



**OVER 35 YEARS OF INNOVATION, QUALITY, SAFETY.
IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS**

A7732

HIDDEN POWER

2011-2013

Chevy/GMC 2500, 3500 - Ext. & Crew Long Bed

A7732 INVENTORY LIST

- | | |
|-----------------------------------|---|
| 1- Frame Plate | 1- Triangular Strap |
| 1- Battery Tray | 1- Brake Line Bridge |
| 1- Battery Box Strap | 1- Group 24-31 Battery Box |
| 4- 1/4"-20 x 3/4" Hex Bolt | 2- 50A Power Connector |
| 4- 1/4" Lock Washer | 2- 3/8"-16 x 2" Tap Bolt Grade 8 |
| 4- 1/4"-20 Hex Nut | 2- 3/8"-16 Flanged Nylock Nut |
| 4- 1/4" Washer USS | 2- 3/8"-16 Hex Nut |
| 4- 1/4" Fender Washer | 6- 1/2" Washer SAE |
| 1- 1/4" x 1-3/8" Bail Pin | 3- 1/2"-13 Hex Nut |
| 3- 1/2" Lock Washer | 3- 1/2"-13 x 4-1/2" Hex Bolt Grade 8 |
| 4- Fuel Line Protectors | |

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-

Place the **Brake Line Bridge** above the brake lines on top of the driver side of the frame. The narrow legs should face the inside of the frame, so the brake lines will travel under the adapter. See **Photo 1.1**

Photo 1.1



Step 2-

Slide the **Frame Plate** up between the inside of the frame and the fuel lines. On Chevy/GMC extended cabs, slide the **Frame Plate** up so it straddles the lower light-grey fuel line retainer. Place two **1/2"-13 x 4-1/2" Hex Bolt Grade 8** with one **1/2" Washer SAE** each through the **Frame Plate**, **Brake Line Bridge**, and **Triangular Strap**. Secure each bolt with an additional **1/2" Washer SAE**, **1/2" Lock Washer**, and **1/2"-13 Hex Nut**. Leave nuts loose at this time. See **Photo 2.1** Secure the bottom of the **Frame Plate** to the **Triangular Strap** with a **1/2"-13 x 4-1/2" Hex Bolt Grade 8** and a **1/2" Washer SAE** on either side, followed by a **1/2" Lock Washer** and **1/2"-13 Hex Nut**. See **Figure 2.2**

