

THE POWER OF

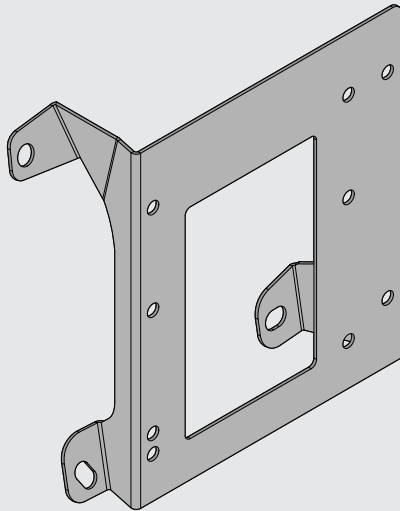
REDARC[®]

BCDCMB-101

Mounting Bracket for Selected
REDARC BCDC Battery Chargers.

SUITABLE FOR TOYOTA LANDCRUISER 200 SERIES

[11/2008-03/2022]



BCDC Alpha Mounting Bracket

Suitable for TOYOTA LandCruiser 200 Series

[11/2008–03/2022]

The REDARC **BCDCMB-101** Mounting Bracket is designed to install your BCDC Classic/BCDC Alpha Battery Charger* close to an auxiliary battery mounted in the engine bay. Do not use if the battery is located elsewhere.

For maximum performance, mount your BCDC Classic/BCDC Alpha in the cool airflow at the front of your vehicle, away from high temperature areas.

The BCDC Alpha Mounting Bracket is constructed from durable stainless steel and has been designed to fit existing mounting points in your vehicle for ease of installation.

***NOTE:** The BCDC Alpha Mounting Brackets are only for engine bay designed Battery Chargers. DO NOT use the Mounting Bracket to install a BCDC Core Battery Charger (BCDCN1225, BCDCN1240).

WARNINGS AND SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS — this manual contains important safety instructions. Do not install the BCDC Alpha Mounting Bracket unless you have read and understood this manual.

REDARC recommends to review your vehicle to ensure this kit suits your vehicle's make and specifications.

REDARC recommends that the BCDC Alpha Mounting Brackets be installed by a suitably qualified person. It is the installers responsibility to ensure their installation complies with any applicable legal and regulatory requirements.

Disclaimer: REDARC accepts no liability for any injury, loss or property damage which may occur from the improper or unsafe installation or use of its products.

SAFETY MESSAGE CONVENTIONS

Safety messages in this manual include a signal word to indicate the level of the hazard as follows:

⚠ WARNING

Indicates a potentially hazardous situation which could result in death or serious injury to the operator or to bystanders.

⚠ CAUTION

Indicates a potentially hazardous situation which may result in moderate or minor injury to the operator or to bystanders.

NOTICE

Indicates a situation that may cause equipment damage.

⚠ WARNING

- Do not operate around the engine bay with the engine operating. Ensure the vehicle is OFF before mounting Battery Charger assembly.

⚠ CAUTION

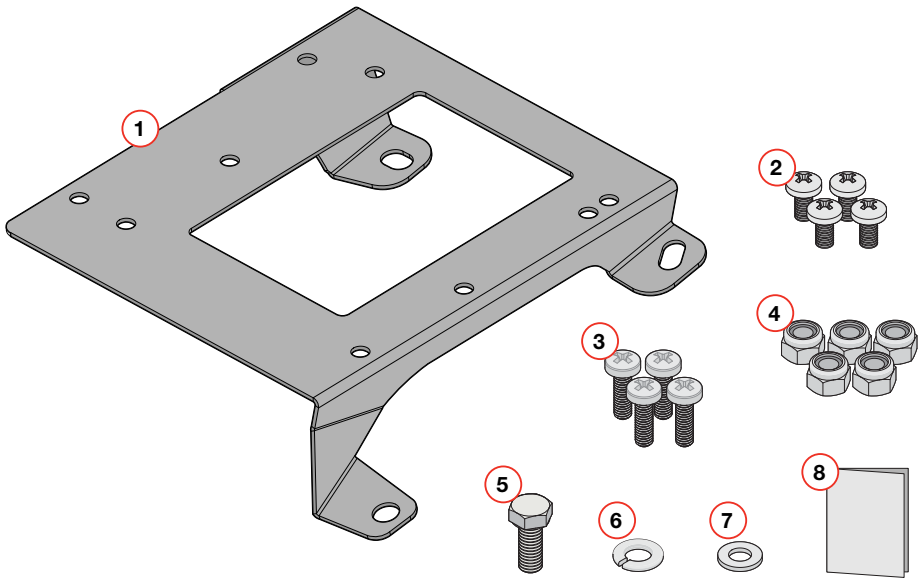
- Use Personal Protective Equipment (PPE). Wear appropriate clothing as well as eye protection when operating power tools.
- Take care when working in and around engine bay to avoid punch points, sharp edges and hot surfaces.



