



SDHQ Motorsports
190 S McQueen Rd
Ste 109 Gilbert, AZ 85233
www.SDHQoffroad.com

Product Packing List

Product: *SDHQ-13-3003-G14*

Description: 2021-current Ford F150/Raptor Complete Billet Battery Terminal and Distribution Kit

- | | |
|---|---------------------|
| _____ (1) SDHQ Billet Battery Distribution Kit | SDHQ-02-3003-D2 |
| _____ (1) Billet Negative Sensor Terminal Kit | SDHQ-02-3003-TS1 |
| _____ (1) 18" 4 AWG Negative Wire | SDHQ-02-3304-B18-15 |
| _____ (1) SDHQ 1-2GA Lug & Heat Shrink | |
| ○ Compression Lugs | SDHQ-02-3802 |
| | <u>OR</u> |
| ○ Solder Lugs | SDHQ-02-3701 |
| _____ (1) Hardware Package | SDHQ-02-3304-B18-HP |
| _____ (1) M6 - 1.0 x 35mm S.S. Socket Head Bolt | |
| _____ (1) ¼" S.S. "AN" Washer | |

Inspected and Packaged By: _____ Date: _____

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

Included in **SDHQ-02-3003-D2**

_____	(1) Billet Positive Battery Terminal	SDHQ-02-3003-T2-P-Rev2
_____	(1) Billet Negative Distribution Block	SDHQ-02-3003-D2-N
_____	(1) Hardware Package	SDHQ-02-3003-D2-A
_____	(1) Positive Battery Protective Boot	
_____	(1) Red Post Washer	
_____	(1) M8 - 1.25 x 30mm S.S. Socket Head Bolt	
_____	(1) 5/16" - 18 x 1 1/2" Battery Terminal Bolt	
_____	(1) 5/16" - 18 Battery Shoulder Nut	
_____	(5) 1/4" - 20 x 1/2" S.S. Hex Head Bolt	
_____	(5) 1/4" S.S. Washer	
_____	(1) 5/16" - 18 x 1" S.S. Hex Head Bolt	
_____	(1) 5/16" - 18 x 3/4" 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	

Included in **SDHQ-02-3003-TS1**

_____	(1) Billet Negative Sensor Terminal	SDHQ-02-3003-TS1-N
_____	(1) Hardware Package	SDHQ-02-3003-TS1-HP
_____	(1) Black Post Washer	
_____	(1) 5/16" - 18 x 1 1/2" Battery Terminal Bolt	
_____	(1) 5/16" - 18 Battery Shoulder Nut	
_____	(1) M6 SS Serrated Flange Head Nut	

