



Installation Instructions Rear Tire Carrier

Vehicle Application:
Jeep® Wrangler 2-Door & Unlimited 2007-2017
Part Number 44943

Installation Tips

Before you begin installing your new Tire Carrier, please read all the instructions thoroughly.



WARNING

Do not rely in any way on the components of this product to protect against injury or death in the event of an accident. Never operate the vehicle in excess of manufacturer's specifications.

Read and follow, precisely, all installation instructions provided when installing this product. Failure to do so may result in a poor fit and could place occupants of the vehicle in a potentially dangerous situation.


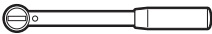


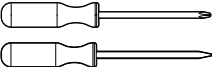
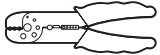



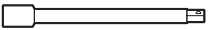
WEAR SEAT BELTS AT ALL TIMES



CAUTION

Safety glasses should be worn at all times when installing this product.



Tools			Installation Time	Support
 Safety Glasses	 Socket Wrench	 13mm - 17mm - 18mm 19mm - 35mm Sockets	 4 hours	We're here to help! Go to www.Bestop.com and click on "Contact Us"
 Phillips and Flat Blade Screwdrivers	 Wire Stripper- Crimper	 5/16" - 15/16" - 13mm - 17mm - 18mm - 19mm - 24mm Wrenches	Skill Level	
 Grease Gun	 Channel Lock Pliers	 6" Socket Extension	<div><div>1</div><div>2</div><div>3</div><div>4</div></div> 4 - Difficult	



Installation Instructions Rear Tire Carrier

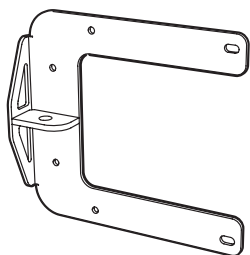
Vehicle Application:
Jeep® Wrangler 2-Door & Unlimited 2007-2017
Part Number 44943

Parts List

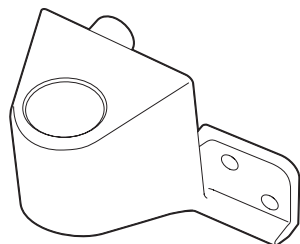
- Required parts for installation

Sections 3 to 7

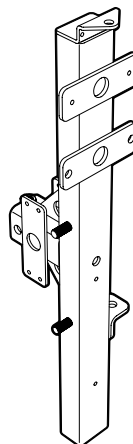
Pages 7 to 11 of Guide



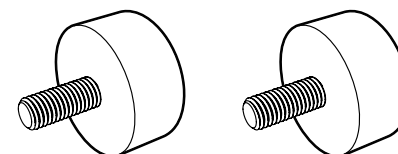
Tailgate Mount
Part #514.18
Qty. 1



Tire Carrier Casting
Part #522.96
Qty. 1



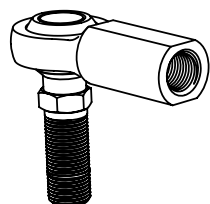
Tire Carrier Post
Part #508.61
Qty. 1



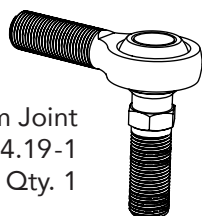
Rubber Bumpers
Part #482.48
Qty. 2

Sections 8 to 10

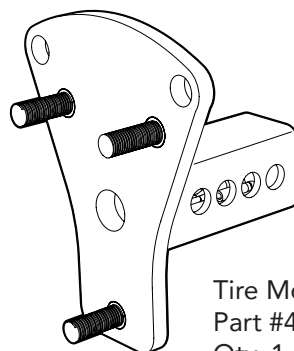
Pages 12 to 14 of Guide



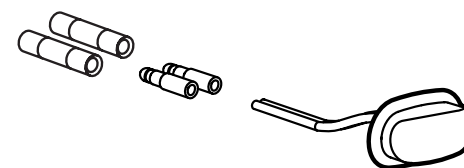
Female Heim Joint
Part #514.19-2
Qty. 1



Male Heim Joint
Part #514.19-1
Qty. 1



Tire Mount
Part #498.05
Qty. 1



Light Kit
Part #482.06
Qty. 1
Includes 2 Female and 2 Male
Bullet Connectors;
1 12-volt Red Light with
Pigtail Leads

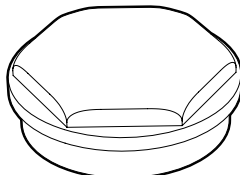
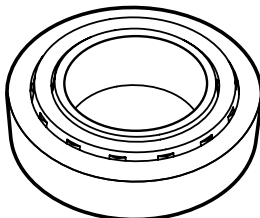
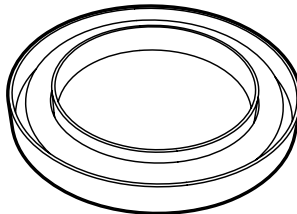
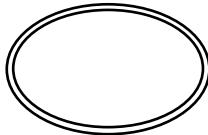

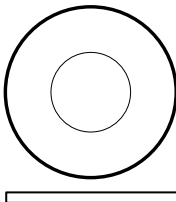



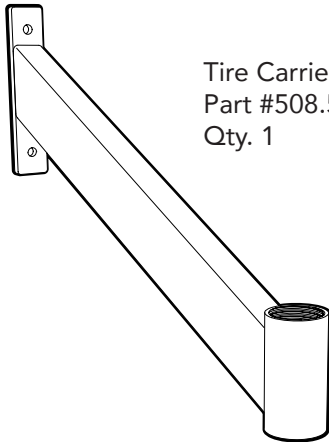


Installation Instructions Rear Tire Carrier

Vehicle Application:
Jeep® Wrangler 2-Door & Unlimited 2007-2017
Part Number 44943

Parts List

- Required parts for installation

Sections 5 to 7 Swing Arm Components			Pages 9 to 11 of Guide
 <p>Shaft Housing Cap Part #482.01 Qty. 1</p>	 <p>Shaft Bearing Part #481.99 Qty. 2</p> <p>NOTE: Outer bearing races may be pre-installed into tire carrier swing arm #508.54</p>	 <p>Shaft Seal Part #482.00 Qty. 1</p>	
 <p>Large O-Ring Part #482.02 Qty. 1</p>			
 <p>M24x3.0 Castle Nut Part #482.03 Qty. 1</p>	 <p>M24 Flat Washer Part #548.14 Qty. 1</p>	 <p>Swing Arm Shaft Part #522.97 Qty. 1</p>	
 <p>Cotter Pin Part #482.04 Qty. 1</p>	 <p>Grease Fitting (Zerk) Part #550.28 Qty. 1</p>		
		 <p>Tire Carrier Swing Arm Part #508.54 Qty. 1</p> <p>NOTE: Outer bearing races may be pre-installed into tire carrier swing arm</p>	



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Vehicle Application:
Jeep® Wrangler 2-Door & Unlimited 2007-2017
Part Number 44943

Parts List

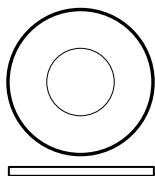
- Required parts for installation

All Sections

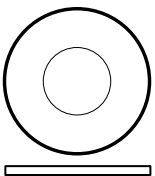
Fastener Hardware

All Pages

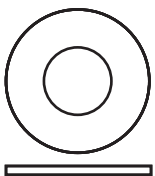
Parts Bundle Part #549.80



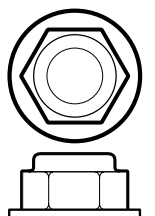
M14 Flat Washer
Part #482.94
Qty. 4



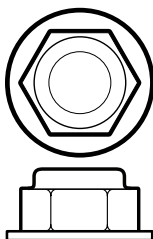
M12 Flat Washer
Part #548.12
Qty. 2



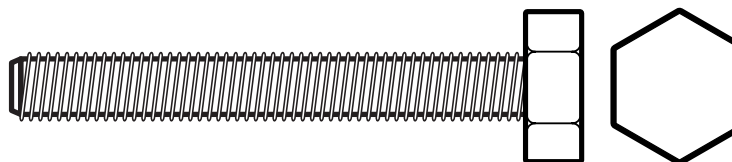
5/8" Flat Washer
Part #522.93
Qty. 4



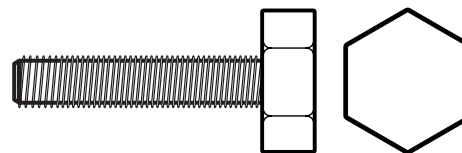
M14 Nylon Lock Nut
Part #548.15
Qty. 2



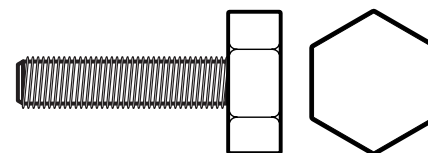
5/8" Nylon Lock Nut
Part #522.94
Qty. 2



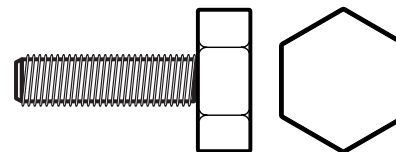
M14 - 2.0x90mm
Hex Head Bolt
Part #548.16
Qty. 1



