



**SDHQ Motorsports**  
**190 S McQueen Rd**  
**Ste 109 Gilbert, AZ 85233**  
**[www.SDHQoffroad.com](http://www.SDHQoffroad.com)**

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## Product Packing List

**Product:** ***SDHQ-54-3001-G5***

**Description:** **2010+ 4Runner Dual Battery Kit**

*\*Batteries NOT included\**

_____ (1) Main Battery Mount	SDHQ-54-3001-G5-A
_____ (1) Rear Upright Support	SDHQ-54-3001-G5-B
_____ (1) Vertical Support	SDHQ-54-3001-G5-C
_____ (1) SDHQ Auxiliary Billet Battery Hold Down	SDHQ-50-3005-U1-A
_____ (1) Hardware Package	SDHQ-54-3001-G5-D
_____ (3) M8 - 1.25 S.S. Nylock Nuts	
_____ (3) 5/16" S.S. Washers	
_____ (4) M6 - 1.0 x 20mm S.S. Button Head Flange Bolts	
_____ (3) M6 - 1.0 S.S. Nylock Nuts	
_____ (3) 1/4" S.S. Washers	
_____ (2) 3/8" - 16 x 9" Threaded Rod	
_____ (4) 3/8" - 16 S.S. Serrated Flange Nuts	
_____ (2) 3/8" S.S. with Rubber Sealing Washer	
_____ (1) Small Tube of Blue Loctite	

**Inspected and Packaged By:** \_\_\_\_\_ **Date:** \_\_\_\_\_

For questions or help with the installation, please email [help@sdhqoffroad.com](mailto:help@sdhqoffroad.com)  
Store front hours: Mon. - Fri. 8:00am - 5:30pm and Sat. 9:00am - 2:00pm Arizona Time.



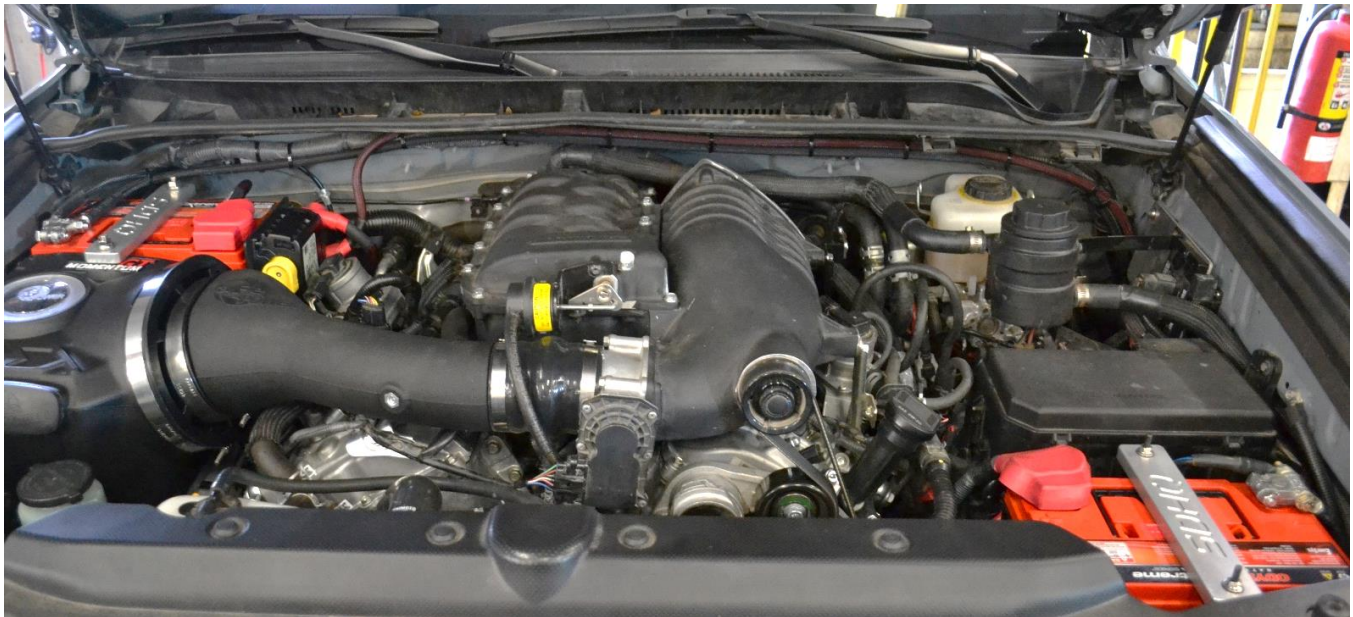


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## INSTALLATION INSTRUCTIONS

