

CorkSport Mazdaspeed 3 ECU Relocation Box

2007-2013 Mazdaspeed 3



Thank you for purchasing the CorkSport ECU Relocation Battery Box for the Mazdaspeed 3. With the install of this battery box, you now have a full solution for housing an OEM sized battery and up to 3.5" intake, all while having a factory appearing cover. By using a complete cover you are also moving your ECU out of the elements giving you one less thing to worry about. Please let us know what you think about this box by leaving a review here:

<http://corksport.com/mazdaspeed-3-ecu-relocation-battery-box.html>

Pre-Installation Notes:



Make sure your vehicle is completely cooled down prior to starting installation. If you are going to work on your car within an hour or two of having driven it, use a fan to cool off the car.



These instructions were written for reference only and the use of a factory service manual is recommended. Please read these instructions thoroughly prior to starting installation



How our instructions work: To best cover all of our customers experience levels, we have included an overview checklist for the more technically advanced users along with step-by-step instructions for customers that require additional detail.



These installation instructions were written using a 2013 Mazdaspeed 3. Other year Mazdaspeed3 models will be similar.

Materials and Time:



General Info.

Part #: AXE-6-601-1C
Time Est: 1 hours
Wrench Rating: 2/5



Tooling List

10mm Wrench
10mm Socket
12mm Socket
3/8" Drive Ratchet
1/2" Drive Ratchet
Swivel Socket
12" Extension
Needle Nose Pliers
Flat Head Screw Driver
Phillips Head Screw Driver
5mm Hex Socket



Parts List

One (1) CorkSport ECU Relocation Box
One (1) Battery Tie Down Bracket
Two (2) Threaded Tie Down "L" Hooks
Two (2) Washers
Two (2) Wing Nuts
Four (4) M6X1.0X16 Flange Bolts
Four (4) M6x1.0 Flange nuts

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Order of Operations & Table of Contents



Disassembly

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Assembly

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Section 4: CorkSport Battery Box Installation

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Detailed Instructions

1. Remove the Factory Battery Box and ECU

- a) **Remove the top mount intercooler shroud.** Remove the two (2) 10mm bolts then push the shroud toward the firewall, and remove. (Red Circles in Figure 1a)
- b) **Remove the battery cover by pulling the two locking tabs and lifting the lid upward and foreword at the same time.** (Red Arrows in Figure 1b)
- c) **Remove the ECU cover by pulling upward on the side closest to the air filter, and then foreword.** (Green Circle in Figure 1b)