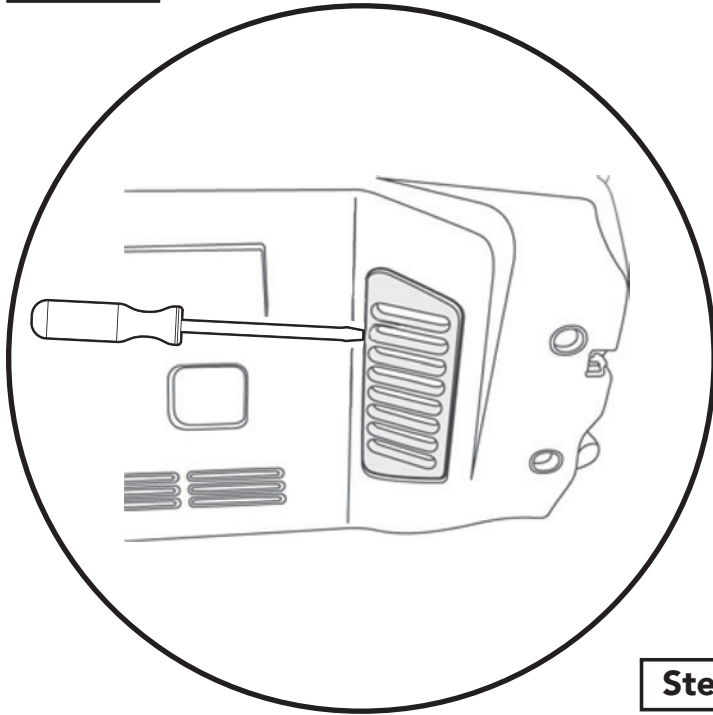
M12 - 1.75x40mm
Hex Head Bolt
Part #545.31
Qty. 1



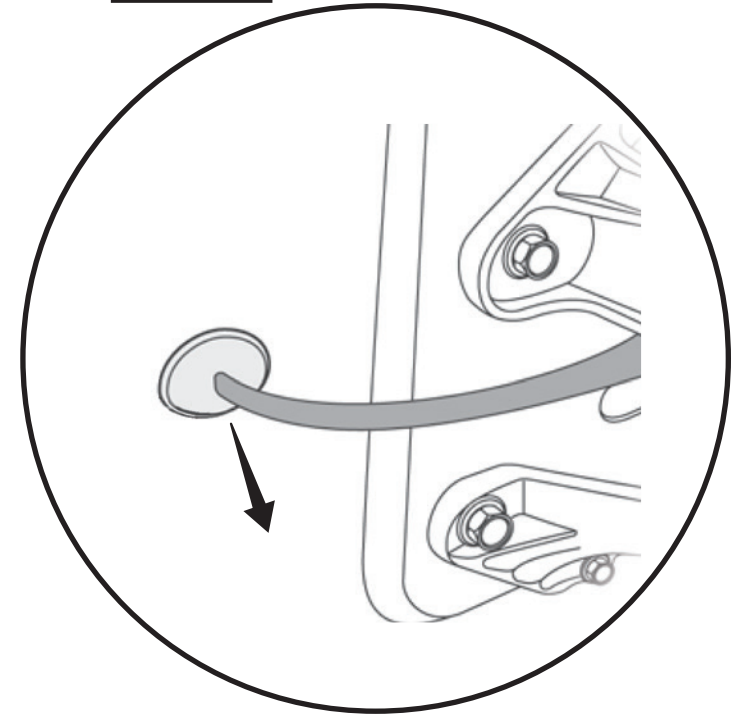
M12 - 1.75x30mm
Hex Head Bolt
Part #490.84
Qty. 1



M12 - 1.75x20mm
Hex Head Bolt
Part #482.11
Qty. 1

Step 1**Tools**Flat blade
screwdriver

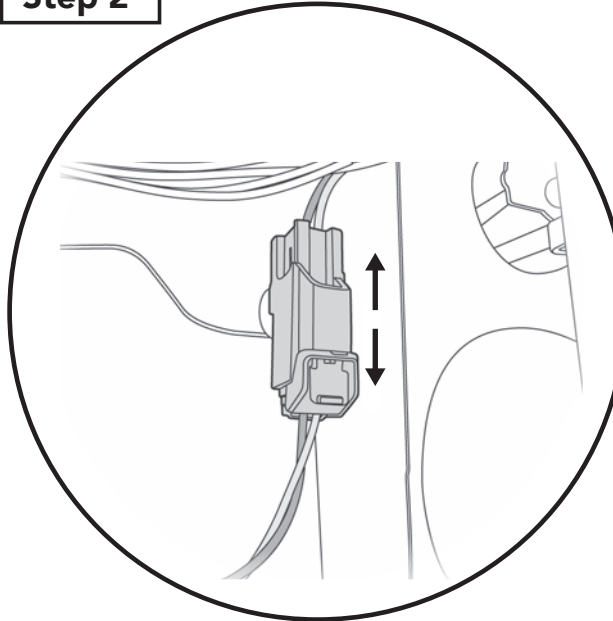
Wire Cutters

Wire Stripper-
Crimper**Step 3****Step 1**

Open the tailgate. Slide a flat blade screwdriver under the left side of the plastic cover and pry it off.

Step 2

Disconnect the light connector inside the tailgate.

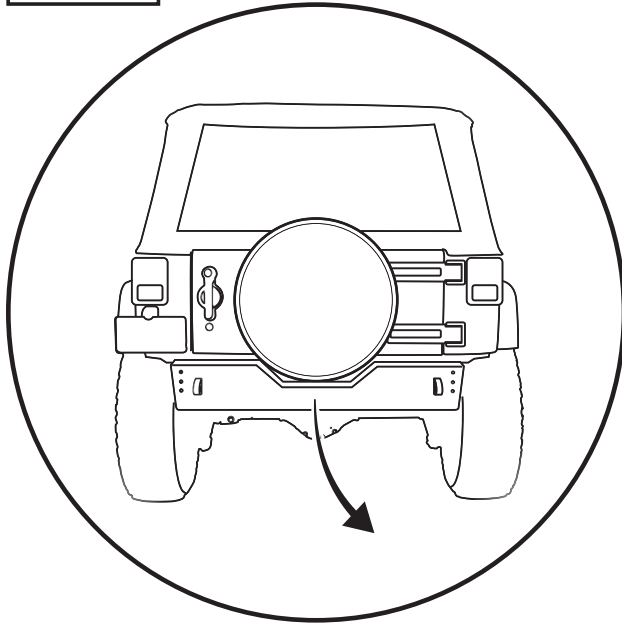
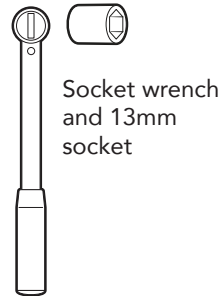
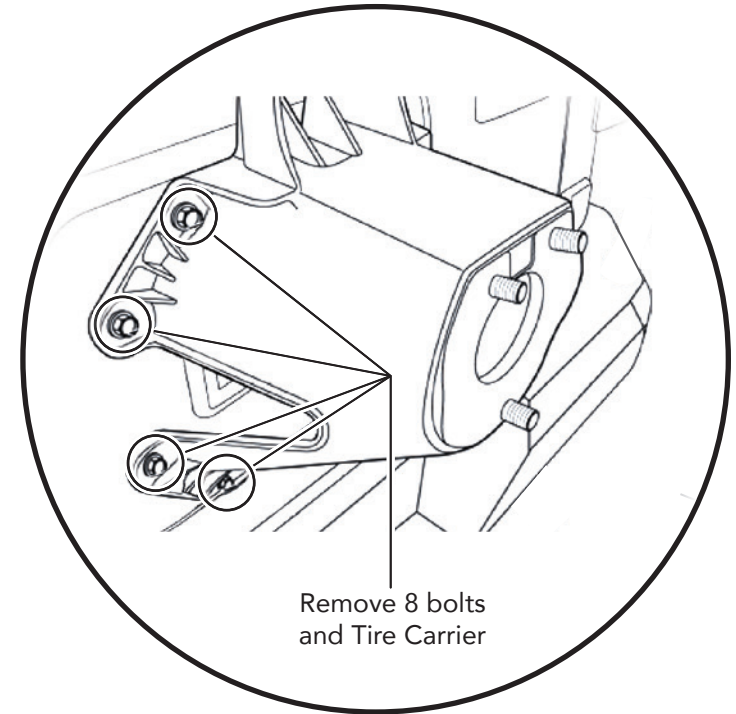
Step 2**Step 3**

Pry out the grommet on the outside of the tailgate. Be careful to avoid scratching the vehicle's paint. Pull the wire through the hole.

