

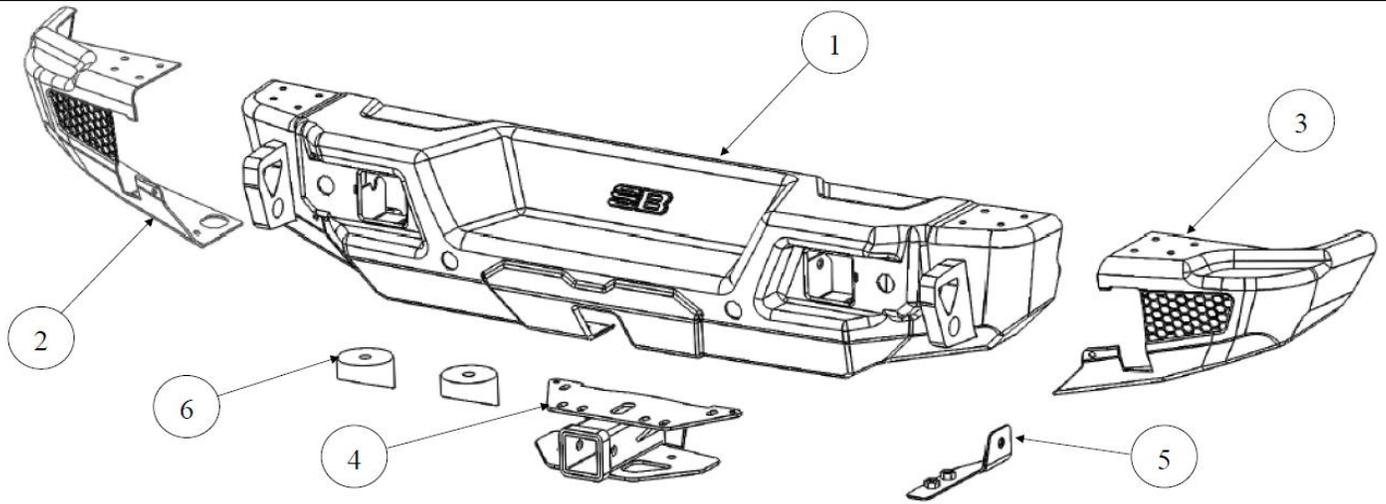


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**Installation Instructions
Stryker Rear Bumper
2018 + Jeep Wrangler JL
Part #: S/B77732**

NOTE: Be sure to check that all hardware and components are present before attempting to install this part. If you are missing any hardware or components, please contact technical support.

NOTE: These instructions were performed on a Rubicon model equipped with metal bumpers, Sport and Sahara models with plastic bumpers may differ slightly. If your Jeep has plastic bumpers with sensors, you will need to purchase OE Rubicon back up sensor sockets and retainers from your local dealership, as they are not removable. Mopar part numbers are listed on Page 5 of this manual.



Parts Included	QTY	ID
STRYKER REAR BUMPER	1	1
DRIVER SIDE WING	1	2
PASSENGER SIDE WING	1	3
HITCH RECEIVER BRACKET	1	4
NUT PLATE	1	5
TRAILER PLUG ADAPTERS	2	6
M8 BUTTON CAP BOLTS	14	
M8 NYLOCK NUTS	14	
M8 FLAT WASHERS	14	
M8 LOCK WASHERS	20	
M12 X 100MM HEX BOLT	4	

Parts Included	QTY	ID
M12 FENDER WASHER	5	
M14 X 40MM FLANGE HEAD BOLT	5	
M14 X 35MM SOCKET HEAD BOLT	1	
M14 FLAT WASHER	1	
M12 X 35MM SOCKET HEAD BOLT	1	
M12 X 35MM HEX BOLT	2	
M12 FLAT WASHER	18	
M12 X 30MM HEX BOLT	8	
M12 NYLOCK NUT	8	
M8 HEX BOLT	2	