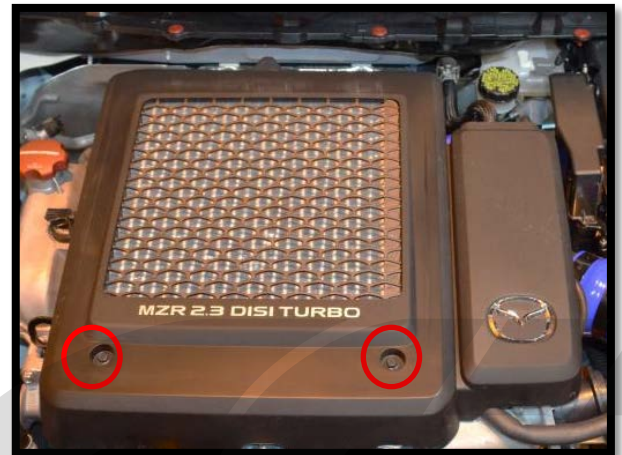


Figure 1a

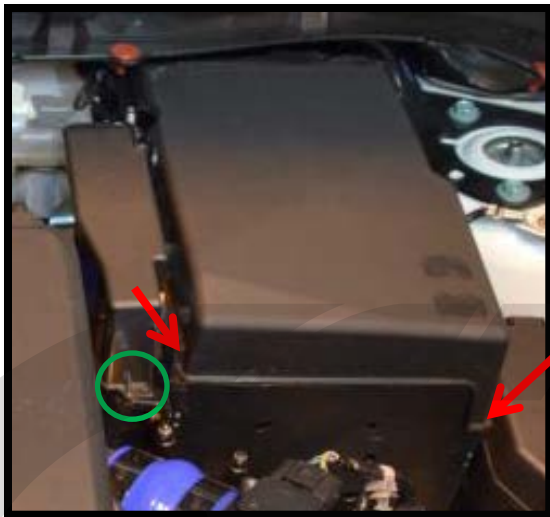


Figure 1b

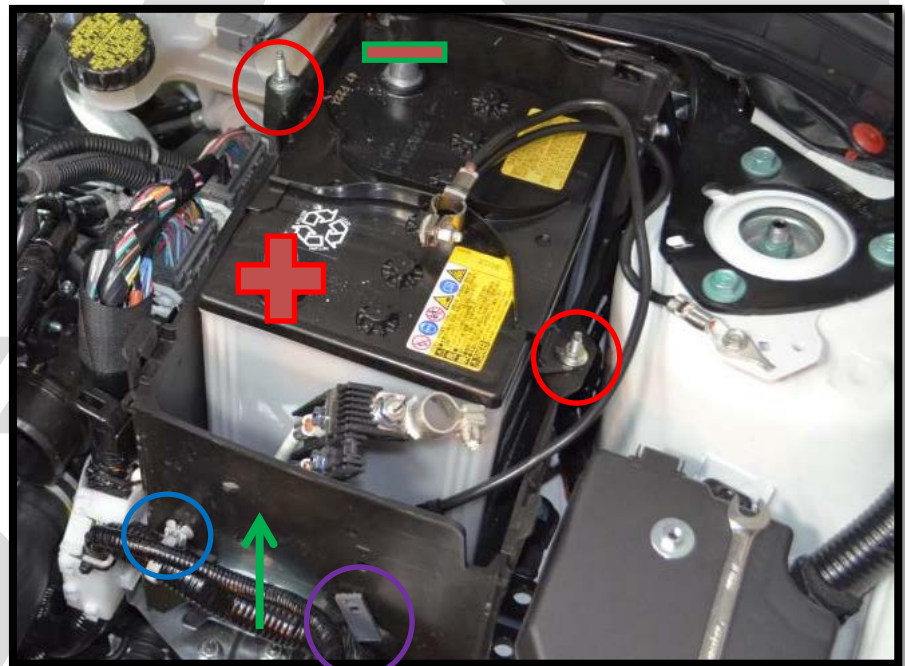


Figure 1c

- d) **Disconnect the battery terminals,** use a 10mm wrench starting with negative first, then Positive. Positive and Negative shown. (Figure 1c)
- e) **Remove the factory battery tie down bracket.** Remove the two 10mm nuts, and pull the bracket off the battery. (Red Circles Figure 1c)
- f) **Remove the front battery box panel.** Remove the MAF wiring harness clip (Blue Circle Figure 1c), and negative battery cable clip (Purple Circle Figure 1c), from the front battery box panel using needle nose pliers to compress the clips on the inside of the battery box.. Then slide the panel upwards and remove it. (Green Arrow in Figure 1c)

Detailed Instructions

1. Remove the Factory Battery Box and ECU

- g) Disconnect the ECU plugs by pushing on the tab (Red Arrow in Figure 1d) and pulling the white lock upward simultaneously. (Green Arrow in Figure 1d)
- h) Remove the battery from the battery box.
- i) Remove the battery box. Remove the three 10mm bolts in the bottom of the box, and remove the battery box and ECU. (Red Circles Figure 1e)

