



# INSTALLATION INSTRUCTIONS TIRE CARRIER

Part Number: 74299, USE WITH 74300

Application: 2007 JEEP JK WRANGLER

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

**CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE.**

**READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.**

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. **WARNING** and **CAUTION** are signal words that identify the level of hazard. These signal words mean:

**WARNING** signals a hazard that could cause serious injury or death, if you do not follow recommendations.

**CAUTION** signals a hazard that may cause minor to moderate injury, if you do not follow recommendations.

This guide uses **NOTICE** to call attention to important mechanical information, and **Note**: to emphasize general information worthy of special attention.

## **WARNING**

### **INJURY HAZARD**

**Failure to observe these instructions could lead to severe injury or death.**

- Always** Read the Winch Operator's Manual and all warning labels before operating.
- Always** use extreme caution when drilling on any vehicle. Make sure that all fuel lines, brake lines, electrical wires, and other objects are not punctured or damaged when/if drilling on the vehicle. Thoroughly inspect the area to be drilled (on both sides of material) prior to drilling, and relocate any objects that may be damaged. Failure to inspect the area to be drilled may result in vehicle damage, electrical shock, fire or personal injury.
- Always** wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause eye injury.
- Always** use extreme caution when cutting and trimming during fitting.
- Always** remove jewelry and wear eye protection.
- Never** lean over battery while making connections.
- Never route electrical cables:**
  - o Across any sharp edges.
  - o Through or near moving parts.
  - o Near parts that become hot.
- Always** insulate and protect all exposed wiring and electrical terminals.
- Always** install terminal boots as directed in installation instructions.
- Always** use appropriate and adequate care in lifting components into place.
- Always** insure components will remain secure during installation and operation.
- Always** tighten all nuts and bolts securely, per the installation instructions..
- Always** replace all worn or damaged parts before operating.
- Never** operate this WARN product with damaged or missing parts.

## **Caution**

### **Moving Parts Entanglement Hazard**

**Failure to observe these instructions could lead to minor or moderate injury.**

- Always** take time to fully read and understand the installation and Operations Guide included with this product.
- Never** operate this product if you are under 16 years of age.
- Never** operate this product when under the influence of drugs, alcohol or medications.

**Read installation and operating instructions thoroughly.**

## **Notice**

### **Equipment Damage**

- Always** refer to the Installation and Specification Guide, supplied in the winch kit, for all wiring schematics and specific details on how to wire this WARN product to your vehicle.

**Read installation and operating instructions thoroughly.**

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## II. PARTS LIST

<u>Part Number</u>	<u>Qty</u>	<u>Description</u>
74296	1	Hardware Kit
74285	1	Support Bracket
74284	1	Tire Carrier
74252	1	Tire Mounting Bracket

## III. TOOLS REQUIRED

- Standard Socket Set
- 3/8 Racket
- Drill Motor and Bits (1/4" and 1/2")

## IV. TORQUE SPECIFICATIONS

#10	3 lb. ft. (4.1 N-m)
7/16	50 lb. ft. (67.8 N-m)
1/2	75 lb. ft. (101.7 N-m)
5/8	125 lb. ft. (169.5 N-m)

