SDHQ

Product Packing List

Product: _SDHQ-13-3003-G12_

Description: 2009-2014 Ford F150/Raptor & 2017-19 Ford Super Duty Complete Billet Battery Terminal Kit

_____ (1) SDHQ Complete Billet Battery Terminal Kit   SDHQ-02-3003-C2

_____ (2) SDHQ 1-2GA Lug & Heat Shrink

o Compression Lugs   SDHQ-02-3802

OR

o Solder Lugs   SDHQ-02-3701

_____ (1) SDHQ 16" Negative 6GA Battery to Body   SDHQ-02-3002-U1-E

Inspected and Packaged By: _____ Date: _____

**For questions or help with the installation, please email help@sdhqoffroad.com
Mon.–Fri. 8:00am–5:30pm and Sat. 8:00am–3:30pm Arizona Time. www.sdhqoffroad.com**
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Included in <u>SDHQ-02-3003-C2</u>:

(1) SDHQ Billet Positive Battery Terminal   SDHQ-02-3003-T2-P-Rev2
(1) SDHQ Billet Negative Battery Terminal   SDHQ-02-3003-T2-N-Rev2
(1) SDHQ Negative Terminal Stud   SDHQ-02-3003-T2-A
(1) Hardware Package   SDHQ-02-3003-T2-B
     (1) Positive Battery Protective Boot
     (1) Negative Battery Protective Boot
     (1) Positive Terminal Post Washer
     (1) Negative Terminal Post Washer
     (2) 5/16" – 18 x 1 ½" Battery Terminal Bolt
     (2) 5/16" – 18 Battery Shoulder Nut
     (4) ¼" – 20 x ¾" S.S. Hex Head Bolt
     (4) ¼" S.S. Washer
     (2) 5/16" – 18 x 1" S.S. Hex Head Bolt
     (2) 5/16" S.S. Washer
     (2) 3/8" – 16 x 2" S.S. Hex Head Bolt
     (4) 3/8" S.S. Washers
     (2) 3/8" – 16 S.S. Nuts
     (1) Small Tube of Anti-Seize

