



IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS

A7703

HIDDEN POWER

**APPLICATION FITS:
1973-2007 F250/F350 LONG BED**

A7703 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	
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. On 2011+ trucks, the flexible hose on the passenger side frame rail may need to be relocated by removing the plastic push rivet closest to the rear of the truck. The hose can then be pushed below the frame and behind the **BATTERY TRAY**.

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. Note: Some group 27 boxes will need to have their handles trimmed in order to fit between the leaf spring hanger and bed rails on 2008+ models. 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 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

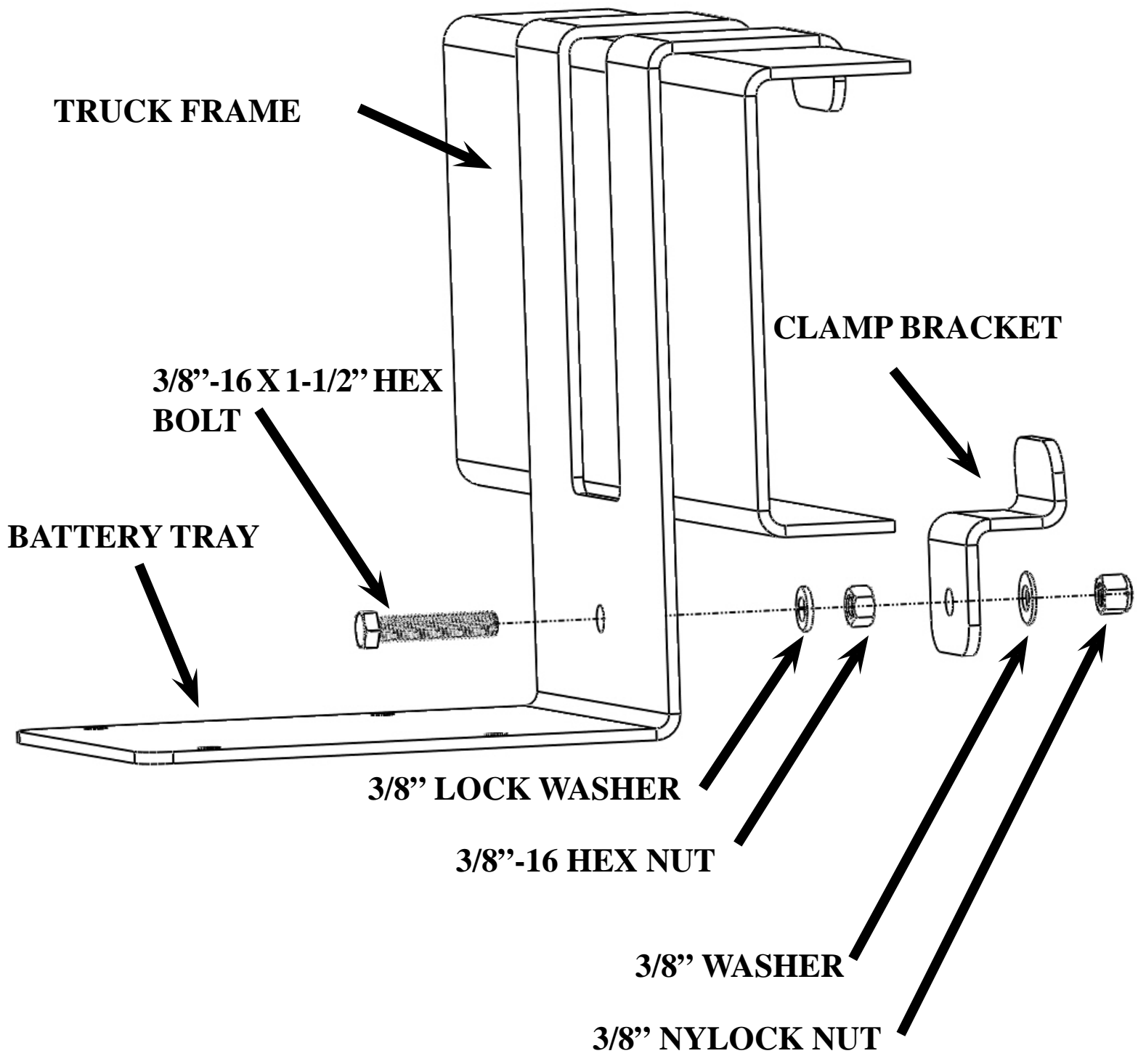


