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IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS

A7728

HIDDEN POWER

APPLICATION:

2008-2012 FORD F250/F350/F450 with Battery Box

A7728 INVENTORY LIST

- | | |
|--|--|
| 1- Frame Plate | 1- Side Gusset |
| 1- Bent Hook Bracket | 1- Battery Tray |
| 1- L Spacer | 1- Plastic Battery Box |
| 1- 3/8"-16 x 1-1/2" Hex Bolt | 3- 3/8"-16 Flanged Nylock Nuts |
| 1- 1/2"-13 x 3" Hex Bolt | 1- 1/2"-13 x 2" Hex Bolt |
| 2- 1/2" Washer SAE | 2- 1/2" Lock Washer |
| 2- 1/2"-13 Hex Nut | 1- 1"(2cm) x 2"(5cm) Plate Washer |
| 4- 1/4"-20 x 3/4" Hex Bolt | 4- 1/4" Lock Washer |
| 4- 1/4" Washer USS | 4- 1/4" Fender Washer |
| 4- 1/4"-20 Hex Nut | 1- 3/8" Washer USS |
| 2- 50A Quick Disconnect Power Connector | |

Installation:

Locate and inventory all parts to become familiar with all brackets. Read and understand all instructions prior to installation. Make sure the vehicle is in park, on a level surface and wheels are chocked before starting the installation.