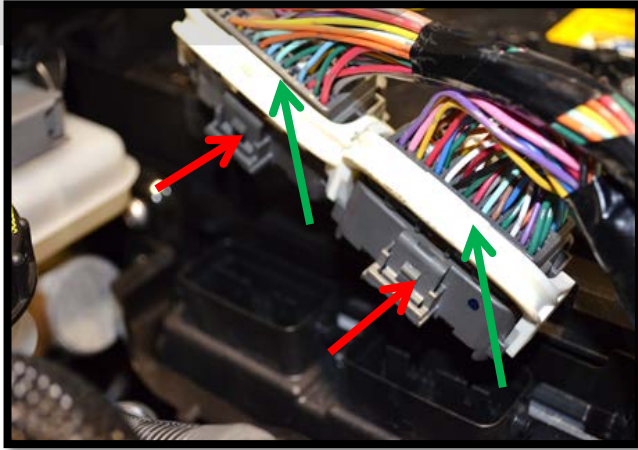


Figure 1d

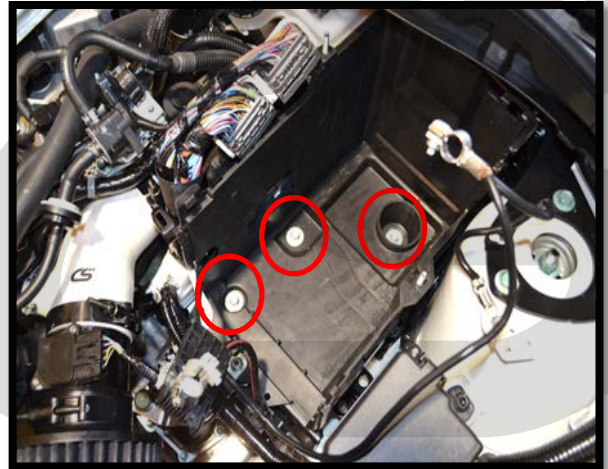


Figure 1e

2. Preparing to Install the CorkSport ECU Relocation Box

- a) Remove the ECU wiring harness bracket. Use a flat head screwdriver to pry the locking tab up, and pull the harness towards the front of the car. (Green Arrow in Figure 2a) Then remove the two 10mm nuts holding the bracket and remove it. Nuts shown removed. (Red Arrows in Figure 2a)



It is possible to remove the white plastic sheathing on the ECU wiring harness, if more room is needed for larger turbo inlet pipes.

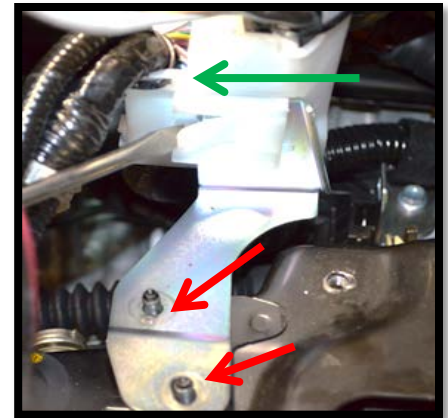


Figure 2a

- b) Next, remove the ECU from the factory battery box. Remove the ECU cover screws with a Phillips Head screwdriver. Remove the four 10mm nuts and set the ECU and four (4) 10mm nuts aside for later. (Figure 2b)



Figure 2b

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Detailed Instructions

3. ECU Relocating

- a) Install the ECU onto the front panel shown in **Figure 3a**. Use the provided M6 hardware and torque to 8-10 ft-lbs.



Figure 3a

- b) The result should look like **Figures 3b** and **3c** shown below.



Figure 3b



Figure 3c

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Detailed Instructions

4. CorkSport ECU Relocation Box Installation

- a) Install the CorkSport Box as shown in **Figure 4a**. Install the three OEM M6 bolts (red circles) and torque to 12-15 ft-lbs.
- b) Install the provided L-hooks as shown in **Figure 4a**. Install the hooks in their respective holes. Leave the passenger side down and the driver's side upright.
- c) Install the provided battery tie down bracket. Rotate the passenger side L-hook up the side of the battery, then install the bracket, washer, and wing nuts. **Figures 4b & 4c**.