## V. INSTALLATION

### 1. Unpack the tire carrier and hardware

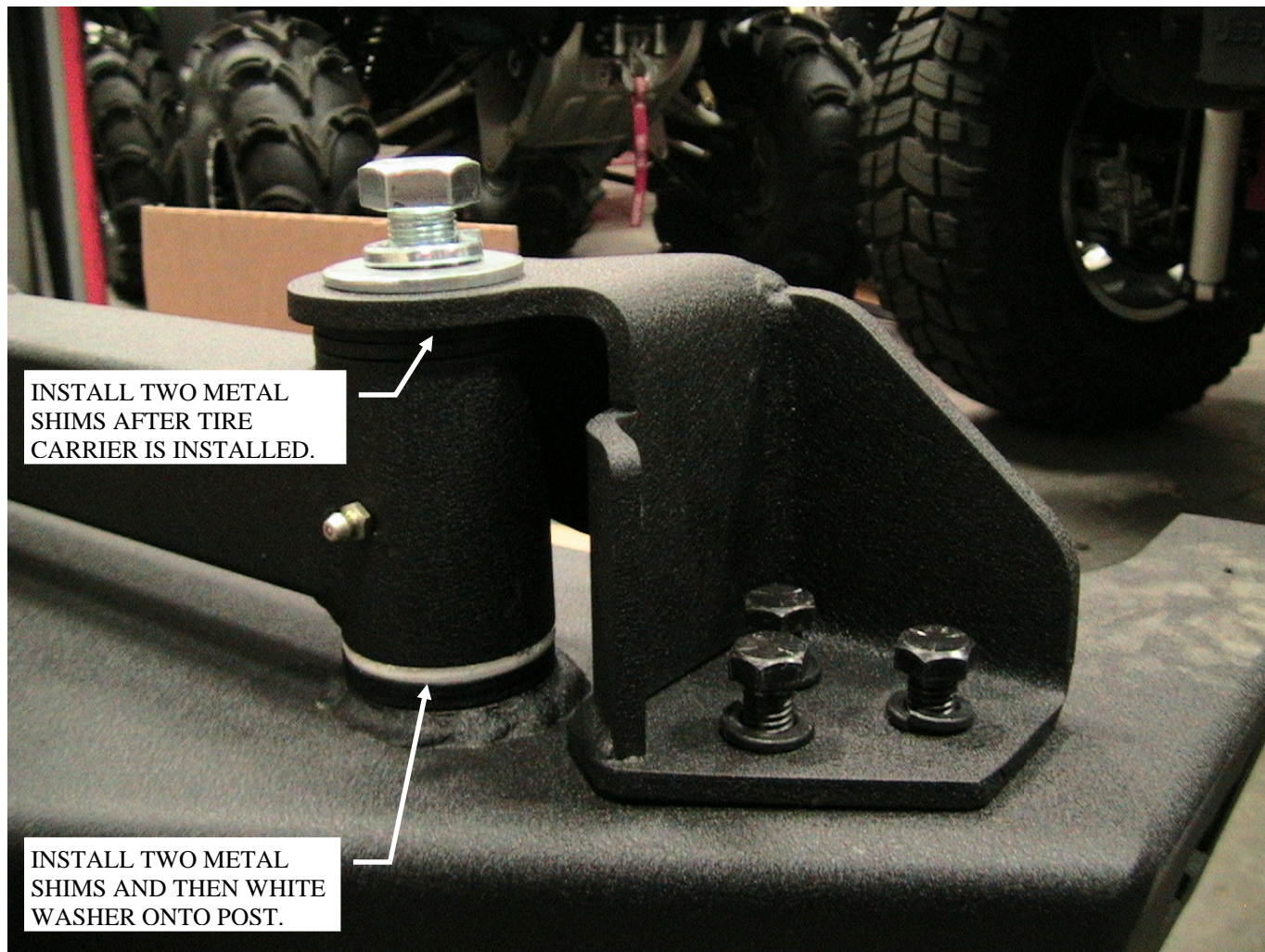
Apply a light coating of grease onto the tire carrier post on the bumper.

Four 1/8" shims are provided for adjusting the height of the tire carrier. The nominal height will have two metal shims slipped onto the post, the white nylon washer and then the tire carrier assembly. Use this nominal height as your starting point and slowly start to close the tire carrier. If the tire carrier is too low where it latches, disassemble and move one or both metal shims from above the tire carrier to below the tire carrier. If the tire carrier is too high where it latches remove one or both metal shims below the tire carrier and install them above the tire carrier.

All four shims must be installed once you have chosen the proper location.

The white washer must be installed just below the tire carrier.

Install the tire carrier post support bracket. Install the 5/8" bolt, lock washer and flat washer through the bracket and into the tire carrier post. Install the three black 7/16" bolts and lock washers through the bracket and into the three weld nuts in the top of the bumper. See **Figure 1**.