NOTICE

- Removing existing vehicle fixings may expose bare metal, resulting in rust. Retouch any exposed metal with rust inhibitor if it is not an earth connection.
- Damage to cabling can cause failure of the Battery Charger and vehicle electrical systems. Ensure wiring is clear of sharp edges and moving parts.

BCDC ALPHA MOUNTING BRACKET PARTS



1. Mounting Bracket
Supplied with 1 bracket.

2. M6 x 12mm Pan Head Bolt
Supplied with 4 bolts.

3. M6 x 20mm Pan Head Bolt
Supplied with 4 bolts.

4. M6 Nyloc Locking Nut
Supplied with 5 nuts.

5. M6 x 20mm Hex Head Bolt
Supplied with 1 bolt.

6. M6 Spring Washer
Supplied with 1 washer.

7. M6 Flat Washer
Supplied with 1 washer.

8. Installation Template

RECOMMENDED TOOLS

The tools listed below are typically sufficient to complete the installation, however, some specific models may require more specialised tools.

- Metric Socket set (at least 10mm and 12mm socket) with extension bars.
- Metric Spanner 10mm, 12mm and 13mm.
- Medium (#3) Phillips-Head Screwdriver.

ASSEMBLY

ASSEMBLING BATTERY CHARGER TO BRACKET

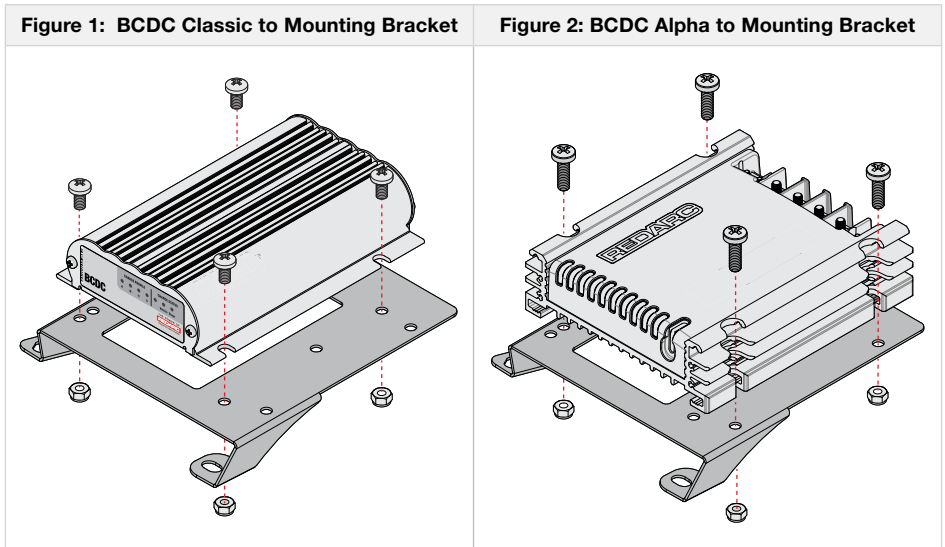
The BCDC Alpha Mounting Bracket must be fitted to the Battery Charger before mounting to the vehicle. Do not install the BCDC Alpha Mounting Bracket to the vehicle first.

BCDC Classic Battery Charger

If mounting a BCDC Classic Battery Charger, use the supplied M6 × 12 mm Pan Head Bolts and M6 Nyloc Locking Nuts to secure the Battery Charger to the Mounting Bracket (see [Figure 1](#)).

