



**Installation Instructions:**  
 (Part # SB76857)  
 2007-2015 Jeep JK Generation 2  
 Tire Gate Kit

**IMPORTANT!:** This kit is intended to be installed on vehicles equipped with Generation 2 rear bumper kits SB76614 SRC/SB76858 XRC

Parts Included	Qty	Parts Included	Qty
93-315BH001 TIRE GATE:	1	1/2"-13 X 1 1/2" HEX BOLT GR. 8	4
93-315BH002 PIVOT PIN BRACKET	1	1/2"-13 NYLOCK NUT	4
93-315BH004 TAIL GATE BRACKET	1	1/2" FLAT WASHER	8
93-315BH005 STATIONARY WHEEL MOUNT	1	3/8"-16 X 2 1/2" HEX BOLT GR. 8	2
93-9187 ADJUSTABLE WHEEL MOUNT	1	3/8"-16 X 1" HEX BOLT GR. 8	7
93-315BH014 ROTOPAX MOUNT	1	3/8"-16 NYLOCK NUT	9
90-315BH008A PIN CAPTURE WASHER	1	3/8" FLAT WASHER	18
90-315BH011C TIRE GATE BUMP STOP	1	1/4"-20 X 1 3/4" HEX BOLT GR. 8	2
90-315BH009A TIRE PIVOT CAP	1	1/4"-20 FLAT WASHER	4
93-5567 UPPER 3rd BRAKE LIGHT BRACKET	1	1/4"-20 NYLOCK NUT	2
93-315BH006A Lower 3rd Brake Light Bracket	1	10-24 X 1/4" SET SCREW	1
90-315BH001V STAINLESS TOP PLATE: Pass	1	91074A133 WEDGE LOCK WASHER	4
90-315BH001U 1/8" SPACER	4	<b>90-6299 HARDWARE PACK: 3rd Brake Light</b>	<b>1</b>
60645K341 3/8"-24 ROD END: LH Thread	1	5/16"-18 X 1" HEX BOLT GR. 5	2
60645K342 3/8"-24 ROD END: RH Thread	1	5/16"-18 NYLOCK NUT	2
99612A119 3/8"-24 JAM NUT: LH Thread	1	5/16" SAE FLAT WASHER	4
94846A515 3/8"-24 JAM NUT: RH Thread	1	<b>315CJ002B 40mm FLANGED SLEEVE BEARING</b>	<b>2</b>
90-315DV007 3/8"-24 TURNBUCKLE	1	20mm CASTLE NUT	1
HW5020 1/4"-28 ZERK FITTING	1	4mm COTTER PIN	1
90-315BH001W TIRE GATE PIN SPACER	4		

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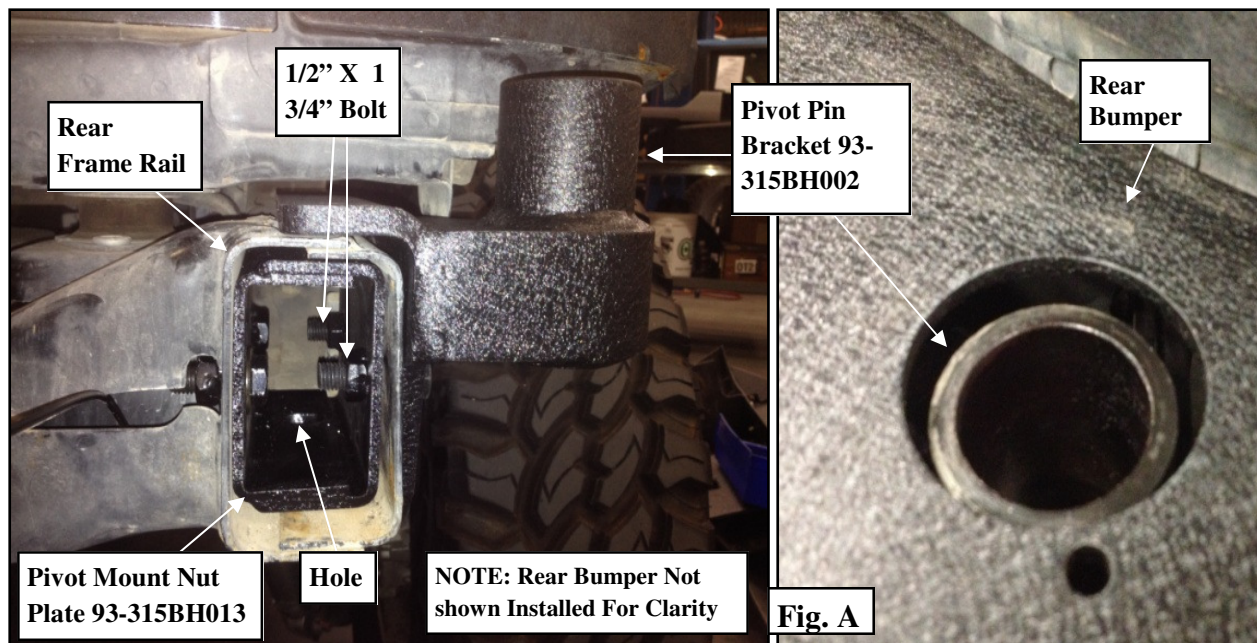
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**Step 1:** On the passenger side, remove the stainless top plate from the SRC/XRC rear bumper. Save the hardware for reinstallation.