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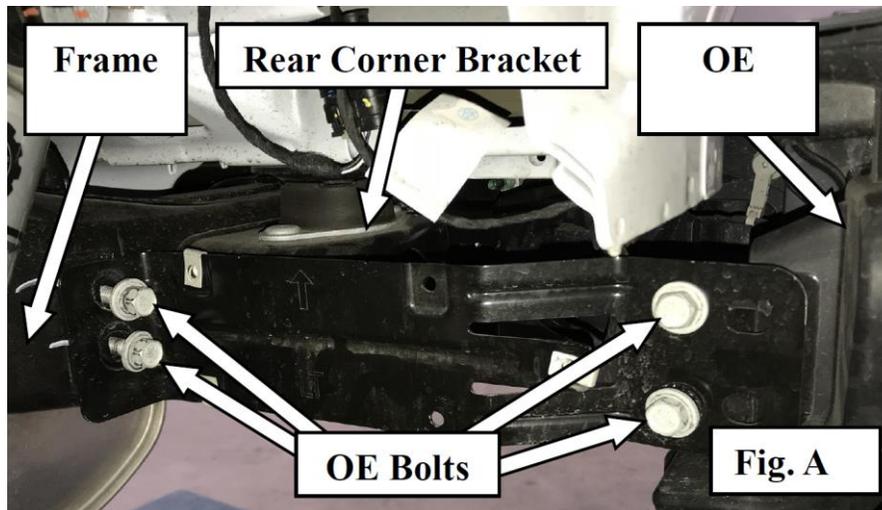
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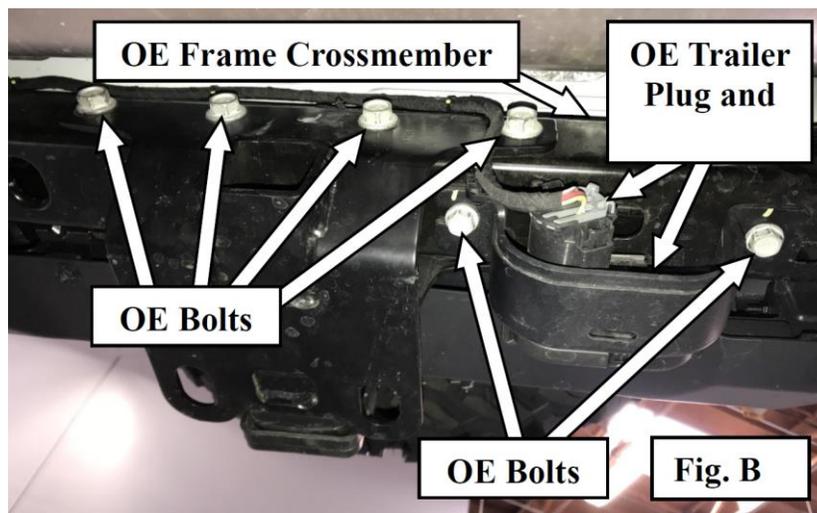
NOTE: Carefully read this entire instruction manual thoroughly before attempting to assemble and/or install this product. Photos may differ slightly from your vehicle and the parts you receive; the installation process will remain the same.

Step 1: Park vehicle on a flat level surface. Apply the parking brake and chock all 4 wheels.

Step 2: Remove the (4 per side) OE bolts securing the driver and passenger side rear corner brackets to the frame rails (**Fig. A**).



Step 3: Using an 18mm wrench, remove the (4) OE bolts securing the OE rear bumper OE frame crossmember (**Fig. B**).