Photo 2.1

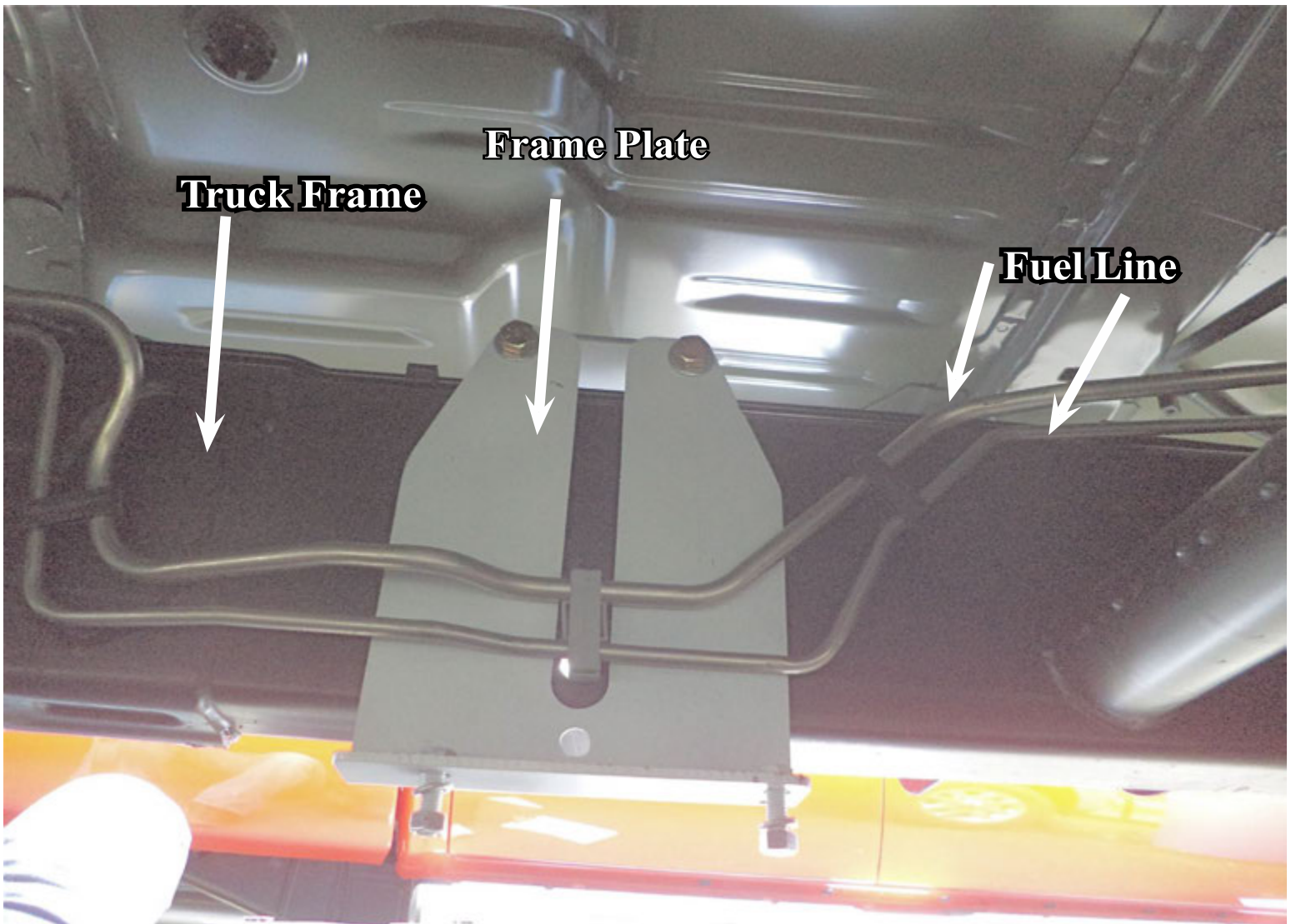
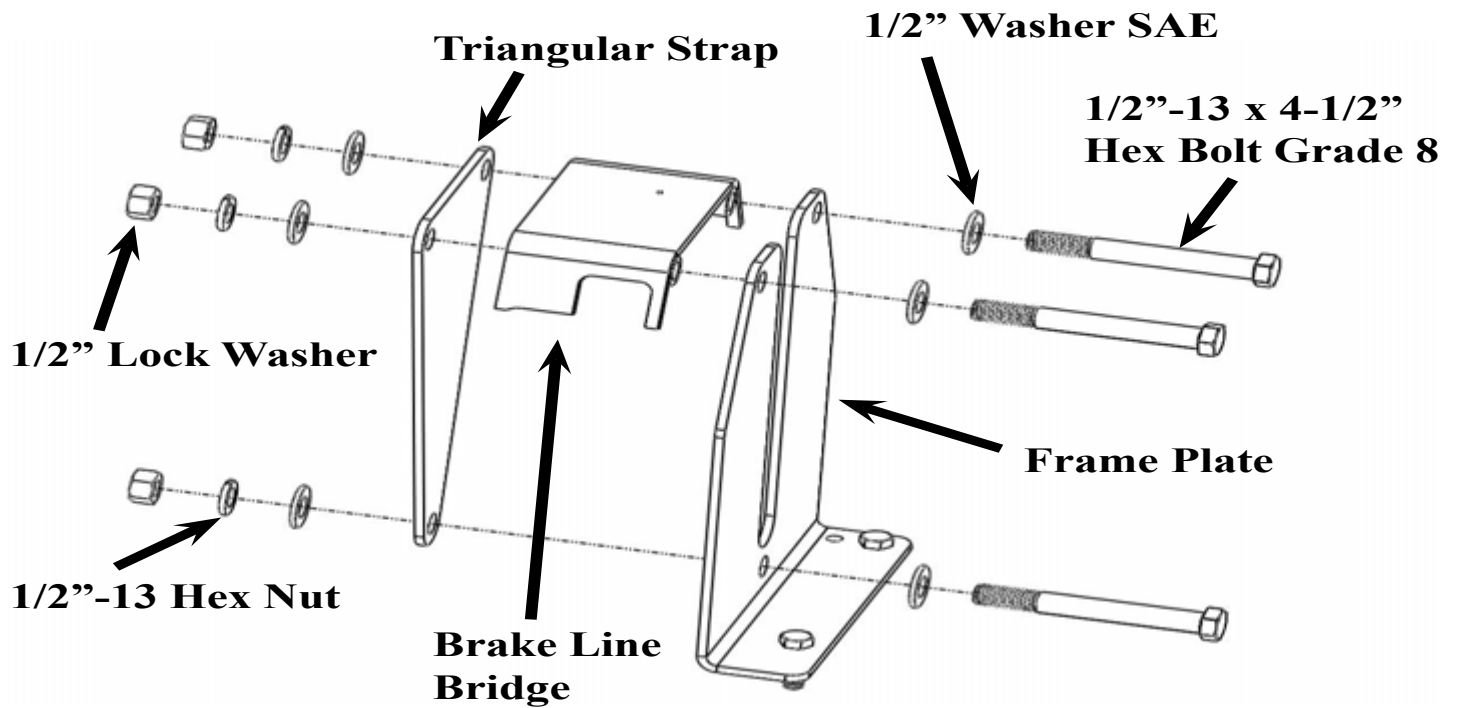