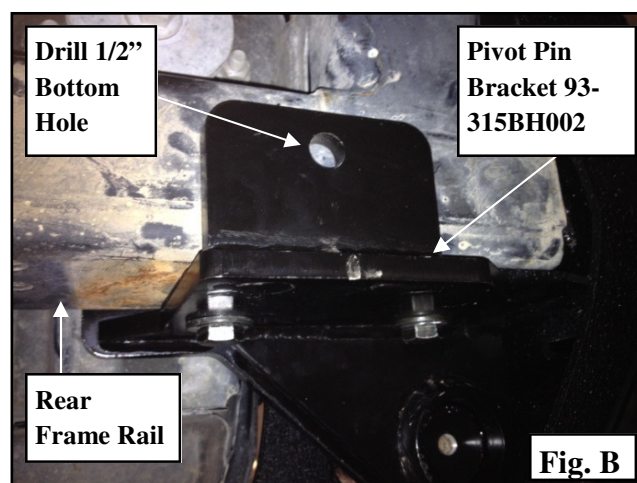
**Step 2:** Support the passenger side of the SRC/XRC rear bumper in place and remove the 1/2" X 1 3/4" bolts and washers securing the SRC/XRC rear bumper mount to the frame rails. (Fig A)

**Step 3:** Install the pivot pin bracket (93-315BH002) into place on the outside of the SRC/XRC rear bumper mount and secure to the frame rail using the previously removed 1/2" X 1 3/4" bolts and washers. (Fig A)

**IMPORTANT!:** Make sure the pivot pin is concentric to the bumper hole before tightening 1/2" hardware. Adjust as necessary.



**Step 4:** Using the bottom hole in the pivot pin bracket (93-315BH002) as a guide center punch and drill through the frame rail. Drill the bottom hole out to 1/2". (Fig B)



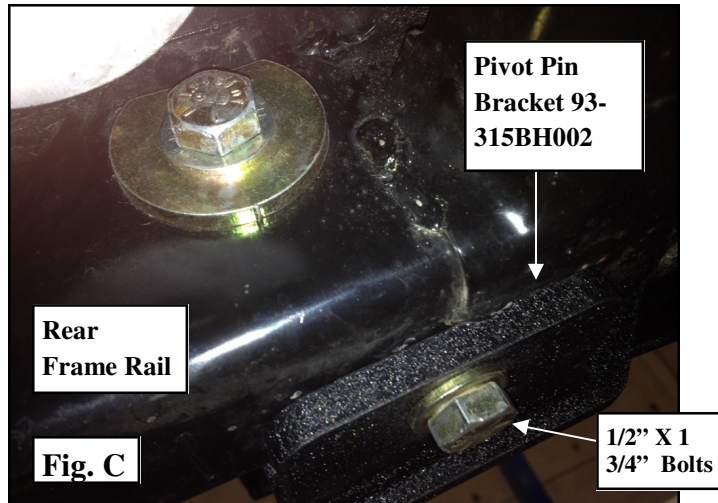
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**Step 5:** Insert the (1) supplied 1/2" X 1 3/4" bolt, washer through the bottom hole and secure using the pivot mount nut plate (93-315BH002). (Fig C)



**Step 6:** Torque the (3) 1/2" pivot pin bracket bolts to 90 ft./lbs.

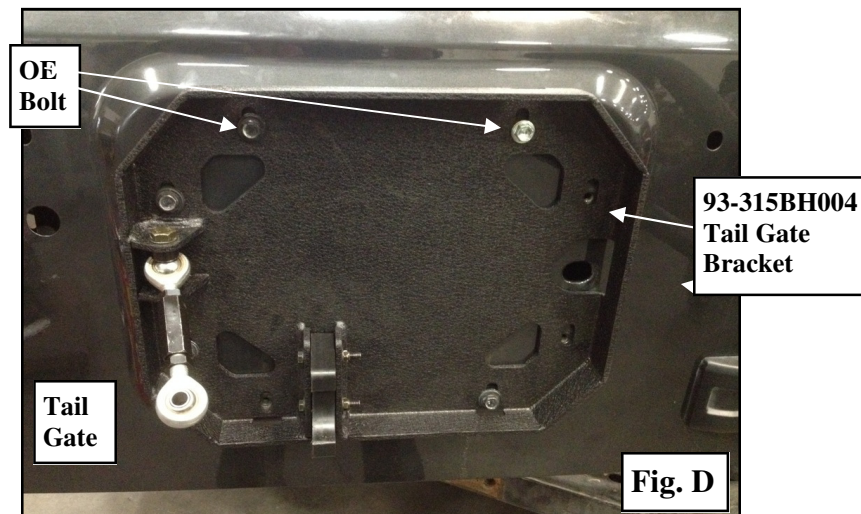
**Step 7:** Unclip the OE 3rd brake light wiring harness. Unbolt and remove the OE 3rd brake light housing from the vehicle.

