



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

Product Packing List

Product: *SDHQ-13-3003-G13-1(S/C)*

Description: SDHQ Built 15'-20' Ford F-150 & 17'-20' Ford Raptor Billet Battery Terminal and Distribution Kit Style 1

- | | |
|--|------------------|
| _____ (1) SDHQ Billet Battery Terminal Kit | SDHQ-02-3003-C2 |
| _____ (1) SDHQ 1-2 GA Lug & Heat Shrink | |
| ○ Compression Lug | SDHQ-02-3802 |
| | <u>OR</u> |
| ○ Solder Lugs | SDHQ-02-3701 |

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

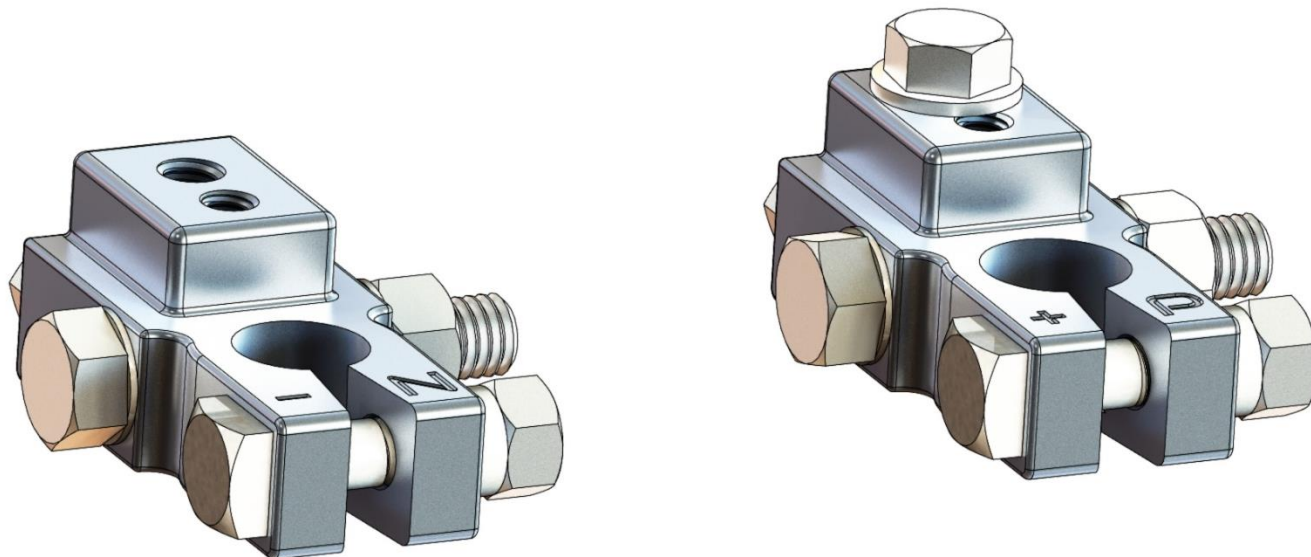
Included in **SDHQ-02-3003-C2**

_____	(1) Billet Positive Battery Terminal	SDHQ-02-3003-T2-P-Rev2
_____	(1) Billet Negative Battery Terminal	SDHQ-02-3003-T2-N-Rev2
_____	(1) SDHQ 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) Red Post Washer	
_____	(1) Black Post Washer	
_____	(2) 5/16" - 18 x 1 1/2" Battery Terminal Bolt	
_____	(2) 5/16" - 18 Battery Shoulder Nut	
_____	(6) 1/4" - 20 x 1/2" S.S. Hex Head Bolt	
_____	(6) 1/4" 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	

INSTALLATION INSTRUCTIONS

Product: SDHQ-13-3003-G13-1(S/C)

Description: SDHQ Built 15'-20' Ford F-150 & 17'-20' Ford Raptor Billet Battery Terminal and Distribution Kit Style 1

