

# Quadratec® QRC Rear Bumper with Tire Carrier

Installation Manual for '87-'06 Wrangler

#12057.0322



**⚠ WARNING ⚠**

**TO REDUCE RISK OF SERIOUS INJURY OR PROPERTY DAMAGE: READ ALL SAFETY MESSAGES AND UNDERSTAND ALL INSTRUCTIONS AND PROCEDURE NOTICES BEFORE ATTEMPTING TO INSTALL OR USE THIS PRODUCT. FOLLOW ALL INSTRUCTIONS AND WARNINGS WITH PRODUCT & VEHICLE OWNERS MANUAL.**

**⚠ WARNING ⚠**

**THIS BUMPER NOT DESIGNED FOR TOWING. SEE PAGES 12-13 FOR URGENT CAPACITY & USE WARNINGS. DO NOT ALLOW RECEIVER MOUNTED ACCESSORIES (BIKES, ETC.) TO BLOCK VEHICLE MIRRORS OR LIGHTS. OBSERVE ALL WARNINGS.**

**⚠ CAUTION ⚠**

**RISK OF EYE INJURY! SAFETY GLASSES MUST BE WORN AT ALL TIMES WHILE INSTALLING OR MAINTAINING THIS PRODUCT. TORQUE AND RECHECK FASTENERS AFTER 250 MILES AND FREQUENTLY THEREAFTER. INSPECT BUMPER, WINCH AND MOUNT BEFORE USE. DO NOT USE IF DAMAGED.**

**NOTICE**

**CHECK STATE AND LOCAL HIGHWAY SAFETY LAWS REGARDING PERMITTED BUMPER TYPES AND HEIGHTS.**



**The Trusted Source**

**A Few Words About Product Safety:**

Your Rear Bumper is intended to enhance the utility and enjoyment of your off road capable vehicle. Before installation, please take a moment to review the following safety information

and installation instructions. Important safety information is generally preceded by one of three signal words indicating the relative risk of injury.

The signal words mean:

<b>⚠ WARNING ⚠</b>	<b>a hazardous situation which, if not avoided, could result in death or serious injury. You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.</b>
<b>⚠ CAUTION ⚠</b>	<b>a hazardous situation which, if not avoided, could result in minor or moderate injury. You CAN be moderately HURT and also may suffer property damage if you don't follow instructions.</b>
<b>NOTICE</b>	<b>Careful attention is required to this instruction or operation but does generally not relate to personal injury. Damage to your Quadratec® product or other property may result if you don't follow instructions.</b>

**Before You Begin Installation:**

Congratulations on your purchase of the Quadratec QRC Rear Bumper with Tire Carrier for your Jeep® Wrangler.

As bumpers tend to be heavy, we strongly suggest you get the help of a friend for steps that involve lifting, locating or holding the bumper during installation.

When unpacking, check to make sure all parts are included and not damaged due to shipping. If any part is missing or broken, please call Customer Service at 800-745-6037 as soon as possible.

Thank you again for your purchase and let's start the installation process.

<b>NOTICE</b>	<b>As you unpack your rear bumper, be careful not to scratch the finish with a knife or razor. We suggest placing the unpacked bumper back into the original box so it does not get scratched before the installation begins. It is highly recommended that a second person assist with the installation of this bumper.</b>
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**Bumper Care and Maintenance:**

This custom fit bumper has been designed for long life and great looks. With proper care, it is designed to provide years of use.

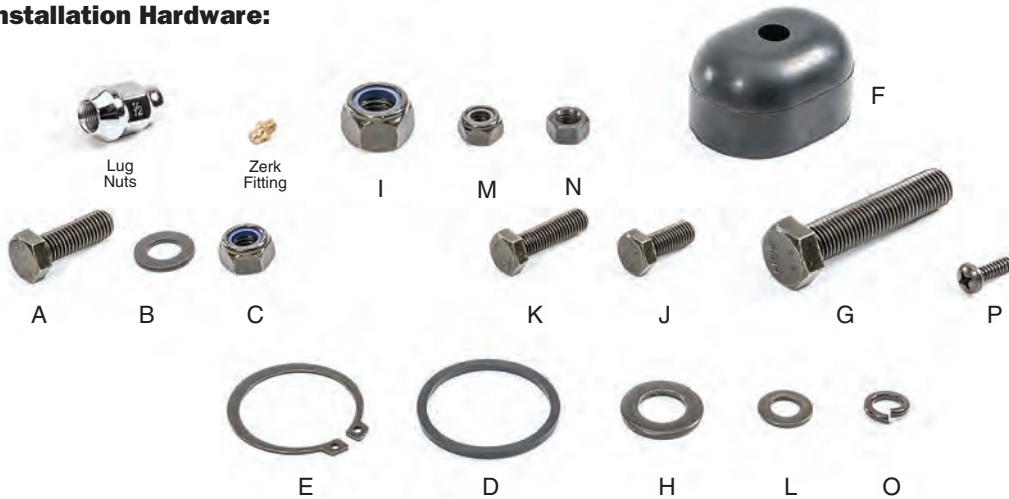
Please see page 13 in this instruction booklet for all suggested care for your Quadratec QRC Rear Bumper with Tire Carrier.

