S
Tray Location	Engine Bay - PSR

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.

Special Tools Required: P3 Phillips Screwdriver

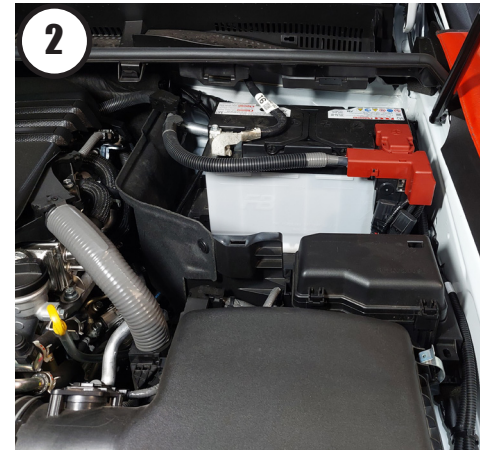
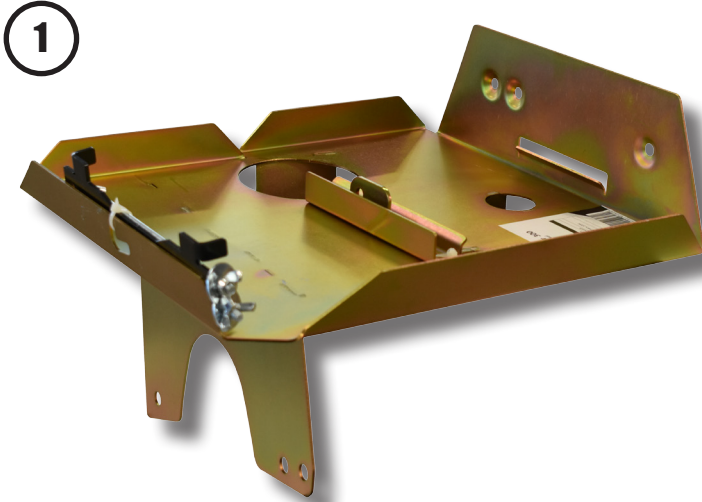
Install Notes:

Original Din style cranking battery turns through 90deg. and goes against inner guard. A future replacement cranking battery will need to be a similar DIN77 type with moulded 'foot' mountings. The auxiliary cycle duty flooded battery fits alongside (closest to the engine) under existing battery cover.

Part's List

1	BTD300 Tray	2	M6 body washer (P115)
1	Battery hold down foot clamp (part of -TRAY)	2	M6 wingnut (P108)
1	Special J bolt (P109 short tip)	3	M8 x 20mm counter sunk machine screw (P167)
1	Standard J bolt (P109)	2	M6 x 30mm bolt (P159)
2	M8 x 25 bolt (P145)	1	M6 x 16mm bolt (P144)

Tip: Vehicle under bonnet temperatures are high, best if car has had a chance to sufficiently cool down before work commences.



1). Unclip battery cover, remove the following items: Red plastic cover over positive battery terminal (including the plastic base the cover clips to) and positive lead off terminal that crosses the front of the battery (Refer Pic.2), battery foot clamp at Drivers Side front corner, remove battery, plastic battery sub tray, fibre heat shield beside engine.

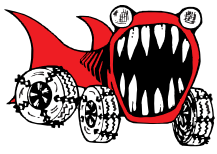
Note: The heatsheild is fastened with a 10mm headed bolt and scrivet on the engine side of the inner guard. It is easier to remove these when reaching around from inside the wheelarch. To access these fasteners, remove plastic mud shield at rear side of wheelarch opening (Refer Pics. 3 and 4)

Tip: The fibre heat shield is fragile and does not like being bent too much. To remove the plastic shield that it clips to, slide thin flat screwdriver down to release bottom tab while pulling up.

2). Now remove the steel battery platform support tray and vertical tray support brace off inner guard. (Refer Pic. 5)

Note: Retain 3 x original M8 bolts with large flanged heads for reuse later.





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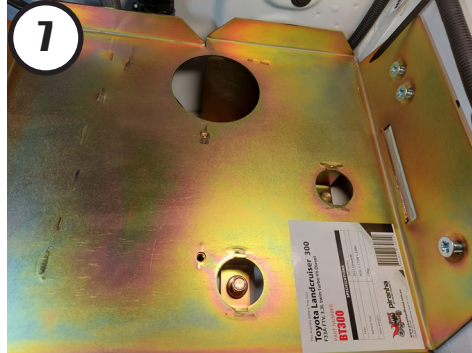
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3). Undo the bolt on wheelarch (near firewall) securing earth wire. Straighten or cut off locating tag on earth wire, to allow it to bolt back down over tray support bracket. (Refer Pic. 6)

Tip: If any wiring needs to go into the Cabin, the large wiring gromet is easily accessible before the tray goes in – **NOT** possible once tray is in place.

4). Locate BT300 tray in place and loosely fit 3 x M8 x 20mm countersunk machine screws to inner guard, 3 x original M8 large flanged bolts on blade below tray and 2 x M8 x 25mm bolts into captive nuts through access holes in floor of tray. Fit new M6 bolt through large rear hole in tray floor to secure earth wire. (Refer Pic. 7)

Note: If accessory wiring harness is present along inner guard (related to factory bulbar lighting) the two securing clips will need to be removed. Wiring can run along edge ledge of cranking battery when it is reinstalled, as at step 5. (Refer Pic. 8)



5). Once all fixings are started in their threads, tighten fully.

6). Place original cranking battery into the tray, but not fully in position. Fit earth cable terminal with tag facing forwards and tighten (refer Pic. 8). Move battery into position with 'foot' on the side of the battery case wedged into place, and pushed back towards the firewall as far as it will go. (Refer Pic. 8)

TIP: Plastic scuttle panel unclips, to greatly improve access to negative terminal. (Refer Pic. 8)

7). Fit battery hold down foot clamp with ramp to clamp original cranking battery.

8). Re-fit fibre heat shield and associated plastic shield and wheelarch mud shield (if removed previously).

9). Fit new earth cable and terminal (not supplied) to auxiliary battery, before fitting battery into tray. Place battery into the tray, but not fully in position. Bolt earth cable to firewall where cranking battery is earthed.

Move auxiliary battery into place and fit J bolt with short end between batteries. Fit the other J bolt & top mount and tighten. (Refer Pic. 8) Re-fit positive terminal to cranking battery.

Note: Terminal cover needs modification, as terminal turns 90deg. to fit under cover. (Refer Pic. 9)

10). Complete any additional positive battery terminal connections.

11). Re-fit original battery cover.



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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