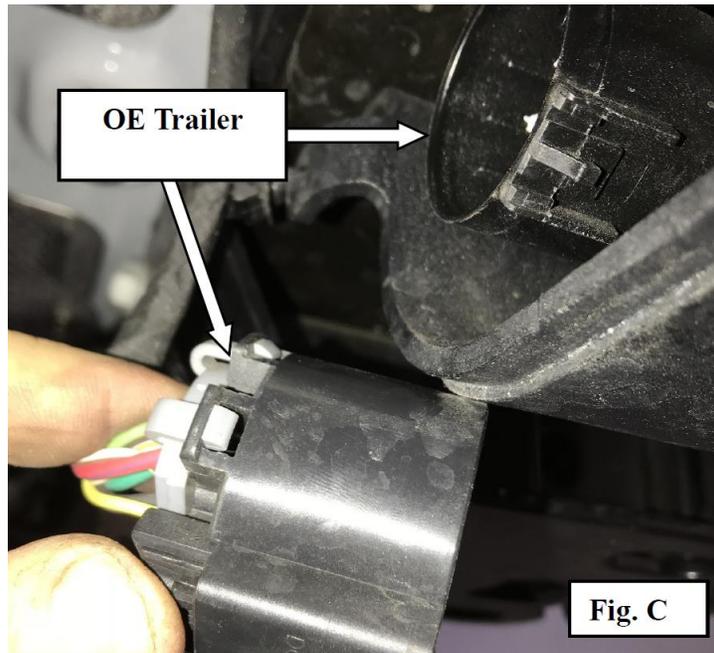
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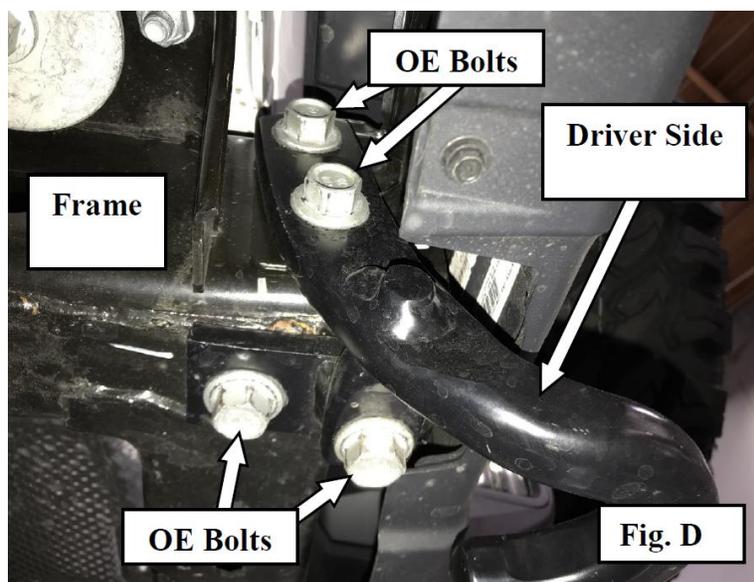
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Step 4: If equipped, disconnect the trailer plug and unbolt the base from the frame (**Fig. C**).



Step 5: On the driver side, remove the (4) OE bolts and remove the tow hook from the frame. On the passenger side, remove the (2) OE bolts securing the OE rear bumper to the side of the frame rail (**Fig. D**).



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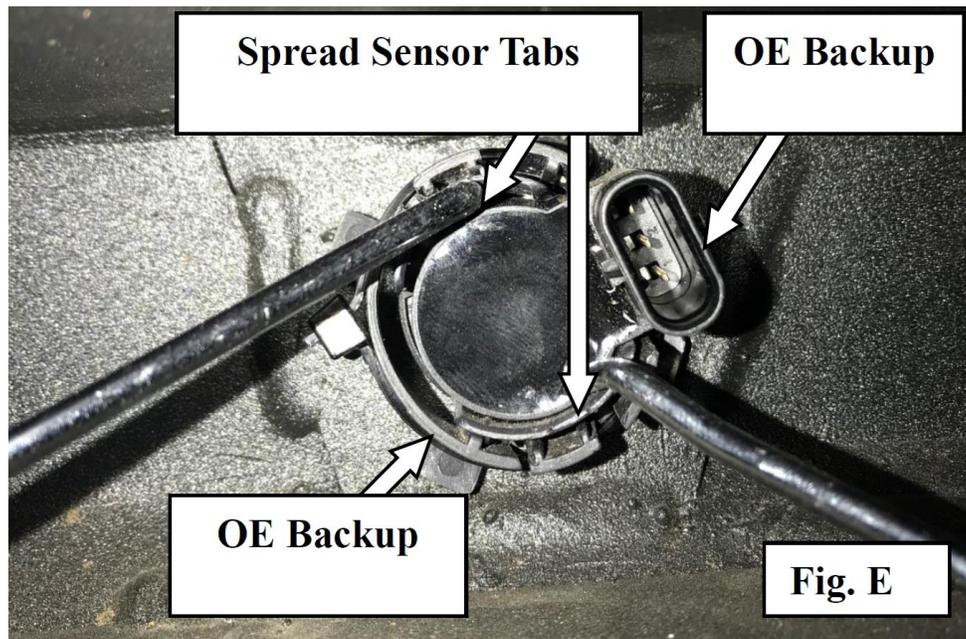
**Installation Instructions
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Part #: S/B77732**