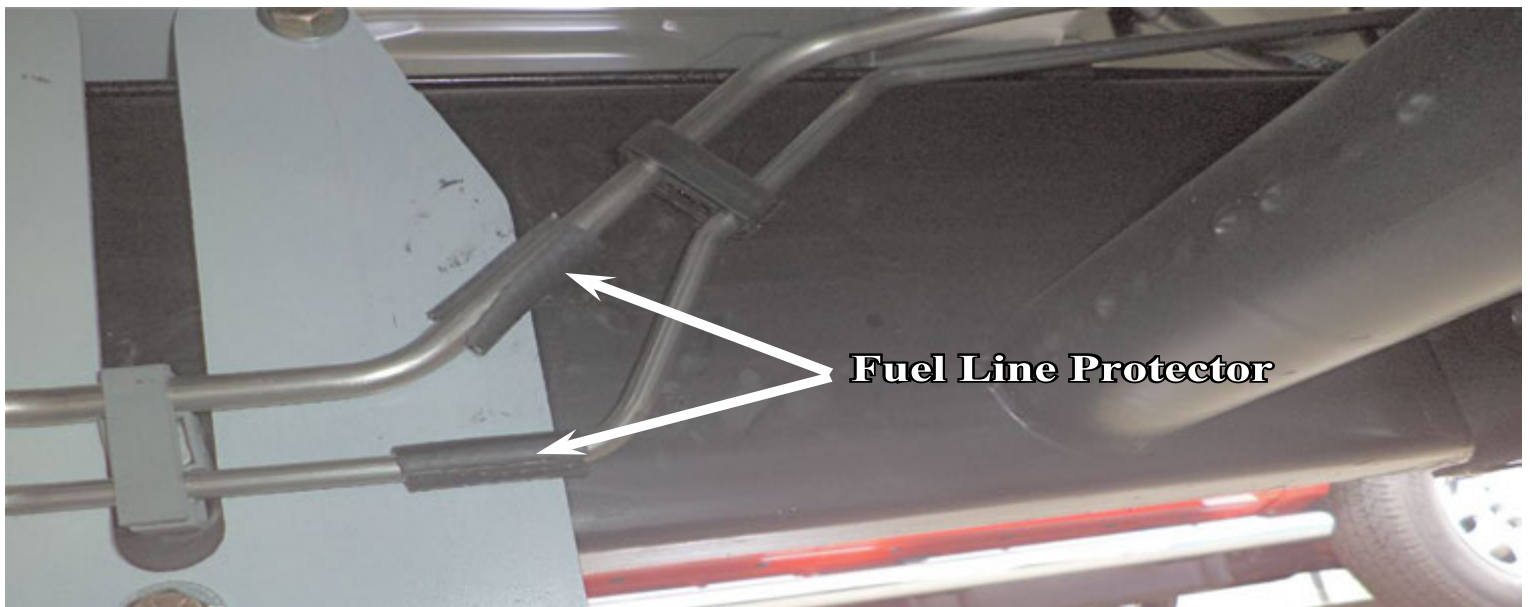
Figure 2.2



Step 3-

While holding the **Triangular Strap** against the frame, finger tighten all **1/2"-13 Hex Nuts**. Once the nuts are finger tight and the Triangular Strap is flat against the frame, torque all **1/2"-13 Hex Nuts** to 15 ft-lbs.(20nm)
Place a **Fuel Line Protector** around each fuel line near the edges of the Frame Plate to keep the fuel lines from rubbing on the metal. See **Photo 3.1**