Though constructed of only the finest materials, this bumper must be maintained to keep its look while performing under the toughest conditions.



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## Installation Hardware:



### PARTS LIST:

- QRC Rear Bumper - QTY 1
- A) 12mm x 30mm Bolts - QTY 12
- B) 12mm FLAT Washers - QTY 12
- C) 12mm Lock Nuts - QTY 12

### TIRE CARRIER HARDWARE:

- Tire Carrier Assembly - QTY 1
- Top post Assembly - QTY 1
- Tire mounting bracket - QTY 1
- Lug Nuts - QTY 3
- Zerk Fitting - QTY 1
- D) Nylon Washer- QTY 1
- E) Circle Clip- QTY 1
- F) Rubber Bushing - QTY 1
- G) 7/8" x 2.5" Hex head Bolt - QTY 1
- H) 7/8" Flat Washer - QTY 2
- I) 7/8" Lock Nut - QTY 1
- J) 3/8" x 1" Hex Head Bolts - QTY 3
- K) 3/8" x 1.25" Hex Head Bolts - QTY 2
- L) 3/8" Flat Washers - QTY 6
- M) 3/8" Lock Nuts - QTY 3
- N) 3/8" Standard Nuts - QTY 2
- O) 3/8" Lock Washers - QTY 2
- P) #10 x1" Sheet metal screw - QTY 1

### REQUIRED TOOLS:

- Safety Glasses
- 19mm Socket and Driver
- T30 Torx Driver
- T40 Torx Driver
- 18mm Socket
- 16mm Socket
- 13mm Socket
- 27mm Socket
- 15/16" Socket
- 5/8" Socket
- 19mm Box End Wrench
- 17mm Box End Wrench
- Power drill (97-06 models only)
- 3/16" Drill bit (97-06 models only)
- 7/16" Drill bit (97-06 models only)
- Pencil (97-06 models only)
- Phillips head Screw Driver
- Torque Wrench

**Required Tools Note:** Depending on what bumper you currently have on your Jeep® (factory or after-market) will determine exactly what wrench or socket you will need to remove and install your new Quadratec bumper.

The socket heads listed above are to remove and re-install factory bolts on a 97-06 Wrangler. Some Aftermarket bumpers use an oversized Phillips Head or other sized Hex head bolts.



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### Installation Step One: Remove Stock Bumper

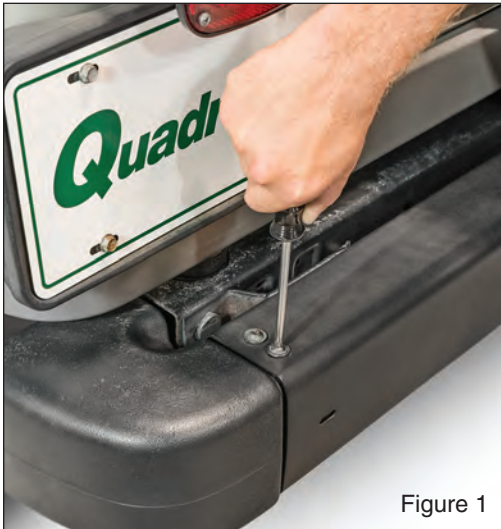


Figure 1



Figure 2

**Removing Existing '97-'06 Rear Bumper**  
Before you start, put on safety glasses. Locate and remove the five T30 Torx Bolts (2 on top, 3 on under side) holding your plastic end caps to the existing

rear bumper (FIG 1). Locate the bolts holding the body mount and bumper bracket to the frame (FIG 2).