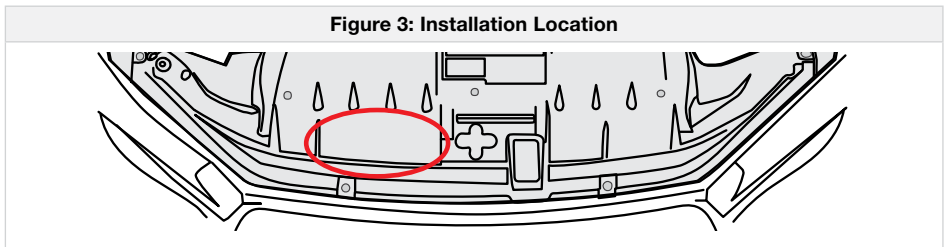
BCDC Alpha Battery Charger

If mounting a BCDC Alpha Battery Charger, use the supplied M6 × 20 mm Pan Head Bolts and M6 Nyloc Locking Nuts to secure the Battery Charger to the Mounting Bracket (see [Figure 2](#)).



LOCATION OF INSTALLATION

The assembled Mounting Bracket and Battery Charger will be mounted on the right side of the vehicle as indicated in [Figure 3](#).



PRIOR TO INSTALLATION

REMOVING RADIATOR COVER PANEL

Remove the radiator cover panel by taking out the seven plastic push clips, refer to **Figure 4**. To remove these, depress the centre of each clip and they will lift out.

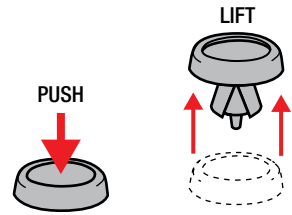
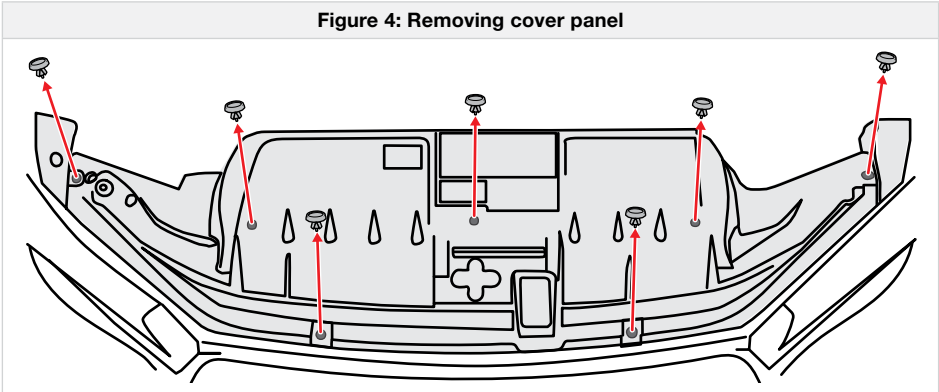


Figure 4: Removing cover panel

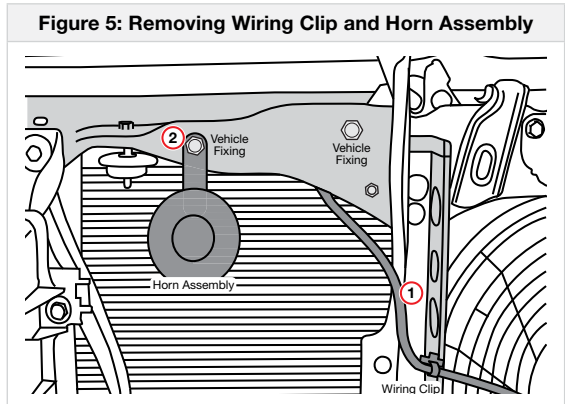


WIRING CLIP AND HORN ASSEMBLY REMOVAL

NOTICE: Removing existing vehicle fixings may expose sharp surfaces and bare metal, resulting in rust. Retouch any exposed metal with rust inhibitor if it is not an earth connection.