**Step 8:** Unbolt and remove the OE spare tire mount from the tail gate. Save the OE hardware for reinstallation.

**Step 9:** Remove the OE plastic vent from the tail gate.

**Step 10:** Install the tail gate bracket (93-315BH004) to the tail gate using the previously removed (8) OE bolts. (Fig D)

**NOTE:** Make sure the tail gate bracket is parallel with the top of the rear bumper before tightening the OE hardware.



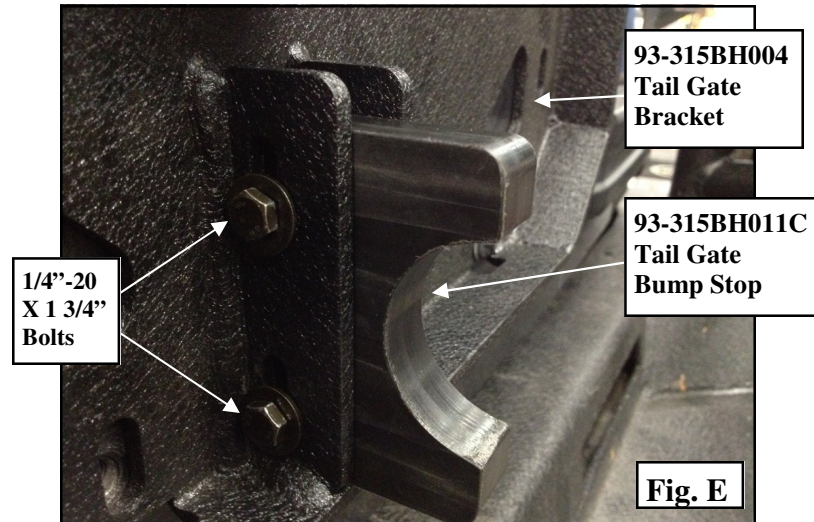
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**Step 11:** Install the tire gate bump stop (90-315BH011C) to the tail gate bracket (93-315BH004) using the (2) supplied 1/4"-20 X 1 3/4" bolts and washers. (Fig E)

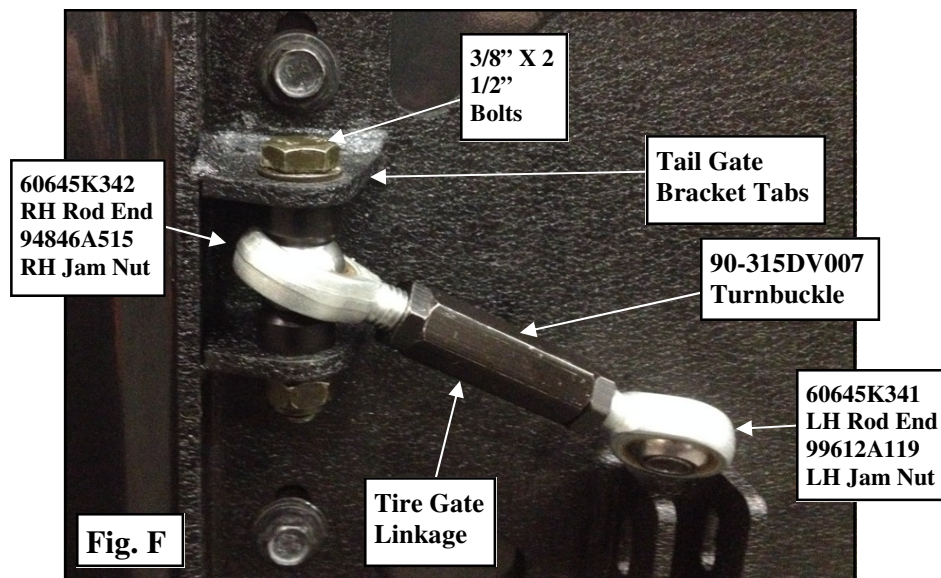


**Step 12:** Thread the 3/8"-24 LH jam nut (99612A119) onto the 3/8"-24 LH rod end (60645K341).

**Step 13:** Thread the 3/8"-24 RH jam nut (94846A515) onto the 3/8"-24 RH rod end (60645K342).

**Step 14:** Assemble the tire gate linkage by threading the 3/8"-24 LH rod end and 3/8"-24 RH rod end assemblies into the 3/8"-24 turnbuckle (90-315DV007).

**Step 15:** Install the tire gate linkage assembly to the tabs on the tire gate bracket (93-315BH004) using the supplied 3/8" X 2 1/2" bolt and hardware. (Fig F)



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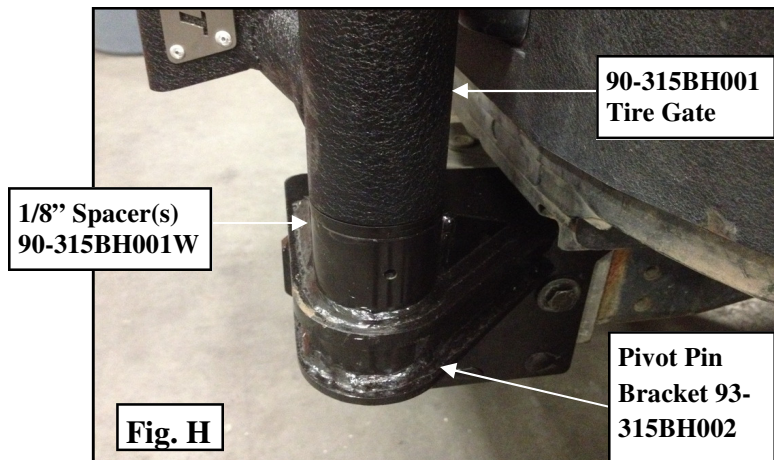
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**Step 16:** Install the supplied stainless top plate (90-315BH001V) to the pass side of the bumper using the previously removed hardware.