Cut the wires near the high-mount tail light, so that you have 24" of wire from the connector to where you made the cut. Strip about 1/4" of the insulation from the cut end of the wires.

Set the cut wires and connector aside for later use.

Set the grommet aside for later use.

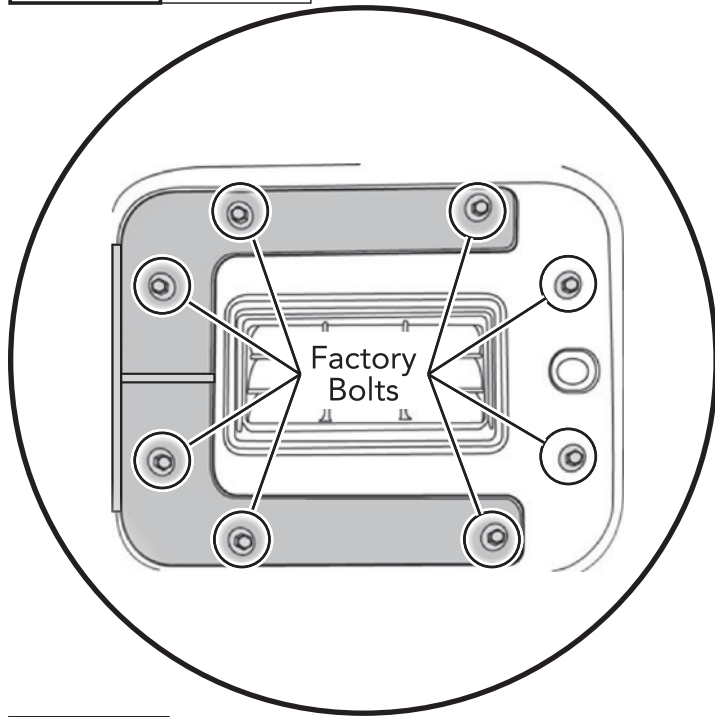
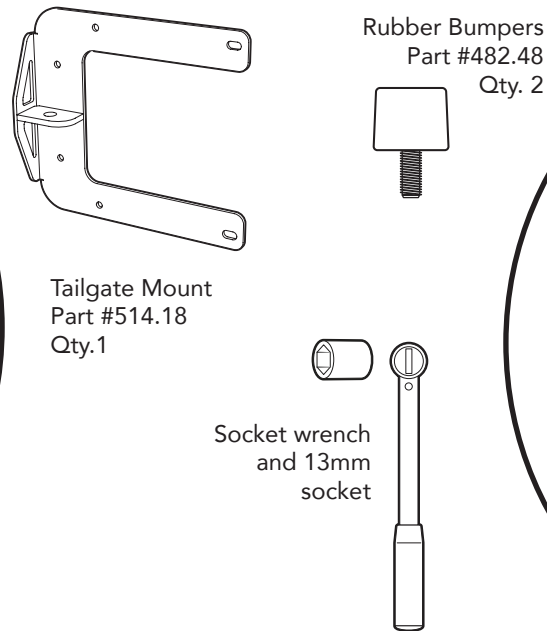
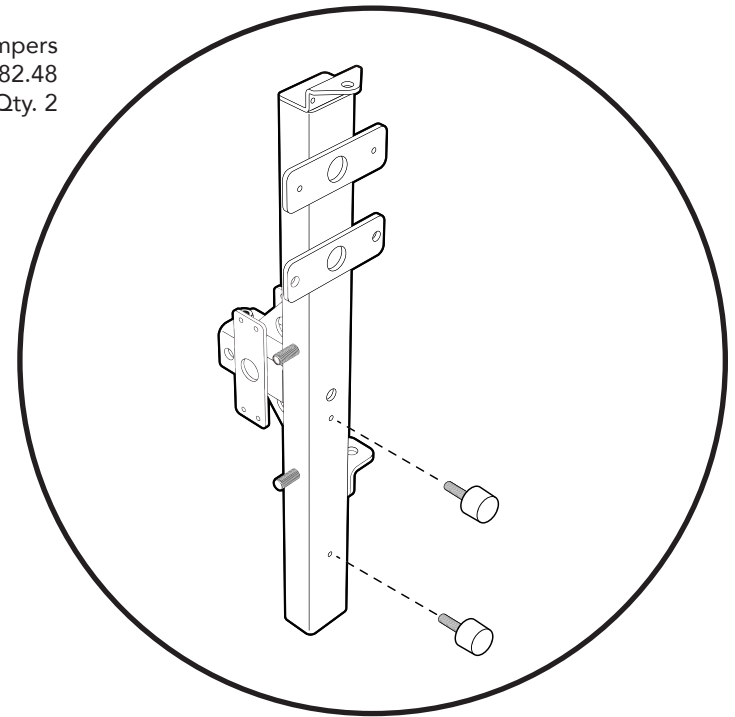
Step 1**Tools****Step 2****Step 1**

Remove the spare tire from the factory tire carrier.

Step 2

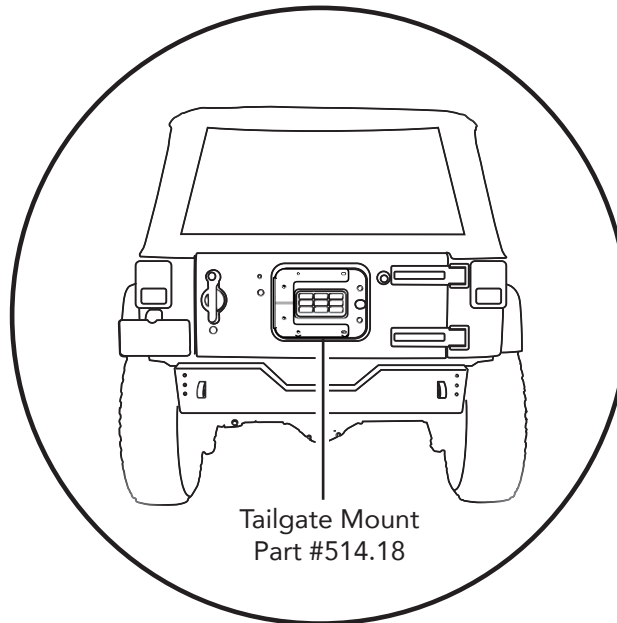
Using a 13mm socket wrench, remove the eight (8) bolts that secure the factory tire carrier to the vehicle, and remove the tire carrier.

Set these bolts aside for later use.

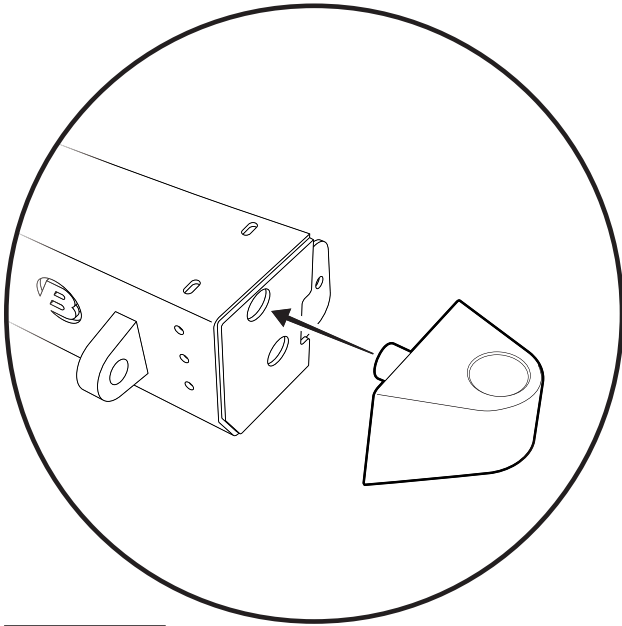
Step 1 514.18**Hardware****Step 2** 482.48**Step 1**

Use six (6) of the bolts that were removed in Step 2 on Page 6 to install the new Tailgate Mount #514.18 as shown above, in the left-side holes in the tailgate.

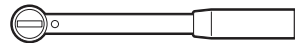
Replace the remaining two (2) bolts in the two right-side holes in the tailgate.

**Step 2**

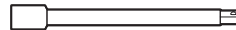
Thread the two Rubber Bumpers, Part #482.48 into the holes on the back side of the Tire Carrier Post, Part #508.61.