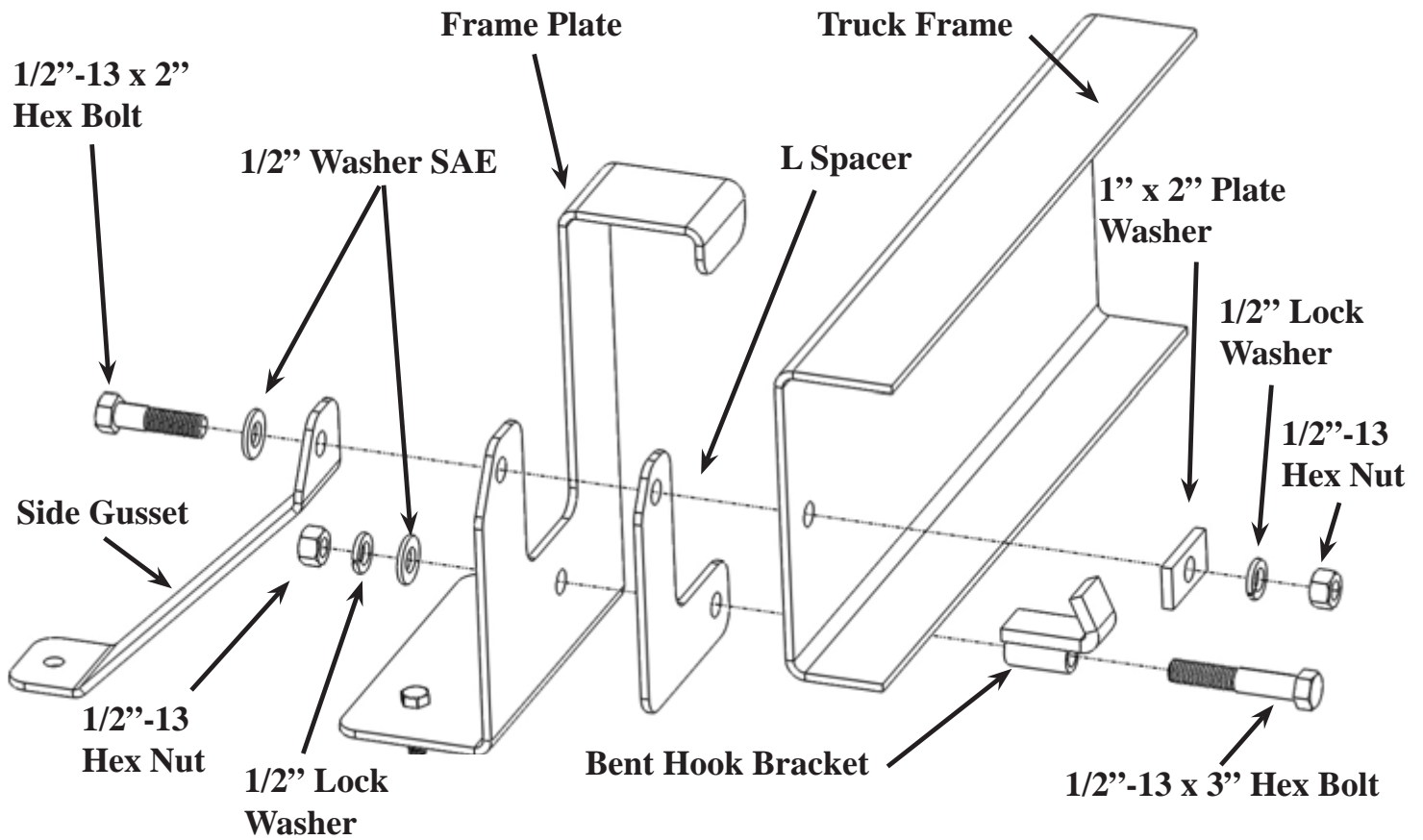
Step 1-

Starting on your passenger side. If your vehicle is equipped with TorkLift front tie downs, remove the rear most bolt on the tie down. Hook the **Frame Plate** over the frame just to the front of the passenger side leaf spring hanger. The **Frame Plate** should wrap over the front edge of the leaf spring hanger and the frame. The right side arm of the **Frame Plate** has a hole that lines up with the hole in the frame.

Step 2-

Install the **1/2"-13 x 2" Hex Bolt** with **1/2" Washer SAE** through the **Side Gusset**, right arm of the **Frame Plate**, tie down, and vehicle frame. If you vehicle is not equipped with TorkLift front tie downs, you will need to slide the included **L Spacer** between the frame and the **Frame Plate** as shown in **Figure 2.1**. Install a **1"(2cm) x 2"(5cm) Plate Washer**, **1/2" Lock Washer**, and **1/2"-13 Hex Nut** onto the bolt from the opposite side of the frame. Leave the nut finger tight at this time.