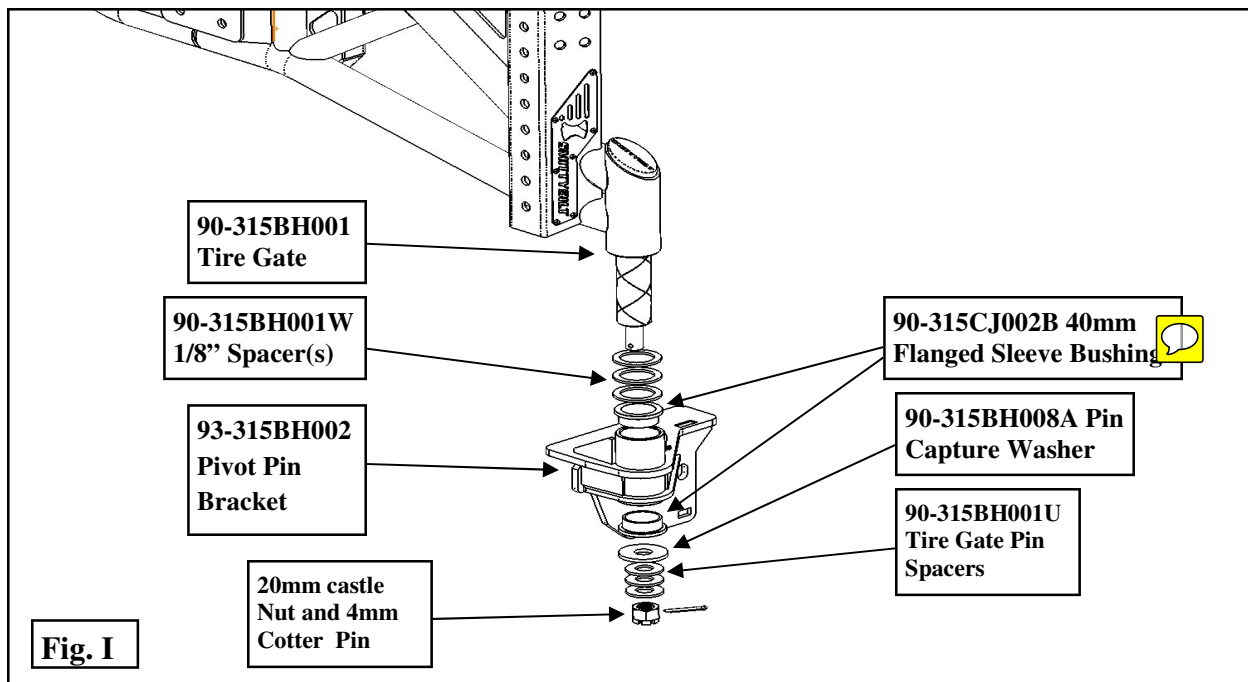
**Step 17:** Install the tire gate into the pivot pin bracket (93-315BH002). Shim the tire gate, if necessary, using the 1/8" spacer(s) (90-315BH001W) to align the tire gate (93-315BH001) with the tire gate linkage assembly and the tire gate bump stop (90-315BH011C). (Fig H)

**NOTE:** The number of spacers used to raise the tire gate will directly coincide with the number of tire gate pin spacer(s) (90-315BH001U) used on the bottom of the pivot pin (90-315BH012A).



**Step 18:** Secure the tire gate (90-315BH001) to the pivot pin bracket (93-315BH002) using the supplied (2) flanged sleeve bushings (90-315CJ002B), pin capture washer (90-315BH008A), 20mm castle nut and 4mm cotter pin.

**NOTE:** Install the same number of tire gate pin spacer(s) (90-315BH001U) as 1/8" spacer(s) (90-315BH001W) installed under the tire gate.