Step 1 522.96**NOTE:**

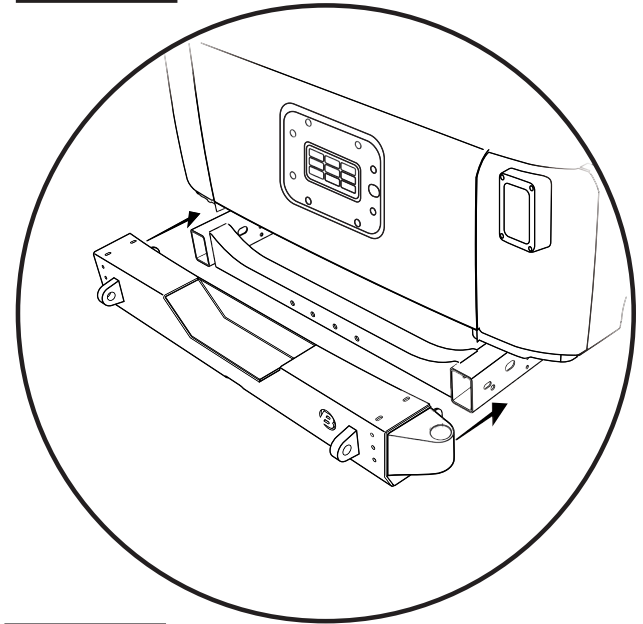
Bumper must be removed from the vehicle to perform this part of the installation

Tools

Socket wrench and 19mm socket



6" Socket Extension

Step 3**Step 1**

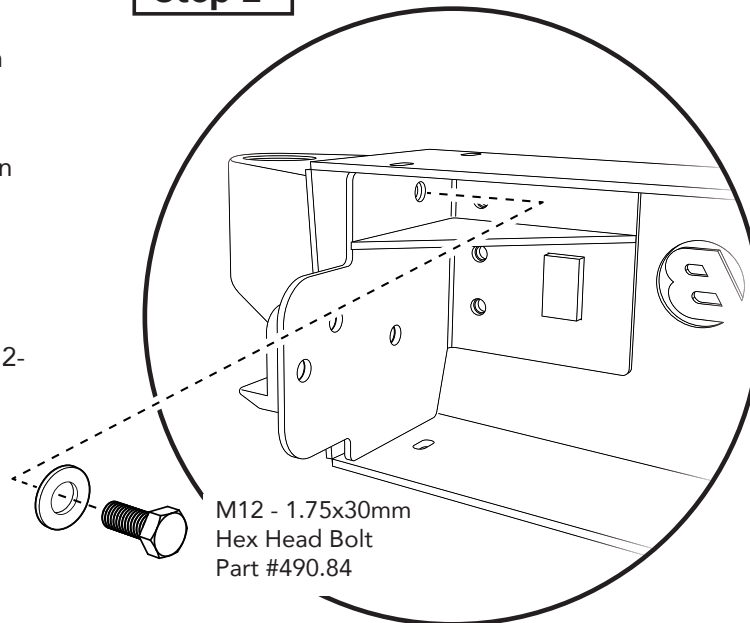
NOTE: Bumper must be removed from vehicle to perform this step.

Place the Tire Carrier Casting #522.96 on the right end of the bumper.

Step 2

From inside the bumper, Use one (1) M12-1.75x30 Hex Head Bolt #490.84 and (1) M12 washer #414.17 to attach the Tire Carrier Casting #522.96 to the right end of the Modular Bumper.

A 6" socket extension will be useful for tightening this bolt.

Step 2**Step 3**

Slide the Bumper over the vehicle frame members, making sure to align the holes in the bumper with the holes in the frame members and the holes in the Frame Brackets.

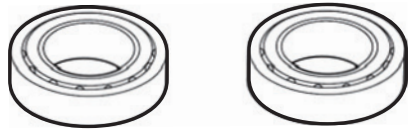
NOTE: Refer to the Installation Instruction Guides for the Modular Bumper #44940 and End Caps #44941, for complete instructions on installation of the Bumper and End Caps.

Step 1 481.99**Hardware**

Shaft Bearings
Part #481.99
Qty. 2

Tools

Grease Gun



Pack both Shaft Bearings
with grease.

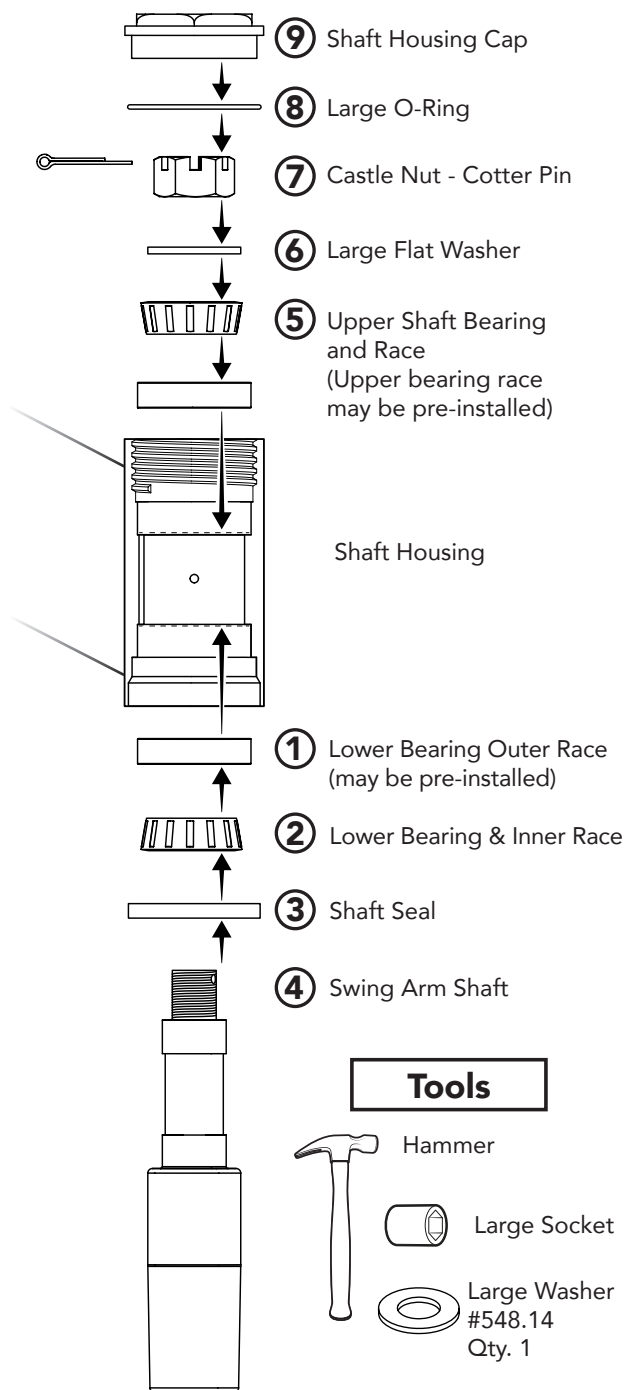
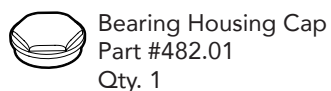
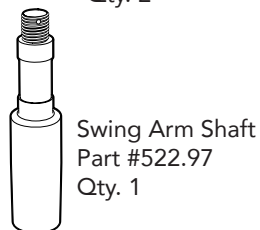
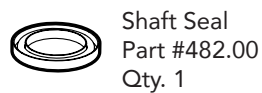
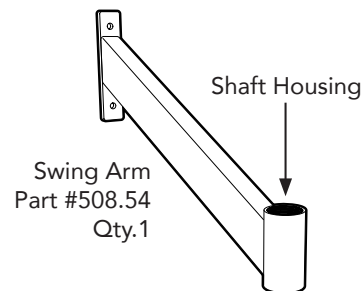
NOTE: Outer bearing races may be
pre-installed into tire
carrier swing arm #508.54

Step 1

Pack both Shaft Bearings, Part #481.99 with
grease.

Place a large amount of grease in the palm of
your hand. Place the bearing into the grease
in your hand and rotate it back and forth to
spread the grease into the bearing. Add more
grease as needed. Keep packing the grease
into each Shaft Bearing until it will not take any
more grease.

Repeat this process with both Shaft Bearings.

**Hardware****Step 1****Perform This Step with the Swing Arm on a Bench**

① Press/install only the lower bearing outer race into the bottom of the Shaft Housing so the tapered side of the race is facing the bottom of the Shaft Housing. Gently tap into place if necessary.

NOTE: The Lower Bearing Outer Race may be pre-installed.

② Press/install the lower bearing and inner race into the bottom of the Shaft Housing with the taper pointing toward the threaded end of the shaft.

③ Press/install the Shaft Seal #482.00 into the bottom of the Shaft Housing, with the open side of the seal facing into the bottom of the Shaft Housing. Gently tap into place if necessary.

④ Slide the Swing Arm Shaft #522.97 into the bottom of the Shaft Housing. Gently tap into place, rotating and tapping until fully seated.

⑤ Press/install the upper Shaft Bearing and race into the Shaft Housing so the tapered side faces into the top of the Shaft Housing.