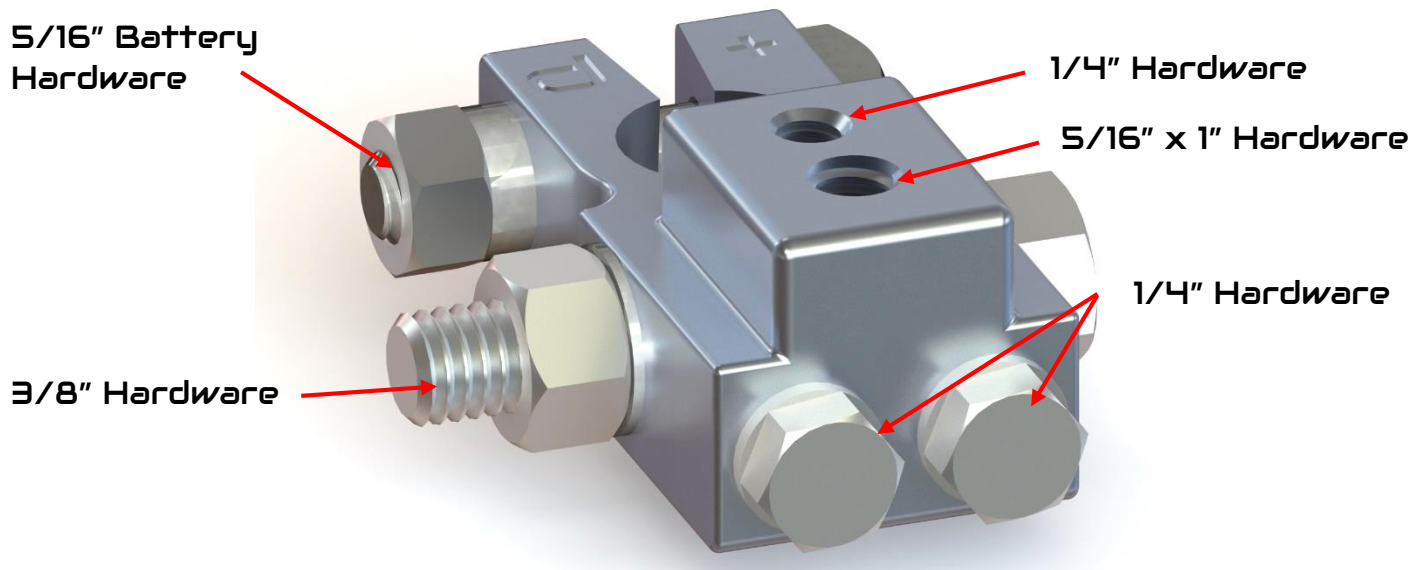


<u>Parts List</u>	<u>Hardware List</u>	<u>Required Tools</u>
(1) Billet Battery Terminal Kit SDHQ-02-3003-C2 (1) 1-2g Compression Lug Kit SDHQ-02-3802 <u>or</u> (1) 1-2g Solder Lug Kit SDHQ-02-3702	N/A	7/16", 1/2", 9/16" Sockets/wrenches 10mm, 12mm 13mm Sockets/wrenches Ratchet 9/16" Wrench Rubber Mallet Pliers/Wire Cutter Torch

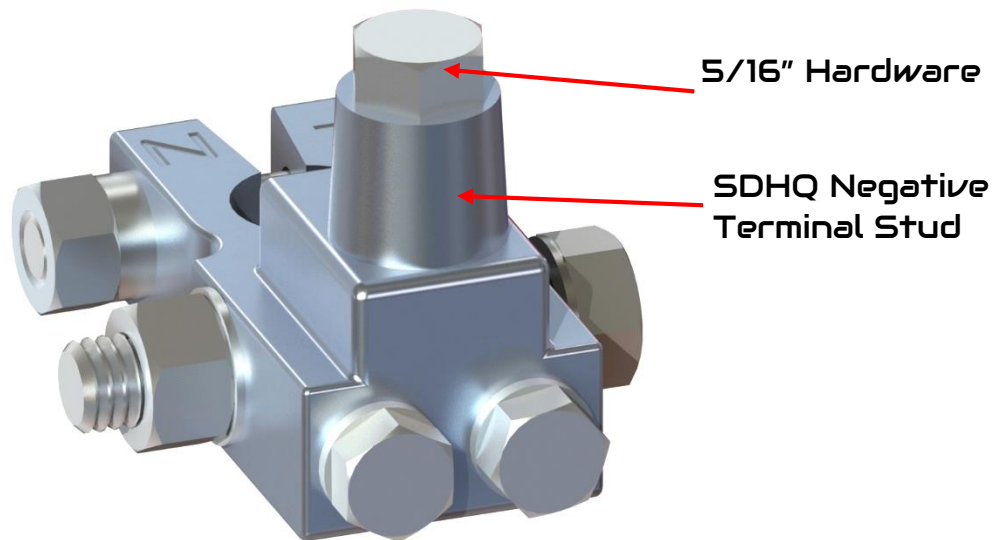
Tech Notes

Apply Anti-Seize to all stainless hardware.
 Follow the Torque Specifications on the bottom of Page 6.
 Fits **2017-2020 Ford Raptor** and **2015-2020 Ford F-150** with Style 1 Battery Sensors.
 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

SDHQ Positive Battery Terminal



SDHQ Negative Battery Terminal (with Stud)



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

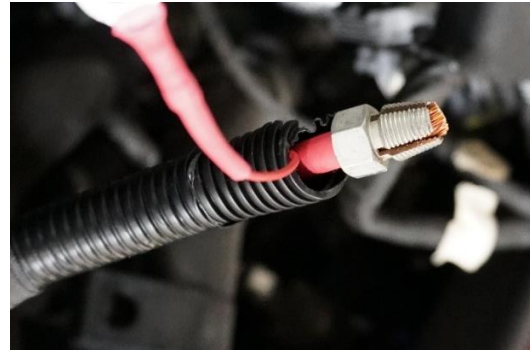
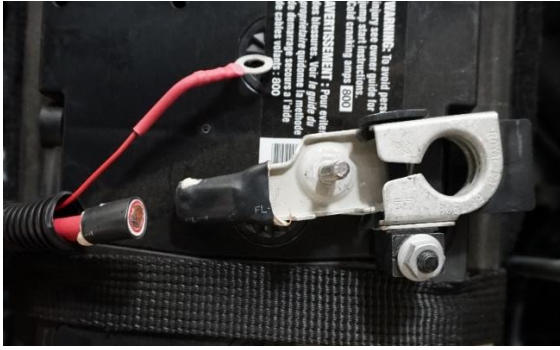
For questions or help with the installation, please email help@sdhqoffroad.com
Mon.–Fri. 8:00am–5:30pm and Sat. 8:00am–3:30pm Arizona Time. www.sdhqoffroad.com

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 on Page 4. Shown to the right is the **Style 1 Battery Sensor** this kit is designed for.
2. Disconnect the factory negative wires from the terminal using a 10mm socket. Next remove the negative terminal from the battery using a 10mm socket. Set the negative terminal aside to be replaced. Disconnect the factory positive battery terminal using 10mm socket. Disconnect any positive wires mounted to the stock terminal.
3. **Installing the Negative Terminal.** Place the Black Post Washer and SDHQ Negative 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 ½" wrenches on both to prevent damaging the battery post.
4. **Installing the Positive Terminal.** 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 ½" wrenches on both to prevent damaging the battery post. Follow the positive wires to where they are zip tied at the bottom of the battery box and clip the tie to provide more working room in the next step of installation.