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**Description:** 2010+ 4Runner Dual Battery Kit

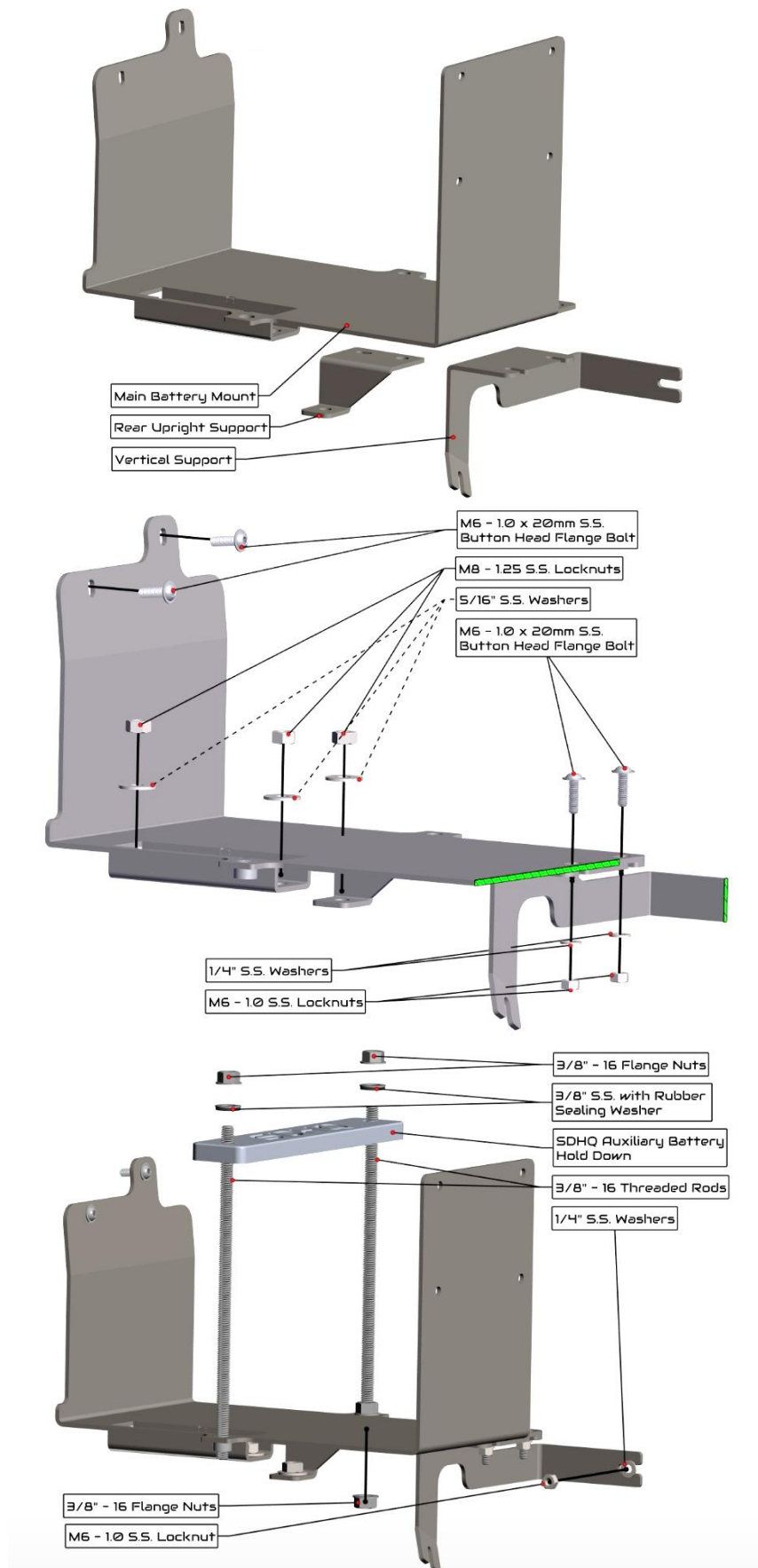


<b>Parts List</b>	<b>Hardware List</b>	<b>Required Tools</b>
(1) Main Battery Mount SDHQ-54-3001-G5-A (1) Rear Upright Support SDHQ-54-3001-G5-B (1) Vertical Support SDHQ-54-3001-G5-C (1) SDHQ Auxiliary Battery Hold Down SDHQ-50-3005-U1-A (1) Hardware Package SDHQ-54-3001-G3-D	(3) M8 – 1.25 S.S. Locknuts (3) 5/16” S.S. Washers (4) M6 – 1.0 x 20mm S.S. Button Head Flange Bolts (3) M6 – 1.0 S.S. Locknut (3) ¼” S.S. Washers (2) 3/8” – 16 x 9” Threaded Rods (4) 3/8 – 16 S.S. Serrated Flange Nuts (2) 3/8” S.S. with Rubber Sealing Washer (1) Small Tube of Loctite	10mm, 12mm Sockets 3” Extension Ratchet 4mm Allen Wrenches 9/16” Wrench