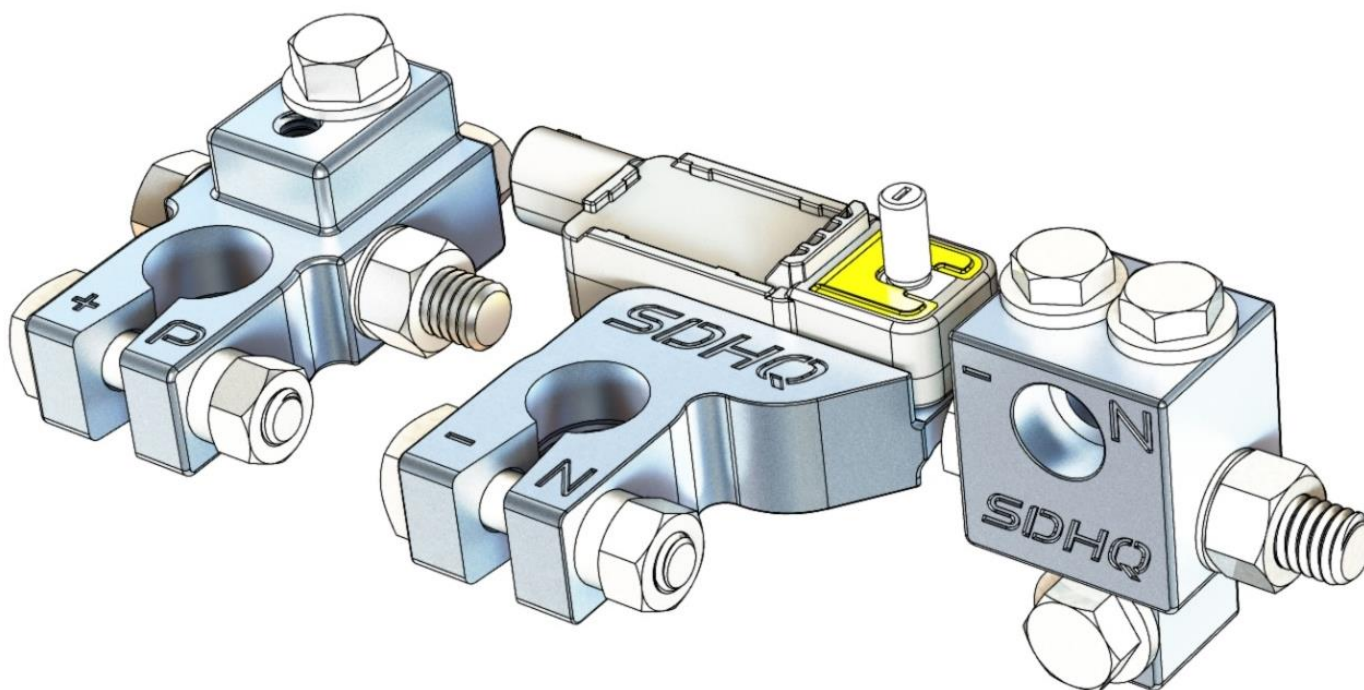


SDHQ Motorsports
 190 S McQueen Rd
 Ste 109 Gilbert, AZ 85233
 Phone: 480-633-2929

INSTALLATION INSTRUCTIONS

Product: SDHQ-13-3003-G14

Description: 2021-current Ford F150/Raptor Complete Billet Battery Terminal/Distribution Kit



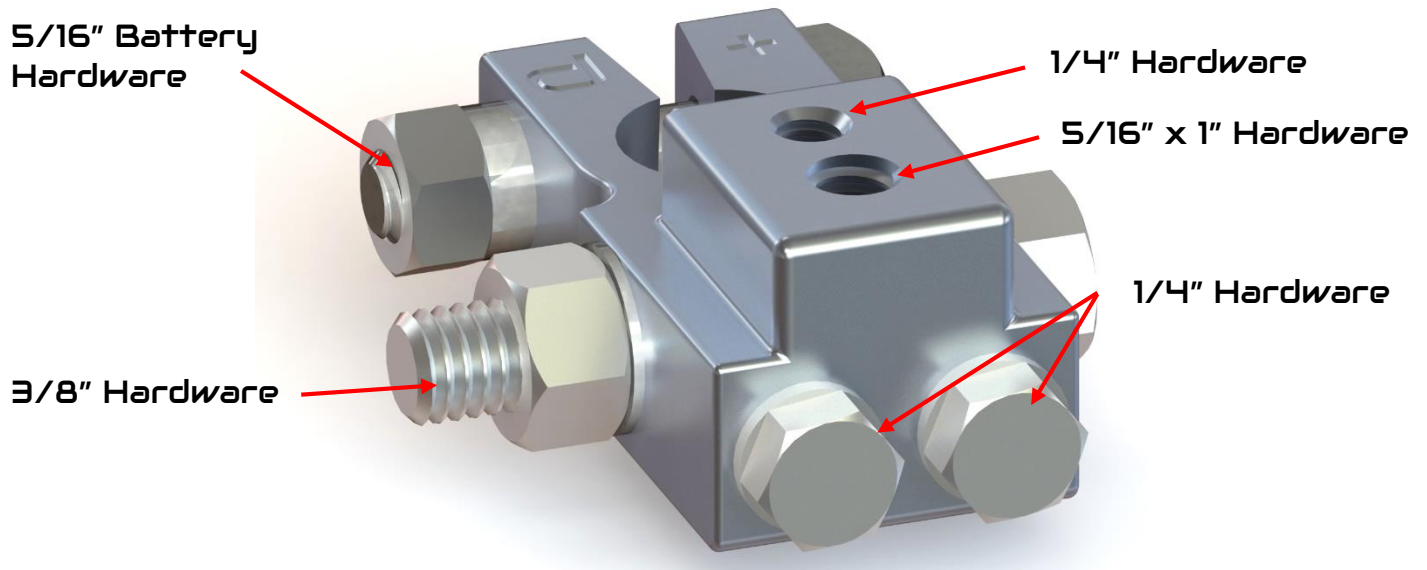
<u>Parts List</u>	<u>Hardware List</u>	<u>Required Tools</u>
(1) SDHQ Billet Battery Distribution Kit SDHQ-02-3003-D2 (1) SDHQ Negative Sensor Terminal Kit SDHQ-02-3003-TS1 (1) SDHQ 18" 4 AWG Negative Wire SDHQ-02-3304-B18-15 (1) SDHQ 1-2GA Lugs & Heat Shrink SDHQ-02-3802 <u>OR</u> SDHQ-02-3701 (1) Hardware Package SDHQ-02-3304-B18-HP	(1) M6 - 1.0 x 35mm S.S. Socket Head Bolt (1) 1/4" S.S. "AN" Washer	7/16", 1/2", 9/16" Sockets 10mm, 12mm Sockets 5mm Hex Key Ratchet 9/16" Wrench Rubber Mallet Pliers E16 Torx Socket

