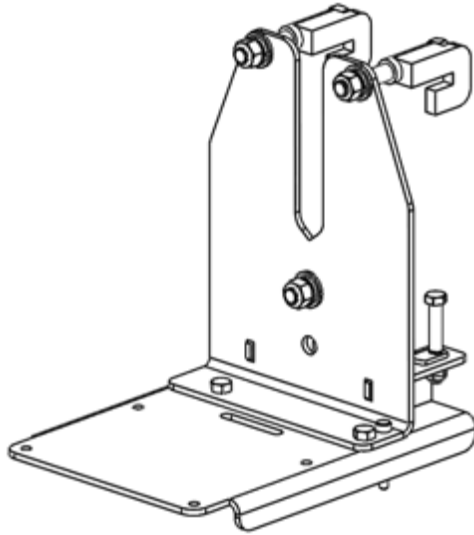


# **TORKLIFT** **INTERNATIONAL**

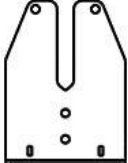
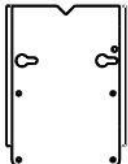
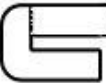

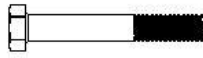



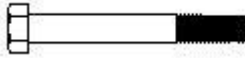
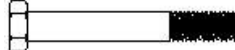



**OVER 35 YEARS OF INNOVATION, QUALITY, SAFETY.**  
**IMPORTANT OWNER-OPERATOR INSTALLATION INSTRUCTIONS**


**Part #A7729**

**E-Series Hidden Power**






## Parts Inventory

1x		A7729 Frame Plate
1x		A7729 Battery Tray
1x		Group 24-31 Battery Box
3x		Hook Brackets
1x		1/4" x 1-3/8" Bail Pin
2x		3/8"-16 x 2-1/2" Grade 5 Hex Bolt
2x		3/8"-16 x 1-1/4" Grade 5 Hex Bolt
2x		3/8"-16 Hex Nut
2x		3/8"-16 Flanged Nylock Nut
2x		1/2"-13 x 4" Grade 5 Hex Bolt
1x		1/2" -13 x 3-3/4" Hex Bolt
3x		1/2" -13 Grade 5 Hex Nut
3x		1/2" Grade 5 SAE Washer
3x		1/2" Lock Washer

4x		1/4" -20 x 3/4" Grade 5 Hex Bolt
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## Parts Inventory Continued

4x		1/4" Lock Washer
8x		1/4" Fender Washer
4x		1/4" -20 Grade 5 Hex Nut
1x		Nylon Strap
2x		50Amp Connectors

### Step 1:

If you are installing the Hidden Power onto an E250, install the **3/8" -16 x 2-1/2" Grade 5 Hex Bolts** into the top of the weld nuts located on the back of the **A7729 Frame Plate**. Thread the bolts down as far as possible by hand. On the threaded portion sticking out below the weld nuts, install a **3/8"-16 Grade 5 Hex Nut**. See figure 1.1

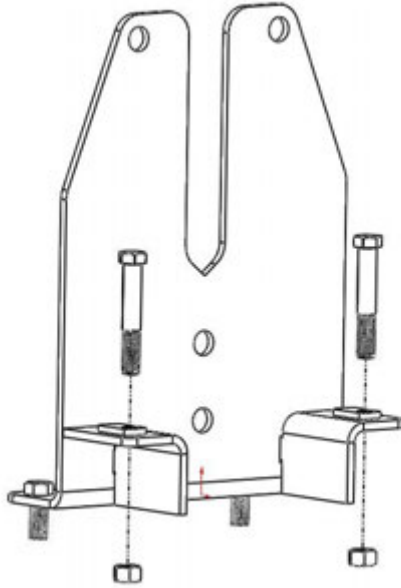


Figure 1.1

If you are installing the Hidden Power onto an E350, thread the **3/8"-16 Grade 5 Hex Nuts** onto the **3/8"-16 x 1-1/4" Grade 5 Hex Bolts**. Thread the nuts down onto the bolt, leaving about 3/8" of thread sticking out past the nut. Loosely install the **3/8"-16 x 1-1/4" Grade 5 Hex Bolts** with **3/8"-16 Grade 5 Hex Nuts** into the bottom of the weld nuts located on the back of the **A7729 Frame Plate**. See **figure 1.2**