1. Remove the wiring clip from the vertical radiator support panel. This hole will be used to secure the Mounting Bracket assembly.
2. Remove the horn assembly by unfastening the two vehicle fixings, as indicated in **Figure 5**.

Figure 5: Removing Wiring Clip and Horn Assembly



INSTALLATION

FITTING THE MOUNTING BRACKET ASSEMBLY TO VEHICLE

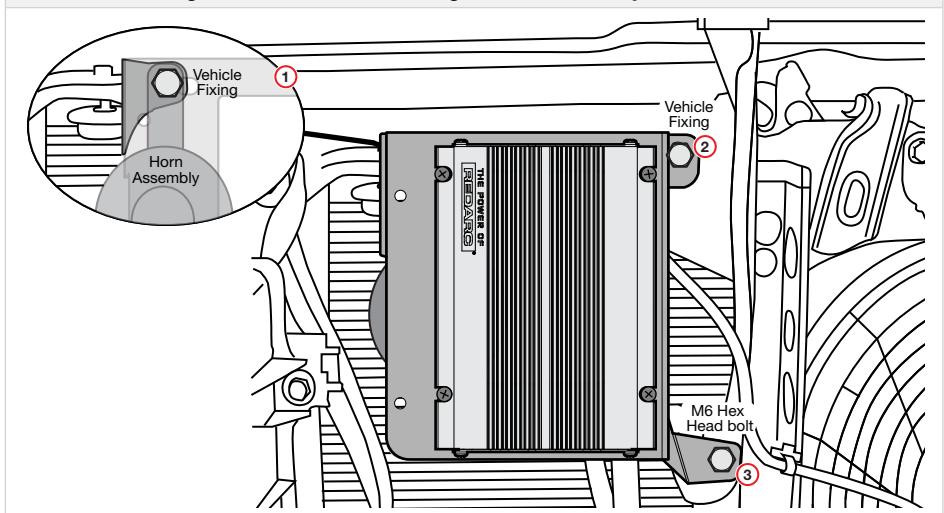
NOTICE: Installing the Mounting Bracket assembly requires removal and refitment of the horn. Check if the horn is properly connected and still functions before driving your vehicle.

To fit and secure the Mounting Bracket assembly to the vehicle refer to **Figure 6** and adhere to the following steps:

1. Loosely refit the horn assembly and the top left mounting point of Mounting Bracket using the vehicle fixing (**1**).
2. Align the top right mounting point to the vehicle fixing hole and loosely secure by refitting the vehicle fixing (**2**).
3. Loosely fit the lower mounting point using the supplied M6 Hex Head Bolt with Flat Washer and Nyloc Nut* (**3**).
4. Tighten the three loosely fitted bolts to secure the Mounting Bracket assembly to the vehicle. Ensure the M6 Hex Head Bolt is tightened to 7.5 Nm (66 in-lb) and the vehicle fixings are tightened correctly to the vehicle manufacturers torque specifications.

***NOTE:** Where a vehicle is fitted with a captive nut, use the Spring Washer and the Flat Washer, do not use the Nylon Nut.

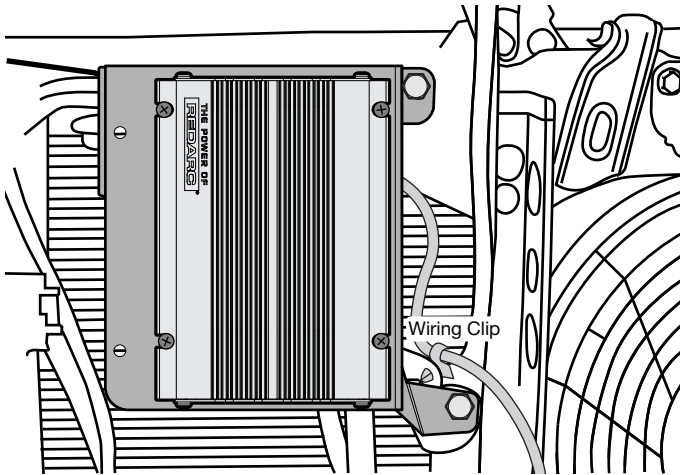
Figure 6: Secure the Mounting Bracket Assembly to the Vehicle



FINALISING INSTALLATION

Re-fit the vehicle wiring clip into the tab on the Mounting Bracket assembly (see Figure 7).