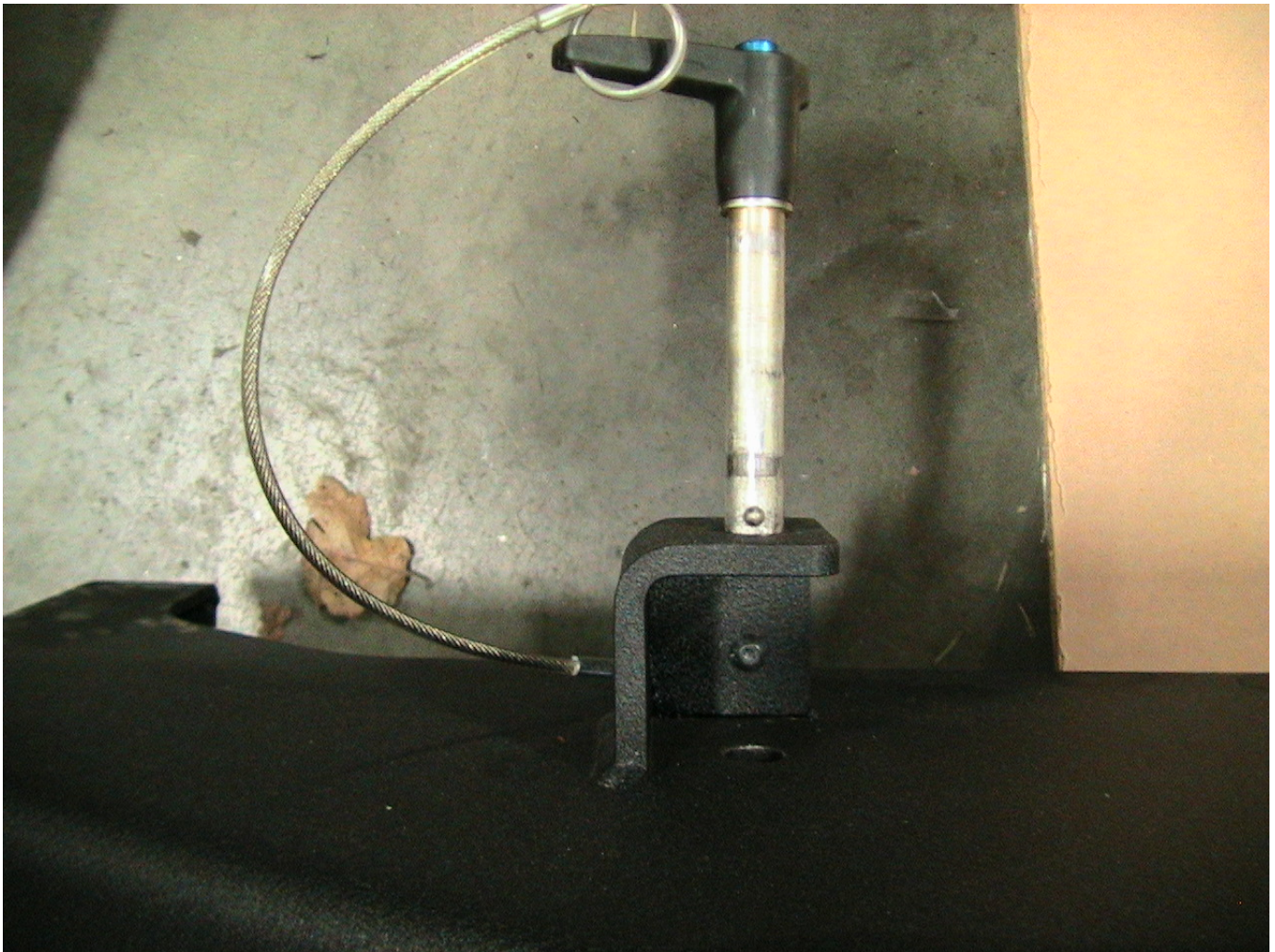


**Figure 1: Assembly of tire carrier to bumper.**

Install the zerk fitting as shown in **Figure 1**.

Torque all bolts to their specified values.