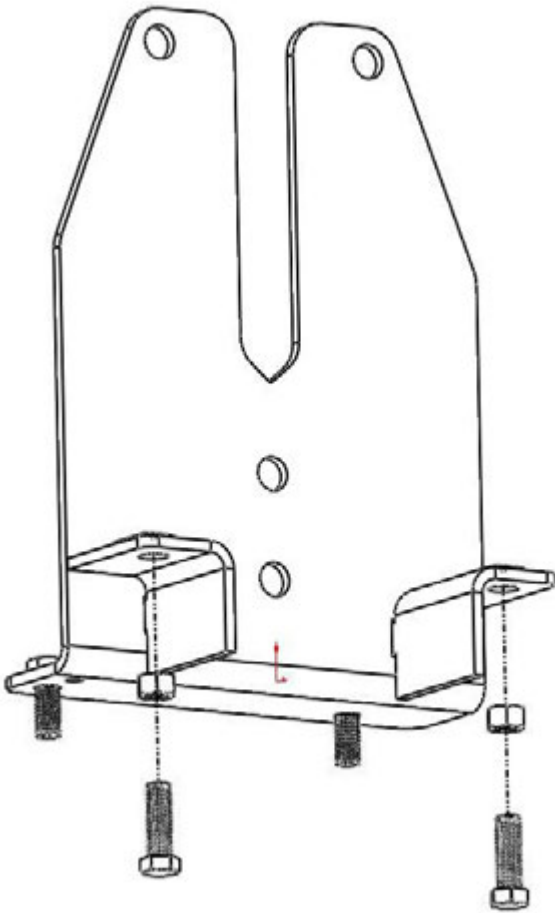


Figure 1.2

## Step 2:

Locate an empty space on the outside of the driver side frame rail. Hold the **A7729 Frame Plate** up to the frame to make sure that it is going to sit

flush against the frame. There is a slot in the middle of the **A7729 Frame Plate** which can be used to bolts protruding from the frame.

Once you have located a spot where you would like to install the Hidden Power, slide the two **1/2"-14 x 4" Hex Bolt Grade 8s** and the **1/2"-13 x 3-3/4" Hex Bolt Grade 8** Into the Hook Brackets as shown in **figure 2.1**

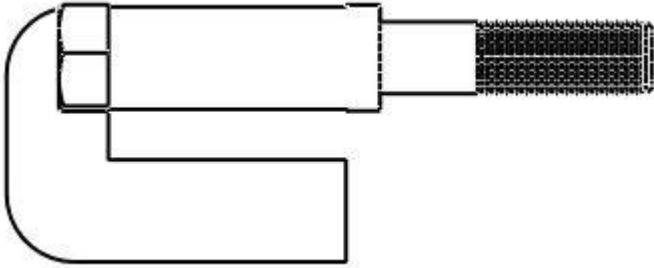


Figure 2.1

### Step 3:

Place the two hook brackets with the **1/2" x 4" Grade 8 Hex Bolts** on top of the frame so that they hook around the frame with the threaded part of the bolt pointing towards the outside of the frame.

Place the hook bracket with the **1/2" x 3-3/4" Grade 8 Hex Bolt** onto the bottom of the frame with the threaded part of the bolt pointing towards the outside of the frame.

### Step 4:

Place the A7729 Frame Plate up against the frame so that the bolts in the hook brackets protrude through the holes in the A7729 Frame Plate.

Secure the frame plate with one **1/2" SAE Washer**, One **1/2" Lock Washer**, and one **1/2" Grade 8 Hex Nut** on each bolt. Torque to 35 ft-lbs. See **figure 4.1**