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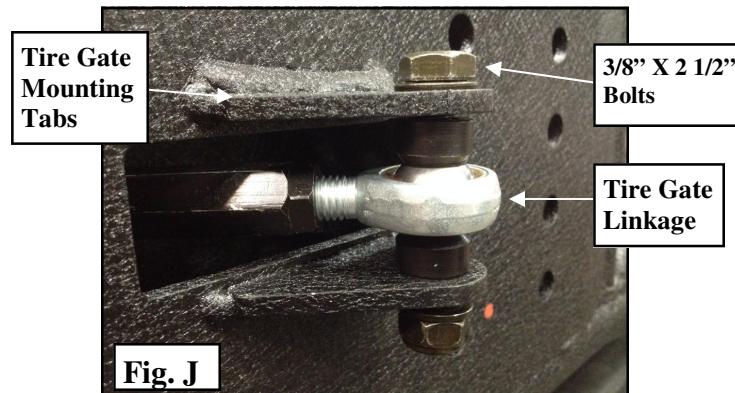
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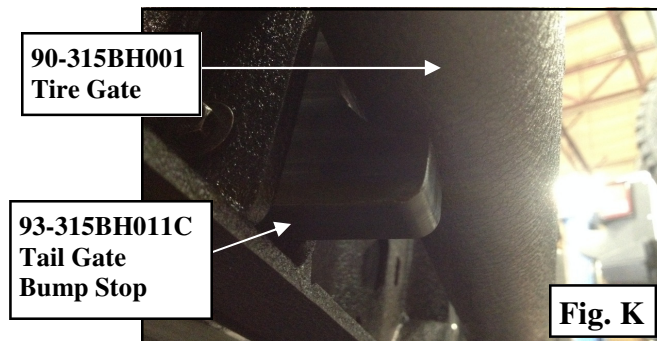
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**Step 19:** Feed the gate linkage assembly through the access hole in the tire gate (93-315BH001) and attach to the mounting tabs using the supplied 3/8" X 2 1/2" bolt and nylock nut. (Fig J)

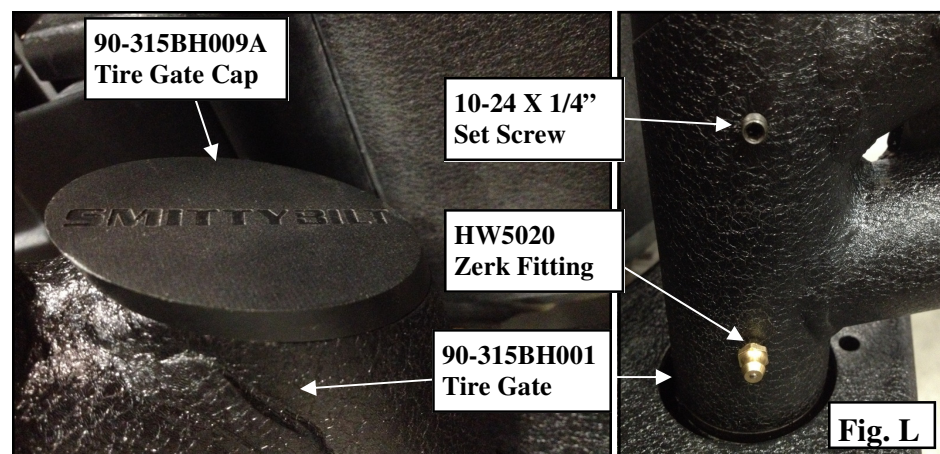


**Step 20:** Adjust the gate linkage assembly to ensure the tire gate closes tightly against the tire gate bump stop (90-315BH011C). (Fig K)

*NOTE: It is easiest to adjust the gate linkage assembly with the tail gate slightly open.*



**Step 21:** Press the tire gate cap (90-315BH009A) onto the tire gate (93-315BH001) and secure using the 10-24 X 1/4" set screw. (Fig L)



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**Step 22:** Install the 1/4"-28 Zerk fitting (HW5020) into the tire gate (93-315BH001). (Fig L)

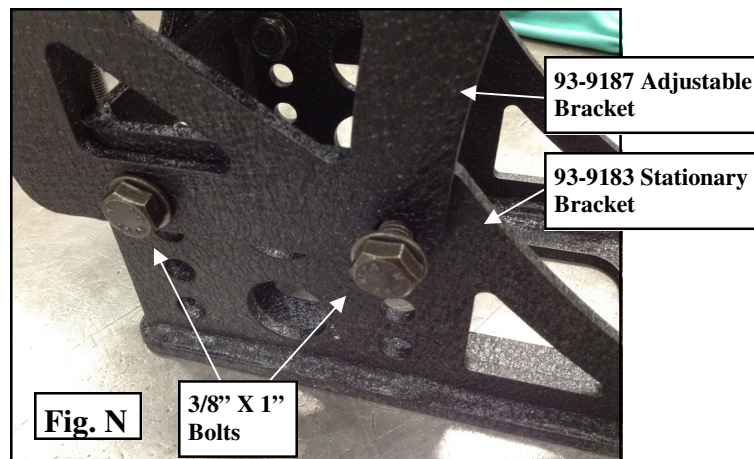
**Step 23:** Using the vehicle spare tire as a guide, set the adjustable wheel mount bracket (93-9187) on the backside of the rim mounting surface. Determine the bolt pattern by matching up the corresponding holes. Mark the holes that apply to your bolt pattern.