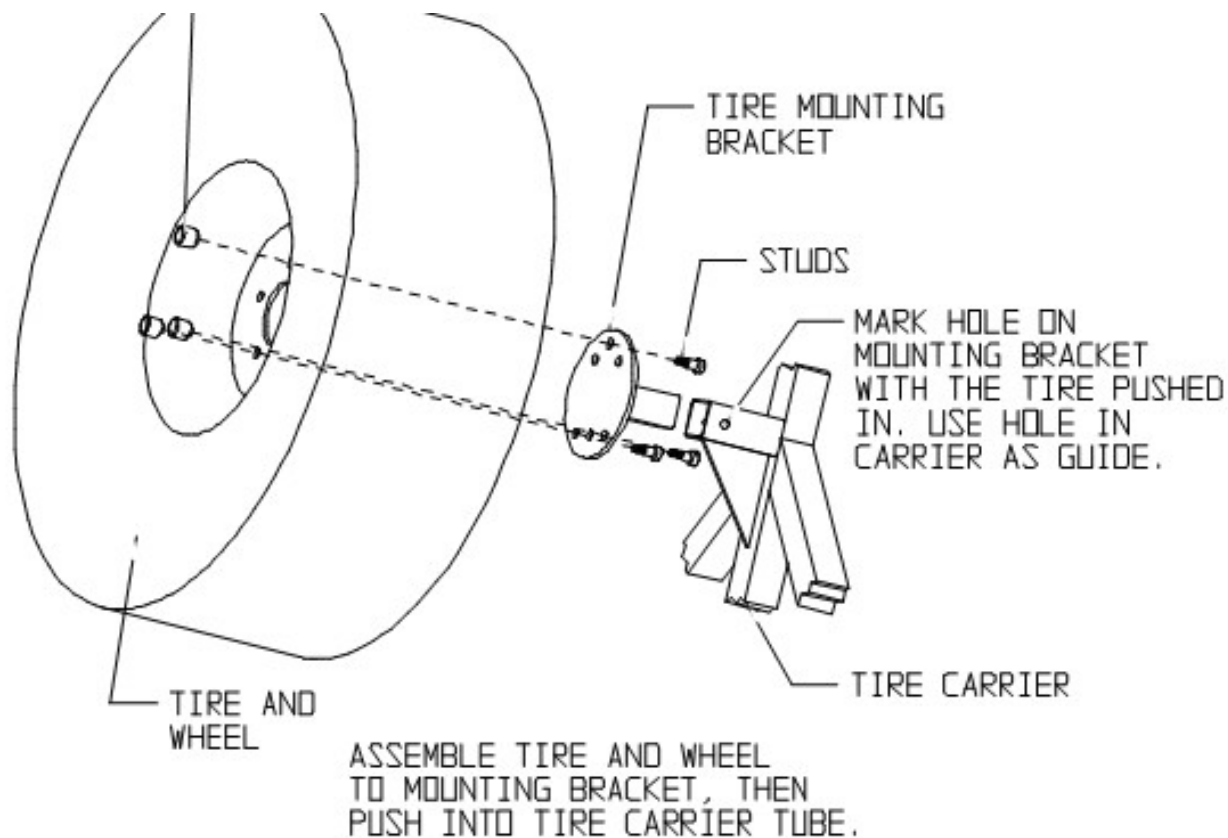
Install the detent pin and lanyard to the bumper. Use the #10 screw and nut supplied. Insert the screw through the hole in the bumper and the lanyard and install the nut. See **Figure 2**.