Step 6: Under the driver side rear quarter panel, disconnect the back up sensor wiring harness connector.

Step 7: Carefully remove the OE rear bumper from the vehicle. Save the OE hardware for reinstallation.

NOTE: *Be sure to note the orientation of the back-up sensor retainers in the OE bumper prior to removal for reinstallation.*

Step 8: Unplug the OE wiring harness from the OE back up sensors and remove the OE back up sensors by spreading the back of the sockets, where clipped over the sensor tabs, while pushing the sensors out from the front (**Fig. E**).



NOTE: *Be sure the OE back up sensor O-ring are not lost during removal.*

Step 9: Metal Rubicon Bumper Only: Disengage the locking tabs securing the outer retaining ring to the socket. Carefully push the sockets out from the backside and remove from the OE Bumper. (**Plastic bumpers require additional components, see page 5 for more info**).

Step 10: Install the OE back-up sensor sockets into the mounting holes on the Stryker rear bumper according to their original orientation in the OE bumper (**Fig. F**).

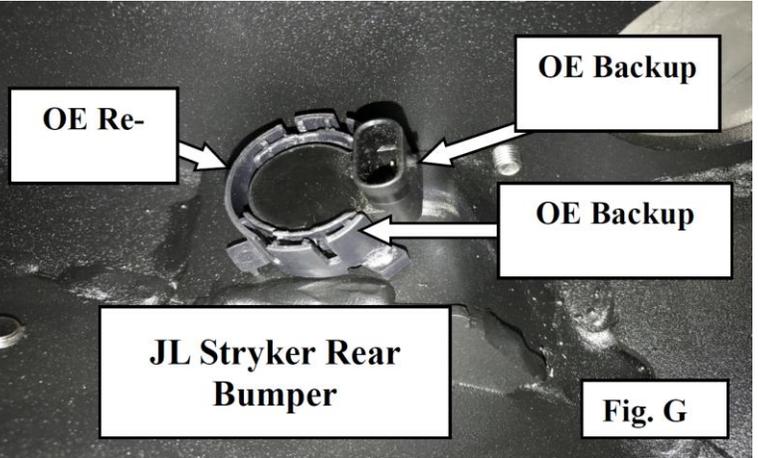
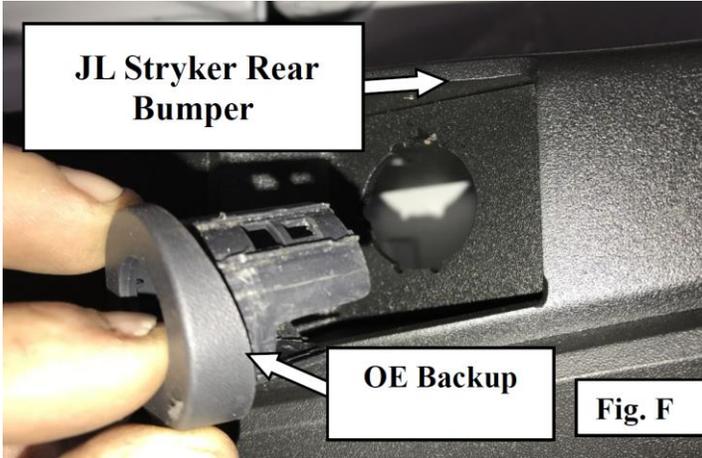
Step 11: Install the previously removed OE back-Up sensors into the OE back-up sensor sockets, using the OE retainers, according to their original orientation in the OE bumper (**Fig. G**).