(Fig M)

**NOTE:** The wheel mount plate is fully adjustable to accommodate multiple bolt patterns for future axle upgrades.



**Step 24:** Assemble the wheel mount bracket (adjustable bracket 93-9187 & stationary bracket 93-315BH005) using the supplied (5) 3/8" X 1" bolts and hardware. Leave the bolts loose at this time. Lay the spare tire face down on the ground and install the wheel mount bracket temporarily onto the spare tire. (Fig. N)



**Step 25:** With the spare tire face down, lay a ruler or a flat bar across the tire and adjust the wheel mount bracket assembly until the base makes contact with the ruler or flat bar. Torque the wheel mount bracket assembly bolts according to the chart on page 13. (Fig. O)

**NOTE:** The assembled bracket may not line up perfectly with the straight edge.

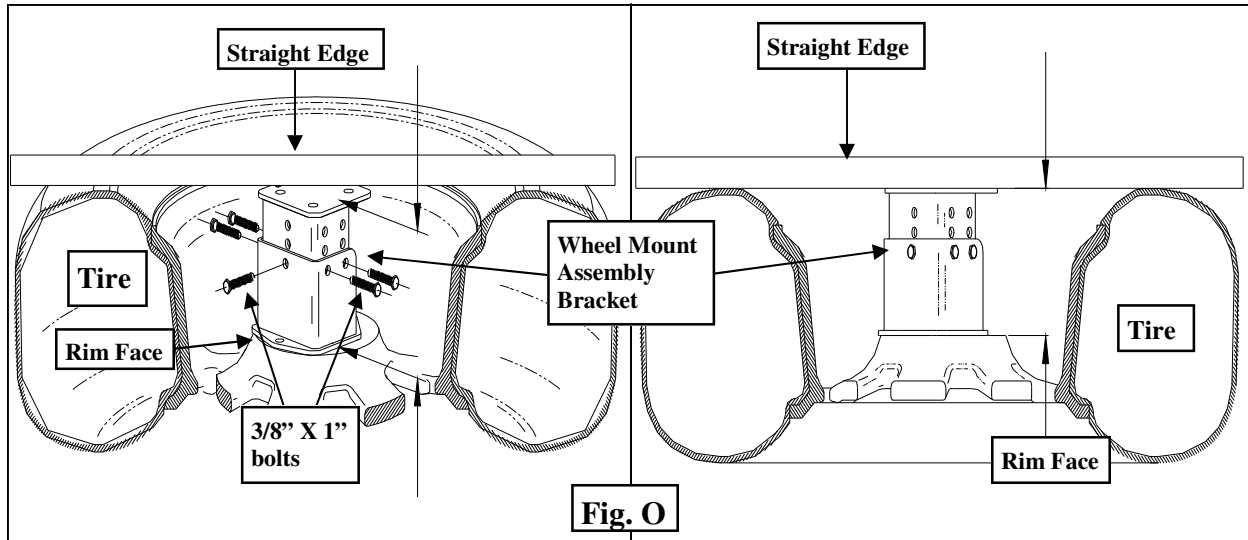
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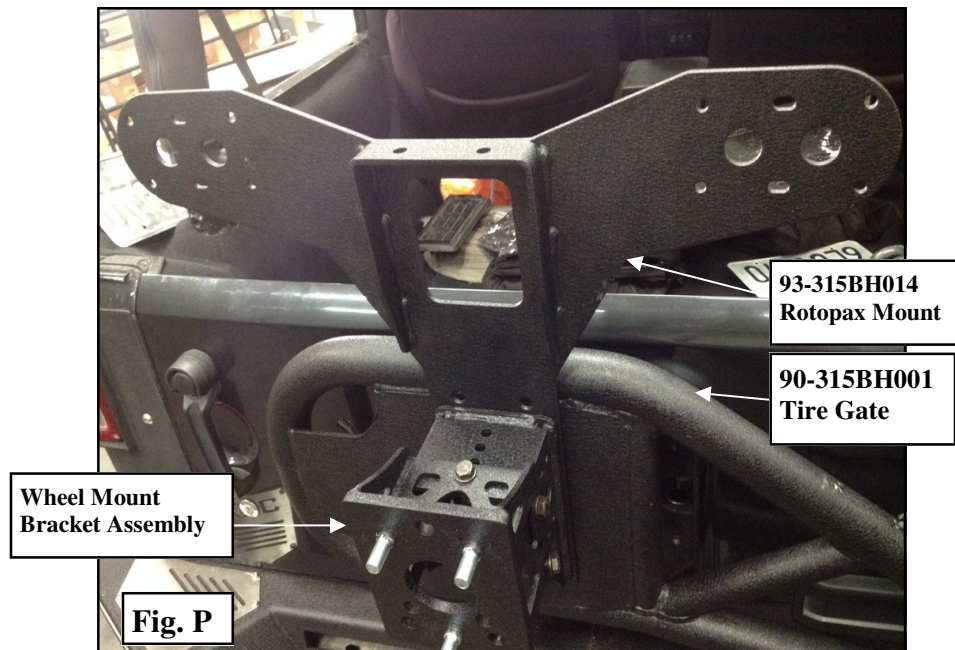
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**Step 26:** Install the rotopax mount (93-315BH014) and wheel mount bracket assembly onto the tire gate (93-315BH001) using the (4) supplied 1/2" X 1 1/2" hardware. Torque 1/2" hardware to 80 ft./lbs. (Fig. P)

**NOTE:** The size of the spare tire will determine the mounting height of the bracket. If possible, it is better to have the tire fit tighter against the straight edge/tire gate to avoid excess vibration.