**Figure 2: Installation of detent pin and lanyard.**

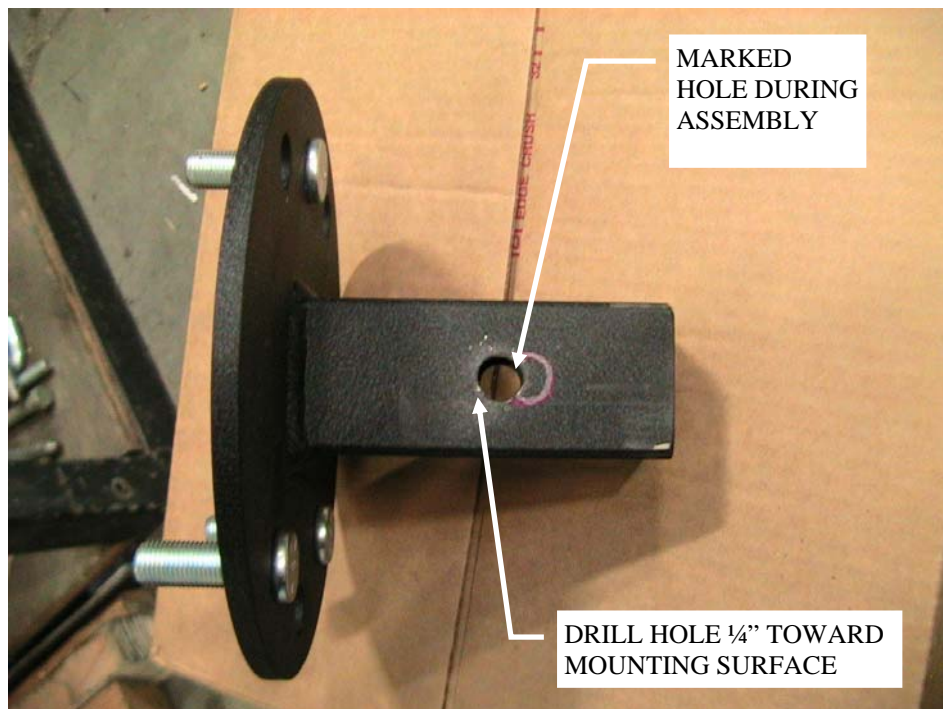
Close the tire carrier. Attach the spare tire to the tire-mounting bracket. Use the three wheel studs supplied in the hardware kit. The wheel studs can be pressed in or use a vise and hammer to install them. They can also be installed by installing the tire with lug nuts to pull the studs in when tightening the lug nuts. If you are using a 5 on 5-1/2 wheel, use the outer hole pattern. If you are using a 5 on 5 wheel (factory), use the inner hole pattern.

When the studs are installed, attach the tire to the mounting bracket. Slide the tire-mounting bracket, on the backside of the wheel, into the bracket mounting tube on the tire carrier. With the tire pushed all the way in, mark the tire-mounting bracket through the hole in the tire carrier tube. Remove the tire and mounting bracket from the tire carrier. Remove the bracket from the tire and wheel. See **Figure 3** for assembly.



**Figure 3: Tire assembly to carrier**

Using the marked location on the tire mounting bracket in the previous step, measure  $\frac{1}{4}$ " back toward the wheel mounting surface. This will give the tire pre-load when mounted. Using a  $\frac{1}{2}$ " drill bit, drill a hole through both sides of the tire mounting bracket at the marked location. Be sure to re-mark the hole  $\frac{1}{4}$ " closer to the tire mounting surface for pre-load. **See Figure 4.**



**Figure 4: Drill hole in tire mount**

**⚠ WARNING**



Drilling operations can cause flying chips. **WEAR SAFETY GOGGLES.** Flying chips can cause eye injury.

After drilling the hole, slip the tire-mounting bracket into the tube on the tire carrier. Use the supplied  $\frac{1}{2}$ " bolt, washers, and lock nut to bolt the mounting bracket to the carrier. Torque the  $\frac{1}{2}$ " bolt.

Mount the tire and wheel assembly to the tire carrier mounting bracket using three lug nuts. Locking lug nuts can help prevent theft of the tire and wheel.