Figure 7: Re-fitting Wiring Clip to Mounting Bracket Assembly



CUTTING AN INSPECTION HOLE IN THE RADIATOR COVER PANEL

Before fitting the radiator cover panel back to the vehicle, use the supplied template to create an inspection hole to view the status of your Battery Charger. Following the instructions and marking on the provided template, cut the inspection hole away from the vehicle.

1. Align the template as indicated on the radiator cover panel.
2. Mark the hole centres holes and cut neatly between the holes to create the inspection window of your Battery Charger. REDARC recommend using a centre punch/scribe to mark the holes and a small, serrated blade or reciprocating saw for cutting the trim. De-burr rough edges.

IMPORTANT: The supplied template is at a 1:1 scale. Altering this scale (e.g. photocopying) could result in the wrong size hole being cut in the radiator cover panel. Measure the printed scale/ruler guide on the template sheet to confirm that the scale is correct before modifying the cover panel.



⚠ CAUTION: Use Personal Protective Equipment (PPE). Wear appropriate clothing as well as eye protection when operating power tools.

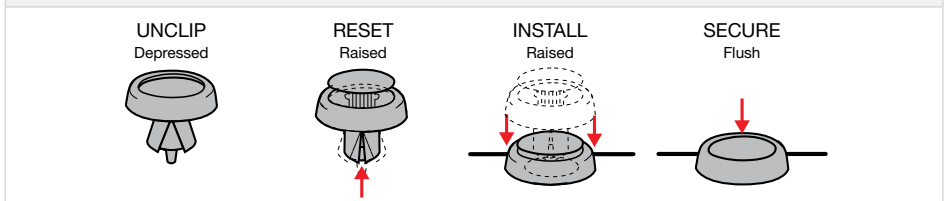
FITTING THE RADIATOR COVER PANEL

Complete the required wiring in accordance with your Battery Charger's instruction manual then sit the radiator cover panel in place.

NOTICE: Damage to cabling can cause failure to the Battery Charger and the vehicle's electrical system. Ensure wiring is clear of sharp edges, moving parts and has enough slack to allow for flexing.

Check the inspection hole for alignment with the Battery Charger's front panel and if required remove the cover panel from the vehicle to trim excess plastic. Re-fit the cover panel to the vehicle with the clips removed during panel removal. These clips are secured when the centres are flush with the outer edge of the clip (see [Figure 8](#)).

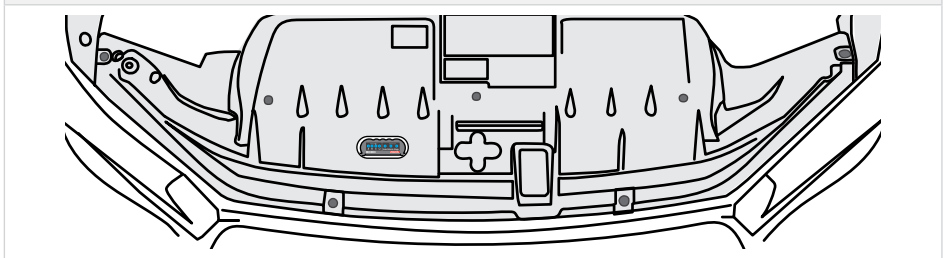
Figure 8: Fitting Clips to the Plastic Trim



COMPLETED INSTALLATION

Once the radiator cover panel is fitted back to the vehicle, the installation is complete.

Figure 9: Completed Installation



MAINTENANCE

⚠ CAUTION: Ensure the area around the Battery Charger is clean and clear of debris. Any debris not removed will impair the performance of the unit and may cause a fire hazard.

NOTE: Regularly check your vehicle to avoid potential damage to the Battery Charger, your vehicle, and batteries (both auxiliary and starter).

WARRANTY

LIMITED WARRANTY

For full warranty terms and conditions, visit the Warranty page of the REDARC website:

www.redarcelectronics.com/warranty

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