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BrawlerFab Fabricated Battery Box Installation Guide

1. Remove the Airbox from your TRX.
2. Disconnect the positive and negative battery cables from your battery.
3. Remove battery hold down and then the battery from the factory battery box.
4. Remove the ground strap bolt from upper rear corner of the PCM.
5. Disconnect the 2 PCM harness connectors from the PCM. (Depress the lock release button in the center of the harness connector while pulling the connector release lever away from the connector. The connector should start to move away from the PCM and allow you to disconnect from PCM. Ensure you are pulling the connector in a way that you do not bend any of the pins in the PCM.
6. Remove the 2 bolts that hold the PCM and mount to the battery box.
7. Remove the PCM and mount from the truck and set aside. (There could be some wire harness clipped to the bottom side of the PCM mount. Disconnect these before removing the PCM)
8. Remove the cover from the relay box.
9. Loosen the 3 relay connector hold down bolts. You do not have to completely remove from the relay box. You should be able to tell when the bolt is fully disengaged from the connector and that is as far as you need to go.
10. Release the relay box from the relay box mount by disengaging the 4 hold down clips. There are 2 in front of the relay box and 2 to the rear of the relay box.
11. Lift up the relay box enough to expose the 3 connectors and harnesses below the box. Move the 3 connectors and harness away from the relay box mount.
12. Remove the 2 nuts and 1 screw holding the relay box mount to the battery box assembly. Remove the mount from the assembly and set aside to be reinstalled later.
13. Remove the Driver side front fender liner to expose the underside of the factory battery box.
14. Disconnect all of the wiring hold down clips (Christmas trees) from the factory battery box. (There could be as many as 10)
15. Remove the 7 bolts holding the factory battery box to the truck. 2 are accessible from below, 4 from above and the last one is just behind the headlight. You can now remove the factory battery box from the truck.
16. Now comes the fun part.... Install the BrawlerFab Fabricated Battery Box using 2 of the factory bolts from the factory box, install the bolts to the 2 upper bolt locations. Do not tighten the bolts at this time. In the forward lower bolt location, slide the included black Delrin spacer between the battery box and fender support and insert the bolt. Install the rear lower bolt.
17. Install the BrawlerFab relay box mount in place ensure the harness is running between the 2 relay box mount standoffs like it was in the factory mount. Install the 2 included 8mm bolts and 1 of the factory mounting bolts to the location just behind the headlight. Once all the bolts are in place, tighten the battery box mounting bolts first, and then the relay mount bolts. If you are installing the ARB dual compressor mount, do not tighten the 1 bolt behind the headlight as that bolt will also be used to hold the compressor mount. If you are not installing the dual compressor setup, tighten the bolt.



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18. Using the factory nuts, reinstall the relay box mount to the standoffs. You will not be using the screw from the factory relay mount.
19. Position the 3 relay connectors and harness into the relay mount. The connectors will click into place.
20. Lower the relay box onto the relay box mount and click into place. Tighten the 3 connector hold down bolts. Be careful to not overtighten them. Should be tight, but not too tight.
21. Reinstall the relay box cover.
22. Reinstall the PCM and PCM mount using the factory hold down bolts.
23. Reconnect the PCM ground strap using the factory bolt in the upper rear corner of the PCM.
24. Reconnect PCM harness connectors. Remount the harness hold down clips to the bottom of the PCM mount. Zip-tie all remaining wiring harnesses together and to existing wires.
25. Reinstall driver side inner fender liner.
26. If you are not installing the Dual Compressor setup, you can now install your battery into the battery box. Using 4 of the included stainless steel 6mm bolts and the rubber backed spacers, install the battery hold down across the top of the battery. Due to different battery sizes, you may not need to use the rubber backed spacers.

ARB Dual Compressor Mount

1. Install the ARB Dual Compressor to the BrawlerFab mount using the black 6mm hardware included with the compressor. Be sure to position the filters on the opposite side of the BF logo.
2. Remove the bolt that was loosely installed just behind the headlight.
3. Install the ARB Dual Compressor and mount using the bolt behind the headlight and 2 of the stainless steel 6mm bolts included in the BrawlerFab Ultimate Air System Accessory kit.
4. You may now install the battery. (See step 26 above)

ARB Auxiliary Air Tank

1. Install the ¼ NPT to JIC-04 male fitting on the outlet port of the compressor. Install the 90 deg JIC-04 female to JIC-04 female elbow.
2. Install the 60" stainless steel braided line to the elbow and route to the passenger side of engine compartment. (Under the cover in front of the radiator is best) Be sure to zip tie to existing wiring
3. Install the ARB Air Tank to the BrawlerFab mounting bracket using the hardware included with the Air Tank. Also Use the stainless-steel washers included with the BrawlerFab Ultimate Onboard Air System under the head of the bolt and lock washer.
4. Install the Air Chuck on the BrawlerFab Air Tank Mounting Bracket.
5. Install the 10" Stainless Steel Braided line from the tank to the air chuck.
6. Remove the 2 bolts from the passenger side of engine compartment. Upper bolt also holds the cross brace to the airbox support. Lower bolt is approximately 7" below.
7. Install the Air Tank and mount assembly reusing the factory bolts.
8. Using one of the included 90-degree elbows, attach the braided line from the compressor to the air tank.



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Congratulations! You have installed the BrawlerFab Fabricated Battery Box and the Ultimate Onboard Air System!

Wiring up the ARB dual compressor can be done several ways with the included harness from ARB. Decide which option is best for you. For us, we like to hardwire the main power and ground to the battery and connect the trigger (purple wire) to one of the Aux switches.

Helpful tips:

Check all your parts to ensure you have everything you need before you start.

Give yourself enough time to complete the install, start to finish in one day if possible. Parts seem to go back together smoother when reinstalling the same day they were removed.