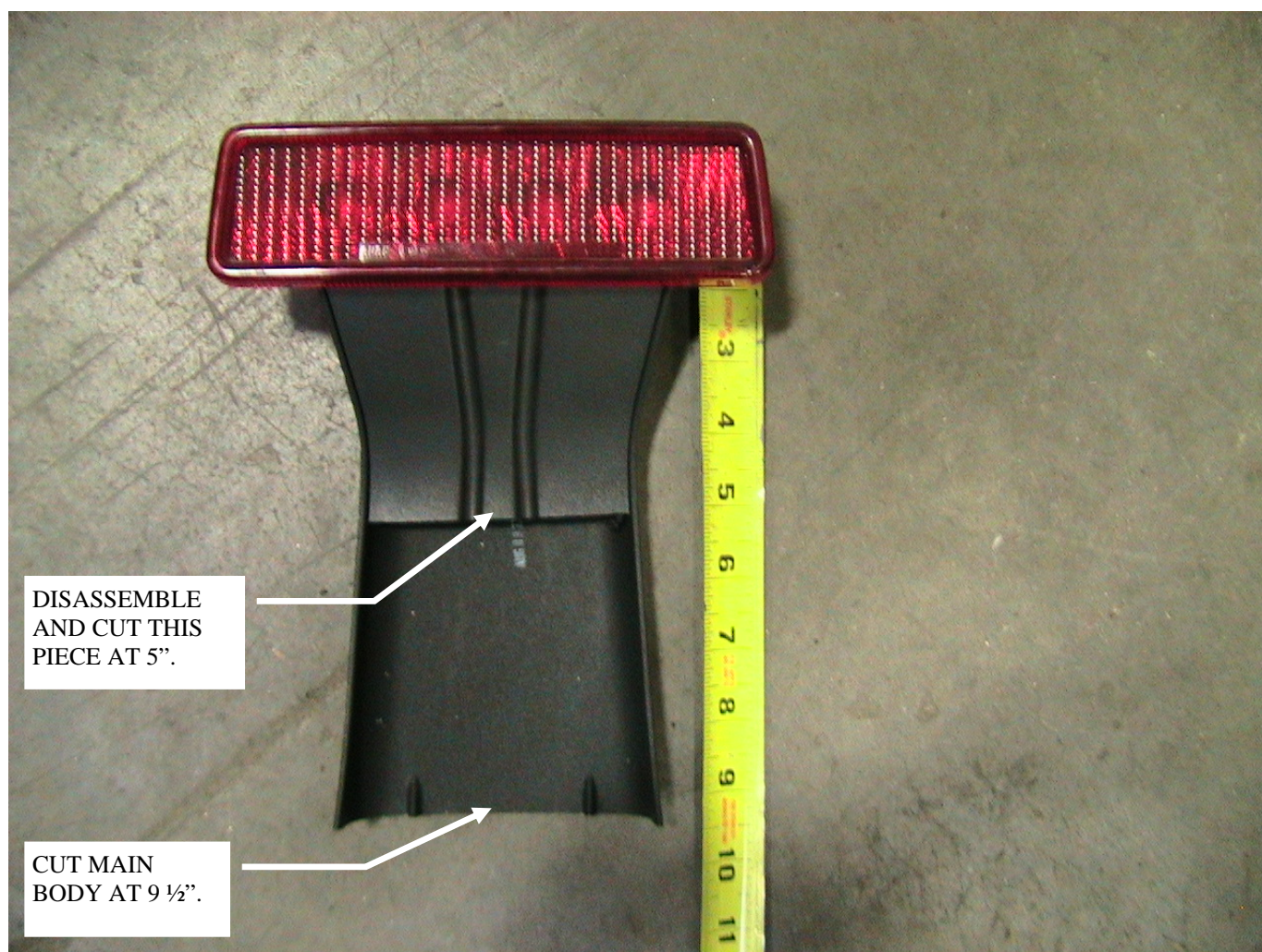
On vehicles with a 3<sup>rd</sup> brake light, it will be necessary to re-install the light. This can be easily done by cutting the Original Bracket and mounting it to the vertical post on the new tire carrier. Two small screws are supplied for mounting it. **See Figure 5.**

Unscrew the 4 screws on the back side of the 3<sup>rd</sup> Brake Light/ Factory tire mount and remove the lense portion before cutting the main body.

Cut the main body (factory tire mount) at approximately 9 ½” from the top.