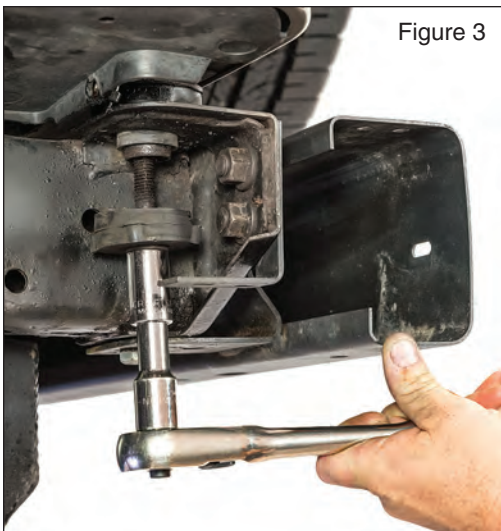


Figure 3

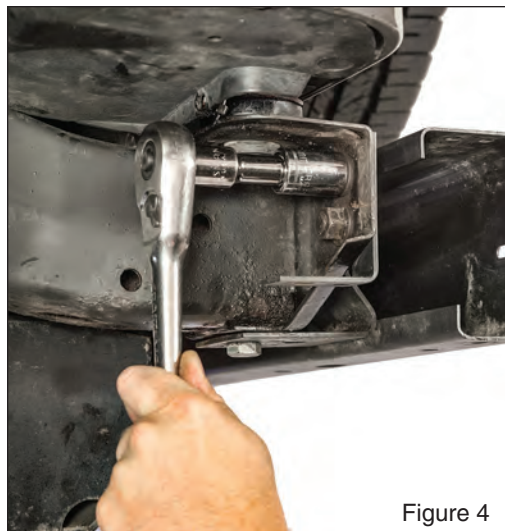


Figure 4

Next, use the 5/8" socket to remove the rear body mount (FIG 3). Finally, use a 18mm socket to remove the nuts

holding the bumper to your Jeep's frame (FIG 4). Repeat these steps for both sides of your Wrangler vehicle.



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### Installation Step One (continued):



Figure 5

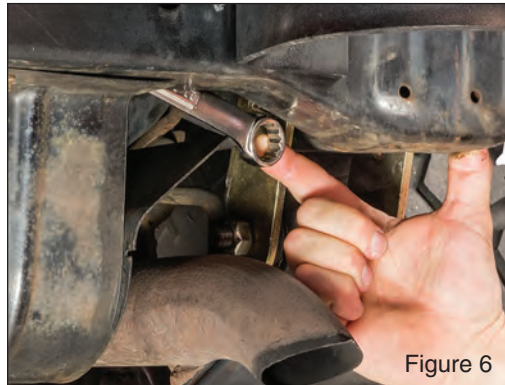


Figure 6

#### **Remove '87-'95 Rear Bumperettes**

Put on safety glasses. Locate and remove the four bolts and nuts holding bumperettes to your Jeeps frame (FIG 5). Our bolts were a 16mm head and

nuts were 18mm. Removal Tip, we inserted the box end wrench into the frame rail as shown for easy removal of the nuts (FIG 6).

### Installation Step Two: Install QRC Rear Bumper

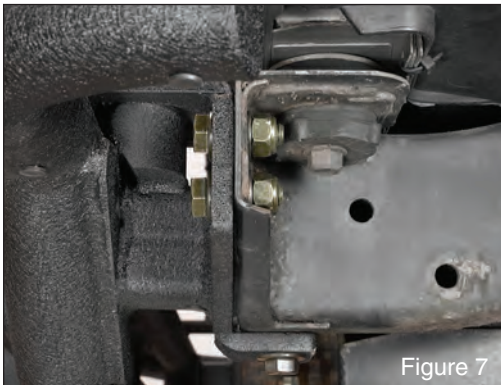


Figure 7



Figure 8

#### **Installing QRC Rear Bumper**

Once existing rear bumper is removed, the next steps will be determined by what model year Jeep® you own. With a friend, lift rear bumper into position. The outside pre-drilled holes in your bumper will line up with the outside mounting bracket holes on your Wrangler. You will need to drill two holes per side (97-06 Models Only) for the inside mounting holes. With the help of an

other person, the Bumper should be centered on outside holes only and installed on the top hole using one (1) 12mm x 30mm bolt, one (1) 12mm Flat washer and one (1) 12mm nut (FIG 7). Tighten these two bolts snug. With the outside holes of the bumper centered on the holes, mark the center of the inside holes of the bumper mounting bracket making sure the mounting bracket/bumper is level (FIG 8). Repeat for both sides.



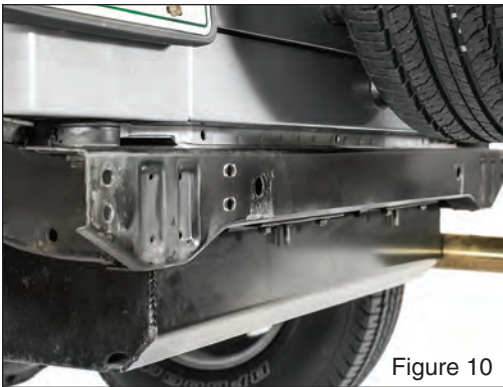
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**Installation Step Two (continued):**