Figure 2.1



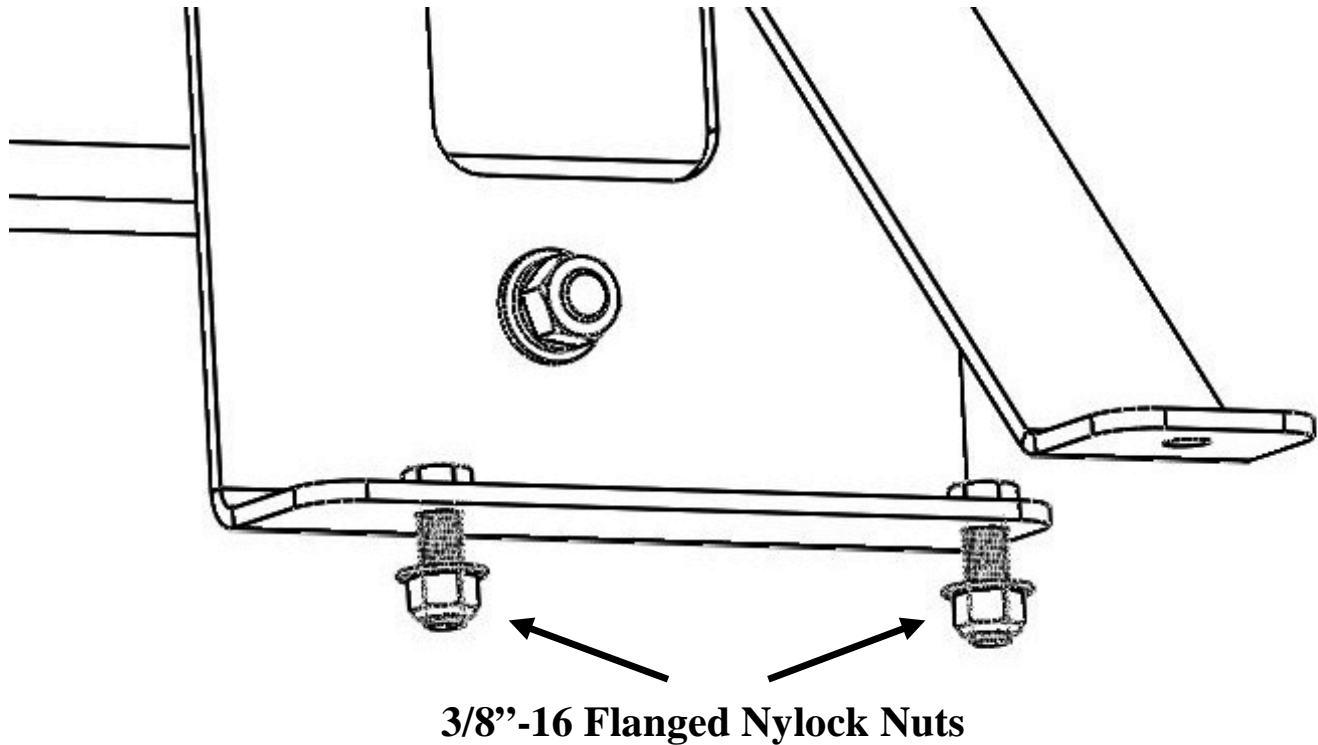
Step 3-

Install the **1/2"-13 x 3" Hex Bolt** through the **Bent Hook Bracket** and **Frame Plate** as shown in **Figure 2.1**. Secure with a **1/2" Washer SAE**, **1/2" Lock Washer**, and **1/2"-13 Hex Nut**. Torque to 35 Ft-Lbs.(47nm)

Step 4-

Install a **3/8"-16 Flanged Nylock Nut** onto the bottom of each **3/8" Frame Plate** stud. Leave approximately **3/8"** between the **3/8"-16 Flanged Nylock Nut** and **Frame Plate**. See **Figure 4.1**.