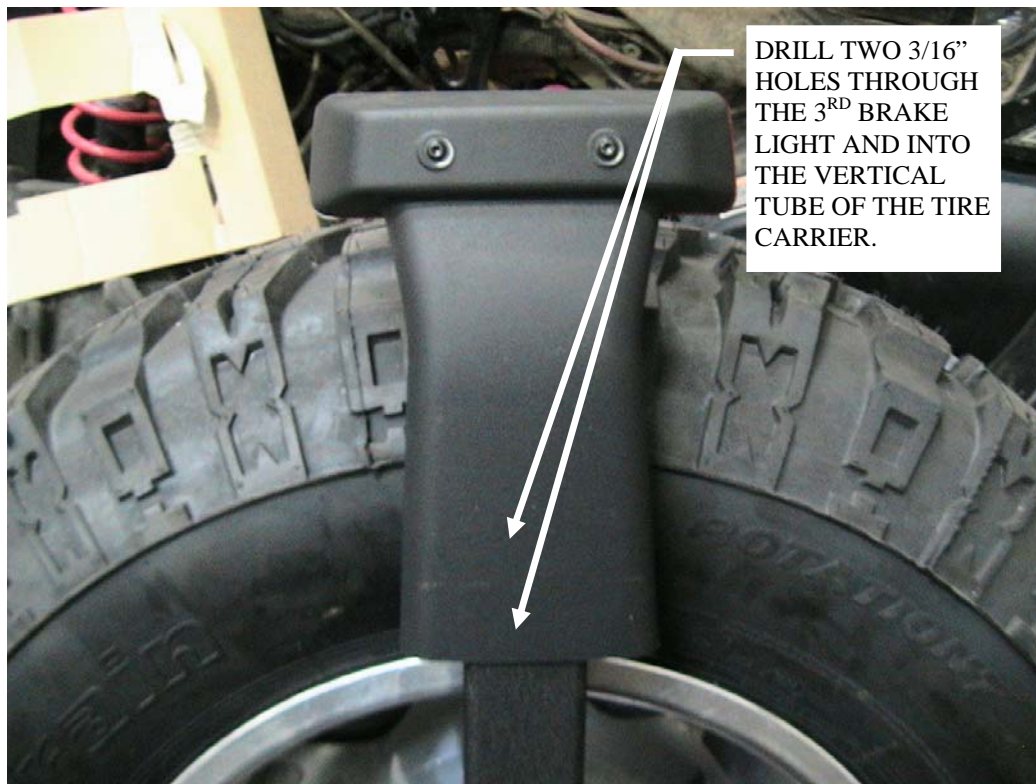
Cut the lense portion approximately 5” from the top.

It also may be necessary to lengthen the wiring. If so, do so now.



**Figure 5: Trim 3<sup>rd</sup> Brake Light**

Once the 3<sup>rd</sup> brake light is trimmed place it on the back of the tire carrier and drill two 3/16" holes to mount it to the vertical tube of the tire carrier. **See Figure 6.** Once the holes are drilled, install the supplied screws into the holes. Torque the screw to 3-5 lb. ft.



**Figure 6: Mount 3<sup>rd</sup> Brake Light**

**⚠ WARNING**



Drilling operations can cause flying chips. **WEAR SAFETY GOGGLES.** Flying chips can cause eye injury.

The installation is now complete.

**⚠ WARNING**

**FAILURE TO SECURELY TIGHTEN ALL BOLTS ON THE TIRE CARRIER CAN RESULT IN PRODUCT FAILURE WHICH MAY RESULT IN VEHICLE DAMAGE AND OPERATOR INJURY OR DEATH. DOUBLE CHECK THAT ALL BOLTS ARE SECURELY TIGHTENED PRIOR TO USE.**

## VI. MAINTENANCE/CARE

1. Inspect all parts on the tire carrier and related hardware periodically. Replace all hardware that appears rusted or deformed.
2. Inspect all nuts and bolts on the tire carrier and related hardware periodically. Tighten all nuts that appear to be loose. Stripped, fractured, or bent bolts or nuts need to be replaced.
3. Periodically grease the tire carrier via the installed grease zerk fitting in the pivot.