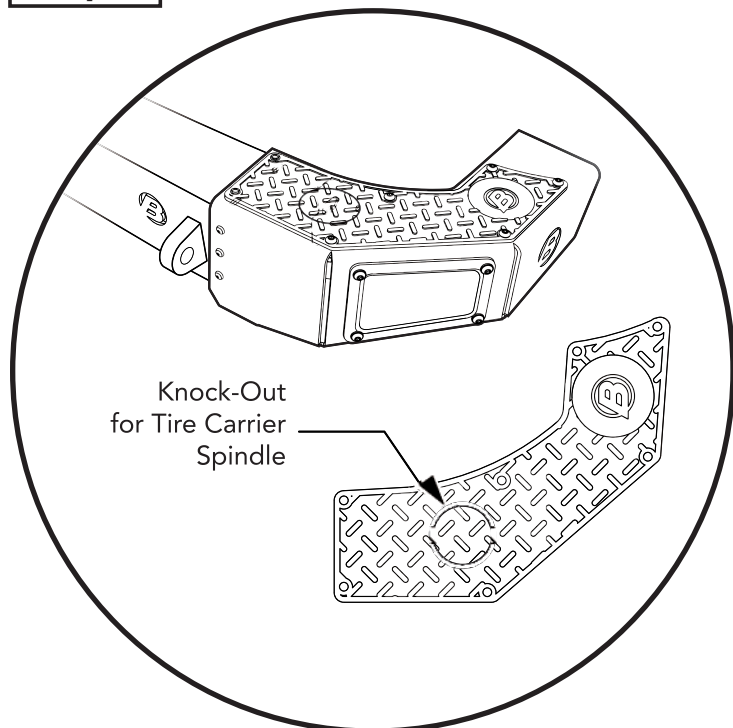
NOTE: The Upper Bearing Outer Race may be pre-installed.

⑥ Start the upper bearing onto the Swing Arm Shaft #522.97, and using the large Flat Washer #548.14, apply force only to the inner race to drive the bearing down until (see next Step)

⑦ M24 Castle Nut #482.03 can be started on the exposed threads at the top of the Swing Arm Shaft. Use the Castle Nut to tighten down the Shaft Bearings - tighten to 28-32 ft-lbs. of torque. There should be no play in the Swing Arm Shaft assembly. Ensure the Swing Arm Shaft still pivots freely in the Shaft Housing, and insert cotter pin #482.04 through the slots in the Castle Nut and the hole in the Swing Arm Shaft. Spread the ends of the Cotter Pin after inserting it to prevent the Castle Nut from loosening.

⑧ Place the Large O-Ring #482.02 onto the Shaft Housing Cap.

⑨ Screw the Shaft Housing Cap into the top of the Shaft Housing.

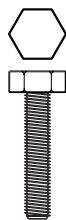
Step 1**Step 1**

If your vehicle has a Modular Bumper with End Caps installed, you will first have to remove the knock-out disk in the right-side step pad before dropping the Tire Carrier Swing Arm assembly into the receiver.

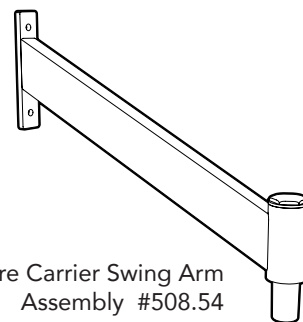
The knock-out disc can be easily removed by cutting the bridges around the edge of the disk.

Hardware

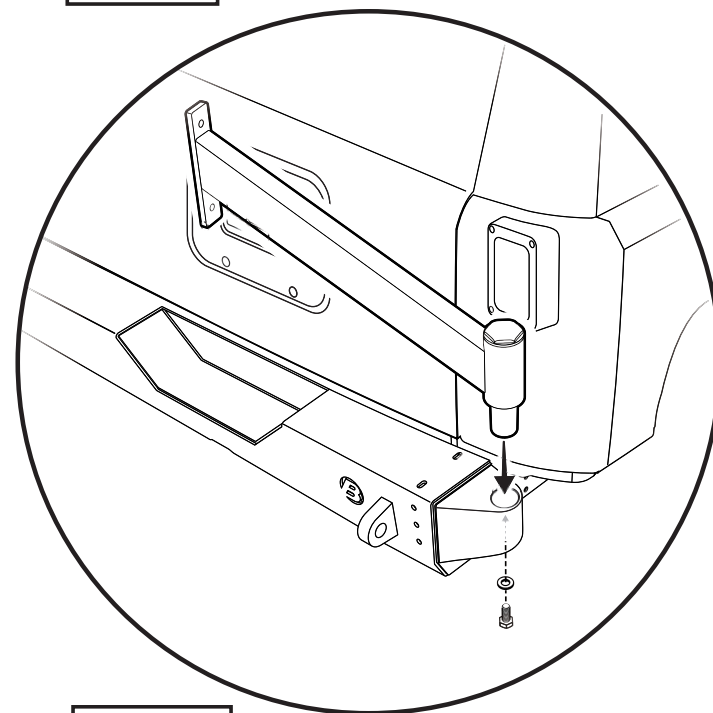
M12 Flat Washer
Part #548.12
Qty. 1



Tire Carrier Spindle Bolt
M12 - 1.75x40mm
Hex Head Bolt
Part #545.31
Qty. 1



Tire Carrier Swing Arm
Assembly #508.54

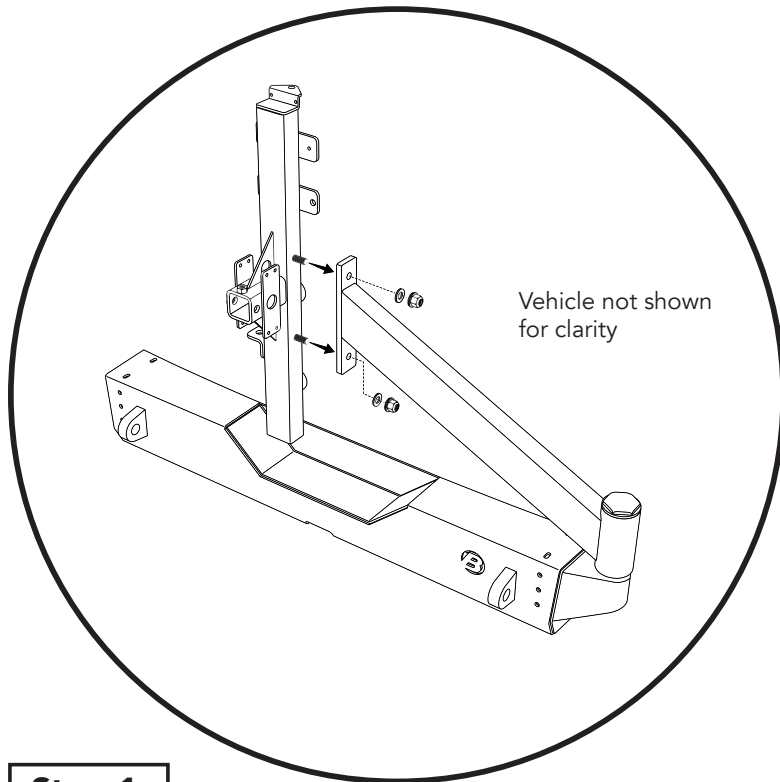
Step 2**Step 2**

Drop the Swing Arm Assembly #508.54 into the receiver in the Casting, and fasten in place from underneath with one (1) M12-1.75x40 Hex Head Bolt #545.31 and one (1) M12 Washer #548.12.

NOTE: It is recommended to remove the right tail light assembly to provide more clearance to place the Tire Carrier Swing Arm into the casting receiver and avoid damaging the tail light.

NOTE: Once the tire carrier swing arm spindle bolt has been tightened, it will be very difficult to remove the swing arm spindle from the receiver.

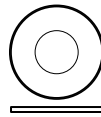
Step 1 508.61 548.15 482.94



Step 1

Attach the Tire Carrier Post, #508.61 to the Swing Arm Assembly using two (2) M14 Nylon Lock Nuts #548.15 and two (2) M14 Washers #482.94.

Hardware



M14 Flat Washer
Part #482.94
Qty. 2



M14 Nylon Lock Nut
Part #548.15
Qty. 2

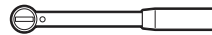


Grease Fitting (Zerk)
Part #550.28
Qty. 1

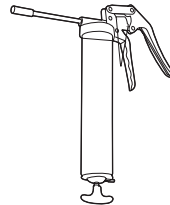
Tools



22mm Wrench

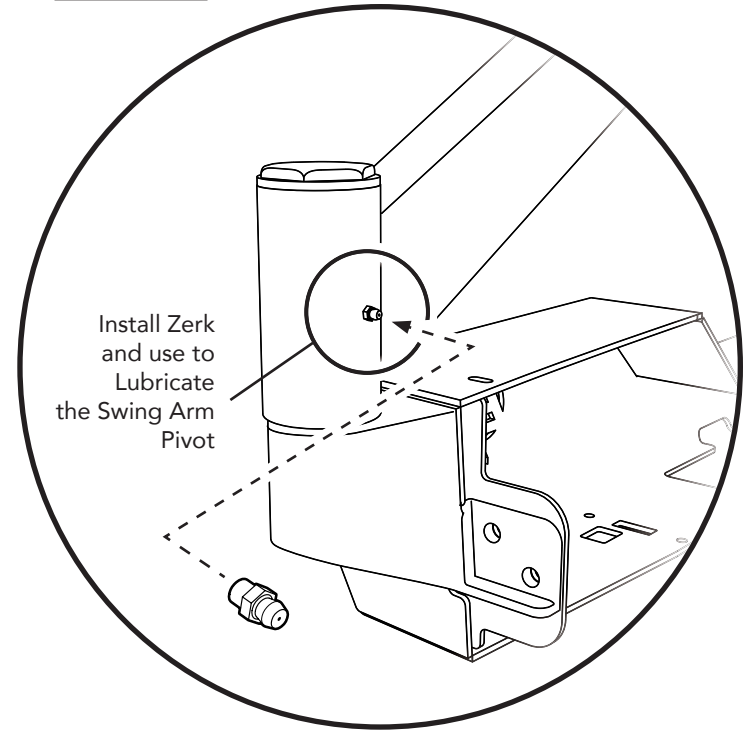


Socket Wrench
and 22mm
Socket



Grease Gun

Step 2 550.28



Step 2

Install the grease fitting (zerk) #550.28 on the back side of the Tire Carrier Swing Arm pivot.