5. The factory positive wire connected to the terminal will need to be cut and have a compression lug attached to the end. Cut the wire as shown below, stripping enough jacketing to fit the compression lug nut. Tighten the compression lug to the nut securing the lug to the wire. Use the supplied heat shrink to protect the compression lug connection.



6. Connect the main wire using the 1/4" hardware on the back of the positive terminal. Connect any other factory wires or accessories to the terminal as needed. Tighten all hardware then install the SDHQ Positive Terminal Boot.



7. Connect all negative wires to the negative terminal and place the black SDHQ terminal boot on top. Enjoy your new SDHQ Built Raptor/F-150 Billet Battery Terminal Kit!

Torque Specifications

1. Torque the 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.

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

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



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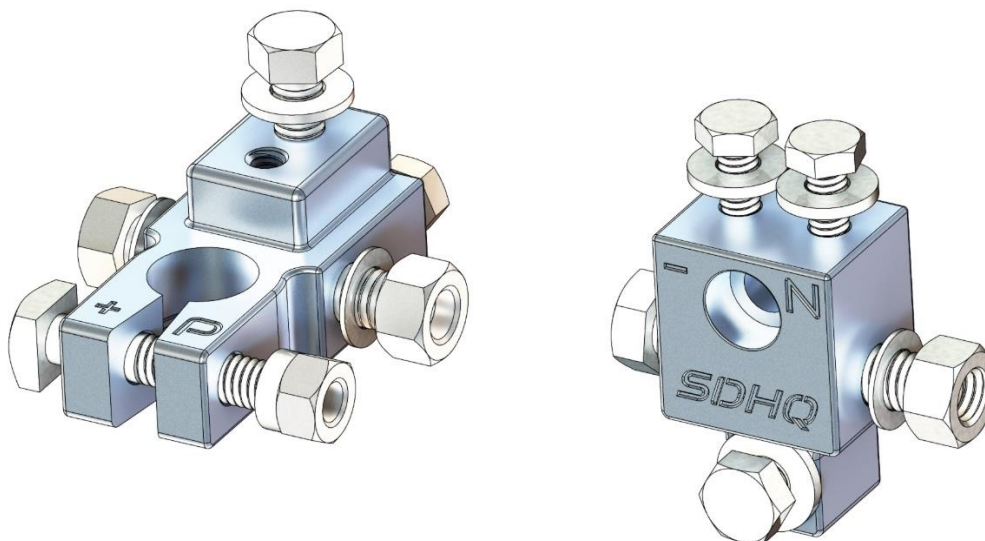
Included in **SDHQ-02-3003-D2**

_____	(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	

INSTALLATION INSTRUCTIONS

Product: SDHQ-13-3003-G13-2(S/C)

Description: SDHQ Built 15'-20' Ford F-150 & 17'-20' Ford Raptor Billet Battery Terminal and Distribution Kit Style 2



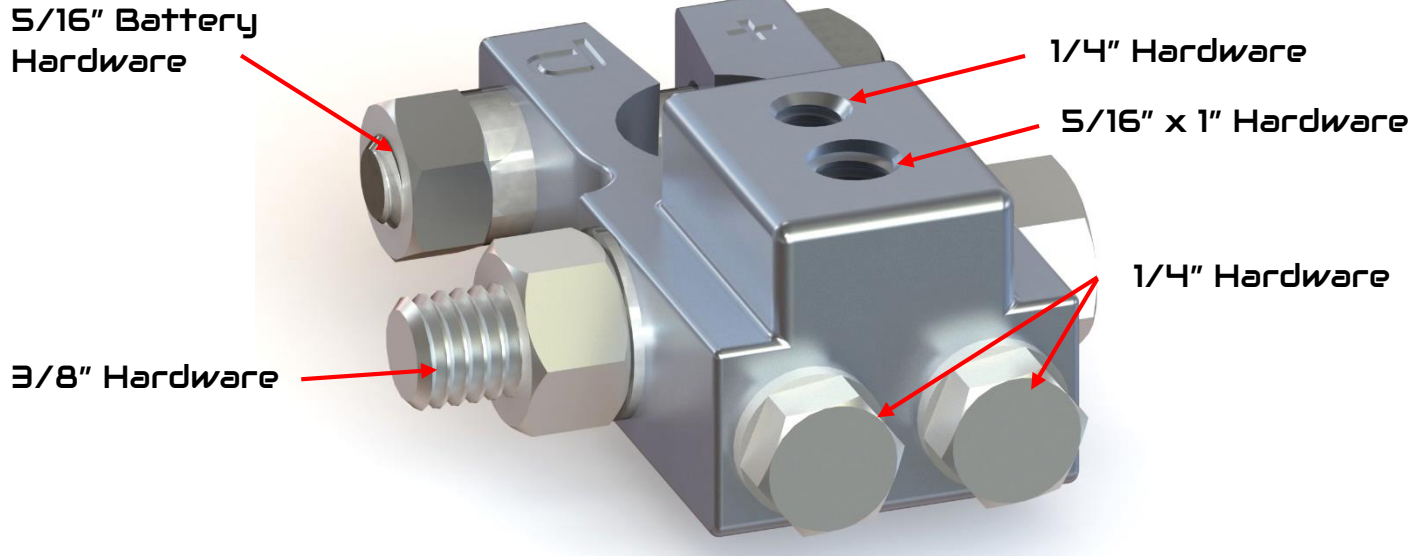
Parts List	Hardware List	Required Tools
(1) Billet Terminal/Distribution Kit SDHQ-02-3003-D2 (1) 1-2g Compression Lug Kit SDHQ-02-3802 <u>or</u> (1) 1-2g Solder Lug Kit SDHQ-02-3702 (1) 18" 4 AWG Negative Wire SDHQ-02-3304-B18-35 (1) Distribution Block Mount SDHQ-13-3003-G13-A (1) Hardware Kit SDHQ-13-3003-G13-HP	(1) Plastic Spacer 1" OD .5" ID 1" Tall (1) 10-24 Clip On Barrel But (1) 10-24 SS Button Head Bolt 1" (1) M8 x 1.25 Hex Head Bolt 60mm (1) M8 - 1.25 Nut (1) #10 Over Sized SS Washer (2) M8 Washer	7/16", 1/2", 9/16" Sockets/wrenches 10mm, 12mm 13mm Sockets/wrenches Ratchet 9/16" Wrench 6mm Hex Key Rubber Mallet Pliers Panel Removal Tool