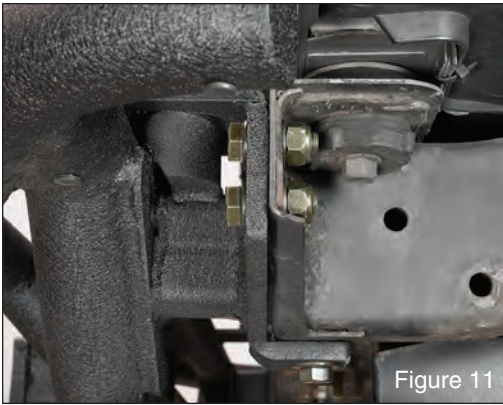
Remove the bumper from the vehicle by taking out the two bolts previously installed to position the bumper on the frame. Using a 3/16" drill bit, drill a pilot hole in the four marked areas/hole locations being *EXTREMELY* careful not to

drill too deep as the fuel tank is directly behind the bumper (FIG 9). Replace the 3/16" drill bit with the 7/16" drill bit and drill out the pilot holes using *EXTREME* care not to drill too deep. We recommend use of a drill stop.

**⚠ WARNING ⚠** Use extreme care when drilling into the rear frame of your vehicle. The gas tank is directly behind the cross member and can be punctured if drilling is too deep. There is a potential fire and safety hazard if the fuel tank is punctured.



With the four 7/16" holes drilled, the bumper should be centered on the inside and outside holes. With the help of a friend, re-attach the rear bumper to the rear frame upper 8 bolt locations using (8) 12mm x 30mm bolts, (8) 12mm Flat Washers, and (8) 12mm nuts per side. Do not tighten at this time. Attach the lower mounting holes to the rear frame using (4) 12mm x 30mm bolts, (4) 12mm Flat Washers, and (4) 12mm nuts per side. Tighten all 12 bolts/nuts to 45 ft-lbs using a Torque Wrench, (FIG 11).



**NOTICE** Torque Specifications: All New Installed Bolts = 45 ft-Lbs

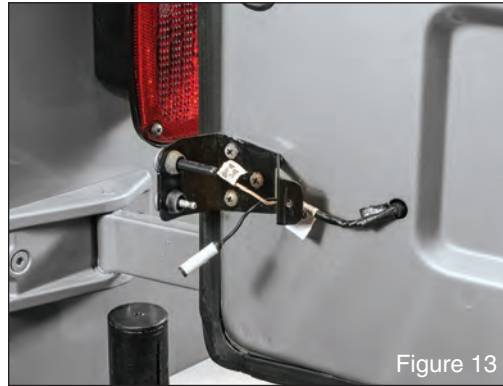


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**Installation Step Three:**



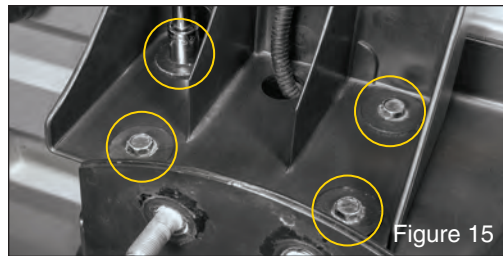
**Removing Factory Tire Mount and 3rd Brake Lamp**  
Open the tailgate and find the Phillips head screw and remove from bracket



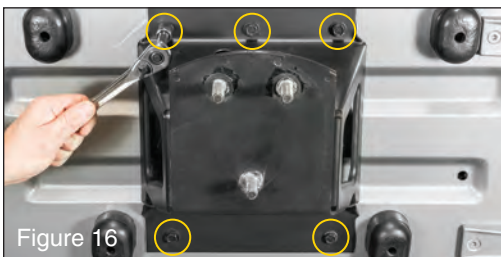
(FIG 12). Remove the plastic cover and unplug the wiring plugs but pulling towards the door latch (Fig 13).



Once the wiring is unplugged close the door slightly and carefully remove the wiring & grommet from tailgate as shown in Figure 14.



Next locate the four bolts (13mm on 97-06 & T40 Torx on 87-95) holding the brake lamp to the tire carrier and remove them as shown (FIG 15).



Now that the lamp is removed you can access the bolts holding tire carrier to the tailgate. Using a 13mm socket and drive remove the 5 bolts (FIG 16).



Remove tire carrier and clean tailgate to your liking and place the 5 removed bolts back into holes and snug them up to keep out debris (FIG 17).