Photo 3.1



Step 4-

Place a **3/8"-16 Flanged Nylock Nut** on the bottom of each **Frame Plate** stud. Leave approximately 3/8" of space between the **Frame Plate** and **3/8"-16 Flanged Nylock Nut**.

Step 5-

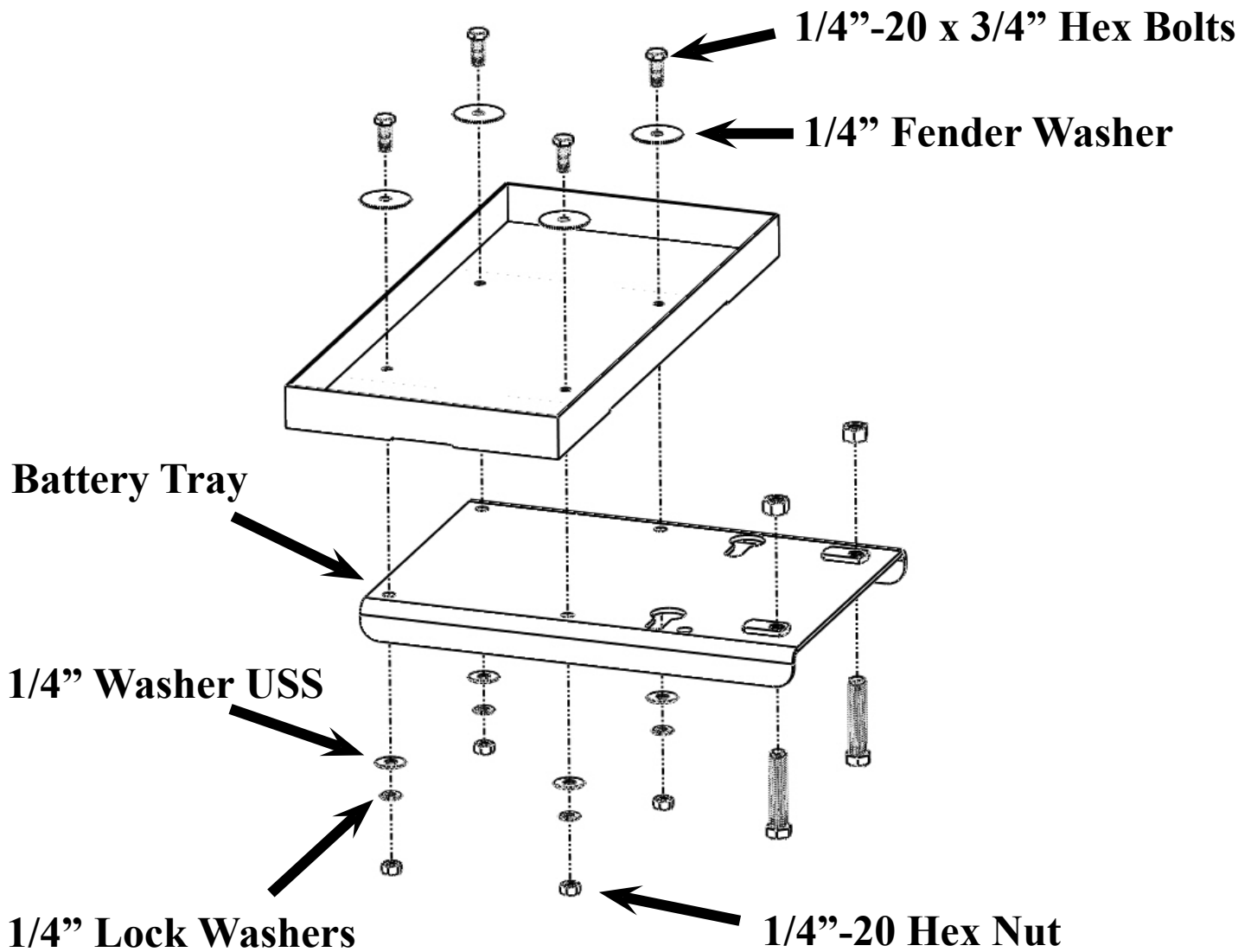
Lift the **Battery Tray** up to the **Frame Plate**, with the **Frame Plate** studs going through the large portion of the keyholes in the **Battery Tray**. Slide the **Battery Tray** to the rear of the vehicle and lightly tighten the **3/8"-16 Flanged Nylock Nuts** with a wrench. With the **Battery Tray** in place, lift the empty **Group 24-31 Battery Box** onto the **Battery Tray**. Place the **Group 24-31 Battery Box** in a position where it will not interfere with any moving parts, fuel lines, or brake lines, then mark the **Battery Tray** holes onto the bottom of the **Group 24-31 Battery Box**. If the **Group 24-31 Battery Box** is not centered on the **Battery Tray**, make sure that the empty side of the **Group 24-31 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.