Tech Notes

Apply Anti-Seize to all hardware.
 Follow the Torque Specifications on the bottom of Page 5.
 See **SDHQ-02-37(01/04/10)** for (1-2GA, 4-6GA, 1/0GA) Solder Lug Kits.
 See **SDHQ-02-38(02/04/06/10)** for (1-2GA, 4GA, 6GA, 1/0GA) Compression Lug Kits.
Approx. Install Time: 1 Hour

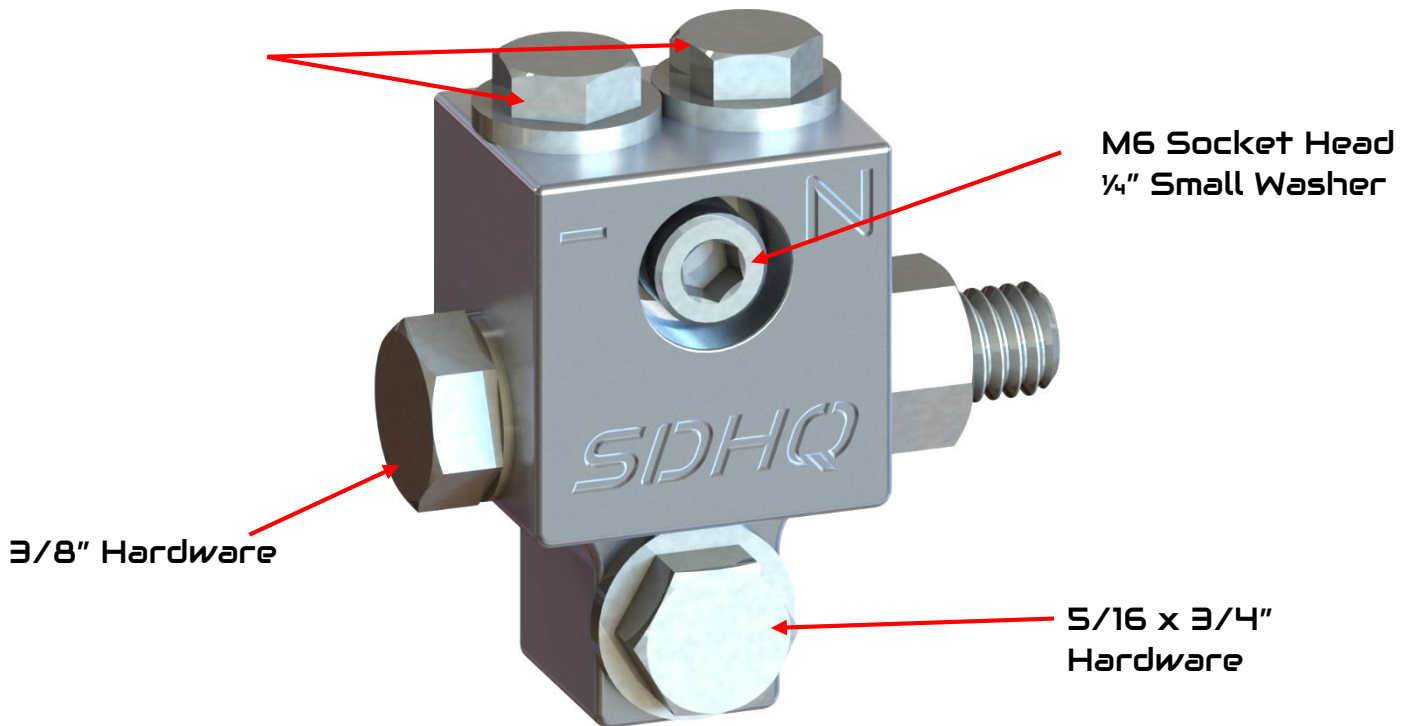
For questions or help with the installation, please email help@sdhqoffroad.com
 Store front hours: Mon. – Fri. 8:00am – 5:30pm and Sat. 9:00am – 2:00pm Arizona Time.