Tech Notes

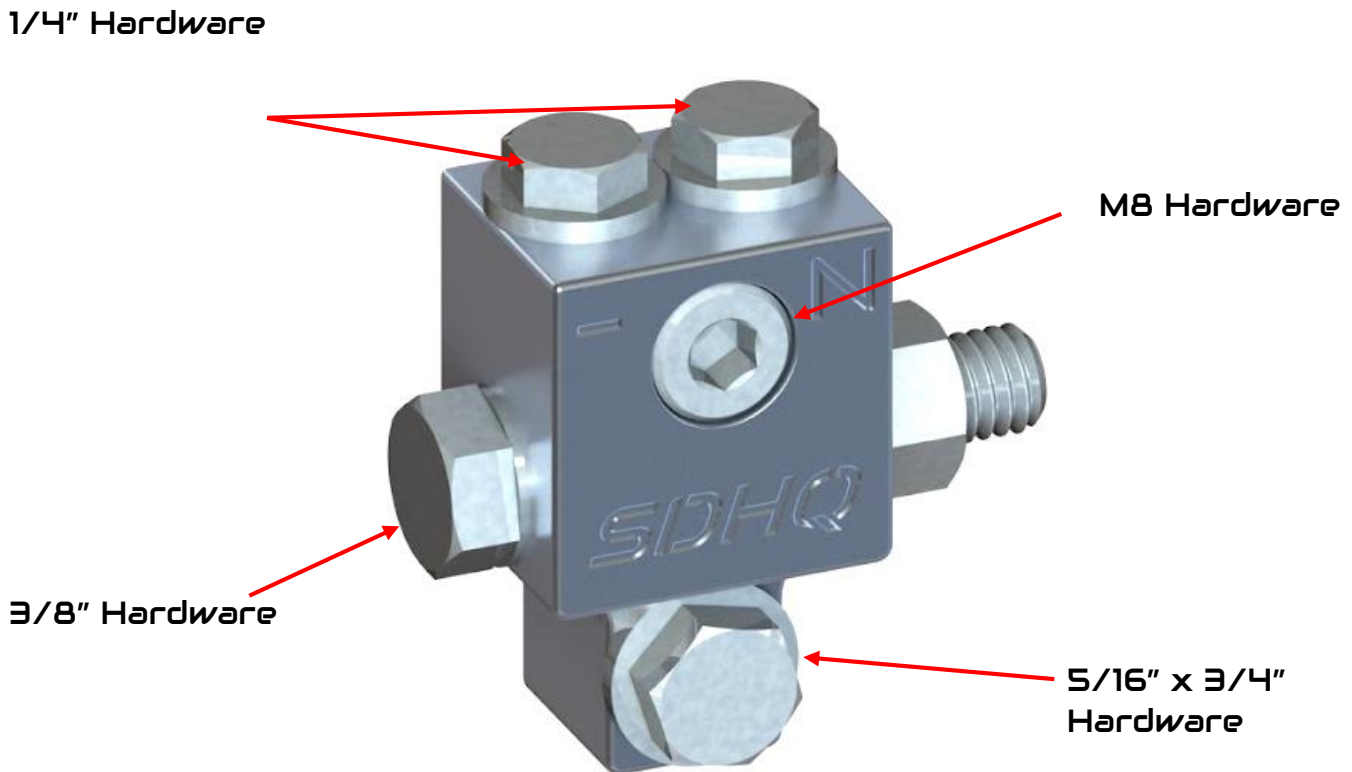
Apply Anti-Seize to all stainless hardware.
 Follow the Torque Specifications on the bottom of Page 7.
 Fits **2017-2020 Ford Raptor** and **2015-2020 Ford F-150**
 See **SDHQ-02-37(01/04/10)** for (1-2GA, 4-6GA, 1/0GA) Solder Lug Kits.
 See **SDHQ-02-38(02/04/06/10)** for (1-2GA, 4GA, 6GA, 1/0GA) Compression Lug Kits.
Approx. Install Time: 1 Hour

For questions or help with the installation, please email help@sdhqoffroad.com
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SDHQ Positive Battery Terminal (without Stud)



SDHQ Negative Distribution Block



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

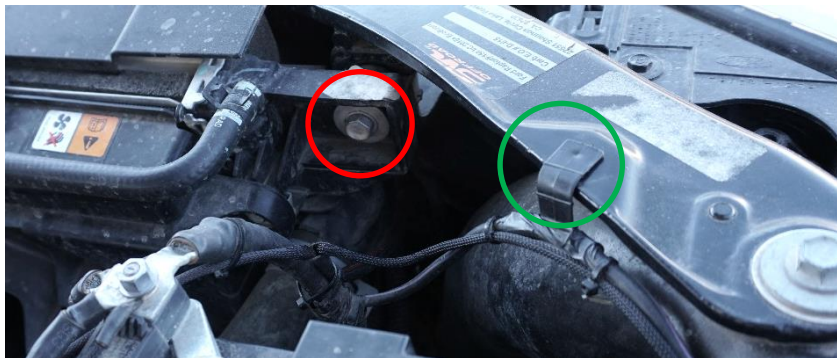
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Installation Instructions:

8. Unbox your SDHQ Built Complete Billet Battery Terminal Kit and check over all parts. Familiarize yourself with the parts and diagrams above on Page 4. Shown to the right is the **Style 2 Battery Sensor** this kit is designed for.
9. Disconnect the factory negative wires from the terminal sensor using a 13mm socket. Leave the negative terminal on the battery as it will not be replaced. Disconnect the factory positive battery terminal using 10mm socket. Disconnect any positive wires mounted to the stock terminal.



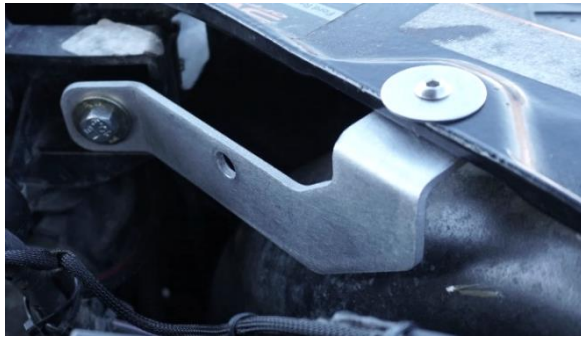
10. **Installing the Negative Distribution.** Start by removing the 13mm radiator support bolt shown in red and set it aside. Pull out the push in clip holding the ground wire to the core support shown in green using a plastic panel removal tool.



11. Attach the supplied #10 clip on nut to the distribution block mount as shown. Then using supplied M8 bolt spacer attach the mount to the radiator support, leaving the bolt slightly loose for adjustment. The spacer will go between the mount and the radiator support.



12. Next using the #10 hardware secure the distribution block mount to the core support. Tighten the M8 bolt from the previous step after the #10 hardware is installed. Add the XX" ground cable to the D2 Block using the 5/16" eyelet.



13. Using the M8 socket head from the 02-3003-D2 kit, attach the Distribution Block to the mount and secure using the supplied M8 flange head nut. Connect the terminal sensor the billet sensor terminal (02-3003-TS1) using the supplied M6 stainless nut. Then install the sensor terminal on the negative stud placing a black terminal washer down first. 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. Leave the negative wires disconnected for now.

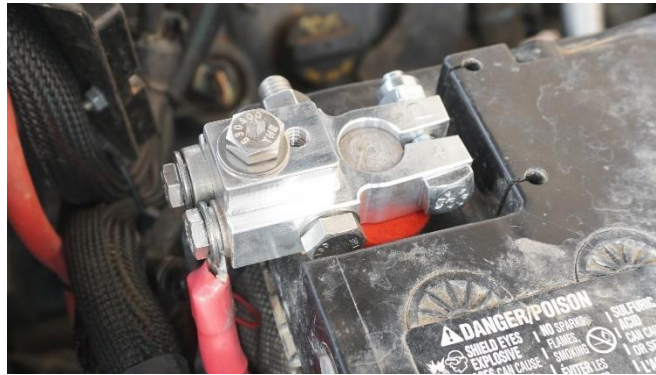


14. **Installing the Positive Terminal.** Place the Red Post Washer and SDHQ Positive Battery Terminal on top of the positive battery post. Lightly tap on the top of the terminal using a rubber mallet to set it on the battery post. Tighten the 5/16" Battery Bolt and Nut using 1/2" wrenches on both to prevent damaging the battery post.

15. The factory positive wire connected to the terminal will need to be cut and have a compression lug attached to the end. Cut the wire as shown below, stripping enough jacketing to fit the compression lug nut. Tighten the compression lug to the nut securing the lug to the wire. Use the supplied heat shrink to protect the compression lug connection.



16. Connect the main wire using the 1/4" hardware on the back of the positive terminal. Connect any other factory wires or accessories to the terminal as needed. Tighten all hardware then install the SDHQ Positive Terminal Boot.



17. Connect all negative wires to the negative terminal. Enjoy your new SDHQ Built Raptor/F-150 Billet Battery Terminal and Distribution Kit!



Torque Specifications

2. Torque the 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. Torque M8 – 1.25 x 30mm Socket Head Bolt to 16 ft-lb.

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

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



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Product Packing List

Product: *SDHQ-13-3003-G13-3(S/C)*

Description: SDHQ Built 15'-20' Ford F-150 & 17'-20' Ford Raptor Billet Battery Terminal and Distribution Kit Style 3

_____ (1) SDHQ Billet Terminal Sensor Kit	SDHQ-02-3003-TS1
_____ (1) SDHQ Billet Battery Distribution Kit	SDHQ-02-3003-D2
_____ (1) SDHQ 1-2 GA Lug & Heat Shrink	
○ Compression Lug	SDHQ-02-3802
	<u>OR</u>
○ Solder Lugs	SDHQ-02-3701
_____ (1) 18" 4 AWG Negative Wire	SDHQ-02-3304-B18-35
_____ (1) Hardware Package	SDHQ-13-3003-G13-HP
_____ (1) Distribution Block Mount	SDHQ-13-3003-G13-A
_____ (1) Plastic Spacer 1" OD .5" ID 1" Tall	
_____ (1) 10-24 Clip On Barrel But	
_____ (1) 10-24 x 1" SS Button Head Bolt	
_____ (1) M8 - 1.25 65mm SS Hex Head Bolt	
_____ (1) M8 - 1.25 SS Flange Head Nut	
_____ (1) #10 Over Sized SS Washer .688" OD	
_____ (1) M8 Washer SS 15mm OD	