**TIP:** For off-road applications, raise the tire position for more departure angle. For street driven applications, lower the tire position for greater rear window vision.



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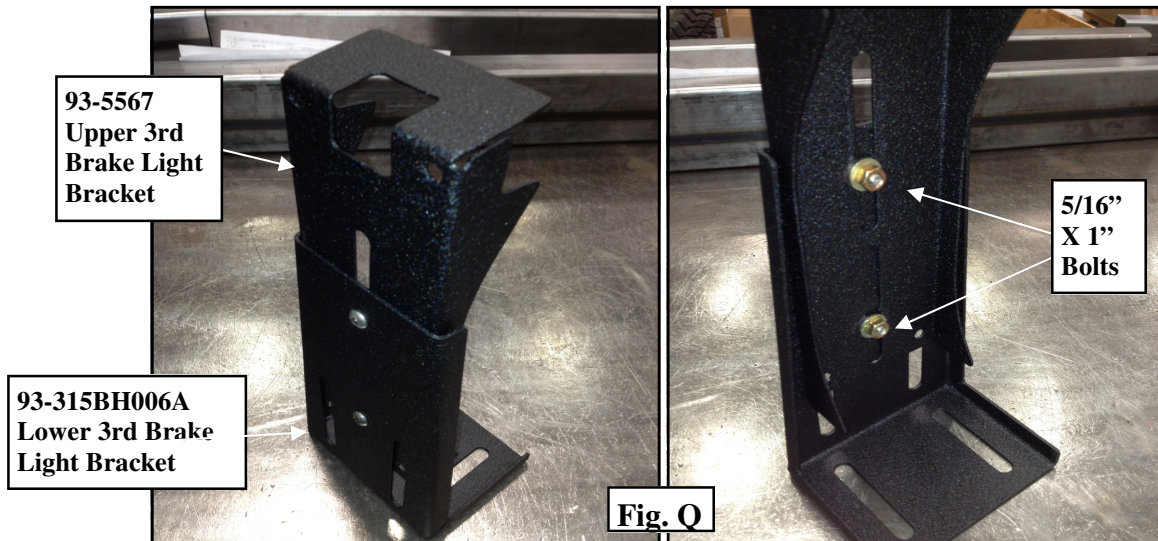
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**Step 27:** Very carefully, close the tire gate assembly and watch for tire gate clearance over top of the bumper.

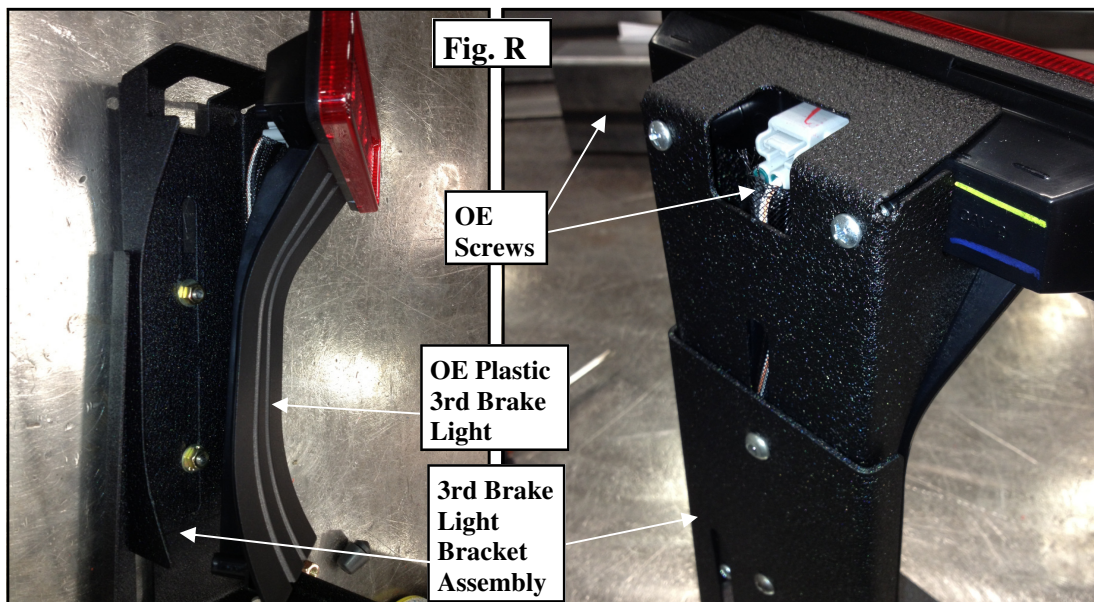
**NOTE:** *Be careful not to scratch the top of the bumper.*

**Step 28:** Install the spare tire to the tire mount bracket assembly using (3) 1/2"-20 lug nuts. Torque to 65 ft./lbs.

**Step 29:** If a third brake light is being used, install the third brake light upper bracket (93-5567) into the third brake light lower bracket (93-315BH006A). Secure using the (2) supplied 5/16" X 1" black button head bolts and hardware through the slots. (Fig. Q)



**Step 30:** Remove the (2) OE screws from the OE plastic third brake light assembly. Install the OE front plastic panel and lens into the new third brake light assembly using the (2) previously removed OE screws. (Fig. R)



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**Step 31:** Secure the third brake light bracket assembly to the top of the rotopax mount (93-315BH014) using the supplied (2) 3/8" X 1" bolts and hardware.