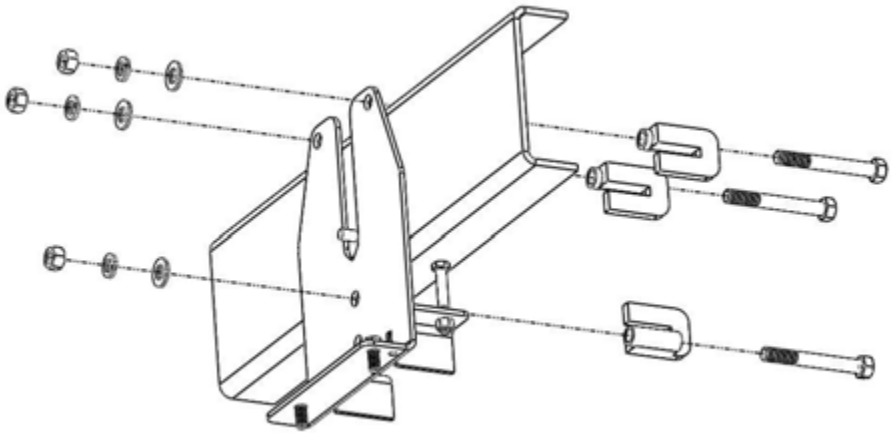


Figure 4.1

### Step 5:

Loosely install a **3/8" Lock Washer** and **3/8"-16 Grade 5 Nut** onto the bottom of each frame plate stud located on the bottom of the **A7729 Frame Plate**. Be sure to leave at least **1/4"** of space between the **3/8" Lock Washer** and the bottom of the **A7729 Frame Plate**.

### Step 6:

With the **Group 24-31 Battery Box** resting on top of the **Battery Tray**, Lift the **battery tray** up so that frame plate studs go through the large keyholes in the **Battery Tray**. Once the studs are through the holes, slide the **battery tray** towards the front of the vehicle. Install the **1/4" x 1-3/8" Bail Pin** through the **A7729 Frame Plate** and the **Battery Tray** to keep the **Battery**

Tray from sliding back. Tighten the **3/8"-16 Flanged Nylock Nut** on **A7729 frame plate studs** until just snug. See **figure 6.1**. Position the **Group 24-31 Battery Box** so that it is not touching any part of the vehicle. While positioned, use a marker to transfer the location of the holes in the **Battery Tray** to the **Group 24-31 Battery Box**.

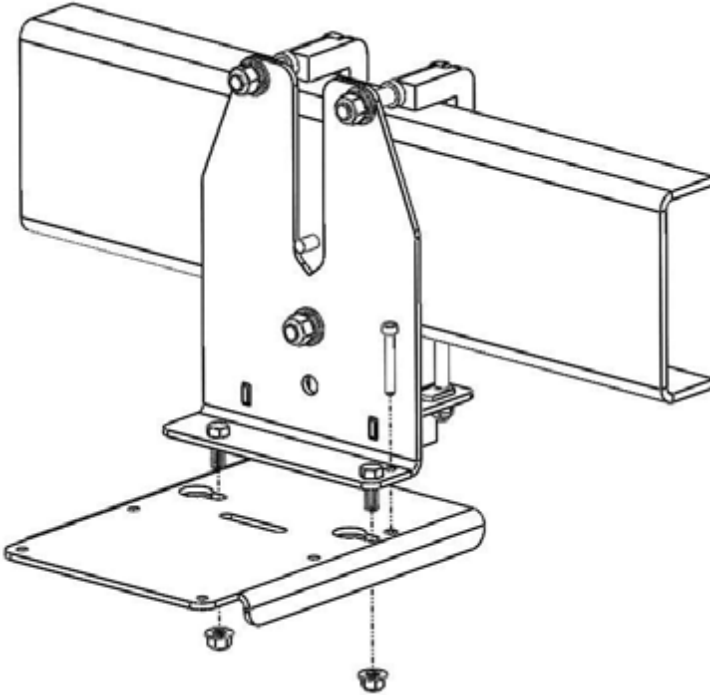


Figure 6.1

### Step 7:

With the hole locations transferred to the Group 24-31 Battery Box, Remove the Group 24-31 Battery Box and Battery Tray from the vehicle. Drill the holes in the box using a 1/4" drill bit. Install a **1/4" -20 x 3/4" Grade 5 Hex Bolt** and **1/4" Fender Washer** down through the **Group 24-31 Battery Box** and through the **Battery Tray**. Secure the other side of the



**1/4" -20 x 3/4" Grade 5 Hex Bolts with a 1/4" USS Washer, a 1/4" Lock Washer, and a 1/4" -20 Grade 5 Nut.** Torque to 7 ft-lbs. See figure 7.1