Inspected and Packaged By: _____ Date: _____

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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	

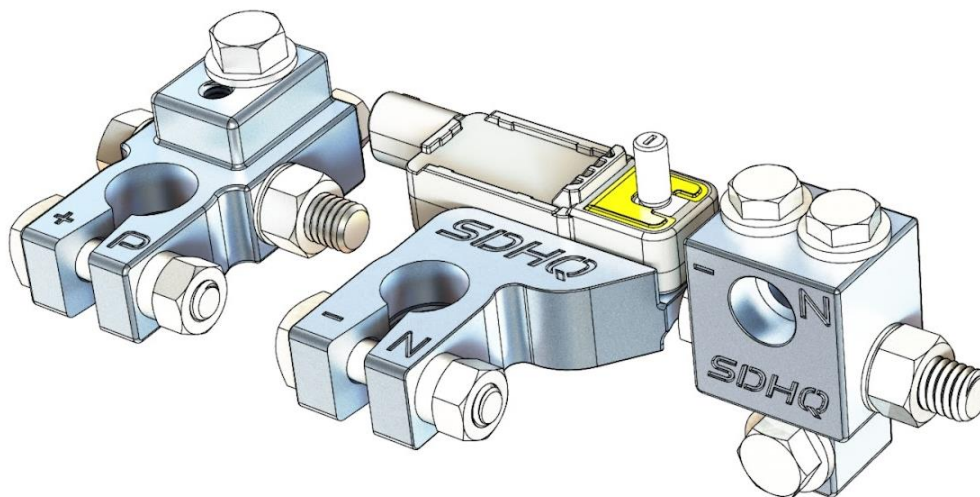
Included in **SDHQ-02-3003-TS1**

_____	(1) Billet Negative Sensor Terminal	SDHQ-02-3003-TS1
_____	(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	

INSTALLATION INSTRUCTIONS

Product: SDHQ-13-3003-G13-3(S/C)

Description: SDHQ Built 15'-20' Ford F-150 & 17'-20' Ford Raptor Billet Battery Terminal and Distribution Kit Style 3



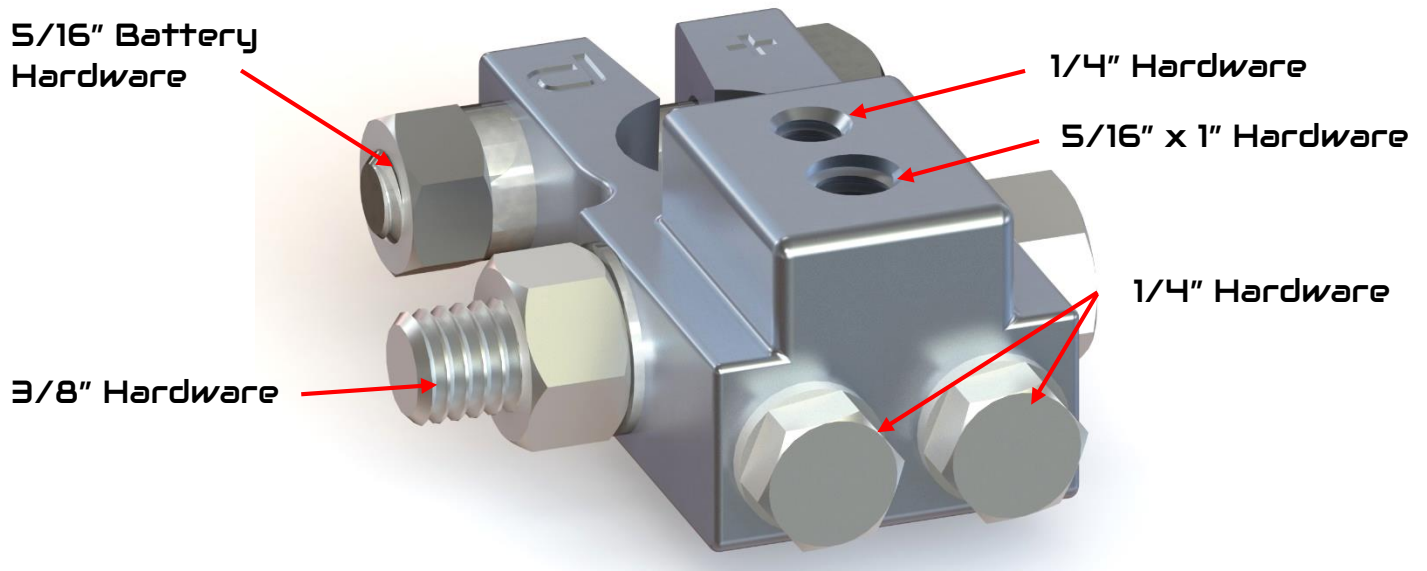
<u>Parts List</u>	<u>Hardware List</u>	<u>Required Tools</u>
(1) Billet Terminal Sensor Kit SDHQ-02-3003-TS1 (1) Billet Terminal/Distribution Kit SDHQ-02-3003-D2 (1) 1-2g Compression Lug Kit SDHQ-02-3802 <u>or</u> (1) 1-2g Solder Lug Kit SDHQ-02-3702 (1) 18" 4 AWG Negative Wire SDHQ-02-3304-B18-35 (1) Distribution Block Mount SDHQ-13-3003-G13-A (1) Hardware Kit SDHQ-13-3003-G13-HP	(1) Plastic Spacer 1" OD .5" ID 1" Tall (1) 10-24 Clip On Barrel But (1) 10-24 SS Button Head Bolt 1" (1) M8 x 1.25 SS Hex Head Bolt 65mm (1) M8 - 1.25 SS Flange Head Nut (1) #10 Over Sized SS Washer .688" OD (1) M8 Washer SS 15mm OD	7/16", 1/2", 9/16" Sockets/wrenches 10mm, 12mm 13mm Sockets/wrenches Ratchet 9/16" Wrench 6mm Hex Key Rubber Mallet Pliers Panel Removal Tool