Step 6-

Remove the **Group 24-31 Battery Box** and **Battery Tray**. Drill four 1/4" holes in the previously marked locations. With the supplied **Battery Box Strap** placed between the **Battery Box** and **Battery Tray**, secure the **Group 24-31 Battery Box** to the **Battery Tray** using four 1/4"-20 x 3/4" **Hex Bolts**, 1/4" **Fender Washer**, 1/4" **Washer USS**, 1/4" **Lock Washers** and 1/4"-20 **Hex Nut**. Torque to 7 ft-lbs.(9nm) **See Figure 6.1**. Install the battery (not included) into the **Group 24-31 Battery Box**, and connect the leads to the appropriate terminals. For your convenience, two **50A Power Connectors** have been included to aid in the installation and future removal of the battery.

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

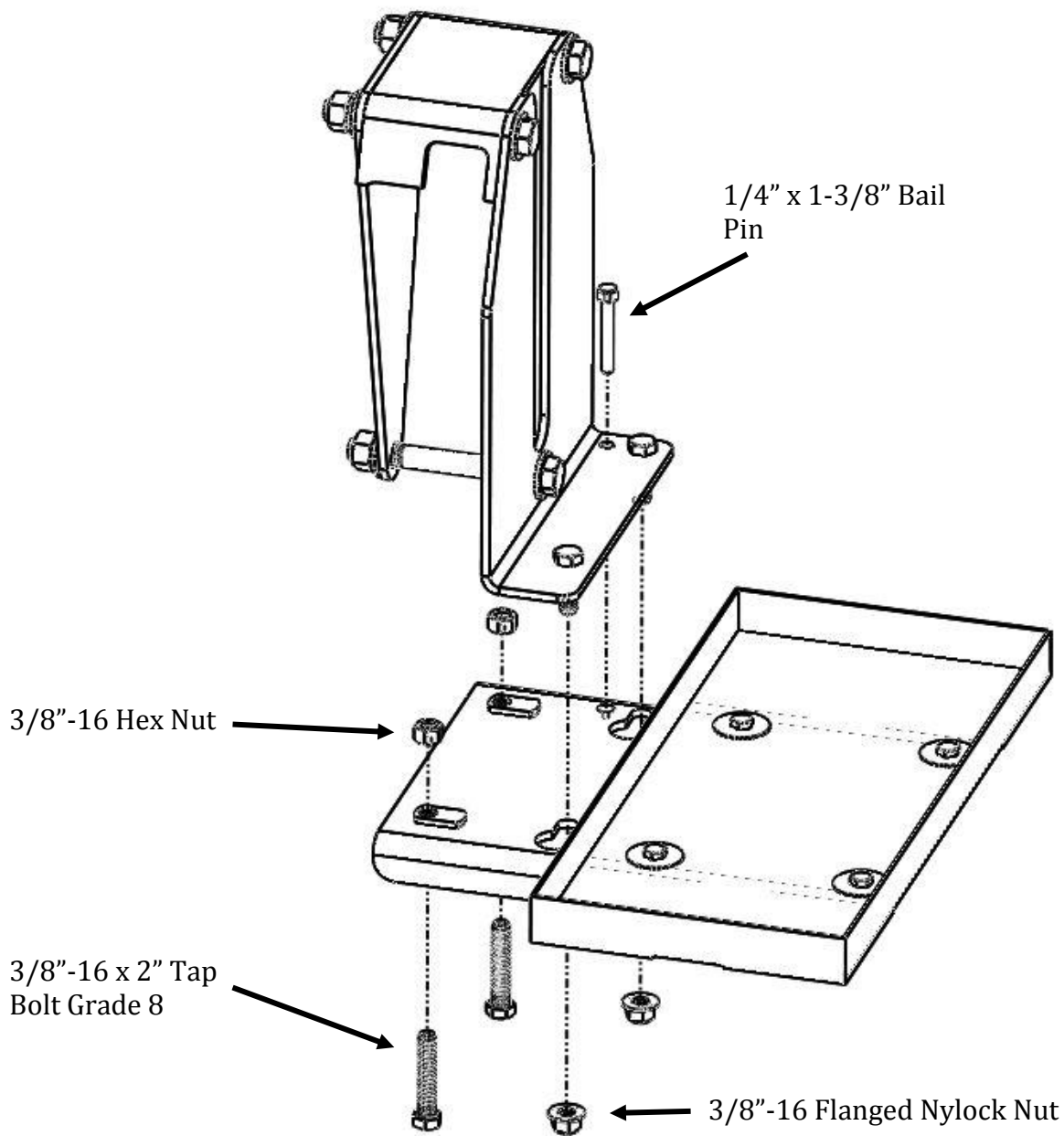
Figure 6.1



Step 7-

With the battery installed into the **Group 24-31 Battery Box**, lift the **Group 24-31 Battery Box** and **Battery Tray** up to the **Frame Plate** and guide the **Battery Tray** so the **Frame Plate** studs