Figure 4a



Do not let go of the passenger side L-hook until the bracket and hardware is installed or the L-hook may fall out of the box. If it falls out, according to Murphy's Law, it will end up directly under the center of the vehicle or an even more inconvenient location.

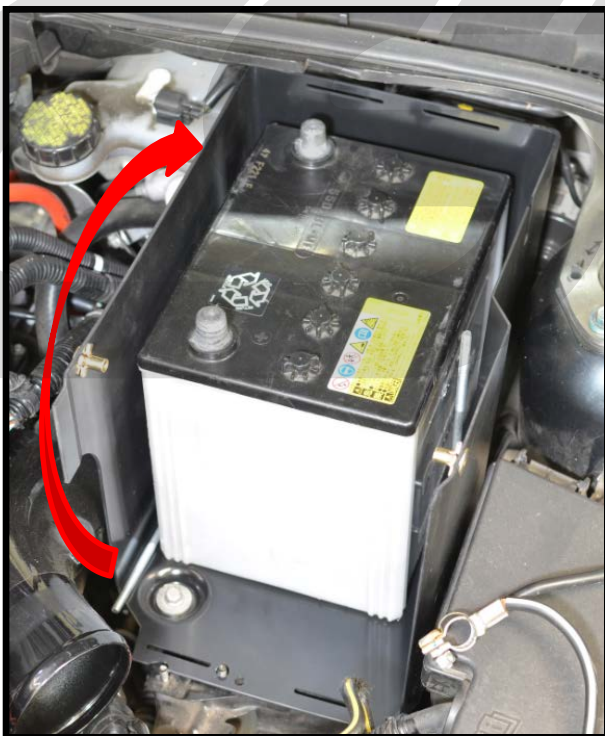


Figure 4b

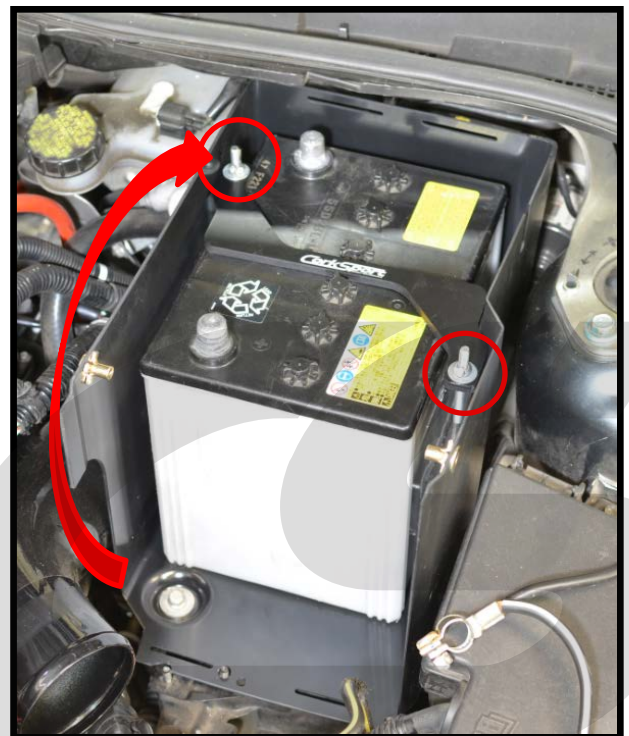


Figure 4c

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Detailed Instructions

4. CorkSport ECU Relocation Box Installation (continued)

- d) Install the ECU and battery wiring as shown in **Figure 4d**. Use a 10mm wrench to tighten the positive terminal.
- e) Install the ECU panel into the box. Note the **red squares** and **red arrows** in **Figure 4d & 4e**. The tabs on the ECU panel must insert into the slots in the box and the cutout in the ECU panel is meant for the black w/yellow power wire.
- f) Rotate the ECU panel up and tight to the box as shown in **Figure 4f**. Note the red circles in **Figure 4f**. Verify that the ECU panel is on the outside of the box edges as shown.
- g) Connect the wiring harness to the ECU.