Tech Notes

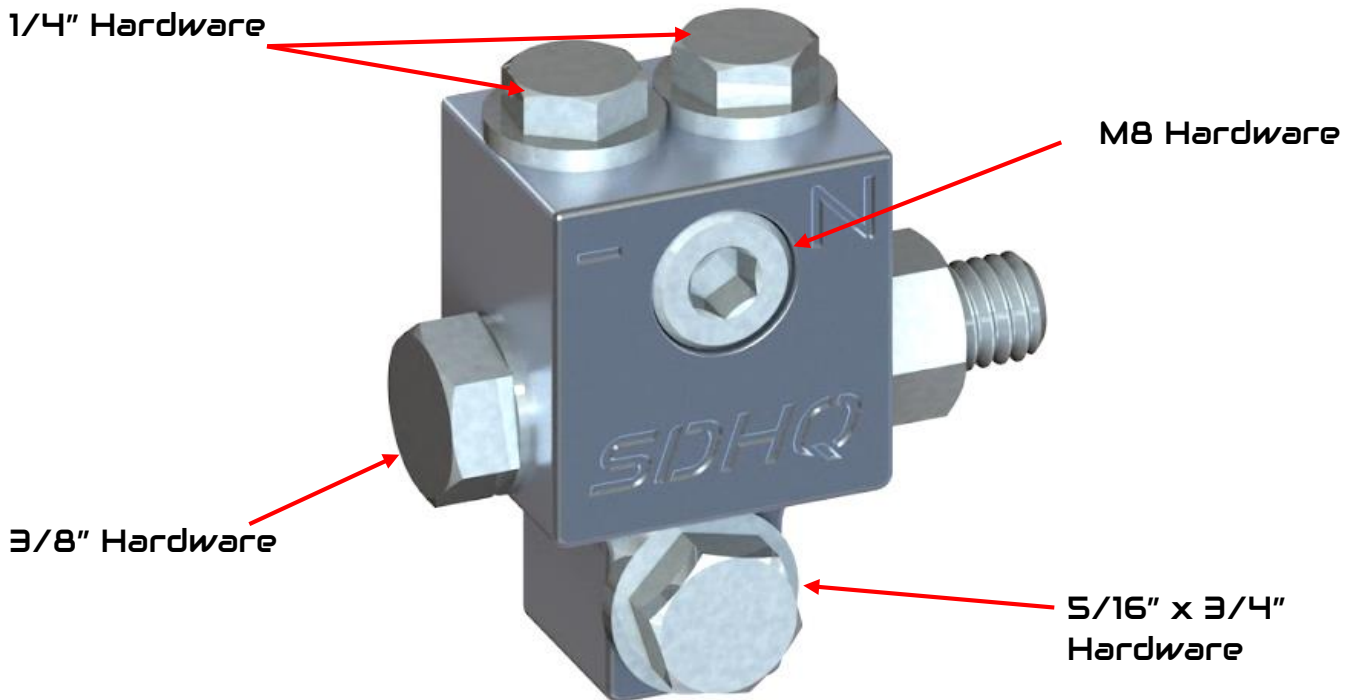
Apply Anti-Seize to all stainless hardware.
 Follow the Torque Specifications on the bottom of Page 7.
 Fits **2017-2020 Ford Raptor** and **2015-2020 Ford F-150**
 See **SDHQ-02-37(01/04/10)** for (1-2GA, 4-6GA, 1/0GA) Solder Lug Kits.
 See **SDHQ-02-38(02/04/06/10)** for (1-2GA, 4GA, 6GA, 1/0GA) Compression Lug Kits.
Approx. Install Time: 1 Hour

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SDHQ Positive Battery Terminal (without Stud)



SDHQ Negative Distribution Block



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

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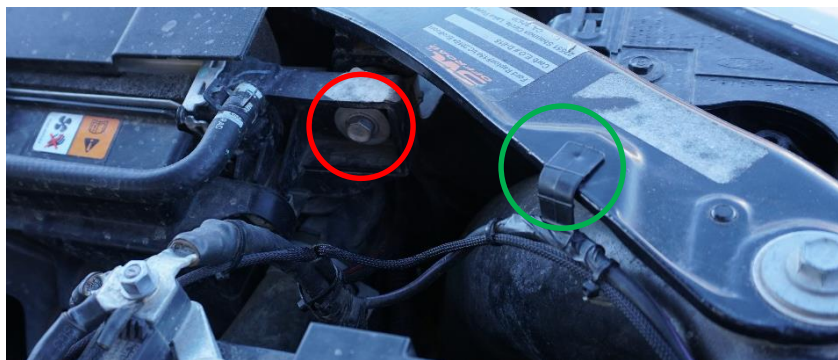
Installation Instructions:

18. Unbox your SDHQ Built Complete Billet Battery Terminal Kit and check over all parts. Familiarize yourself with the parts and diagrams above on Page 4. Shown to the right is the **Style 3 Battery Sensor** this kit is designed for.

19. Disconnect the factory negative wires from the terminal sensor using a 10mm socket. Next remove the negative terminal from the battery using a 10mm socket. Remove the terminal from the terminal sensor using an E16 socket. Set the negative terminal aside to be replaced. Disconnect the factory positive battery terminal using 10mm socket. Disconnect any positive wires mounted to the stock terminal.