Figure 4.1



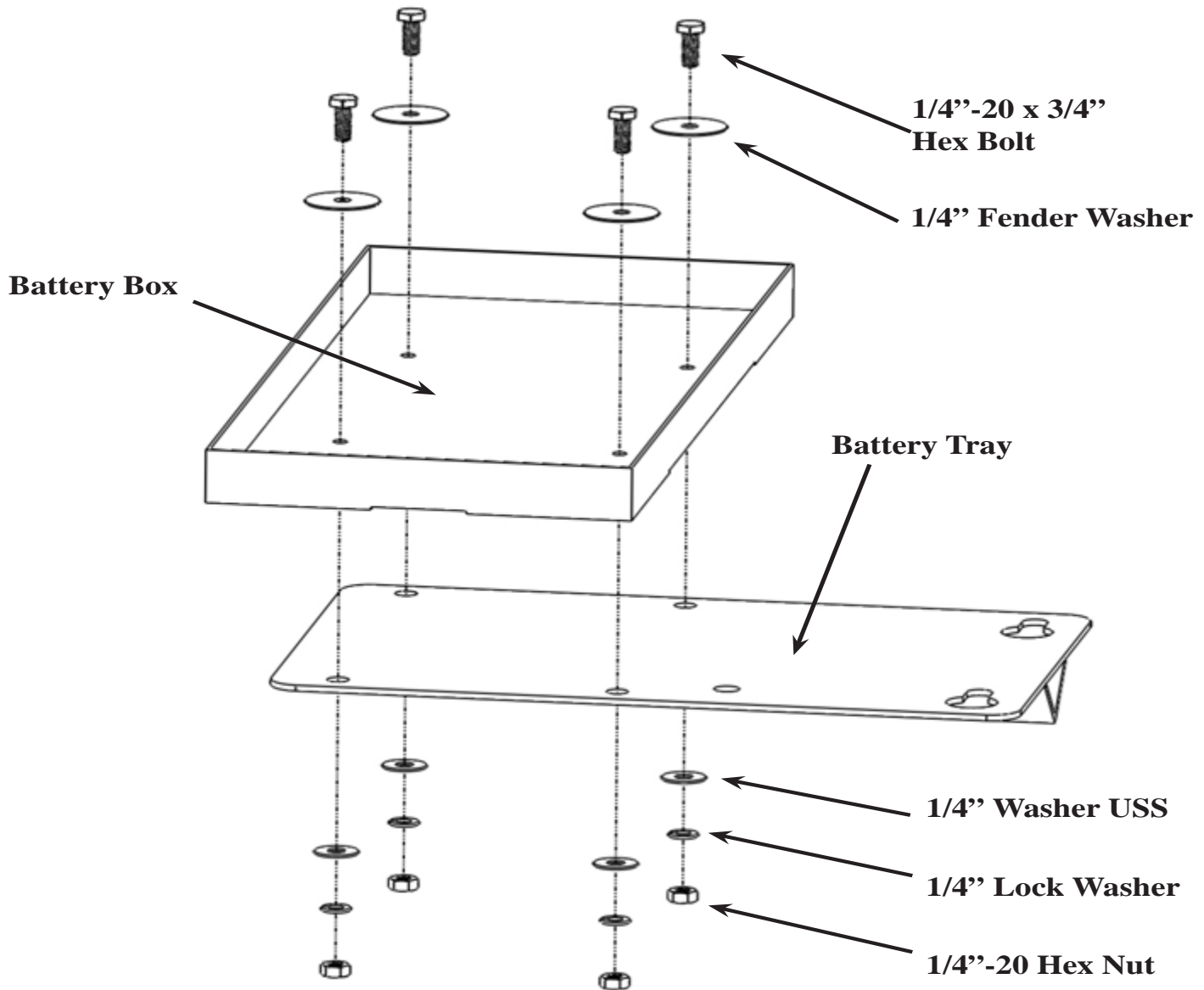
Step 5-

Lift the **Battery Tray** and empty **Battery Box** up to the **Frame Plate** so that the **Frame Plate** studs protrude through the keyholes in the **Battery Tray**. Rotate the **3/8"-16 Flanged Nylock Nuts** on the **Frame Plate** studs until they are lightly snug. Then mark the **Battery Tray** holes onto the bottom of the **Battery Box**. If the **Battery Box** is not centered on the **Battery Tray**, make sure that the empty side of the **Battery Box** is the side that overhangs the **Battery Tray** the most. In some cases, it may be necessary to cut one or both handles off of the **Battery Box** lid for the **Battery Box** to fit in place. Remove the **Battery Tray** and **Battery Box**.

Step 6-

Using a 1/4" drill bit, drill the holes previously marked on the **Battery Box**. Insert the 1/4"-20 x 3/4" **Hex Bolts** and 1/4" **Fender Washers** into the holes in the **Battery Box** from the inside. Secure the **Battery Box** to the **Battery Tray** by using the 1/4" **Washer USS**, 1/4" **Lock Washers**, and 1/4"-20 **Hex Nuts** as seen in **Figure 6.1**. Tighten to 7 Ft-Lbs.

Figure 6.1



Step 7-

Install the Battery (*not included*) into the **Battery Box**, and connect the leads to the appropriate terminals. For your convenience, a **50A Quick Disconnect Power Connector** has been included to aid in the installation and future removal of the battery for maintenance.

**For all questions relating to connecting your new battery to your current system, please contact you local RV Service Center.*

Step 8-

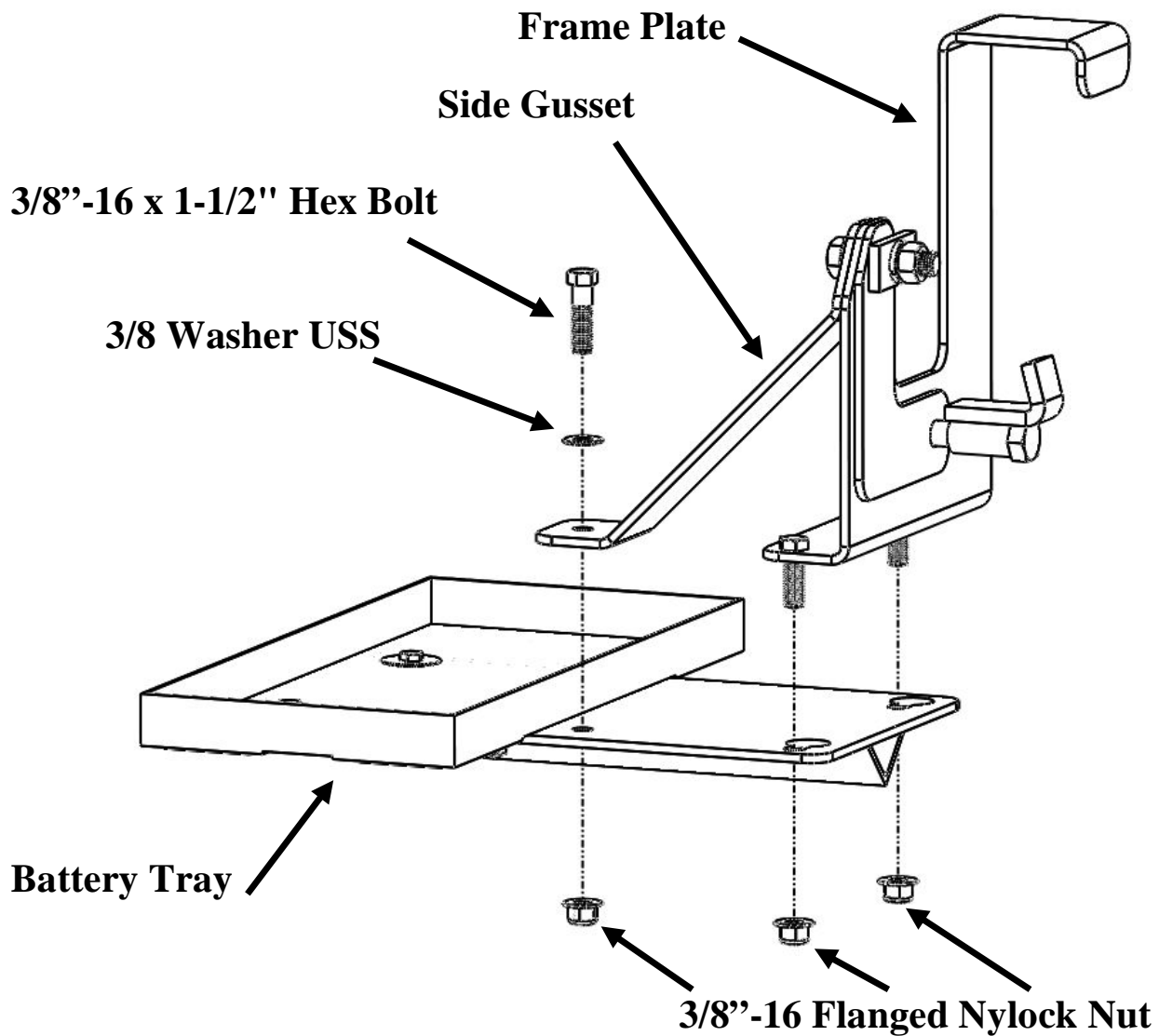
Using a floor jack, lift the **Battery Box** and **Battery Tray** up to the **Frame Plate**. Guide the **Battery Tray** so that the **Frame Plate** studs protrude through the keyholes in the **Battery Tray**. You may need to rotate the **Side**