### **Tech Notes**

Trimming required if running an aFe Momentum Intake.  
 Use Anti-Seize/Loctite on all Stainless Steel (S.S.) hardware.  
 For ease of wiring, **SDHQ-50-3002-U1** is our optional wiring kit. Must be purchased separately or in the 4Runner Complete Dual Battery Kit (**SDHQ-54-3000-G3**).  
 If you are running **24F** batteries, purchase (1) **SDHQ-50-3005-24F** Toyota Dual Battery 24F/27F Upgrade.  
**\*\* Connect all accessories to the main battery \*\***  
**Approx. Install Time: 2 Hours, 6+ Hours Complete Kit**

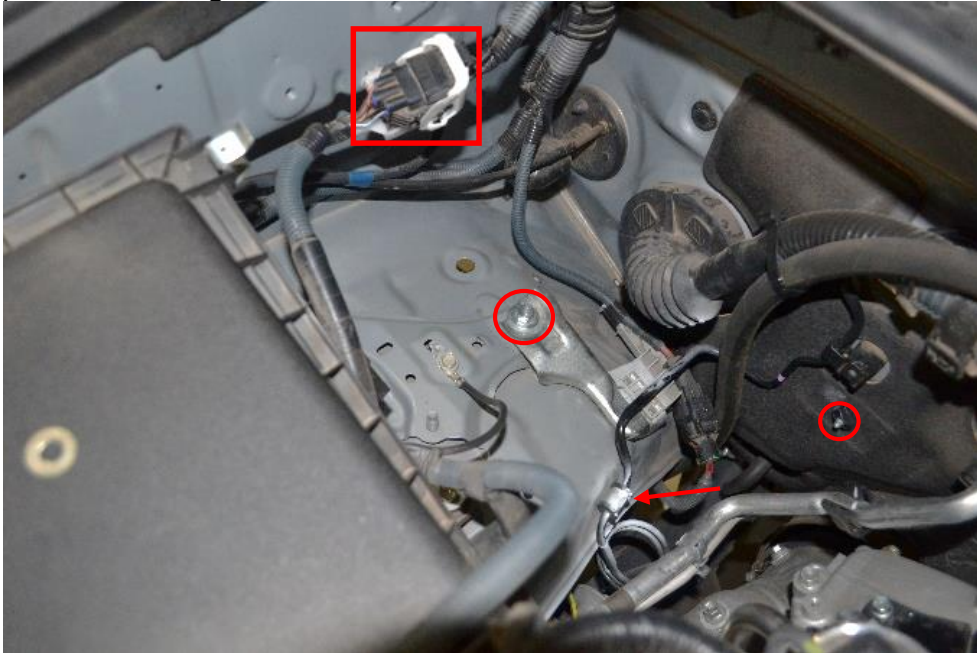
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## Installation Instructions:

1. Unbox your SDHQ Dual Battery Kit, check over all the parts. Familiarize yourself with the parts and the diagrams above.
2. **Preparing your vehicle.** Remove the 12mm nut circled in red below. Using a panel removal tool, remove the harness on the inner fender squared in red. The harness might also be located on top of the wheel well. This harness will be relocated in Step 6. Use a 10mm socket to loosen the bolt connecting the brake line to the inner wheel well arrowed in red below. Remove the plastic retaining nut on the firewall circled in red below.



3. **Installing the Dual Battery Kit.** Slide the Vertical Support in between the loosened brake clamp and align the rear of the bracket onto the stud protruding from the firewall. Thread (1) M6 S.S. Locknut and (1) 1/4" S.S. Washer onto the stud protruding from the firewall. Begin tightening the factory brake line bolt.



4. Align the Rear Upright Support over the rear stud on the wheel well as pictured. Secure the Rear Upright Support using (1) M8 S.S. Nylock Nut and (1) 5/16" S.S. Washer. Tighten this nut until the Rear Upright Support only has a little bit of room to rotate. Relocate the harness that was on the inner fender to the Rear upright Support as circled in red below right. This harness will run underneath the Dual Battery Mount.



5. Align the Main Battery Mount in the engine bay of your truck. The bottom (2) holes will fit over the studs protruding from the top of the wheel well. Be sure to align the Main Battery Mount to the holes on the inner fender and Vertical Support.

6. Align the hole in the Rear Upright Support to the hole in the Main Battery Mount as pictured right. Once those are aligned, carefully remove the Main Battery Mount and finish tightening the M8 Locknut on the Rear Upright Support. The Main Battery Mount can be aligned back into position.



7. Place (1) threaded rod through the rear hole on the Main Battery Mount. Thread (1) 3/8" – 16 Flange nut onto the bottom and (1) 3/8" Flange Nut on top of the Main Battery Mount as pictured right. Leave the Flange Nuts slightly loose for adjustments.
8. Thread (2) M6 S.S. Button Head Flange Bolts through the Main Battery Mount into the inner fender well as pictured. Leave these slightly loose to allow adjustments later.



9. Thread (2) M8 Nylock Nuts and (2) 5/16" S.S. Washers to the (2) front mounting points on the Main Battery Mount. Leave these loose for adjustments later.
10. Insert (2) M6 S.S. Button Head Flange Bolts through the Main Battery Mount and Vertical Support and secure with (2) 1/4" S.S. Washers and (2) M6 S.S. Nylock Nuts. Leave the hardware loose enough for now such that adjustments can be made.



11. Once all of the hardware has been installed, finish tightening the hardware starting with the M6 Button Head Flange Bolts on the inner fender. From there, tighten the M6 Nylock Nut on the firewall, the brake line clamp bolt, the (2) M8 Nylock Nuts and the (2) M6 Button Head Flange Bolts. Be sure the Threaded Rod and Flange Nuts installed in Step 7 are secure as well.
12. **Installing the Battery.** Place your battery into the Main Battery Mount. Thread the second threaded rod into the rivet nut at the front of the Main Battery Mount. Align the battery between the threaded rods. Place the SDHQ Auxiliary Battery Hold Down on top of the battery. Thread (2) 3/8" – 16 Flange Nuts as pictured below with 3/8" S.S. with Rubber Sealing Washers.



13. With the batteries in place, the install of the SDHQ Dual Battery Kit is complete. Now, the battery will need to be wired. If the SDHQ Dual Battery Wiring Kit (SDHQ-50-3002-U1) was purchased, begin those Install Instructions.

\*\*\*Double check all hardware is installed correctly and tight\*\*\*

\*\*\*Re-torque ALL bolts after 100 miles\*\*\*



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