go through the large part of the keyholes in the **Battery Tray**. Slide the **Battery Tray** to the rear of the vehicle so the **Frame Plate** studs are in the small part of the keyholes. While supporting the battery with one hand, install the included **1/4" x 1-3/8" Bail Pin** through the safety hole in the **Frame Plate** and **Battery Tray**. See **figure 7.1**. Torque the **3/8"-16 Flanged Nylock Nuts** on the **Frame Plate** studs to 25 ft-lbs.(33nm)

Figure 7.1



Step 8-

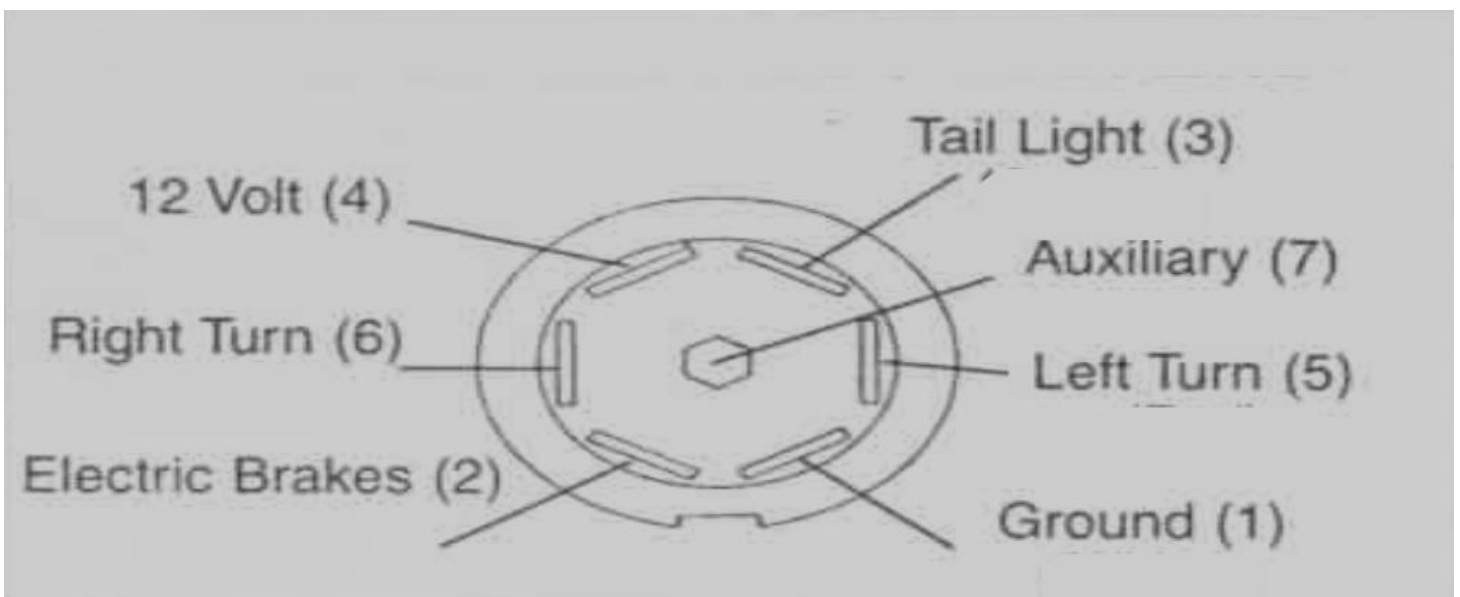
Install the **3/8"-16 x 2" Tap Bolt Grade 8** through the weld nuts in the **Battery Tray** from the bottom side. Install a **3/8"-16 Hex Nut** onto the **3/8"-16 x 2" Tap Bolt Grade 8** from the topside of the **Battery Tray**. Thread the **3/8"-16 x 2" Tap Bolt Grade 8** up by hand until they contact the frame of the truck. Thread the **3/8"-16 Hex Nuts** down on the bolts until they contact the weld nuts on the **Battery Tray**. Snug the nuts tight with a wrench to lock the **3/8"-16 x 2" Tap Bolt Grade 8** in place.