Gusset towards the front of the truck for clearance. Slide the **Battery Tray** so the **Frame Plate** studs are in the small part of the keyholes.

Step 9-

With the **Battery Tray** supported by the **Frame Plate** studs, rotate the **Side Gusset** down so the lower hole lines up with the hole in the **Battery Tray**. Install the **3/8"-16 x 1-1/2" Hex Bolt** and **3/8" Washer USS** through the **Side Gusset** and **Battery Tray**. Secure the bolt with one **3/8"-16 Flanged Nylock Nut**. See **Figure 9.1**. Torque all **3/8"-16 Flanged Nylock Nuts** to 35 Ft-Lbs.(47nm) Torque the **1/2"-13 x 2" Hex Bolt** in the **Frame Plate** to 50 Ft-Lbs.(67nm)

Figure 9.1



Step 10-

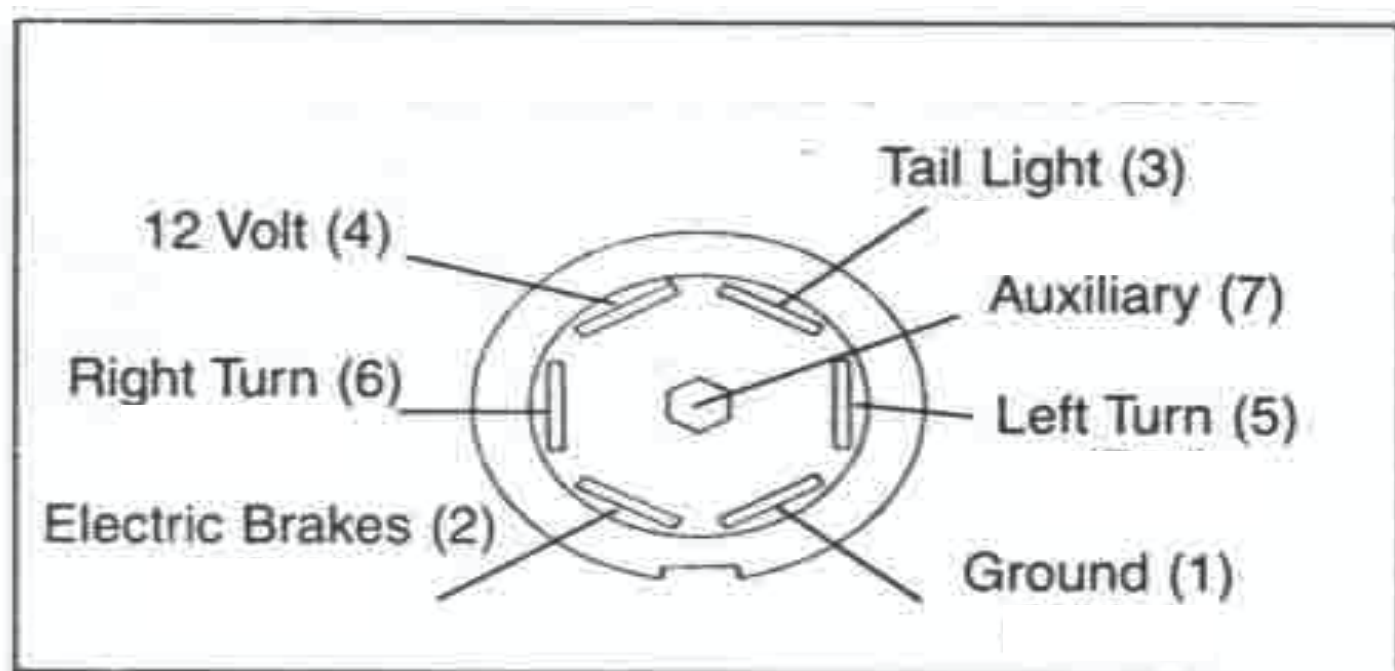
Connect the **50A Quick Disconnect Power Connectors** together.