Figure 7.1

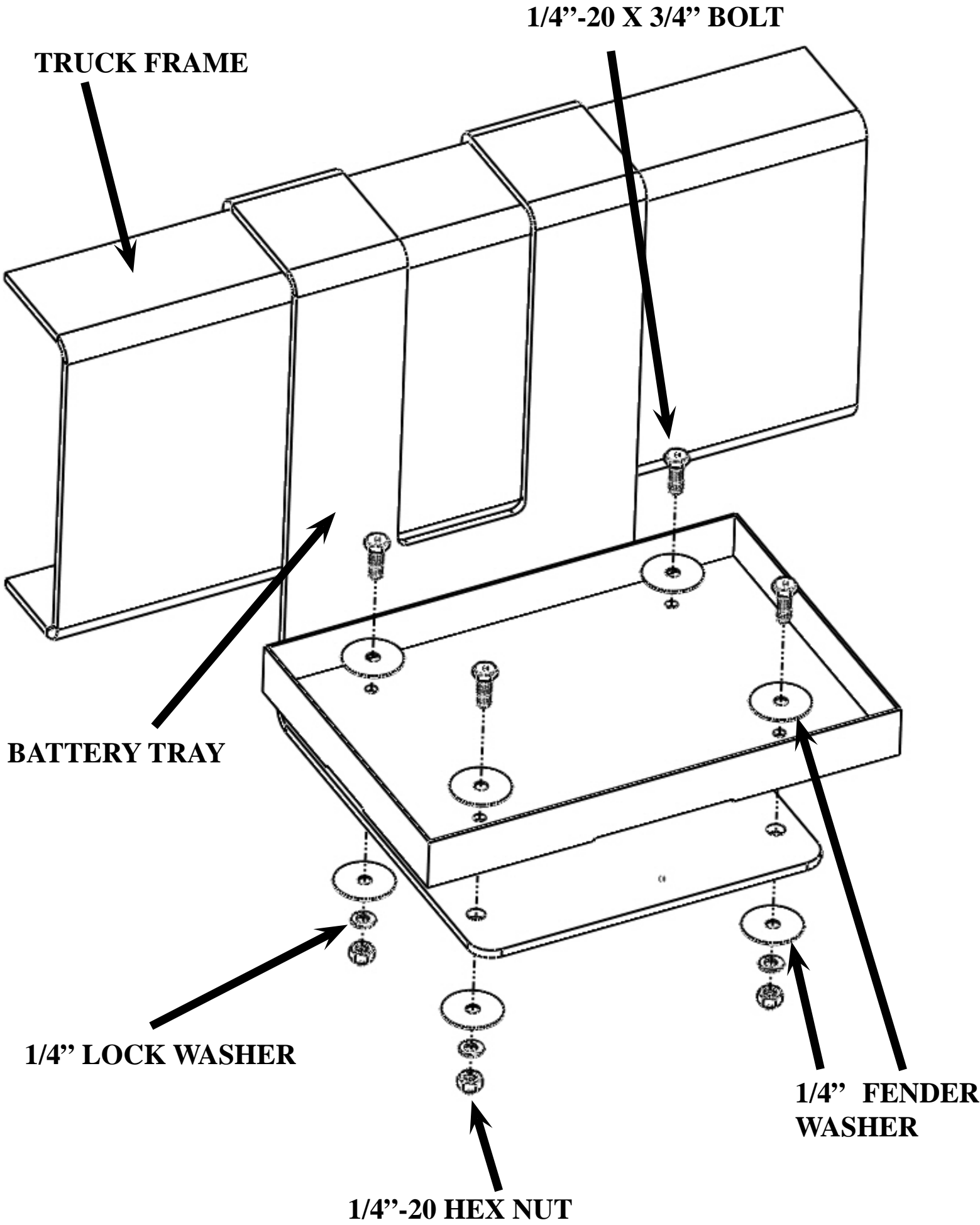


Photo 9.1

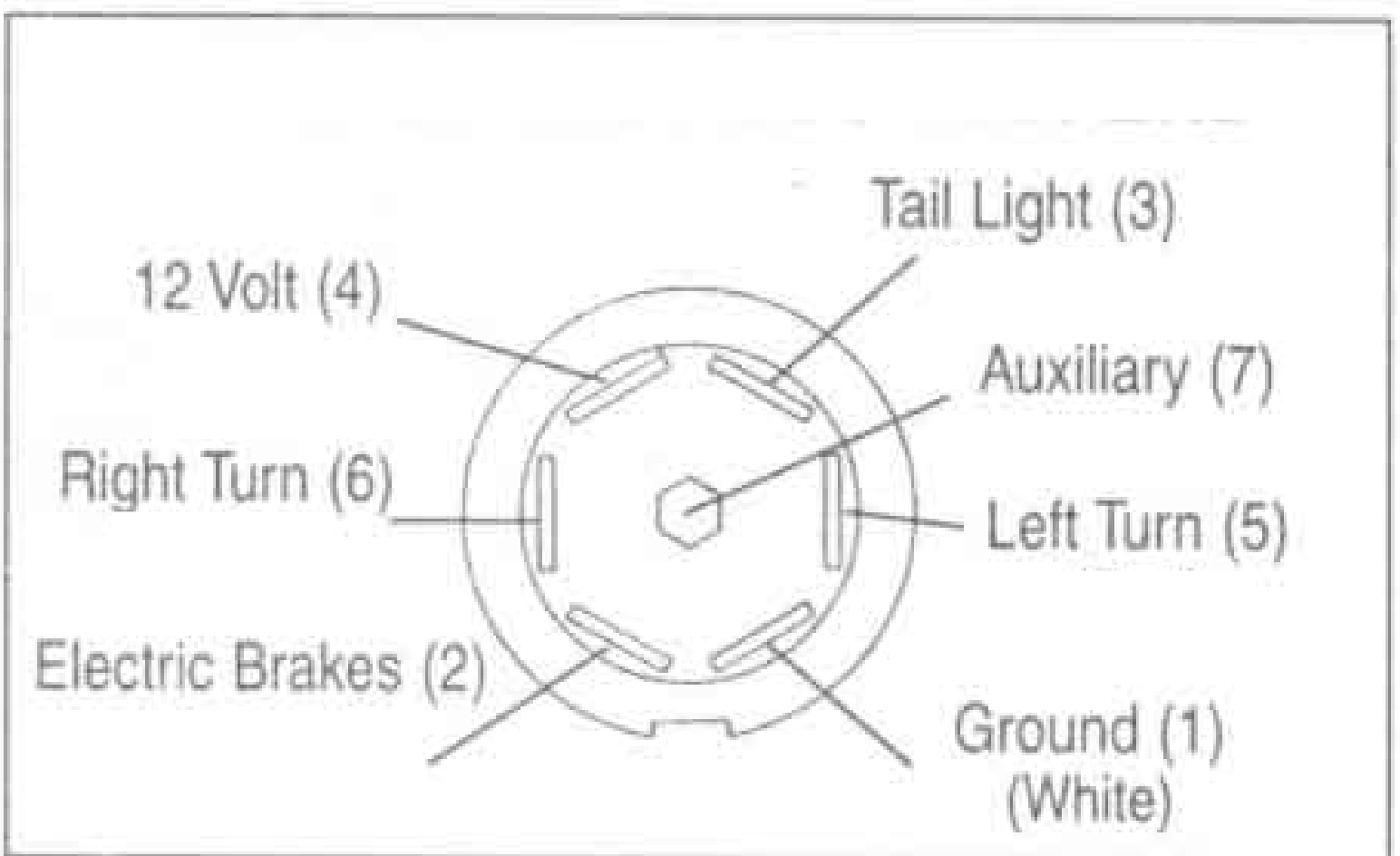


Battery Charging Wire Diagrams

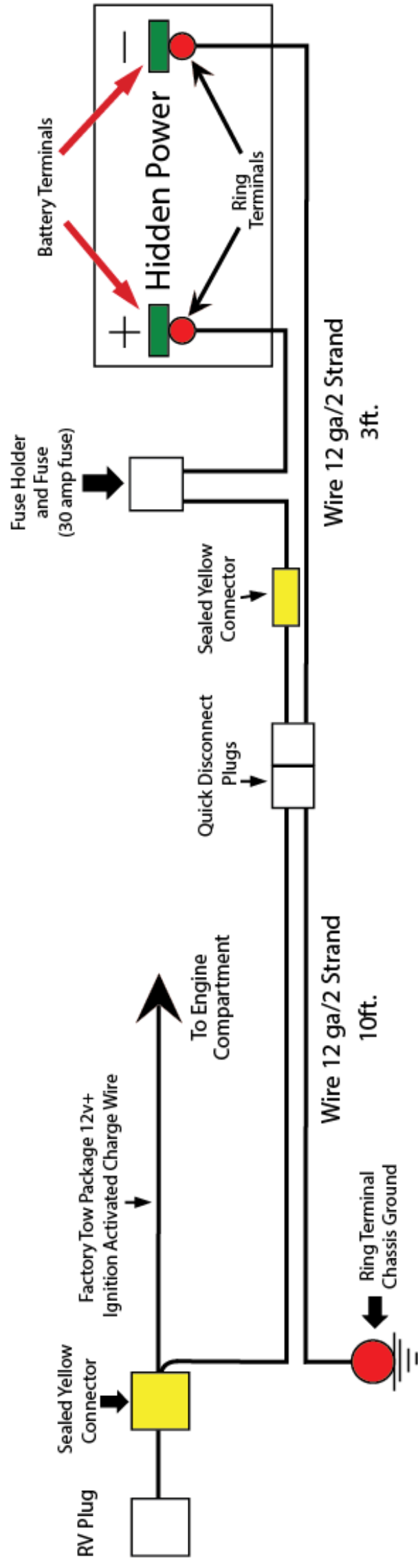
To test if you have a factory battery separator, use a volt meter or a 12V test light to test for key on/ key off positive power at the RV Plug. See RV Plug Diagram below.

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