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INSTALLATION INSTRUCTIONS

Product: *SDHQ-13-3003-G12*

Description: 2009-2014 Ford F150/Raptor & 2017-19 Ford Super Duty Complete Billet Battery Terminal Kit
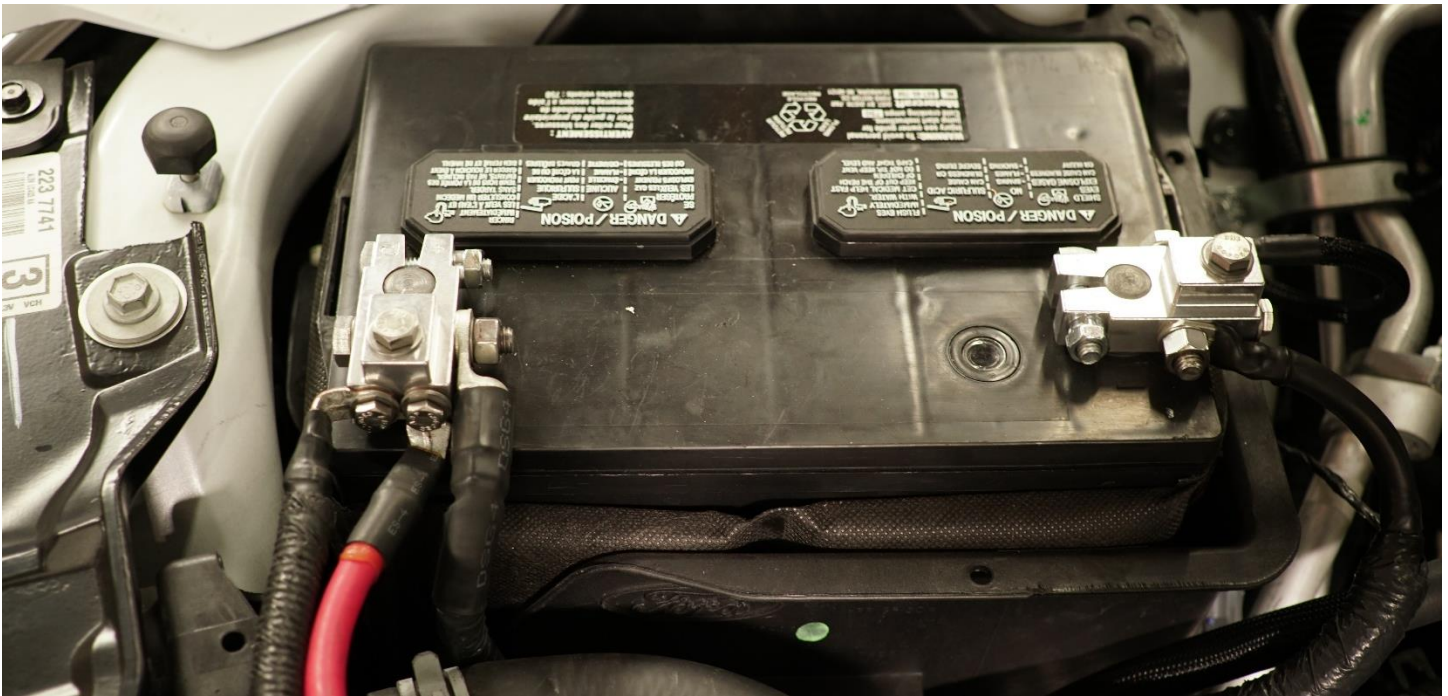
Parts List	Hardware List	Required Tools

(1) SDHQ Complete Billet Battery Terminal Kit
    SDHQ-02-3003-C2
(2) SDHQ 1-2GA Lugs & Heat Shrink
    SDHQ-02-3802   **OR**   **SDHQ**-02-3701
(1) 16" Negative 6GA Battery to Body Wire
    SDHQ-02-3002-U1-E
	N/A	**7/16", ½", 9/16" Sockets**
		8mm Socket
		Ratchet
		9/16" Wrench
		Pliers
		Rubber Mallet

| Tech Notes |
|---|
| Apply Anti-Seize to all hardware.
Cutting the factory terminals off is required.

Torque Specifications
Torque the ¼" – 20 bolts to 4 ft-lb. Torque the 5/16" – 18 bolts to 8 ft-lb. Torque the 3/8" – 16 hardware to 18 ft-lb.

Be cautious when tightening the Compression Lugs as the threads can strip.
Approx. Install Time: 30 Minutes |

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SDHQ Positive Accessory Terminal　　　　**SDHQ Negative Accessory Terminal**