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Part #: S/B77732



NOTE: These instructions were performed on a Rubicon model equipped with metal bumpers, Sport and Sahara models with plastic bumpers may differ slightly. If your Jeep has plastic bumpers with sensors, you will need to purchase OE Rubicon backup sensor sockets and retainers from your local dealership, as they are not removable.

Rubicon OE rear bumper sensor parts needed if you have a plastic bumper with sensors:

- 6MH85RXFAB 1 68295603AB 1 6MH83RXFAB 1 68295601AB 1 6MH82RXFAB 1
- 68295600AB 1 6MH84RXFAB 1 68295602AB 1 68289851AA 4

Step 12: Install the driver and passenger side wings to your new Stryker rear bumper using (7) M8 X 20mm button cap bolts, washer and lock washer per side (**Fig. H & I**).



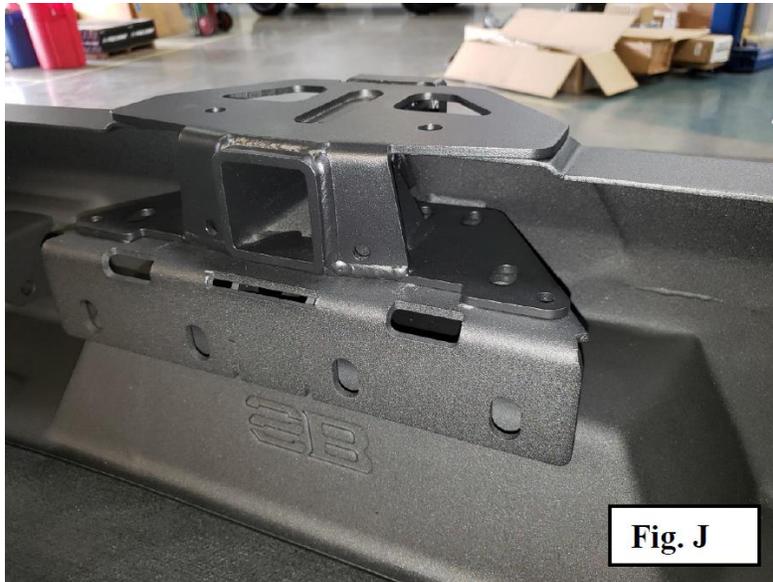
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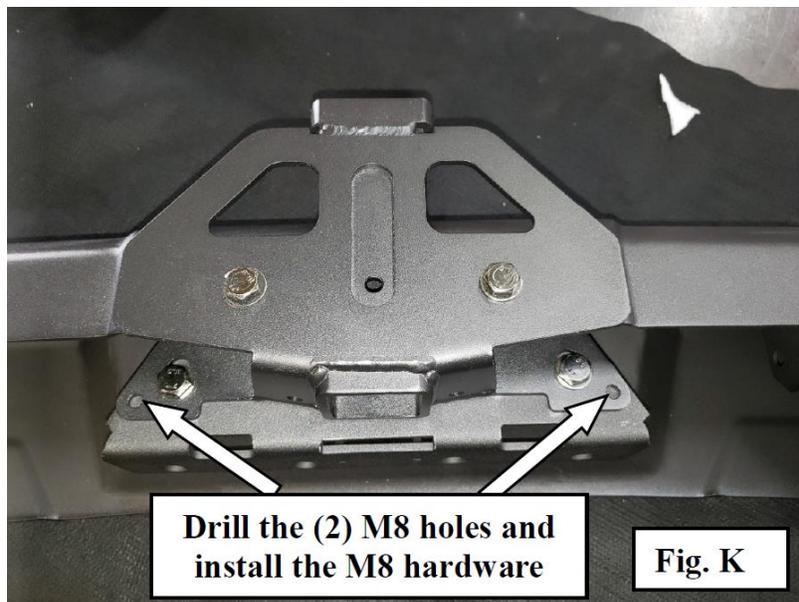
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Step 13: Install the hitch bracket to the center sections of the Stryker rear bumper using the (8) M12 X 30mm Hex bolts (16) M12 washers and (8) M12 nylock nuts align and secure torque the M12 bolts to 80 ft-lbs. **(Fig J).**