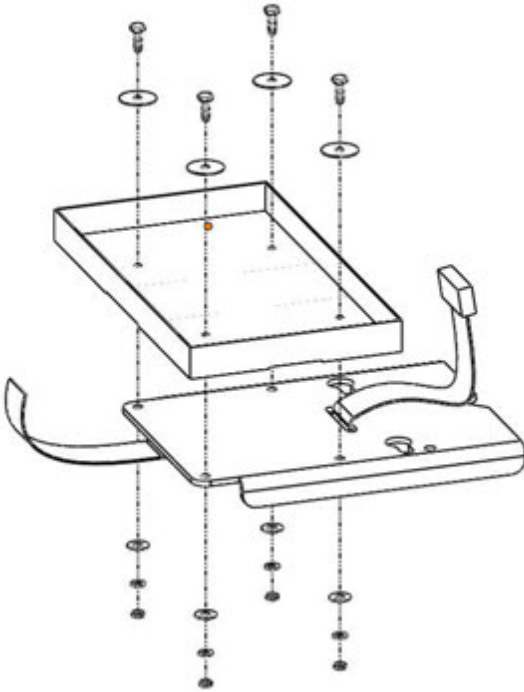


Figure 7.1

### Step 8:

Install the battery into the **Group 24-31 Battery Box**. Connect the battery leads to their appropriate terminals (wiring not included). For your convenience, two **50A Power Connectors** have been included to aid in the installation and future removal of the battery.

*\*For all questions regarding connecting your battery to your vehicle or camper, call your local RV service center.*

Slide the non-buckle end of the **Nylon Strap** down through the slotted hole in the **Battery Tray** (see figure 7.1). Using the **Nylon Strap**, secure the lid to the **battery box**.

## **Step 9:**

Reinstall the **battery tray** onto the **A7729 Frame Plate** as described in **Step 6**. Torque the **3/8"-16 Flanged Nylock Nuts** on the bottom of the frame plate studs to 25 ft-lbs. Make sure the **1/4" x 1-3/8" Bail Pin** is installed before proceeding.

On E250 vans, back the **3/8"-16 x 2-1/2" Grade 5 Hex Bolts** out of the 3/8" weld nuts until the heads of the bolts are touching the bottom of the E250 frame. Back them out an additional 1/2 turn, and secure their position by tightening the **3/8" -16 Grade 5 Nuts** against the bottom of the **A7729 Frame Plate**.

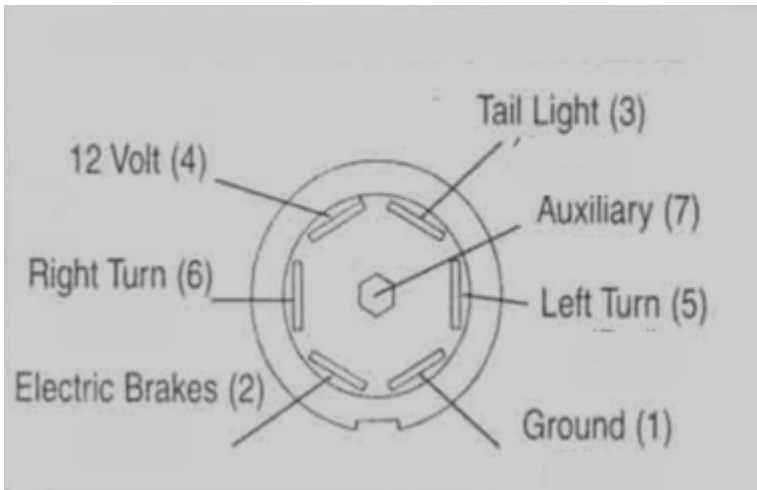
On E350 vans, screw the **3/8"-16 x 1-1/4" Grade 5 Hex Bolts** into the **3/8" Weld Nuts** until they contact the E350 frame. Screw them in an additional 1/2 turn. Secure their position by tightening the **3/8" -16 Grade 5 Nuts** against the bottom of the A7729 Frame Plate.