Figure 4d

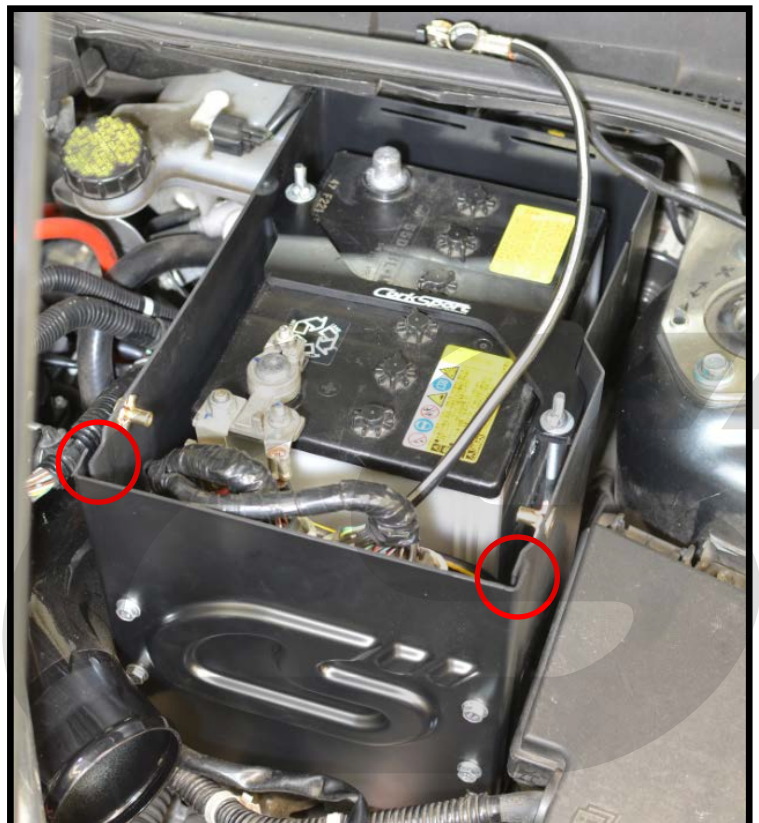


Figure 4f

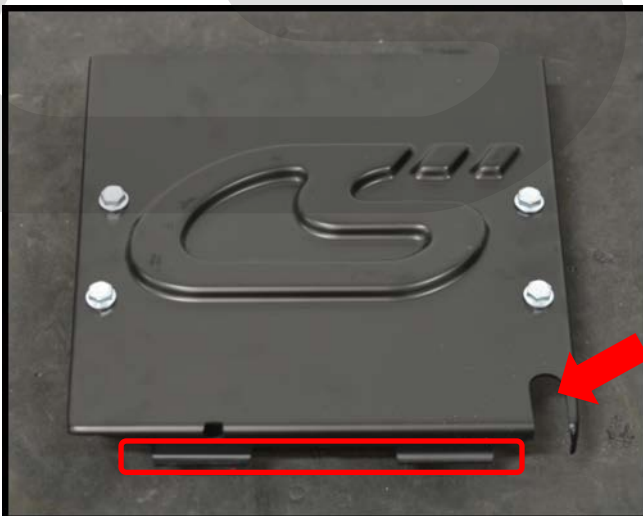


Figure 4e

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Detailed Instructions

4. CorkSport ECU Relocation Box Installation (continued)

- h) Install the negative battery cable with a 10mm wrench. Place the negative terminal grounding wire in the cutout. Shown with the red circle in Figure 4i.
- i) Install the ECU relocation box lid. Note the red squares in Figures 4g & 4h. The tabs on the lid insert into the slots in the back of the box.
- j) Align the holes in the sides of the lid and use the provided thumb screws (Figure 4j) to full install the lid. Shown in Figure 4i.
- k) This completes your installation. Please check the battery tie down bracket after a few drives and retighten if needed.