Step 14: Mark and drill the (2) M8 holes in the corners of the hitch receiver bracket and secure with the M8 hardware supplied with the Stryker rear bumper **(Fig. K).**



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Part #: S/B77732**

Step 15: Insert the nut plate in the rear passenger side of the frame rail. Using (1) M12 X 30mm Hex bolt and (1) M12 fender washer secure the nut plate to the frame rail (**Fig. L & M**), make sure that the (2) bottom weld nuts align with the frame before securing the top M12 Bolt.



Fig. L



Fig. M

NOTE: *This step might require 2 people.*

Step 16: Carefully raise the Stryker rear bumper against the outer frame rails and align the mounting holes. Secure the Stryker rear bumper to the outer frame rails using the (4) M14 X 40mm flange head bolts supplied with the bumper. Leave the bolts loose at this time (**Fig. N**).

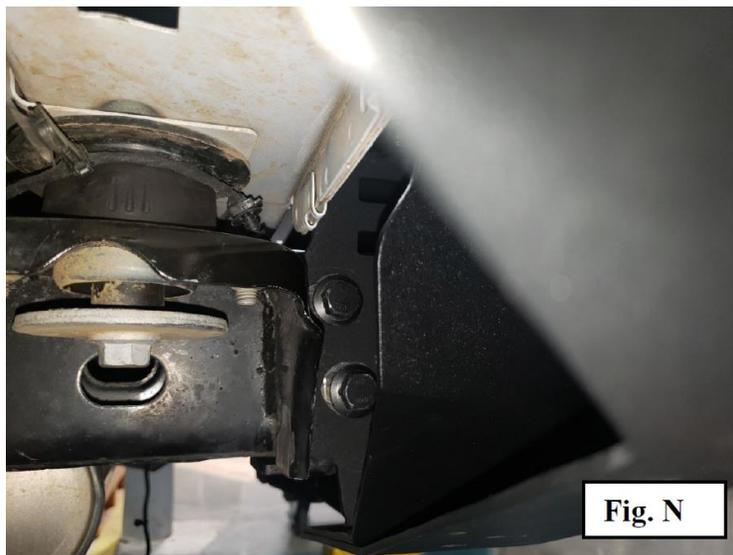


Fig. N

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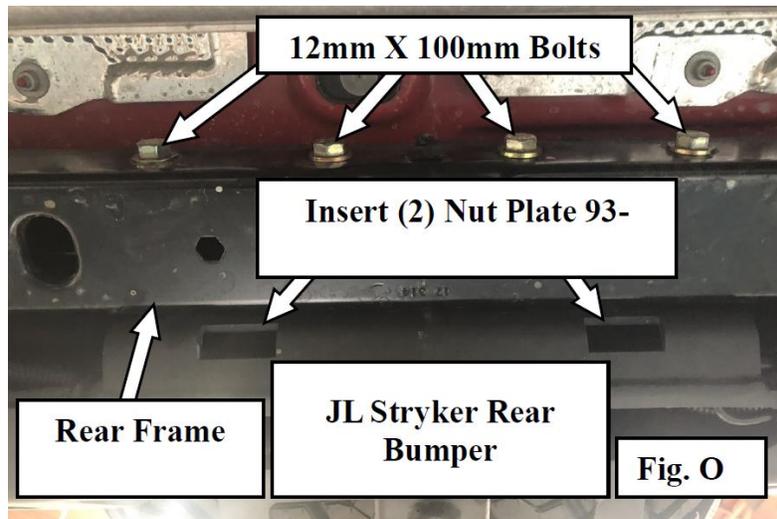


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**Installation Instructions
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Part #: S/B77732**

Step 17: Insert the (2) nut plates into the center (2) holes in the Stryker rear bumper (**Fig. O**).