## Battery Charging Wire Diagrams

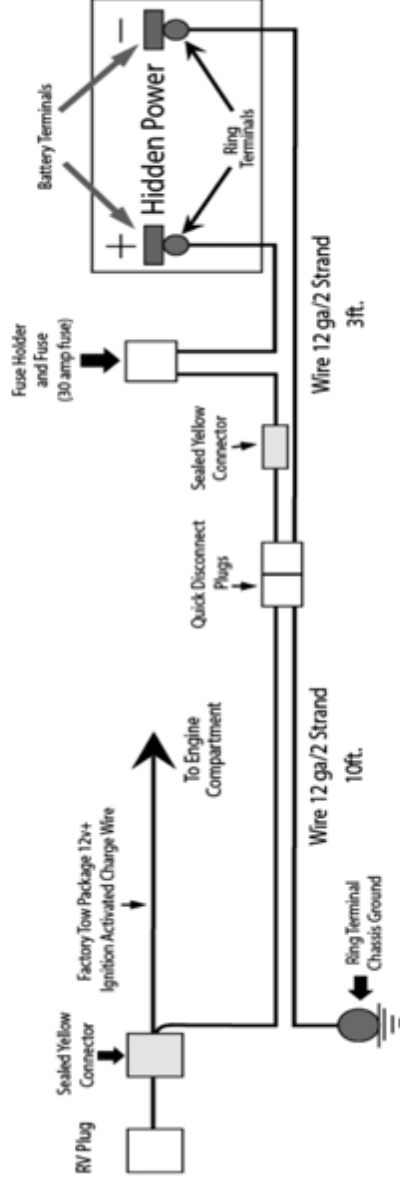
**To test if you have a factory battery separator, use a voltmeter or a 12V test light to test for key on/ key off positive power at the RV Plug. See RV Plug Diagram below.**

**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



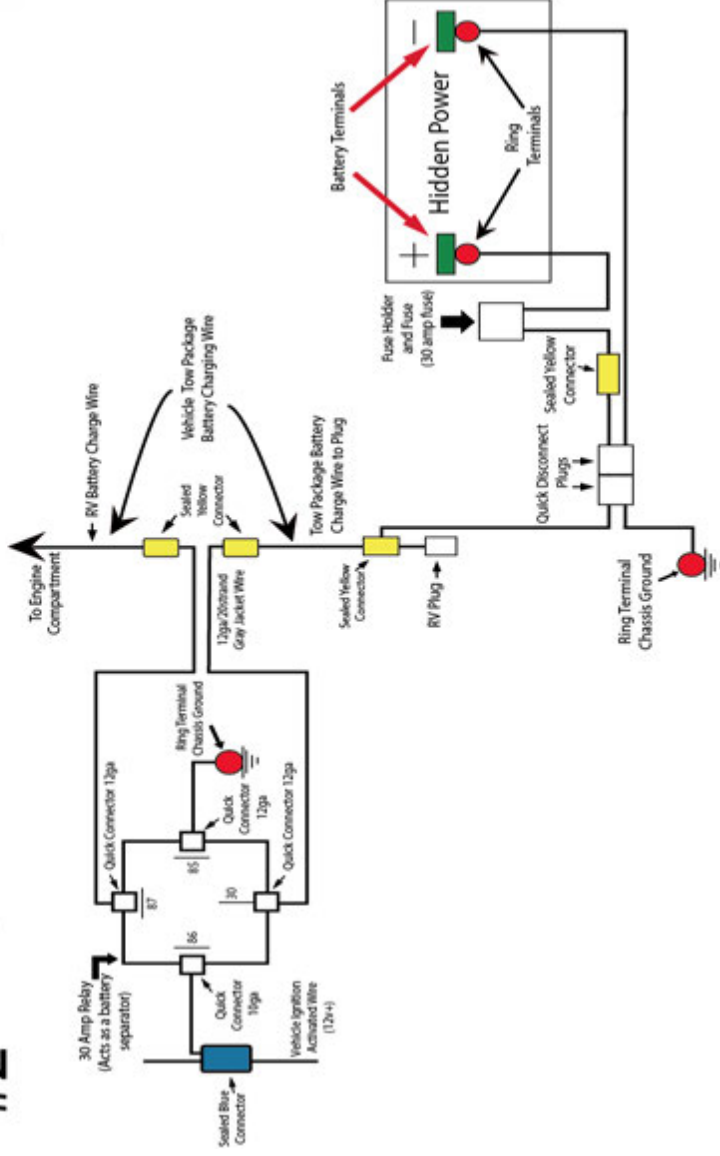
# #1 For Trucks with Factory Installed Ignition Activated Tow Package