Battery Charging Wire Diagrams

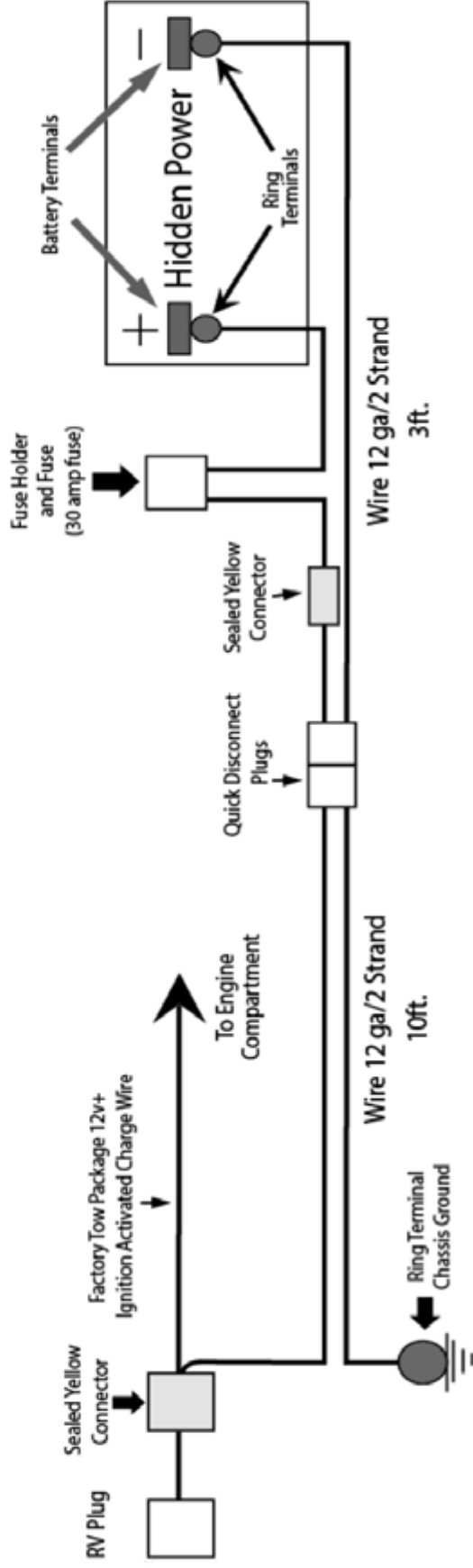
To test if you have a factory battery separator, use a voltmeter or a 12V test light to test for key on/ key off positive power at the RV Plug. See RV Plug Diagram below.

***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 Ignition Activated Tow Package

#2