Step 18: Secure the Stryker rear bumper to the rear frame crossmember using the (4) M12 X 100mm bolts, M12 washers and previously installed (2) nut plates. Level the rear bumper and torque the M12 bolts to 80 ft-lbs. (**Fig O**).



Step 19: Secure the (2) bolts from the bottom rear driver side frame using (1) M14 X 35mm socket head bolt and (1) M14 X 35mm Hex bolt. The M14 socket bolts goes in the first hole towards the rear bumper and the M14 hex bolt goes in the next hole (**Fig. P**).

Step 20: Secure the (2) bolts from the bottom passenger side frame using (1) M12 X 35mm socket head bolt and (1) M12 X 35mm hex bolt. The M12 socket bolts goes in the first hole towards the rear bumper and the M12 hex bolt goes in the next hole (**Fig. P**).



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Step 21: If applicable, reinstall the trailer plug base to the frame using the (2) M10 bolts and spacers and reconnect the trailer plug. Torque the M10 bolts to 40 ft-lbs.

Step 22: Install license plate relocation bracket (S/B7734) according to the instructions included with the kit. **(Sold separately)**

Step 23: Recheck all hardware for proper torque at this time. Torque all hardware according to manufacturer's specifications or chart on las page.

Step 24: Installation is now complete (Fig. Q).



Fig. Q

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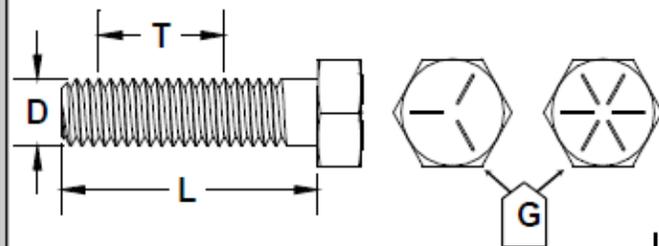
Bolt Torque and ID

Decimal System

Metric System

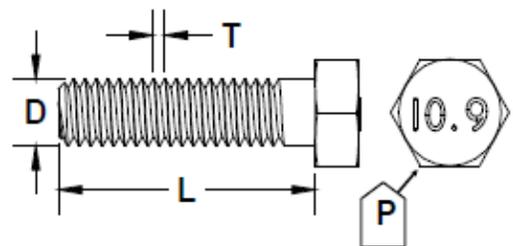
All Torques in Ft. Lbs.

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



1/2-13x1.75 HHCS

Grade 5 Grade 8
(No. of Marks + 2)



M12-1.25x50 HHCS



G = Grade (Bolt Strength)
D = Nominal Diameter (Inches)
T = Thread Count (Threads per Inch)
L = Length (Inches)
X = Description (Hex Head Cap Screw)

P = Property Class (Bolt Strength)
D = Nominal Diameter (Millimeters)
T = Thread Pitch (Thread Width, mm)
L = Length (Millimeters)
X = Description (Hex Head Cap Screw)



**WARNING: Cancer and Reproductive Harm -
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Limited Warranties

**Limited-Lifetime Structural Warranty
5-Year Finish Warranty**

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. **This Stryker Bumper carries a limited-lifetime structural warranty and a 5-year finish warranty.** 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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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 wax 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 wax 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 wax that contains abrasive that could damage the finish.

Always periodically check that all hardware is tight. This should be done 200 miles after installation and periodically after.

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