20. Installing the Negative Terminals. Start by removing the 13mm radiator support bolt shown in red and set it aside. Pull out the push in clip holding the ground wire to the core support shown in green using a plastic panel removal tool.



21. Attach the supplied #10 clip on nut to the distribution block mount as shown. Then using supplied M8 bolt spacer attach the mount to the radiator support, leaving the bolt slightly loose for adjustment. The spacer will go between the mount and the radiator support.



22. Next using the #10 hardware secure the distribution block mount to the core support. Tighten the M8 bolt from the previous step after the #10 hardware is installed. Add the 18" ground cable to the D2 Block using the 5/16" eyelet.

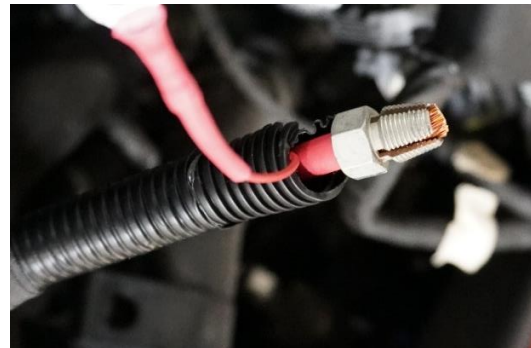
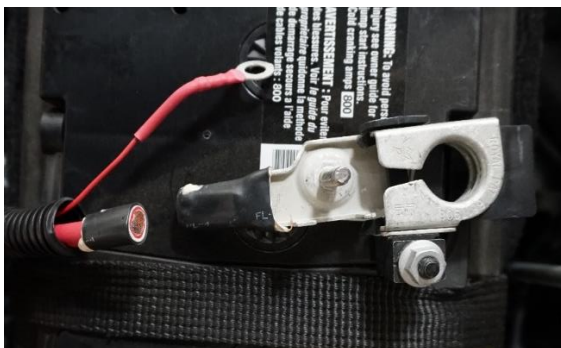


23. Using the M8 socket head from the 02-3003-D2 kit, attach the Distribution Block to the mount and secure using the supplied M8 flange head nut. Connect the terminal sensor the billet sensor terminal (02-3003-TS1) using the supplied M6 stainless nut. Then install the sensor terminal on the negative stud placing a black terminal washer down first. 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. Leave the negative wires disconnected for now.



24. **Installing the Positive Terminal.** 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.

25. The factory positive wire connected to the terminal will need to be cut and have a compression lug attached to the end. Cut the wire as shown below, stripping enough jacketing to fit the compression lug nut. Tighten the compression lug to the nut securing the lug to the wire. Use the supplied heat shrink to protect the compression lug connection.

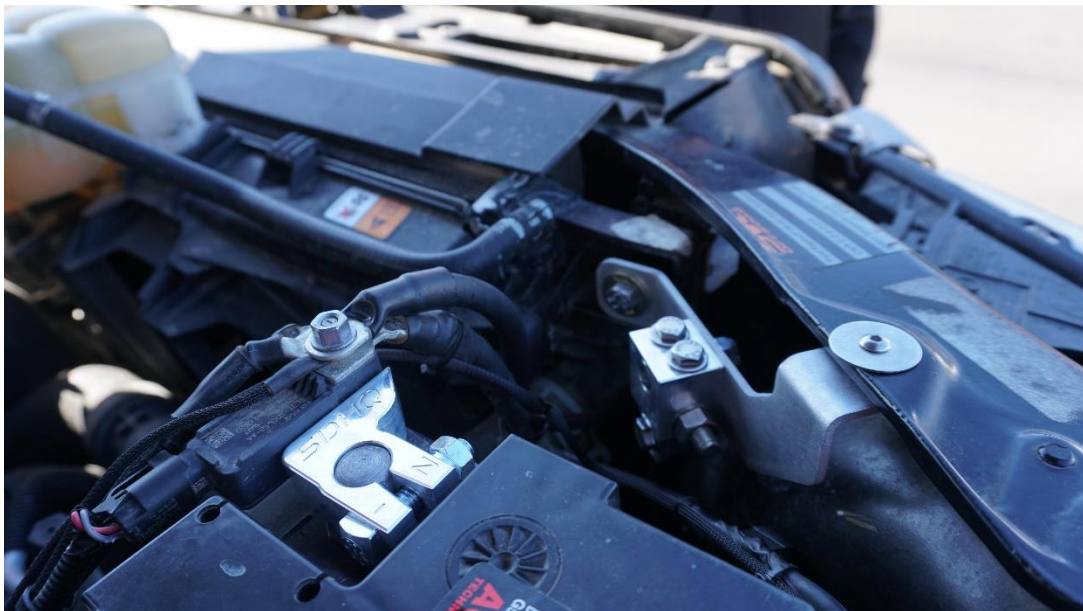


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Mon.–Fri. 8:00am–5:30pm and Sat. 8:00am–3:30pm Arizona Time. www.sdhqoffroad.com

- 26.** Connect the main wire using the 1/4" hardware on the back of the positive terminal. Connect any other factory wires or accessories to the terminal as needed. Tighten all hardware then install the SDHQ Positive Terminal Boot.



- 27.** Connect all negative wires to the negative terminal and place the black SDHQ terminal boot on top. Enjoy your new SDHQ Built Raptor/F-150 Billet Battery Terminal and Distribution Kit!



Torque Specifications

- 3.** Torque the 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. Torque the M8 – 1.25 x 30mm Socket Head Bolt to 16 ft-lb.

Double check all hardware is installed correctly and tight

Re-torque ALL bolts after 100 miles



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