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**Installation Step Four:**

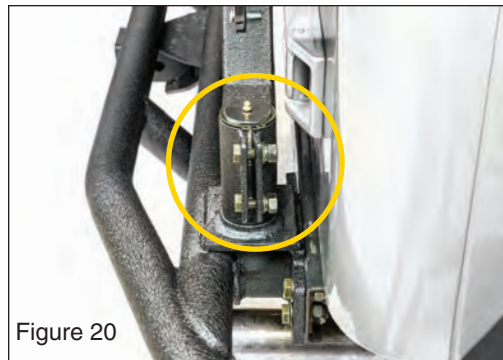


**Installing QRC Rear Tire Carrier**

Once the bumper is leveled and installed, you can now install the tire carrier mount to the bumper. Locate the large triangle tire carrier assembly, the supplied large nylon washer and circle clip. Place the Nylon Washer over the

rear bumper post then the tire carrier on top of the washer on the post (Fig 18) then install the circle clip. Swing the tire carrier to the closed position, remove safety pin and latch it in place with the latching pin (Fig 19).

Secure the tire carrier in place with the installed two bolts (Fig 20). See the general maintenance tips at the end of the instruction sheet on keeping your roller bearing assembly properly lubricated through the zerk fitting.



Note: We recommend a high quality bearing grease for roller bearing assembly.



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### Installation Step Five:

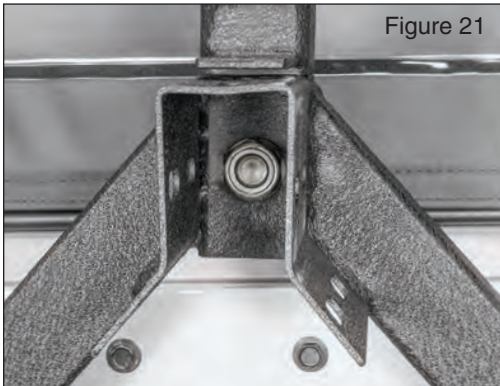


Figure 21

**Install Top Post & Tire Carrier Bracket**  
Locate the top tire carrier post. Insert the top post into the top of the installed tire carrier lining up the mounting holes. Using (1) 7/8" x 2.5" Hex head bolt, (2) 7/8" Flat Head Washers and (1) lock nut secure the top post in place (Fig 21).

Locate the tire mounting bracket. This bracket has one set of slotted holes on it and it will be mounted to the tire carrier which has two sets of slotted holes. Your tire size and wheel off-set, will determine which of the two sets of slotted holes will be used.

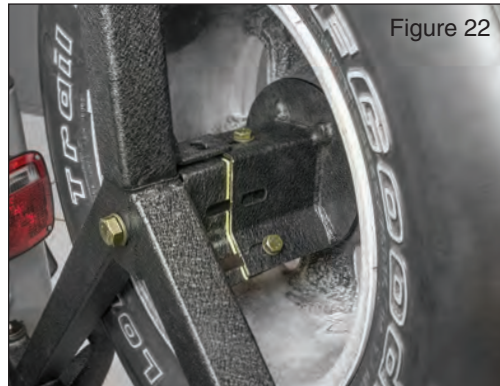


Figure 22

The best way to determine which holes to use is to mount the tire mounting bracket to the inside of your spare tire with the lug nuts. With a friend, gently place the tire mounting bracket on the tire carrier until the tire touches the triangle portion of the tire carrier (Fig 22).

Once the tire is snug against the tire carrier, mark with a pencil the tire carrier mount and the tire carrier where the bracket should be mounted. Remove the tire/tire carrier bracket from the tire carrier and remove the tire carrier bracket from the wheel/tire.

### NOTICE

To prevent excess tire movement and to eliminate rattles, it is very important that you adjust the tire carrier mount as close to the tire carrier as possible. The tire itself should touch the triangle portion of the tire carrier when properly installed.



Figure 23

Position the Tire carrier mounting bracket on the tire carrier lining up your pencil marks exactly. Install the mounting bracket using (3) 3/8" x 1" Hex head bolts, (6) 3/8" flat washers, (3) lock nuts (Fig 23). Tighten these bolts securely.



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**Installation Step Six:**



**Installing Rubber Tailgate Bumper**  
Depending on the tire size, it may be necessary to install the supplied rubber bumper/spacer to the back of the tire carrier triangle frame. This bumper spacer will further reduce any rattling that may occur. Choose the best location on the tire carrier and mark with a pencil the drill location. Using a 3/16" drill bit, drill a hole into the rear of the

tire carrier (Fig 24). Install the Rubber bumper Spacer into this hole with the supplied #10 x 1" sheet metal screw (Fig 25).

*Congratulations! Installation is now complete. Please review next section for instructions for use of the Tire Carrier.*



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### Using Your Tire Carrier:



Your rear tire carrier is designed for ease of use and has special features incorporated to ensure it is secure while driving.