Using a grease gun, fill the Swing Arm pivot until grease begins to leak out the bottom of the housing.

Use any standard automotive grease.

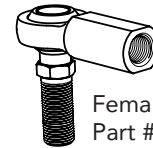
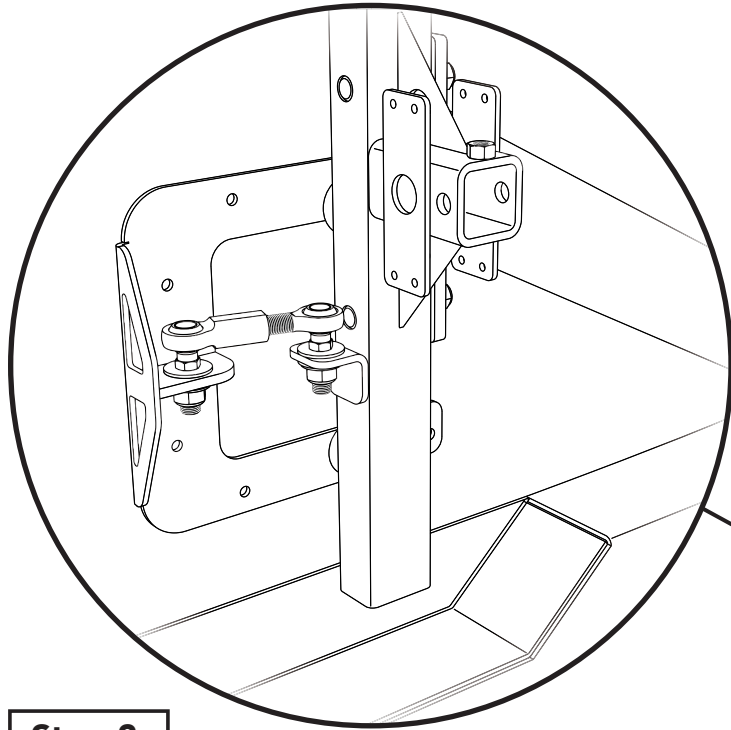
Step 1

514.19-1

514.19-2

522.93

522.94

Hardware

Female Heim Joint
Part #514.19-2
Qty. 1



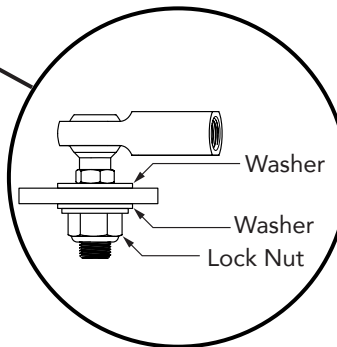
Male Heim Joint
Part #514.19-1
Qty. 1



5/8" Flat Washer
Part #522.93
Qty. 4



5/8" Nylon Lock Nut
Part #522.94
Qty. 2

**Step 2**

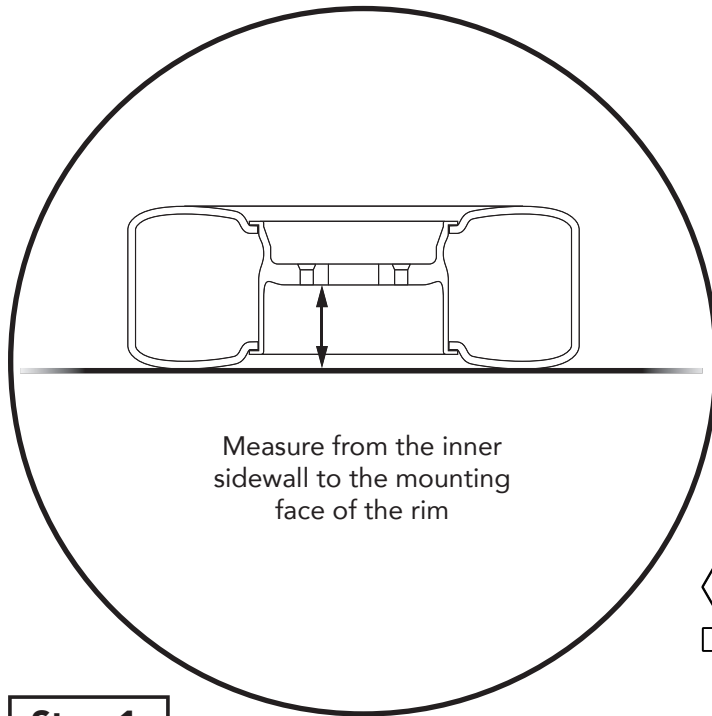
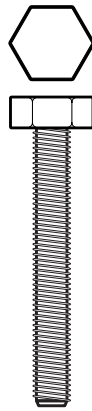
Connect the two Heim Joint parts together.

Open the tailgate and place the Heim Joint ends into the brackets on the tailgate mount and Tire Carrier Post - do not fasten at this time.

Close the tailgate. The Rubber Bumpers on the back of the Tire Carrier post should be slightly compressed when the tailgate is closed - if the bumpers are not slightly compressed, open the tailgate, remove the Heim joint and adjust it as needed. Repeat this process until the bumpers are slightly compressed with the tailgate closed.

Use two (2) 5/8" washers #522.93 and one (1) 5/8" Nylon Lock Nut #522.94 per bracket to secure the Heim Joint in place.

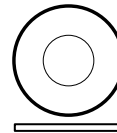
Check and retighten the Heim Joint fasteners after one week.

Step 1

Hardware


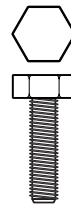
M14 - 2.0x90mm
Hex Head Bolt
Part #548.16
Qty. 1



M14 Nylon
Lock Nut
Part #548.15
Qty. 1



M14 Flat Washer
Part #482.94
Qty. 2



M12 - 1.75x20mm
Hex Head Bolt
Part #482.11
Qty. 1

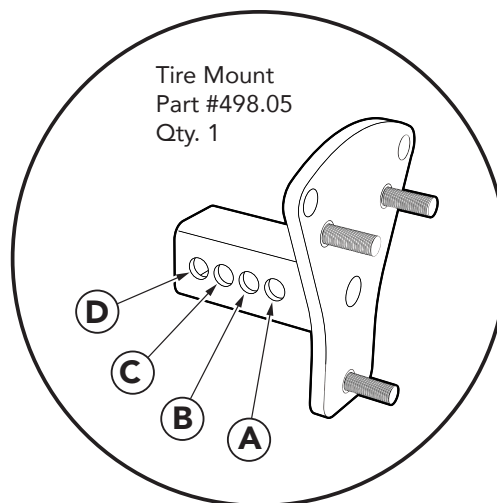
Step 1

To locate the Tire Mount #498.05 in the correct position on the Tire Carrier Post, you will need to measure the backspace on your tire and rim.

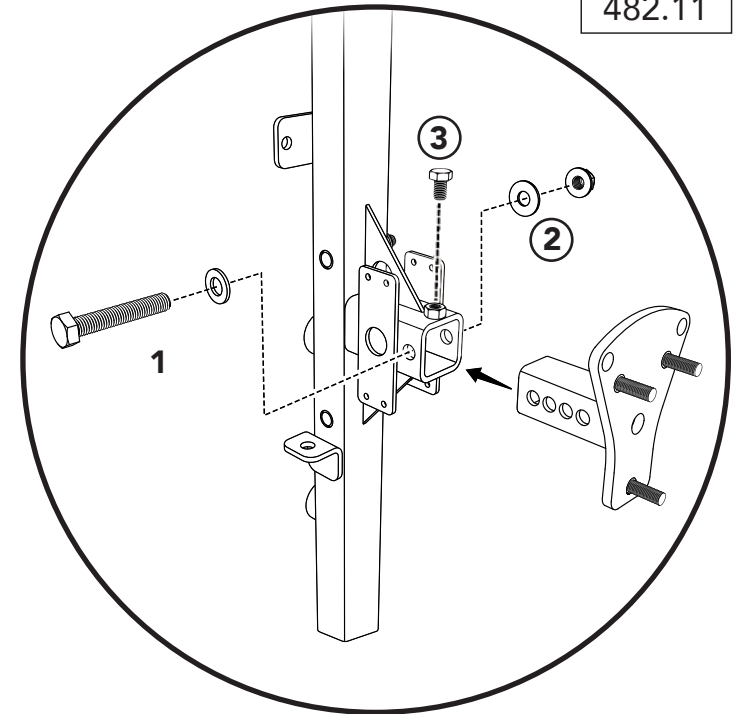
Measure from the sidewall on the inside of the tire to the mounting face of the rim (the side which contacts the hub of the vehicle).