5/16" Battery
Hardware

1/4" Hardware

3/8" Hardware

5/16" Hardware

1/4" Hardware
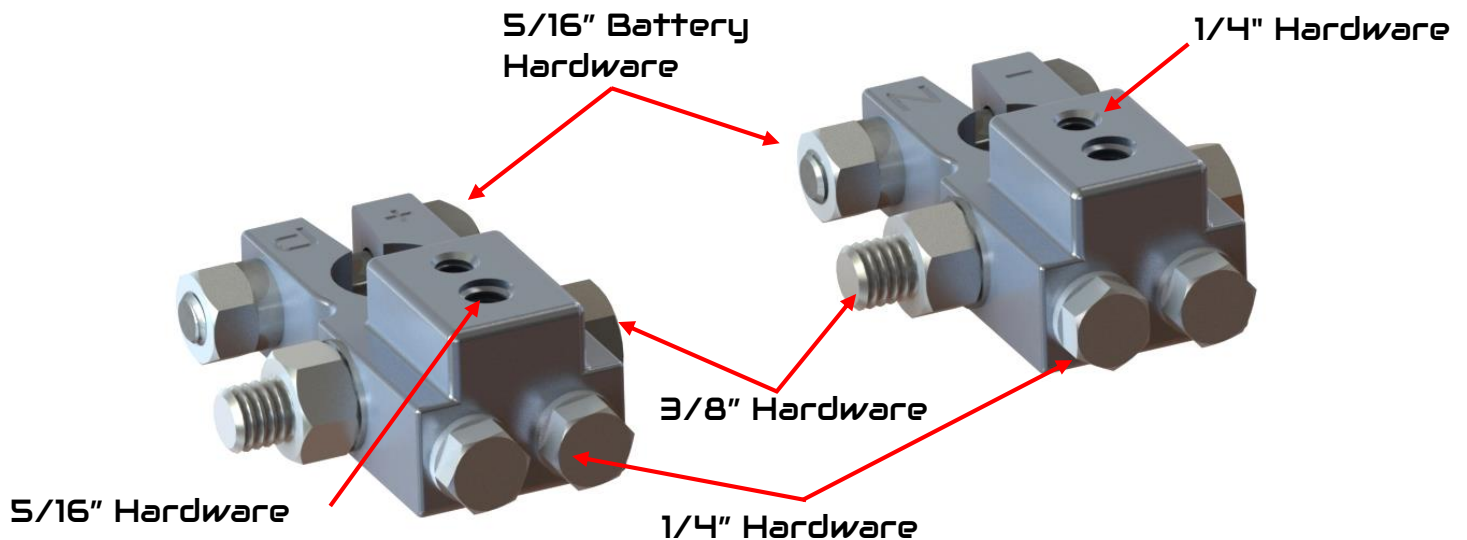
***READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! ***

Installation Instructions:

1. Unbox your SDHQ Battery Terminal Upgrade Kit and check over for all parts. Familiarize yourself with the parts.

2. Disconnect the stock battery terminals using the 8mm socket. Remove the wires from the stock battery terminals.

3. **Installing Lugs.** Strip 1" of insulation off the positive wire and slide the heat shrink and red battery boot onto the positive wire. **Compression Lugs:** Slide compression end of the 1-2GA lug over the stripped positive wire. Using the 9/16" wrench and pliers, tighten the compression lug until it is snug. Be mindful of the orientation of the lugs for ease of wiring to the terminals. Be cautious not to over tighten as the threads can strip. **Solder Lugs:** Using pliers to hold the solder lug, practice holding the lug upright and placing the wire in cold solder. Once comfortable, heat the solder lug upright until liquid and hold wire in the solder lug until cool. Heat the 3" of heat shrink over the lug and wire.
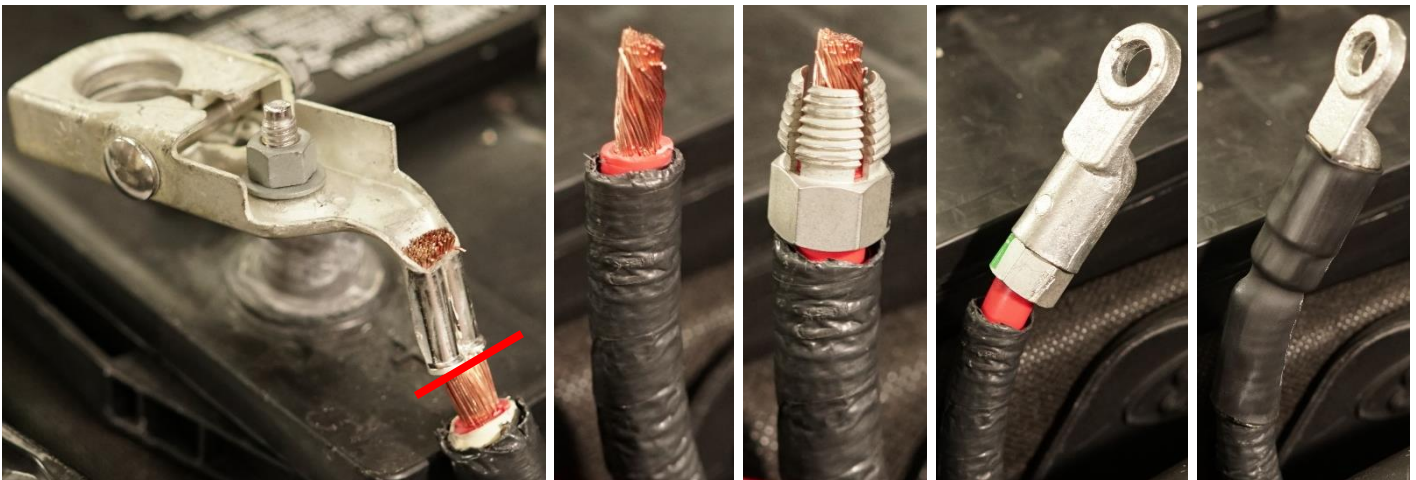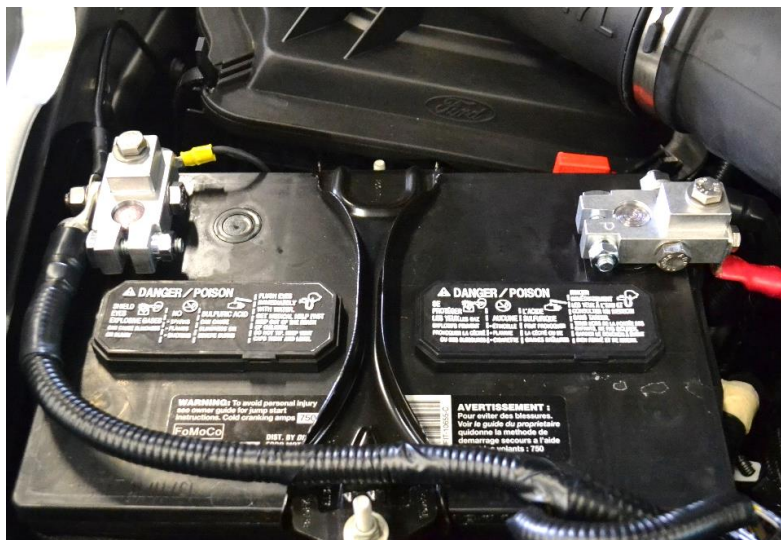
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4. Repeat Step 3 for the wire connected to the negative terminal. Locate the 8mm bolt on the fender wall just behind the battery that connects the negative battery to the body (circled in red). Keep that bolt and discard the old wire along with the terminal.

5. **Installing the Terminals.** Install the SDHQ Terminals on the corresponding battery studs. Lightly tap on the top of the terminal using a rubber mallet to set it on the battery post. Tighten the 5/16" Battery Bolt and Nut, using ½" wrench on both to prevent damaging the battery post.

6. Connect the smaller ¼" lug on the supplied 16" 6GA Battery to Body wire (SDHQ-02-3002-U1-E) to the factory fender location with the 8mm bolt. Connect the other side of the wire to the 3/8" bolt on the negative terminal. Connect the other ground wire with the Compression Lug and any other negative wires to the terminal. Bend the (2) factory ring terminals to 90° to fit on the terminal as shown below. Connect the positive wires to the positive terminal.

7. **Torque Specification.** Torque the ¼" – 20 bolts to 4 ft-lb. Torque the 5/16" – 18 bolts to 8 ft-lb. Torque the 3/8" – 16 hardware to 18 ft-lb.

8. You have completed the SDHQ Ford Battery Terminal Upgrade. Enjoy!

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Double check all hardware is installed correctly and tight

Re-torque <u>ALL</u> bolts after 100 miles

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