When opening and closing your tire carrier please note the following use instructions and the corresponding NOTICE, below. The tire carrier latch mechanism is spring loaded to always latch into the latch receiver point. It also



contains a safety pin with a rotating basket for extra safety. It is extremely important that, when driving this latch is secured in the latch receiver point and that the safety pin is secure with the basket closed (Fig 26).

To swing open your tire carrier, undue the safety basket from the safety pin and remove pin from the latch (Fig 27).



Gently lift up on the latch mechanism with one hand and holding the tire carrier with the other hand (Fig 28).



While maintaining control of the tire carrier at all times, carefully swing it outward (Fig 29).

#### NOTICE

On an incline the tire carrier will want to swing open beyond the rear of the vehicle. Always maintain control of the tire carrier so it does not fully extend back into your vehicle. Vehicle damage can occur if the tire carrier is over extended!



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**Using Your Tire Carrier (continued):**



Figure 30

To close your tire carrier, Place one hand on the tire carrier and the other on the top of the latch mechanism. With a slight lifting motion, carefully swing the tire carrier back towards the receiver mounting point. When the latch is on the receiver mounting point, gently lift the latch up to assist it in securing into the receiver mounting point (Fig 30).



Figure 31

When the latch locks into the receiver mounting point you will hear a click. Lightly shake the tire carrier to make sure it has latched securely (Fig 31).

Once the tire carrier is properly closed and in place, IMMEDIATELY secure the safety pin and basket to the latch, each and every time you close it.

**Regarding Tire Carrier Safety:**

**⚠ WARNING ⚠**

TIRE CARRIER WILL ACCOMMODATE MOST 35" TIRE/RIM COMBINATIONS. TO REDUCE RISK OF SERIOUS INJURY OR PROPERTY DAMAGE:

**⚠ WARNING ⚠**

INSTALL ACCORDING TO INSTRUCTIONS. TORQUE AND RECHECK FASTENERS AFTER 250 MILES AND FREQUENTLY THEREAFTER. INSPECT AND DO NOT USE CARRIER IF DAMAGED.

**⚠ WARNING ⚠**

DO NOT FORCE MOUNT OR LATCH IF TIRE/RIM OVERSIZED. ALWAYS SECURE WITH PIN AFTER FULLY ENGAGING LATCH.

**⚠ WARNING ⚠**

DO NOT MODIFY CARRIER OR ADD ADDITIONAL ACCESSORIES OR WEIGHT.

**⚠ WARNING ⚠**

CONSULT AND FOLLOW ALL LIMITATIONS & WARNINGS IN YOUR VEHICLE OWNERS MANUAL.



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### **Bumper Care and Maintenance:**

Your Bumper has been designed and manufactured to provide years of use. However, like any product, general maintenance is required to keep it functioning properly and looking new.

Since the bumper is located on the rear of the vehicle, it is subject to rock chips and other debris potentially causing portions of the paint to chip off. We recommend using a textured black spray paint sprayed on a piece of cardboard and Q-Tip to gently fill in these chips. This will prevent any rust from forming. On all bumpers there is a chance of some surface rust showing over time due to metal particles being embedded in the paint. This surface rust is easily removed by a non-abrasive cleaner/polish and a soft bristle brush (not a metal brush!).

For bumpers with a textured finish, wash only with soapy water and avoid other waxes and polishes.



To keep your tire carrier functioning properly we recommend periodically applying grease to the hinge through the zerk fitting. Failure to grease the zerk fitting can lead to difficulty in opening and closing of the tire carrier.

Note: We recommend a high quality bearing grease for roller bearing assembly.

### **Regarding Receiver Bumper Safety:**

**⚠ WARNING ⚠**

**THIS BUMPER IS NOT INTENDED FOR ACCIDENT PROTECTION OR USE OTHER THAN MOUNT FOR ACCESSORIES (BIKE RACKS, ETC.).**

**⚠ WARNING ⚠**

**THIS RECEIVER IS NOT FRAME-MOUNTED, AND IS NOT INTENDED FOR TOWING.**

**TO REDUCE RISK OF SERIOUS INJURY OR PROPERTY DAMAGE:**

**⚠ WARNING ⚠**

**DO NOT TOW OR USE RECEIVER FOR TRAILER HITCH**

**⚠ WARNING ⚠**

**FOLLOW ALL INSTRUCTIONS & WARNINGS WITH PRODUCT OWNERS MANUAL AND VEHICLE OWNERS MANUAL.**

**⚠ WARNING ⚠**

**DO NOT ALLOW RECEIVER MOUNTED ACCESSORIES (SUCH AS BIKES, ETC.) TO BLOCK VEHICLE MIRRORS OR LIGHTS.**



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# QuadraTop®



## Key QuadraTop Features

**1. Fabric:** Tough 23 ounce mildew and UV resistant vinyl coated polyester and cotton fabric provides lasting durability and is backed by a limited three year warranty. QuadraTops are available in factory original colors and textures to keep your Jeep® looking showroom new!