Using this measurement, choose the correct hole in the Tire Mount to use when attaching it to the Tire Carrier Post.

- (A)** 4.75" or less
- (B)** 4.75" to 5.5"
- (C)** 5.5" to 6.5"
- (D)** 6.5" or greater

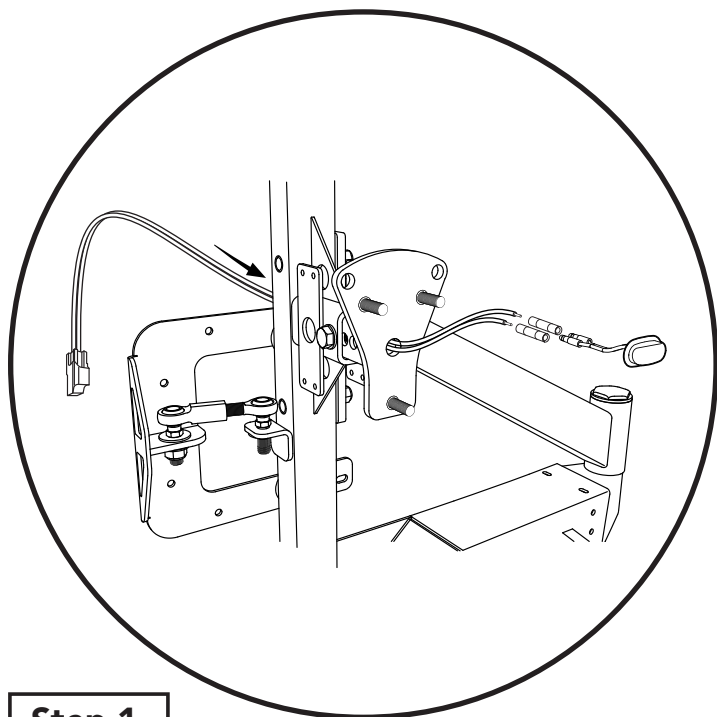

Step 2

498.05	548.16	548.15	482.94
			482.11


Step 2

Once you have positioned the Tire Mount in the correct position for your tire size,

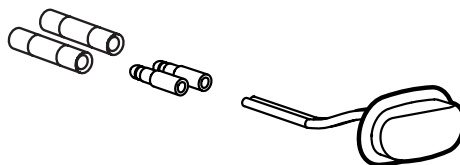
- ① Insert one (1) M14 - 2.0x90mm Hex Head Bolt #548.16 with one (1) M14 Washer #482.94 through the hole in the Tire Mount receiver and through the selected hole in the Tire Mount.
- ② Secure this bolt with one (1) M14 Nylon Lock Nut #548.15 and one (1) M14 Washer #482.94.
- ③ Lastly, insert one (1) M12 - 1.75x20mm Hex Head Bolt #482.11 into the weld-nut on top of the Tire Mount receiver, and tighten it.

Step 1 482.06**Step 1**

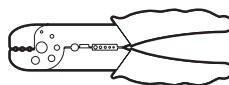
Take the connector and wires that you cut to 24" in an earlier step, and feed the wires through the Tire Carrier Post, Tire Mount Receiver, and Tire Mount. Using a coat hanger or something similar may make threading the wires through the Tire Carrier Post and Tire Mount easier.

Crimp the two Female Bullet Connectors supplied in the Light Kit #482.06 to the two stripped connector wire ends.

Using a wire stripper-crimper, strip about 1/4" of insulation from the ends of the pigtail leads from the Brake Light.

Hardware

Light Kit
Part #482.06
Qty. 1
Includes 2 Female and 2 Male
Bullet Connectors;
1 12-volt Red Light with
Pigtail Leads

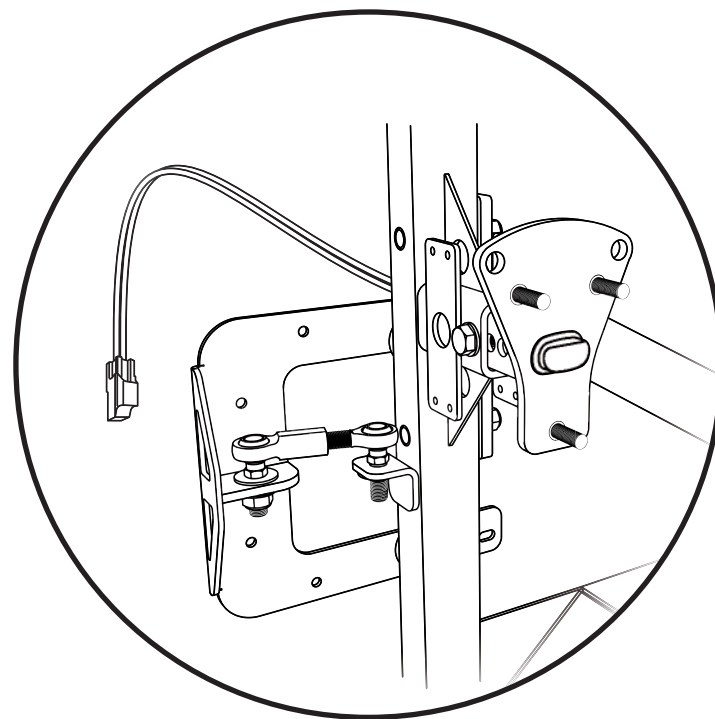
Tools

Wire Stripper-
Crimper

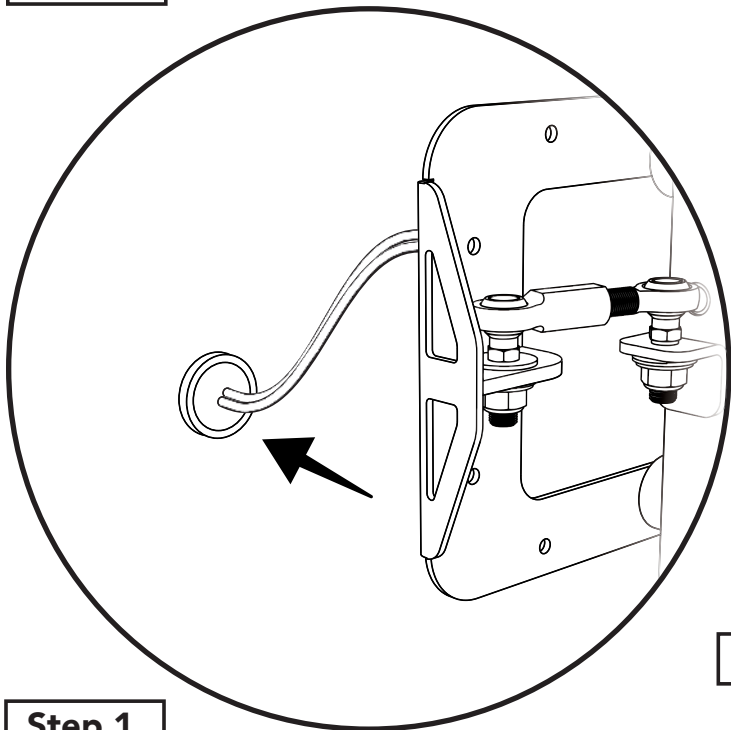
Step 1 (cont.)

Crimp the two Male Bullet connectors onto the stripped Brake Light pigtail leads.

Insert the Male Bullet Connectors at the ends of the Brake Light wire pigtail into the Female Bullet Connectors at the ends of the connector wires.

Step 2**Step 2**

Feed the wires back through the Tire Mount and press the rubber boot on the Light housing into the center hole in the face of the Tire Mount.