**Step 32:** Extend the 3rd brake light wiring harness to the passenger side hinge, then up the tire gate. This can simply be done by splicing the wire and using some insulated butt splice connectors and 18 gauge wire, extend the wire to the appropriate length. It is recommended to have this done by an experienced electrical installer.

**Step 33:** Installation of the tire gate is now complete. (Fig. S)



Fig. S

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Use this only as a guide for hardware without a called out torque specification in the instruction manual.

<b>Bolt Torque and ID</b>						
<b>Decimal System</b>			<b>Metric System</b>			
All Torques in Ft. Lbs. Maximums						
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15	20	M6	5	9	12
3/8	30	45	M8	18	23	27
7/16	45	60	M10	32	45	50
1/2	65	90	M12	55	75	90
9/16	95	130	M14	85	120	145
5/8	135	175	M16	130	165	210
3/4	185	280	M18	170	240	290

<p>1/2-13x1.75 HHCS  <span style="display: inline-block; border: 1px solid black; padding: 2px;">D</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">T</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">L</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">X</span></p>	<p><b>Grade 5    Grade 8</b> (No. of Marks + 2)</p>	<p>M12-1.25x50 HHCS  <span style="display: inline-block; border: 1px solid black; padding: 2px;">D</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">T</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">L</span> <span style="display: inline-block; border: 1px solid black; padding: 2px;">X</span></p>
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<p>G = Grade (Bolt Strength)  D = Nominal Diameter (Inches)  T = Thread Count (Threads per Inch)  L = Length (Inches)  X = Description (Hex Head Cap Screw)</p>	<p>P = Property Class (Bolt Strength)  D = Nominal Diameter (Millimeters)  T = Thread Pitch (Thread Width, mm)  L = Length (Millimeters)  X = Description (Hex Head Cap Screw)</p>
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### Product cleaning and maintenance instructions

**Stainless Steel Finish** – Aluminum polish may be used to polish small scratches and scuffs on the finish. Mild soap, window or glass cleaner may be used to clean the finish. **Dual state powder coat finish** – Mild soap, window or glass cleaner may be used to clean the finish. In order to protect the finish, you may wax your product on a regular basis with pure carnauba automotive wax. Do not use any types of soap, polish or was that contains abrasive that could damage the finish. **Textured coated finishes** should be cleaned with a mild soap on a damp sponge. Do not apply polish or was that requires to be removed by means of buffing. This type of wax is commonly used at car wash facilities. **Chrome Finish** – Mild soap, window or glass cleaner may be used to clean the finish. In order to protect the finish you should wax your product on a regular basis with pure carnauba automotive wax. Do not use any types of soap, polish or was that contains abrasive that could damage the finish.

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**Limited Warranties**

Smittybilt's products are covered under the following limited warranties only. Note that the duration of the limited warranty differs according to the material and finish of the product purchased. Subject to the duration and conditions of the limited warranty stated below, Smittybilt warrants to the original retail purchaser that its products are free from defects in material and workmanship. All other warranties and representations express or implied, are hereby disclaimed, including fitness for merchantability and buyer's intended use or purpose. All parts are sold "AS IS" except for the limited warranties granted herein. Buyer assumes all risks as to the selection, suitability and performance of all goods and products selected. This limited warranty does not cover damage or impairment in any part due to misuse, improper installation, accident or contact with on-road or off-road hazards, product modification, improper or inadequate cleaning and/or maintenance. Smittybilt is not responsible for items damaged during shipping. This warranty is not transferable from the original buyer. For the original Buyer to be eligible for the limited warranty coverage, the Buyer must provide proof of purchase. Smittybilt strongly recommends returning the warranty registration card.

Customer's remedy hereunder shall be limited only to repair or replacement (at Smittybilt's option) of any defective part(s) returned to Smittybilt at customer's expense. The determination of whether or not a returned part is defective or subject to coverage under the limited warranties stated herein shall be made at Smittybilt's sole discretion.

To assure product quality, Smittybilt reserves the right to change product design, material, specification and finishes without prior notice to customers. This limited warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply as to you. Also, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Smittybilt reserves the right to discontinue product lines and substitute products, or provide other remedies than those listed in this limited warranty for those discontinued products.

**Warning**

Rollover and other types of vehicle accidents may result in serious injury or death to you, your passengers and others sharing the road. Smittybilt accessories are decorative and are not intended to reduce or avoid injury or damage in the event of an accident. The weight and location of Smittybilt accessories may affect your vehicles' handling, stability and performance, creating an increased risk of accident or rollover. Before installing any accessory, check state laws and assure that the accessory will not obscure any lights or interfere with proper operation on your vehicle's safety equipment. Consult your owner's manual and the Smittybilt instructions, or additional safety information. Smittybilt products, nor the warnings contained herein, are not a substitute for your safe driving. Don't drink and drive, always use seat belts and don't drive faster than conditions permit.

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