**2. Stitching:** Our QuadraTop panels are sewn together with marine grade 135 gauge bonded Anafil® polyester thread that's super strong and UV protected. This rot resistant thread will provide years of worry free durability.

**3. Seams:** All exposed QuadraTop seams feature heat tape seals over double stitching to keep moisture out.

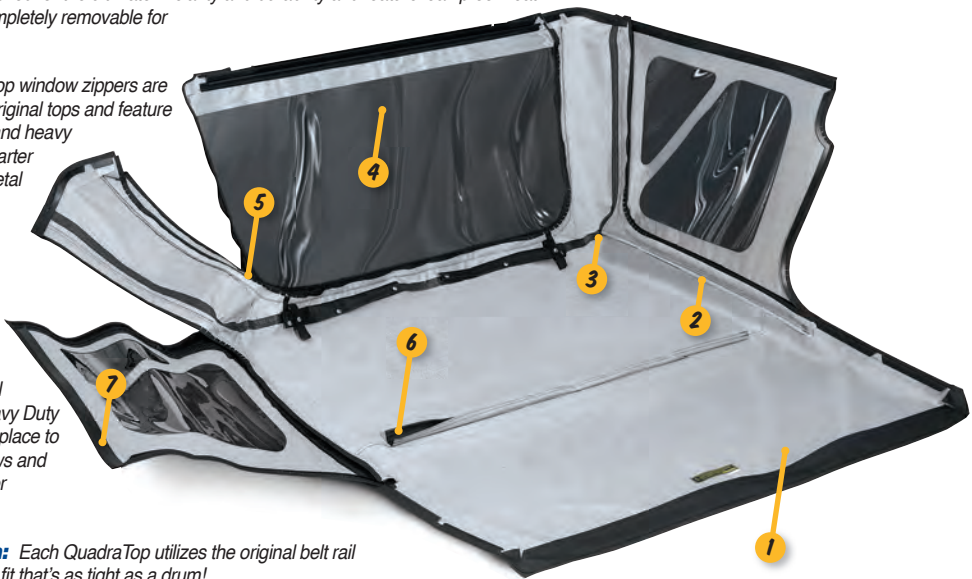
**4. Windows:** QuadraTops are available with your choice of zip out crystal clear windows or rear and quarter windows with a dark 31% tint keeping interiors much cooler in hot summer months. Our glass panels are 30mil thick and DOT approved for the ultimate in clarity and durability and feature leak proof heat seals. All windows are completely removable for open air enjoyment.

**5. Zippers:** QuadraTop window zippers are stitched in place like the original tops and feature jam resistant technology and heavy duty plastic teeth. Side quarter windows feature single metal pulls while the rear glass zippers have user friendly double pulls.

**6. Hook & Loop Attachment:** Our patterns are fully tested to ensure a tight and wrinkle free fit like the originals. All necessary snaps and Heavy Duty Hook & Loop strips are in place to install over the factory bows and there's never any drilling or modifications required!

**7. Belt Rail System:** Each QuadraTop utilizes the original belt rail attachment methods for a fit that's as tight as a drum!

**8. Upper Door Skins:** Our fabric upper doors install in just minutes onto your existing factory upper door frames by hook and loop fastener strips. It's quick and easy with our step by step illustrated instructions. Fabric upper doors have double sided weather strip bulb seals and double window zipper pulls. Note: Wranglers with half steel doors only feature clear upper door windows to meet federal and state requirements.



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## **QuadraTop® Replacement Soft Tops**

**Affordable quality and durability with no compromises!** Our top kits are designed to work with factory hardware and feature finer quality materials and workmanship along with the latest in manufacturing technologies for unprecedented value. Our new product team with decades of soft top knowledge and experience delivers you all the great features you want in a replacement top with unsurpassed customer service and support. Our QuadraTop is the best value in replacement soft tops compared to other tops costing hundreds more. If for any reason, you are not completely satisfied with your soft top purchase or have an installation question, please contact our professional customer support staff for a solution. All QuadraTops feature a limited Three year warranty against defects. The incredible fit & detailed instructions make installation as easy as... One, Two, Three!