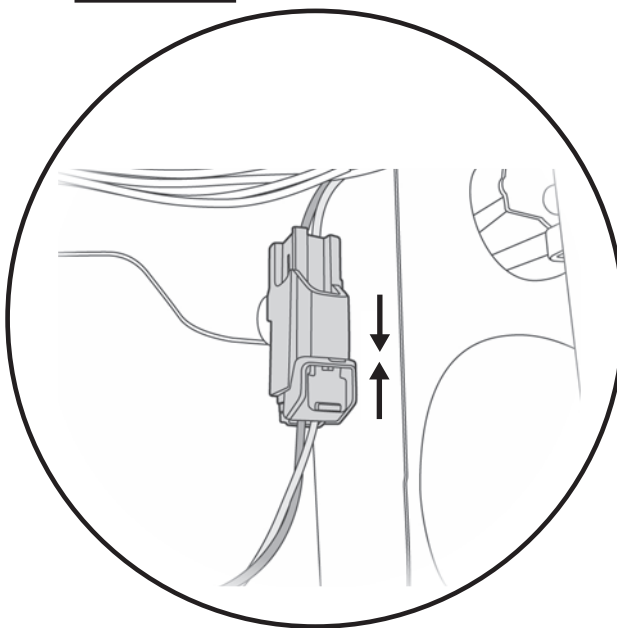
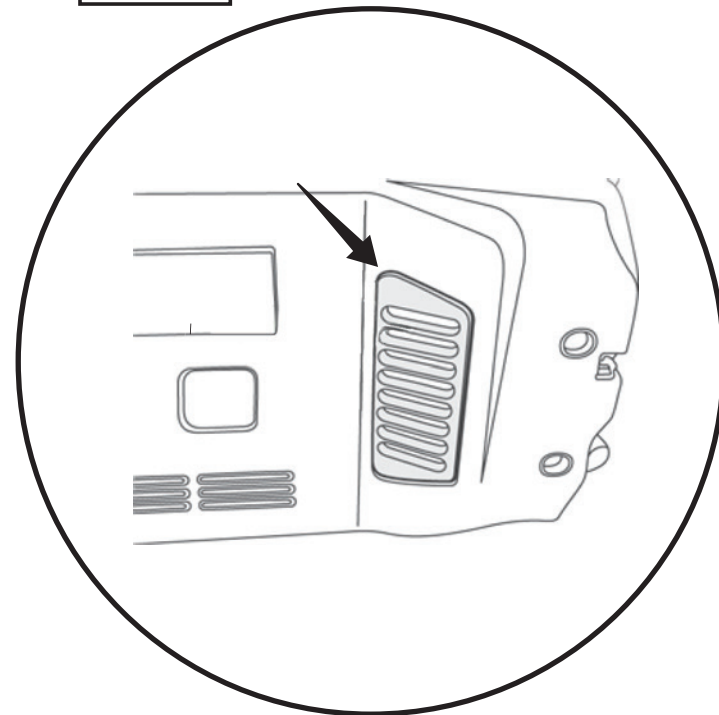
Step 1**Step 1**

Thread the Brake Light connector and wires through the hole in the tailgate and replace the grommet you removed earlier.

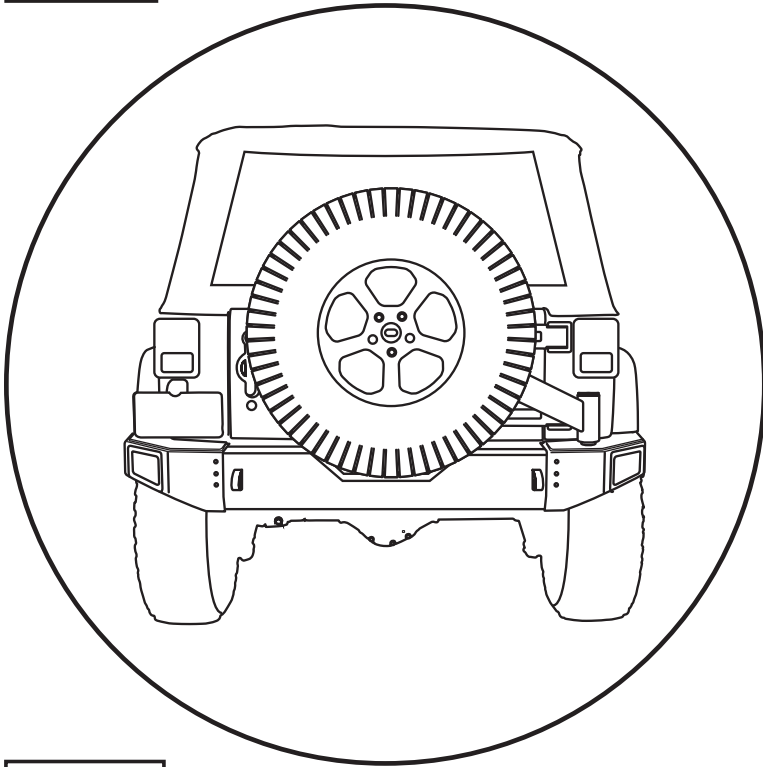
Step 2

Open the tailgate and plug the brake light connector back together.

Check to make sure that the third brake light works.

Step 2**Step 3****Step 3**

Replace the cover on the inside of the tailgate that you removed earlier.

Step 1**Step 1**

Install the spare tire onto the Tire Mount and secure with three (3) lug nuts.



Warranty Information Rear Tire Carrier

Vehicle Application:
Jeep® Wrangler 2-Door & Unlimited 2007-2017
Part Number 44943

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- Failure to comply with any Product documentation, Bestop instructions, or applicable law or regulations; use in extreme conditions
- Force Majeure including but not limited to, earthquake, hurricane, tornado, flooding, or other disasters natural or man-made, civil unrest, strikes, declared or undeclared war, or lack of performance by, or discontinued product of, supply chain partners whose products, software, operations or management is beyond the control of Bestop;
- Damage resulting in breakage (including without limitation, spontaneous breakage, accidental breakage or breakage by any other means) of a Product or any component part;
- Damage to vinyl windows due to misuse, or cracking due to varying weather conditions.

YOUR SOLE REMEDY

During the applicable warranty period, Bestop shall, at its option, either repair or replace any Product that it confirms, in its discretion, is non-compliant with the warranties herein. Bestop will not pay for labor charges associated with installation or removal of the Product. Should a specific Product be discontinued, Bestop may, at its option, replace the discontinued Product with a current product or like product. If Bestop opts to repair or replace your Product as set forth herein, Bestop shall use reasonable efforts to match any patch or replacement to the color and texture of your existing Product. There is no guarantee however, that Bestop will be able to match the color or texture. If Bestop is not able to match the color or texture, it may provide you with a black or neutral colored patch replacement in its discretion.

Please retain your proof of purchase. Original proof of purchase for the Product must accompany any warranty claim. If you have a warranty claim, first you must email Bestop Customer Service at csbestop@bestop.com for instructions. All claims must be emailed to csbestop@bestop.com within 30 days of discovery of a defective Product, but in no event later than thirty days after the end of the applicable Warranty Period (the "Warranty Notice Period"). Warranty claims made after the Warranty Notice Period are null and void and Bestop shall have no responsibility with respect to such claims.

THIS SECTION SETS FORTH BESTOP'S SOLE OBLIGATION & YOUR SOLE REMEDY WITH RESPECT TO ANY DEFECTS OR OTHER PRODUCT ISSUE. ANY PRODUCTS REPLACED UNDER TERMS OF THIS WARRANTY WILL BE COVERED UNDER TERMS & BALANCE OF THE DURATION OF THE ORIGINAL LIMITED WARRANTY FOR SUCH PRODUCT.



Warranty Information Rear Tire Carrier

Vehicle Application:
Jeep® Wrangler 2-Door & Unlimited 2007-2017
Part Number 44943

COVERED PRODUCTS AND WARRANTY PERIODS: The warranty time periods are as follows for Products manufactured by Bestop:

BESTOP® LIMITED LIFETIME WARRANTY

Trektop® Pro Twill Fabric Top	Sunrider® for Hardtop Twill Fabric Top
Trektop® NX Glide Twill Fabric Top	Replace-a-Top™ Twill Fabric Top
Trektop® NX Twill Fabric Top	Supertop® NX Twill Fabric Top
EZFold™ Soft Tonneaus	Floor & Cargo Liners
ZipRail™ Soft Tonneaus	Pet Barriers
EZRoll™ Soft Tonneaus	

BESTOP® 5-YEAR LIMITED WARRANTY

Trektop® NX Glide™ Top (non-Twill)	Sunrider® for Hardtop
(non-Twill) Replace-a-Top™ Top (non-Twill)	Trektop® NX Top (non-Twill)
Sailcloth Replace-a-Top™	Supertop® NX Top (non-Twill)
Tigertop™ and Halftop™	Supertop® Classic Soft Top
Sunrider® Complete Soft Top	Supertop® for Truck
EZ Fold Hard Tonneau	

BESTOP® 3-YEAR/100K MILES LIMITED WARRANTY

Powerboard® & Powerboard® NX
Trekstep®, Side Mount
Trekstep®, Rear Mount

BESTOP® 3-YEAR LIMITED WARRANTY

Pavement Ends Sprint Top

BESTOP® 2-YEAR LIMITED WARRANTY

Trektop® Classic Soft Top
RoughRider™ Soft Storage

BESTOP® 1-YEAR LIMITED WARRANTY

All other Bestop® & Pavement Ends™ products not specified above.

For further information or request for warranty work, please contact:

Bestop Inc. Customer Service

Toll-Free: (800)845-3567

Main: (303)465-1755

E-mail: csbestop@Bestop.com

Website: www.Bestop.com