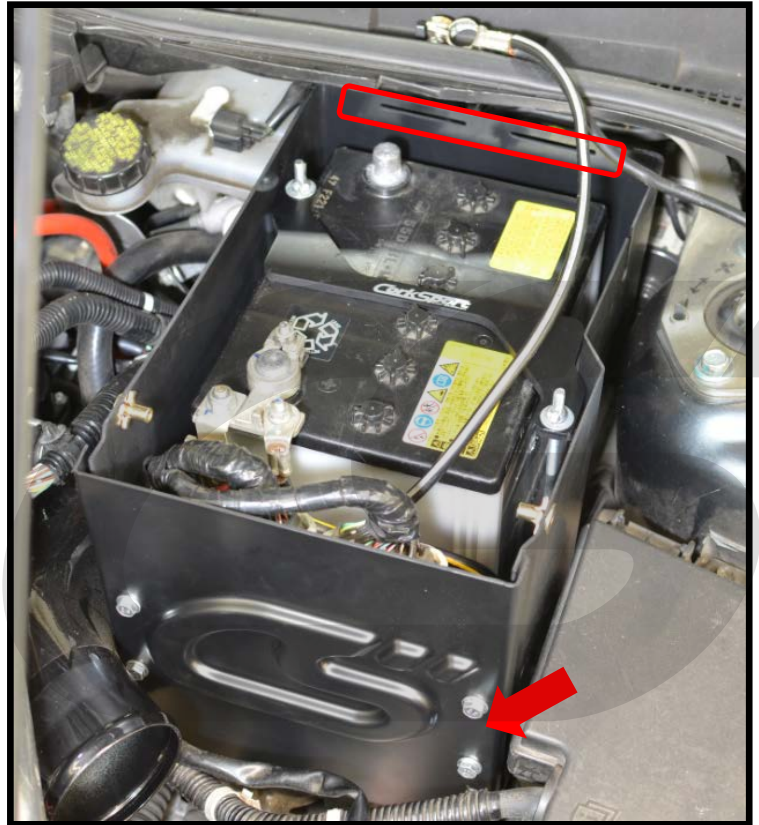


Figure 4g



Figure 4j



Figure 4h

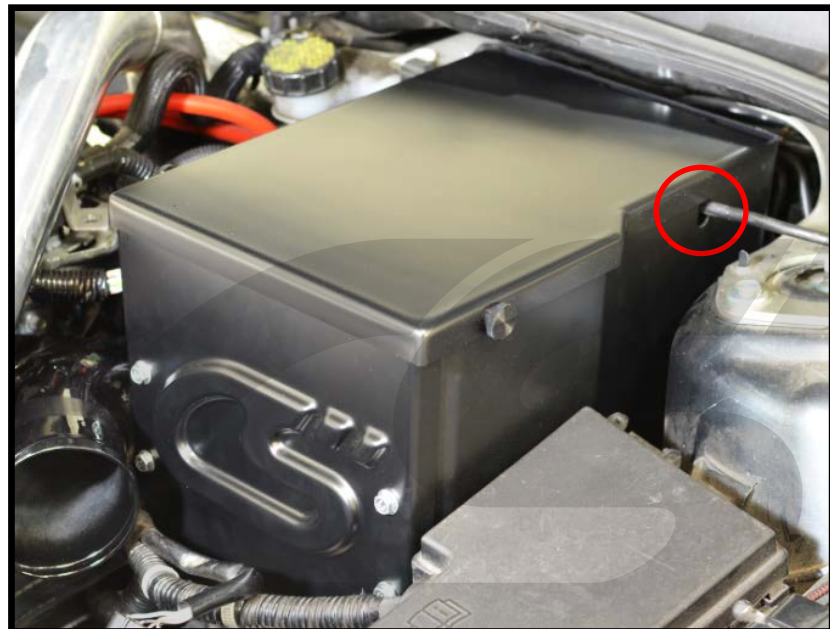


Figure 4i

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