SDHQ Positive Battery Terminal



SDHQ Negative Distribution Block

1/4" Hardware



*****READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION!*****

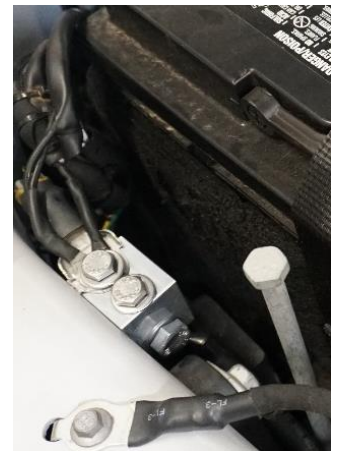
Installation Instructions:

1. Unbox your SDHQ Built Complete Billet Battery Terminal Kit and check over all parts. Familiarize yourself with the parts and diagrams above.
2. **Disconnecting Battery.** Disconnect the stock negative battery terminal using 10mm socket. Removing all wires from the negative terminal and unplug the Bosch BMS (battery management sensor). Remove the terminal from the BMS using a E16 Torx socket and discard factory terminal. Disconnect the factory positive battery terminal using 10mm socket. Remove all wire terminals from the factory positive battery terminal and discard the factory terminal.
3. **TS1 Install.** Add the 5/16" battery bolt to the terminal and attach the TS1 Terminal to the BMS using the supplied stainless M6 flange head nut. Place the battery post washer on the negative terminal with the TS1 over it. Using a rubber mallet, tap the terminal to help it seat on the battery post. Tighten the 5/16" battery hardware once you're happy with terminal location. Leave grounds disconnected for now.



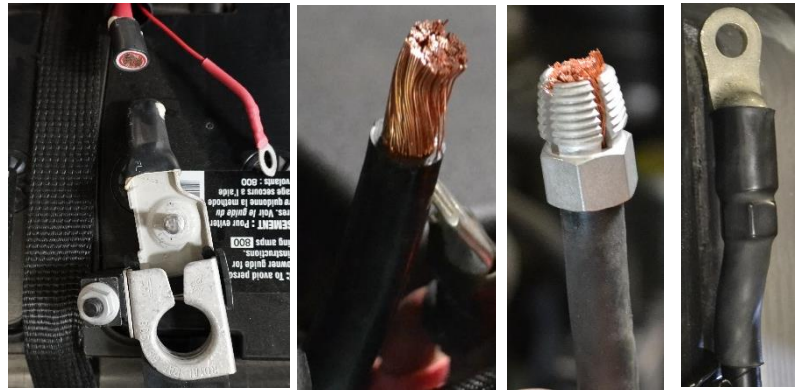
4. **Installing the Negative Distribution Block.** Locate the 10mm ground bolt in front of the battery, and remove. Position the negative terminal block as shown below and secure with supplied M6 socket head bolt and 1/4" "AN" washer. Secure the larger 5/16" hole on the 18" 4GA Ground wire to the Negative Terminal Block. Attach any other accessories to the ground block and tighten all hardware.

5. **Installing SDHQ Lugs.** Using wire cutters, cut the factory positive terminal off, leaving as much wire as possible and discard the factory terminal. Strip 1" of insulation off the positive wire. Slide the heat shrink over the wire. Be mindful of the orientation of the lug for ease of wiring to the terminals next. For Compression Lugs (shown below): Slide the compression end



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

of the 1-2GA lug over the striped wire. Using the 9/16" wrench and pliers, tighten the compression lug until it is snug. **Be cautious not to over tighten as the threads can strip.** Secure the heat shrink over the lug. **For Solder Lugs:** Using pliers, securely grab the ring end of the solder lug. Heat the solder in the lug until the solder is liquid. Cautiously insert the stripped wire into the solder lug and allow to cool before proceeding. Secure the heat shrink over the lug.



- 6. Installing the Positive Battery Terminal.** Secure the SDHQ Lug installed on Step 4 to the battery terminal as shown. Remove the electrical tape securing the wire to the battery tray. Place the Red Post Washer and SDHQ Positive Battery Terminal on top of the positive battery post. 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 1/2" wrenches on both to prevent damaging the battery post. Use the top 1/4" or 5/16" hole for factory wiring.
- 7. Connecting Negative Terminal.** Install the smaller 1/4" hole on the 32" 2GA Ground Wire and the factory ground cable and secure with supplied M6 Flange Nut.



Torque Specifications

1. Torque the M6 and 1/4" bolts to 4 ft-lb. Torque the 5/16" hardware to 8 ft-lb. Torque the 3/8" hardware to 18 ft-lb. M8 – 1.25 x 30mm Socket Head Bolt will not be used.



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

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



190 S McQueen Rd
Ste 109 Gilbert, AZ 85233
www.sdhqoffroad.com

Follow us on:



Facebook



Instagram

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