



IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS

A7727

HIDDEN POWER

**APPLICATION FITS:
1973-2008 F250/F350 LONG BED**

A7727 INVENTORY LIST

1- BATTERY TRAY	1- CLAMP BRACKET
1- 3/8"-16 X 1-1/2" HEX BOLT	1- 3/8" WASHER
1- 3/8" LOCK WASHER	1- 3/8"-16 HEX NUT
1- 3/8" NYLOCK NUT	4- 1/4"-20 X 3/4" BOLT
4- 1/4"-20 HEX NUT	8- 1/4" FENDER WASHER
4- 1/4" LOCK WASHER	1- BATTERY BOX
2- 50A Quick Disconnect Power Connector	

Warning: *When working underneath any vehicle have the wheels chocked and the Emergency brake engaged.*

Installation:

Step 1-

Install the **3/8"-16 X 1-1/2" HEX BOLT** through the hole in the side of the **BATTERY TRAY**. Secure the bolt with the **3/8" LOCK WASHER** and **3/8"-16 HEX NUT**. Torque to 25 ft-lbs. (See **Figure 1.1**)

Step 2-

On the passenger side of the vehicle locate the portion of the frame between the cab and rear wheels where the **BATTERY TRAY** will mount.

Step 3-

With the **BATTERY BOX** resting on the **BATTERY TRAY**, hook the **BATTERY TRAY** arms over the frame.

Step 4-

Position the **BATTERY BOX** and the **BATTERY TRAY** so they will not interfere with any moving parts. Then mark the **BATTERY TRAY** holes onto the bottom of the **BATTERY TRAY**. If the **BATTERY TRAY** is not centered on the **BATTERY TRAY**, make sure that the empty side of the **BATTERY TRAY** 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 TRAY** lid for the **BATTERY TRAY** to fit in place. With the **BATTERY TRAY** and **BATTERY BOX** in position, trace the holes in the **BATTERY TRAY** onto the bottom of the **BATTERY BOX**.

Step 5-

Remove the **BATTERY BOX** and **BATTERY TRAY**, and then drill a 5/16" hole in the center of the circles drawn in the previous step.

Step 6-

Install a 1/4"-20 X 3/4" **BOLT** and 1/4" **FENDER WASHER** into the drilled holes from the inside of the **BATTERY BOX**, and through the 3/8" holes in the **BATTERY TRAY**.

Step 7-

From the underside of the **BATTERY TRAY**, install a 1/4" **FENDER WASHER**, 1/4" **LOCK WASHER**, and 1/4"-20 **HEX NUT**. Tighten to 7 ft-lbs (See **Figure 7.1**)

Step 8-

Insert the Battery (*Battery Sold Separately*) into the **BATTERY BOX**. Connect the battery cables (*not included*) to the appropriate battery terminals and secure the battery box lid. A **50A Quick Disconnect Power Connector** has been included to ease the installation and future removal of the Battery Box. **For all question relating to connecting your new battery to your current system please contact your local RV Service Center.*

Step 9-

Reinstall the **BATTERY TRAY** onto the frame with **BATTERY BOX** and battery installed. Install the **CLAMP BRACKET** onto the 3/8"-16 X 1-1/2" **HEX BOLT**, followed by the 3/8" **WASHER** and 3/8" **NYLOCK NUT**. While holding the **CLAMP BRACKET** parallel with the frame, tighten the 3/8" **NYLOCK NUT** until the **CLAMP BRACKET** is securely squeezing the frame, torque to 25 ft-lbs. (See **Photo 9.1** for final install)

Caution: If you over tighten the **CLAMP BRACKET**, it can bend causing the **BATTERY TRAY** to come loose during travel. (Refer back to **Figure 1.1**)