Battery Charging Wire Diagrams

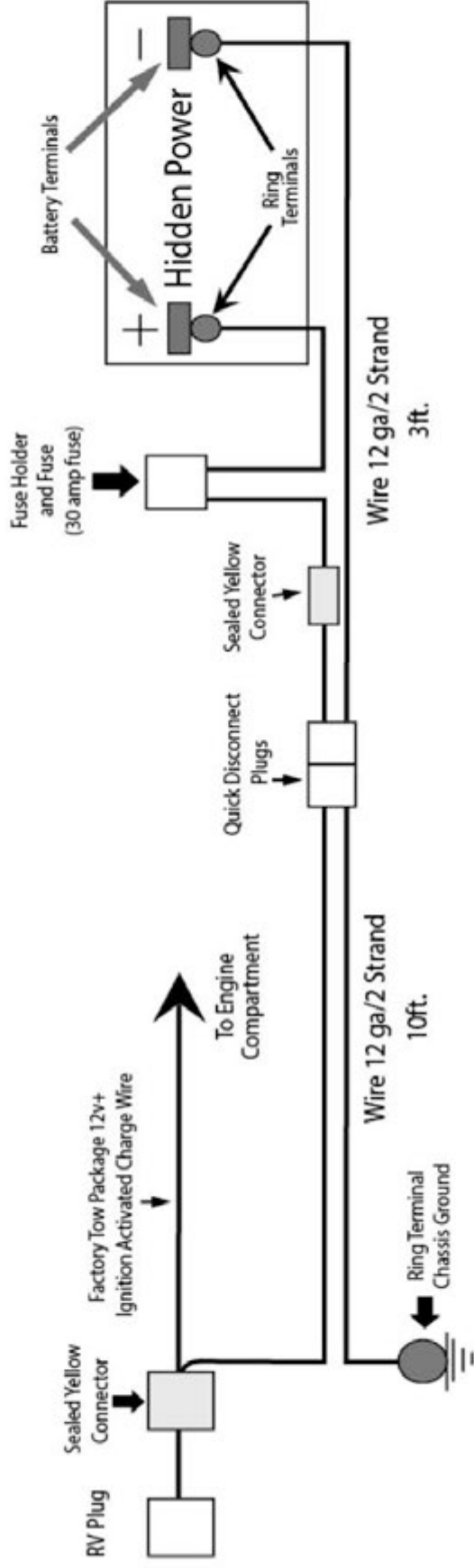
To test if you have a factory battery separator, use a voltmeter or a 12V test light to test for key on/ key off positive power at the RV Plug. See RV Plug Diagram below.

***NOTE:** Wire color is going to vary from manufacturer to manufacturer which is why you should always wire by function and use a Volt Meter or a 12V test light when wiring. There is no official industry standard for wire color. If you are trying to wire by matching colors, there is a very good chance that it will be wired incorrectly. Be sure to test each wire to ensure you are wiring for the correct function.*

<u>Pin #</u>	<u>Function</u>
(1)	Ground
(2)	Trailer Brakes
(3)	Tail / Running Lights
(4)	Aux 12V+ (Charging)
(5)	Left Turn / Stop
(6)	Right Turn / Stop
(7)	Backup Lights



#1 For Trucks with Factory Installed Ignition Activated Tow Package



For Trucks without Factory Installed #2 Ignition Activated Tow Package