### **Applications for YJ and TJ Wrangler Vehicles:**

For '88-'95 Wrangler w/Upper Doors & Clear Windows #11000.00XX

For '88-'95 Wrangler w/Upper Doors & Tinted Windows #11000.01XX

▶ Colors: 09 · 15 · 17

For '97-'02 Wrangler w/Clear Windows #11000.02XX

For '97-'02 Wrangler w/Tinted Windows #11000.03XX

For '97-'02 Wrangler w/Upper Doors & Clear Windows #11000.04XX

For '97-'02 Wrangler w/Upper Doors & Tinted Windows #11000.05XX

▶ Colors: 15 · 17 · 33

For '03-'06 Wrangler w/Clear Windows #11000.0635

For '03-'06 Wrangler w/Tinted Windows #11000.0735

For '03-'06 Wrangler w/Upper Doors & Clear Windows #11000.0645

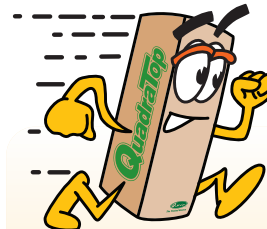
For '03-'06 Wrangler w/Upper Doors & Tinted Windows #11000.0745

▶ Colors: 35



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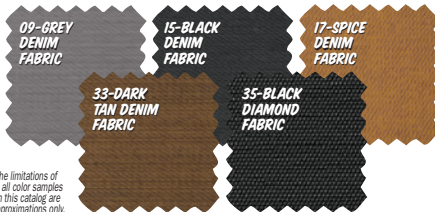
**SAME DAY SHIPPING!\***

**Factory Trained Soft Top  
Advisors Always on Call!**

**Go online or call for latest price...**



**AFFORDABLE  
QUALITY  
WITH NO COMPROMISES!**



Due to the limitations of printing, all color samples shown in this catalog are close approximations only.



\*Order an In Stock New QuadraTop Soft Top for Delivery in the Lower 48 States Before 4pm Eastern Standard Time, and It'll Ship UPS Ground the Same Day. Ground Shipments take between 1-7 Business Days to Deliver. Need Your Top Faster? Expedited Shipping Options are Available with a UPS Air Freight Surcharge.



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# Quadrtec® Exclusive Three Year Limited Warranty

Your Quadrtec® branded accessories are covered by the following **Limited Warranty** provided exclusively by Quadrtec, Inc., 1028 Saunders Lane, West Chester PA 19380.

This **Limited Warranty** is the only warranty made in connection with your purchase. Quadrtec neither assumes nor authorizes any vendor, retailer or other person or entity to assume for it any other obligation or liability in connection with this product or **Limited Warranty**. This **Limited Warranty** does not apply and is not cumulative to any accessory or part distributed by Quadrtec for which the Manufacturer provides a separate written warranty.

**What is Covered:** Subject to the terms, exclusions and limitations herein and with respect only to Quadrtec branded accessories first sold in the United States, Quadrtec warrants to the initial retail purchaser only that your Quadrtec accessory shall be free of defects in material and workmanship: **for a period of three (3) years from date of retail purchase.**

This **Limited Warranty** is not assignable and shall terminate upon sale of the vehicle upon which the Quadrtec accessory is installed or other transfer third persons.

All other warranties are hereby disclaimed, except to the extent prohibited by applicable law in which case any implied warranty of merchantability or fitness for a particular purpose on this product is limited to 3 year from date of initial retail sale. Quadrtec reserves the rights to: (a.) require invoice or other proof your accessory is within the terms of this **Limited Warranty** as a condition of warranty service and, (b.) make future revisions to this product and **Limited Warranty** without prior notice or obligation to upgrade your product.

**What is Not Covered:**  
Your Quadrtec **Limited Warranty** does not cover products or parts Quadrtec determines to have been damaged by or subjected to:

(a.) installation damage, alteration, modification, combination with other parts, failure to maintain or improper repair or service, (b.) normal wear & tear, cosmetic damage or damage from moisture or water immersion, (c.) Acts of God, accidents, misuse, negligence, inadequate mounting or impact with vehicle(s), obstacles or other aspects of the environment, (d.) theft, vandalism or other intentional damage.

**Remedy Limited to Repair/Replacement:**  
The exclusive remedy provided hereunder shall, upon Quadrtec inspection and at Quadrtec's option, be either repair or replacement of product or parts (new or refurbished) covered under this **Limited Warranty**. Customers requesting warranty consideration should first contact Quadrtec to obtain a RGA number (610-701-3336). All labor, removal, shipping and installation costs are customer's responsibility.

#### **Other Limitations - Exclusion of Damages - Your Rights Under State Law:**

In consideration of the purchase price paid, neither Quadrtec nor any independent Quadrtec distributor/licensee are responsible for any time loss, rental costs, or for any incidental, consequential, punitive or other damages you may have or incur in connection with any part or product purchased. Your exclusive remedy hereunder for covered parts is repair/replacement as described above.

This **Limited Warranty** gives you specific rights. You may also have other rights that vary from state to state. For example, some states do not allow limitations of how long an implied warranty lasts and /or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you.

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3.25.13 LTR Version

Part #12999.3003



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