Figure 1.1

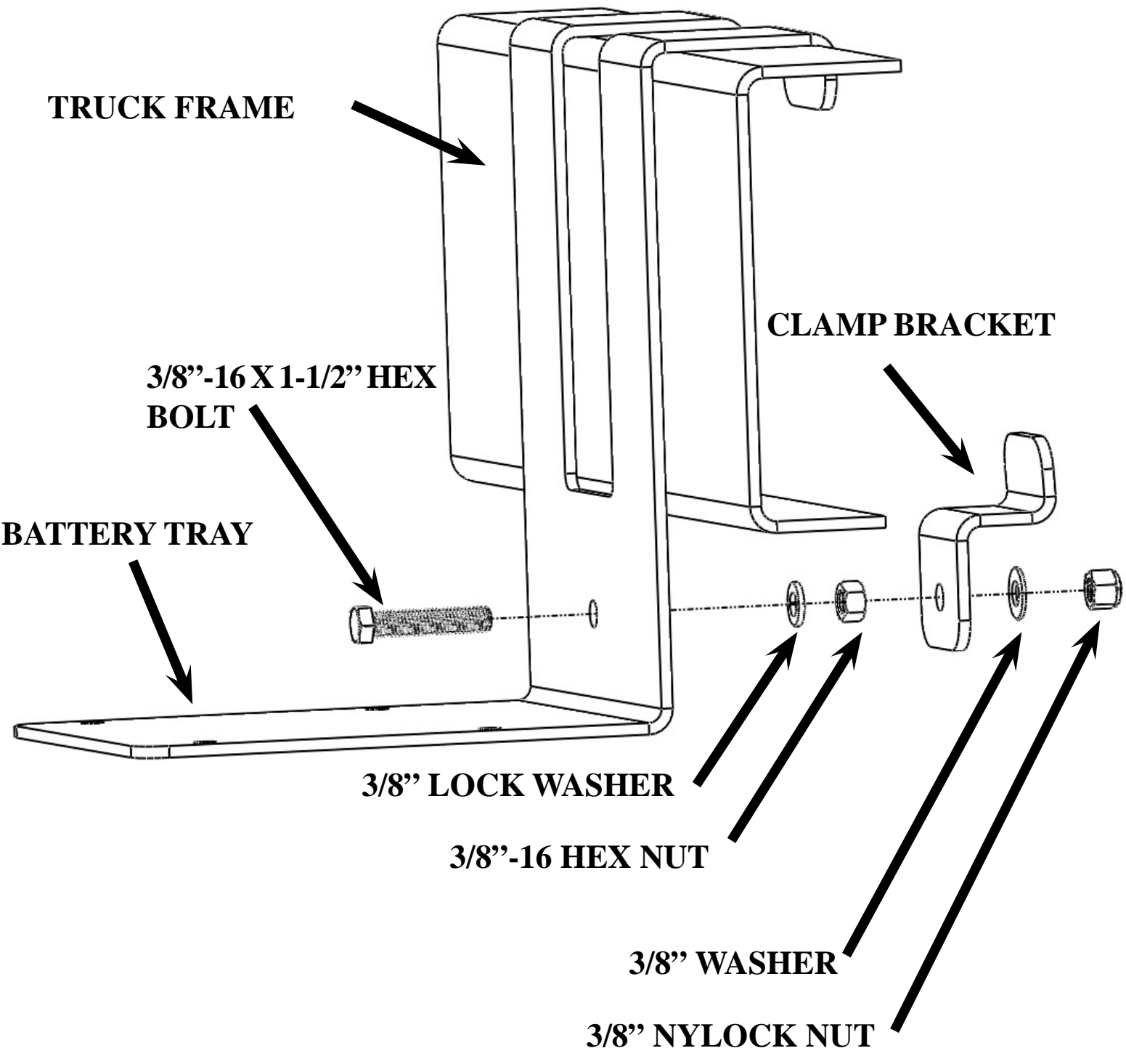


Figure 7.1

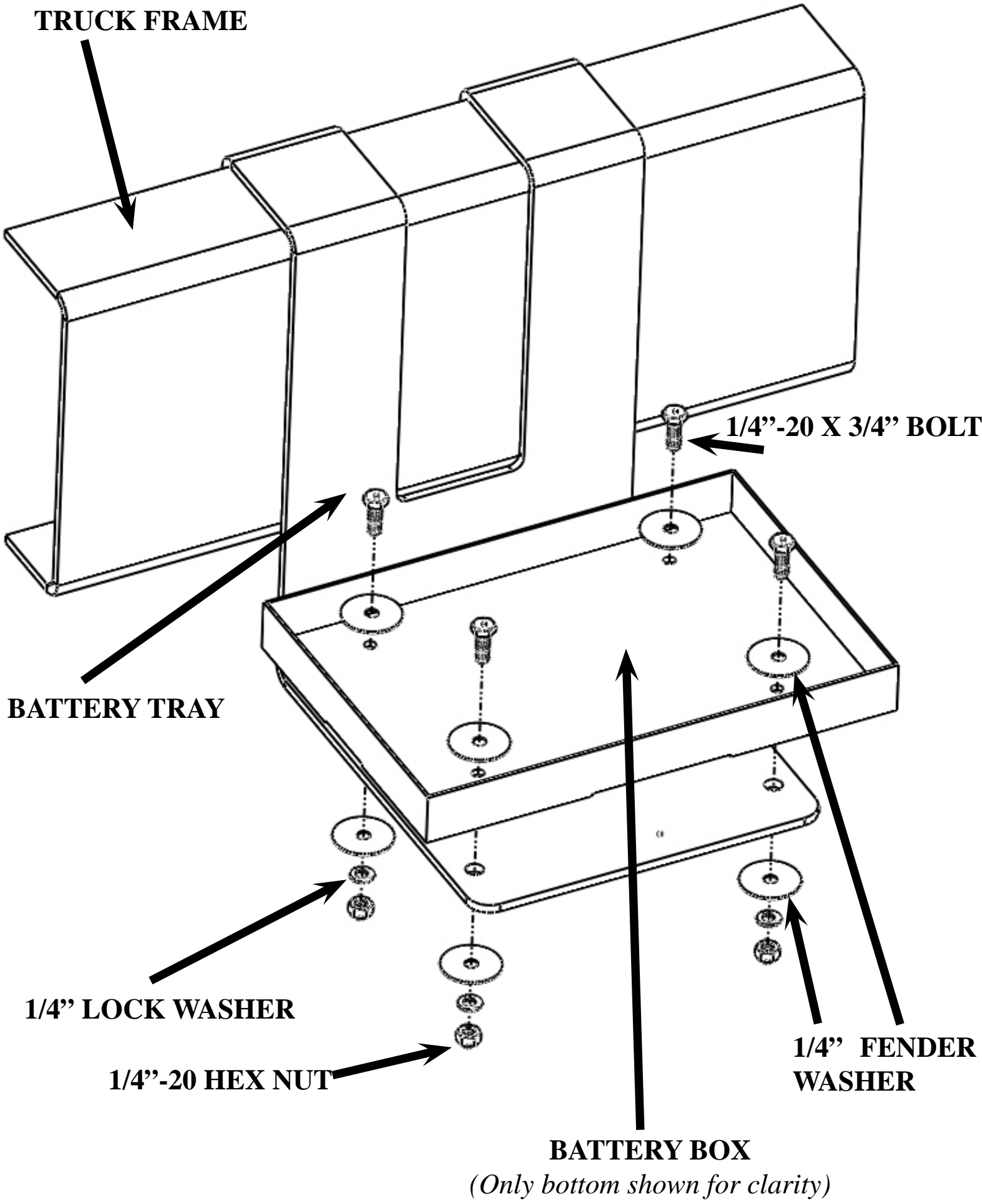


Photo 9.1

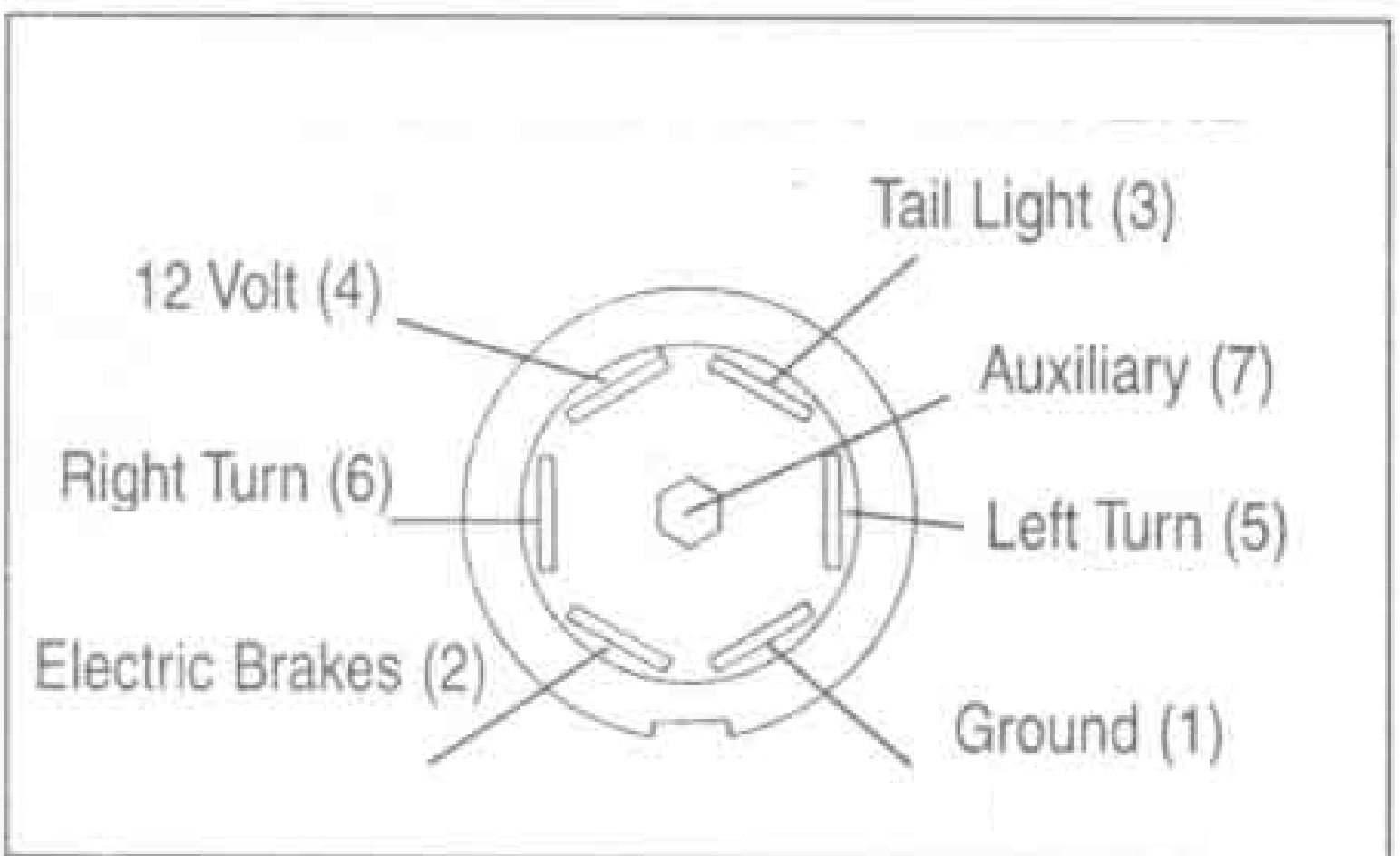