# For Trucks without Factory Installed Ignition Activated Tow Package

## #2

### Ignition Activated Tow Package



## **RECOMMENDED TRUCK CAMPER INSTALLATION INSTRUCTIONS**

When securing any heavy load (especially a camper) in your truck bed, your front tie down points should pull the load forward as much as possible. Some camper anchor points may differ with different manufacturers, as well as the camper jack mounting locations. Your Torklift tie down inserts have offset triangular brackets to increase the angle of pull. These are designed to be used in the front facing forward, and the rear facing rearward but can be used in either front or rear. These recommendations are to be considered and followed as a basic rule of thumb . Obviously there will be some applications where this may not be possible. At a minimum, if opposite pull of both front and rear Tiedowns cannot be achieved for whatever reason, you should have at least a forward pull at the front or rear location. If your camper does not come with Rubber Bumpers on the front lower portion of the camper, installing Rubber Bumpers (Torklift has Rubber Bumpers available Part A7001) or using a block of wood such as a 2 x 4 in the bed, will prevent the camper from damaging the front bulk head of the truck bed. Minor movement (or settling) can occur in some incidental harsh driving conditions (on or off road). A rubber bed mat is not a requirement to maintain the lifetime warranty on a Torklift system, but a strong recommendation simply as a safety precaution to protect the truck bed, the bottom of the camper and to give the camper additional support.

**TORKLIFT DOES NOT RECOMMEND:** Installing your truck camper in your truck on top of a drop in plastic bed liner!!! The drop in plastic bed liners can slide on top of the truck bed surface, and the camper can slide on top of the slick surface of the bed liner. The liner can also act as a spring causing a trampoline effect increasing vertical truck camper movement, independent of the vehicle, possibly resulting in truck bed, and camper damage!

## **INSTRUCTIONS FOR FINISH MAINTENANCE OF TORKLIFT PRODUCTS**

### **POWDER COATED STEEL:**

To keep your Torklift products looking good follow these guidelines. All steel powder coated Torklift products are sandblasted for maximum adhesion and use a high quality industrial urethane based powder coat. Due to the extreme, harsh, undercar environment that your Torklift products live in, (consistently sprayed with corrosive road chemicals such as salt, and road debris), Torklift does not warrant the power coated finish.

To minimize corrosion from these factors on powder coated steel products, Torklift recommends regularly cleaning and inspecting the powder coated surface and touching up any affected areas with an enamel or urethane based aerosol paint product. If there are any areas of surface rust, there are also aerosol spray rust converters available on the market that can be used as a preparation to touch-up paint application. These finish maintenance products are available at any automotive parts supplier.

### **POLISHED STAINLESS STEEL :**

TorkLift utilizes quality grade 304 stainless steel in our stainless steel polished products. 304 stainless

steel is well known for its anti-corrosive properties. However, in some environments such as coastal regions or when coming in contact with some road chemicals, corrosion may occur. For a quick clean simply use WD40 and a cloth rag. We also recommend occasional polishing of our polished stainless products to maintain their attractive finish. Use an approved stainless steel chrome or aluminum mag wheel polish cleaning product which can be purchased from any automotive parts supplier.



## **Frame Mounted Tie Downs**

Leading the camper tie down industry in strength, quality, advanced design and installation. TorkLift TRUE frame mounted tie downs are far superior to all tie down systems available.

The TorkLift system is unique in its design and is patented. Four independent tie down points (with no belly or crossbar) working much like your receiver type trailer hitch as the inserts are removable allowing the system to be virtually undetectable when not in use. They are designed for each make and model to fit tight to the frame so as not to compromise ground clearance. Torklift tie downs are not universal 'one size fits all' therefore all the problems with correct fit for each particular application have been eliminated.

## **Original SuperHitch & SuperHitch Magnum**

High strength extended hitch system engineered for safely towing all types of trailers behind your truck and camper. With a max towing capacity of 14,000 lbs. with an extension\* , (17,000 lbs. to 20,000 lbs. without\*) the Original SuperHitch and Superhitch Magnum are rated the strongest in the industry.