Battery Charging Wire Diagrams

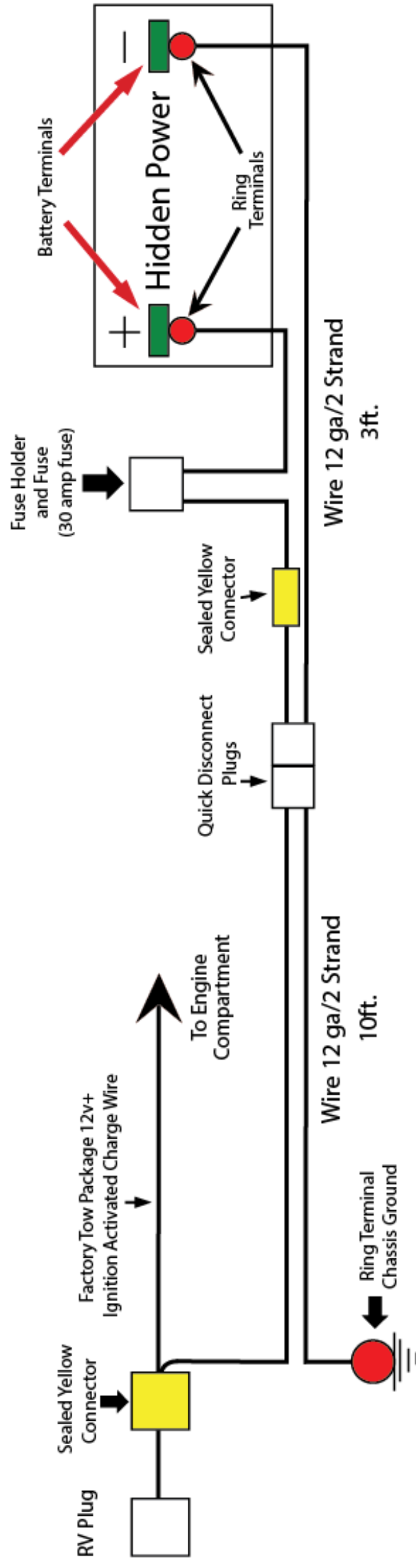
To test if you have a factory battery separator, use a volt meter or a 12V test light to test for key on/ key off positive power at the RV Plug. See RV Plug Diagram below.

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

