

# Installation Instructions



**JK, JL, JT, 2007+  
Atlas Front Bumper SB77892**



For Technical Support / Warranty Information please call 800-776-0767 EXT 1317  
Smittybilt, 400 W Artesia, Compton, CA 90220

# Important Notes Before Starting



## IMPORTANT NOTE

Carefully read through this entire instruction manual thoroughly before attempting to install this part.



## WARNING

Serious injury can occur when working on vehicles alone.

When possible, work with another person to reduce risk of injury from strain or other dangers that can occur when working alone.

The following tools will be required to complete the installation of this part:

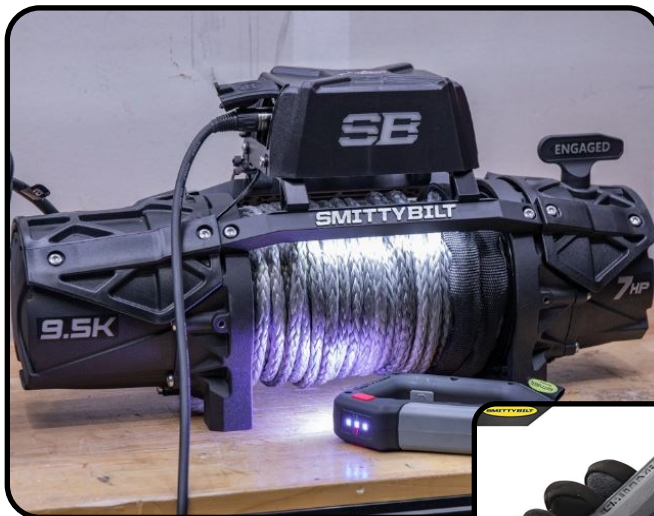
### TOOLS REQUIRED

Metric Socket and Wrench Set

Drill Motor, 9/16" bit, Torque Wrench

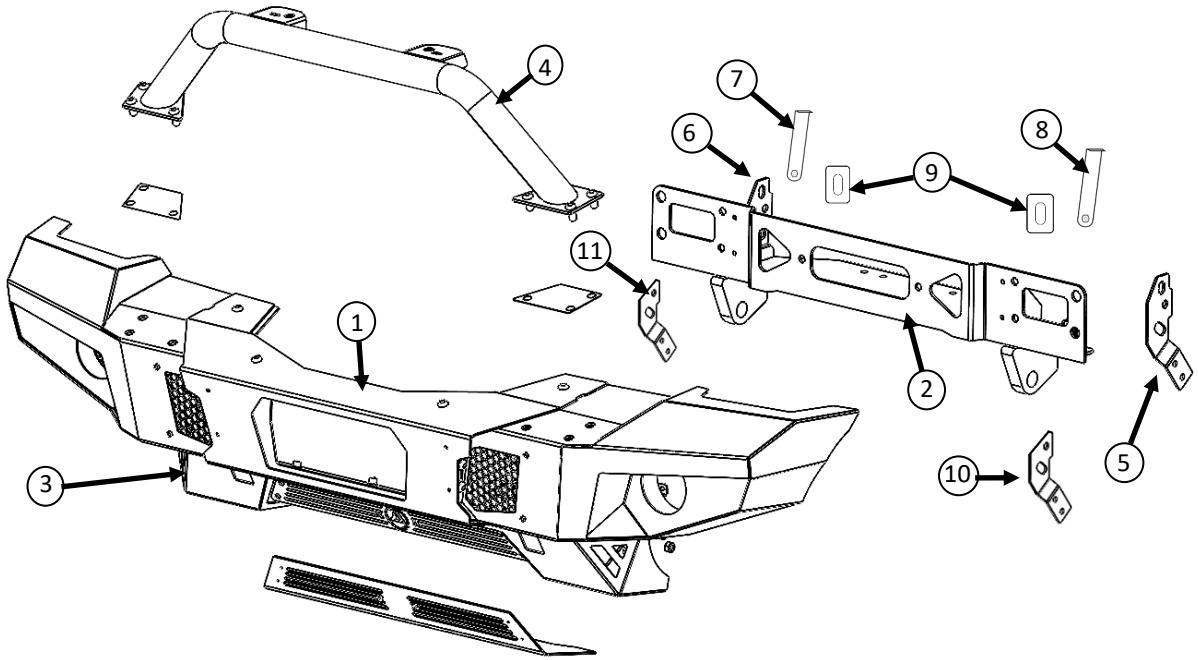
Blue Loctite\* or Similar Thread-locker Compound

Thank you for choosing Smittybilt accessories for your vehicle. If you would like to view our full range of available accessories, please visit us at [www.4wheelparts.com](http://www.4wheelparts.com)



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# Box Contents & Technical Information



## SB612923 Bumper Assembly

BUBBLE	DESCRIPTION
1	Main Bumper
2	Winch Plate
3	Skid Plate
4	Overrider
	Fog Light mounting bracket 3
5	Driver mounting bracket for JK
6	Passenger mounting bracket for JK
7	Passenger Nut plate
8	Driver Nut plate
	Driver Fog light mounting bracket
	Passenger Fog light mounting bracket
	Nut plate for JK
9	Filler Plate for JL
10	Skid plate Driver mounting bracket for JL
11	Skid plate Passenger mounting bracket for JL



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# Box Contents & Technical Information

## Hardware Packs

<b>20028859001</b>	<b>Hardware Package</b>	<b>1</b>
3000160	M10 LOCK WASHER	8
3000245	M10(10x30x2.5mm) LARGE FLAT WASHER	8
3000837	M10_25 HEX SOCKET BUTTON HEAD SCREW	5
3002683	M10_20 HEX HEAD BOLTS(FULL THREAD)	8
<b>20029899501</b>	<b>Hardware Package 3</b>	<b>1</b>
3000117	M4 LOCK WASHER	12
3000212	M4(4x12x1.0mm) LARGE FLAT WASHER	20
3001463	M4 HEX NUTS	8
3005912	M4_15 HEX SOCKET BUTTON HEAD SCREW	12
<b>20035164701</b>	<b>Hardware Package 5</b>	<b>1</b>
3000245	M10(10x30x2.5mm) LARGE FLAT WASHER	6
3000837	M10_25 HEX SOCKET BUTTON HEAD SCREW	6
3001410	M10 PREVAILING TORQUE TYPE HEXAGON NUTS	6
<b>20047100601</b>	<b>Hardware Package 6</b>	<b>1</b>
3000160	M10 LOCK WASHER	2
3000245	M10(10x30x2.5mm) LARGE FLAT WASHER	10
3000252	M12(12x37x3mm) LARGE FLAT WASHER	4
3001410	M10 PREVAILING TORQUE TYPE HEXAGON NUTS	4
3001418	M12 PREVAILING TORQUE TYPE HEXAGON NUTS	4
3002709	M10_30 HEX HEAD BOLTS(FULL THREAD)	4
3005435	M10_35 HEX HEAD BOLTS(FULL THREAD)	2



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## Installation Instructions: Disassembly

### Step 1: Check box contents

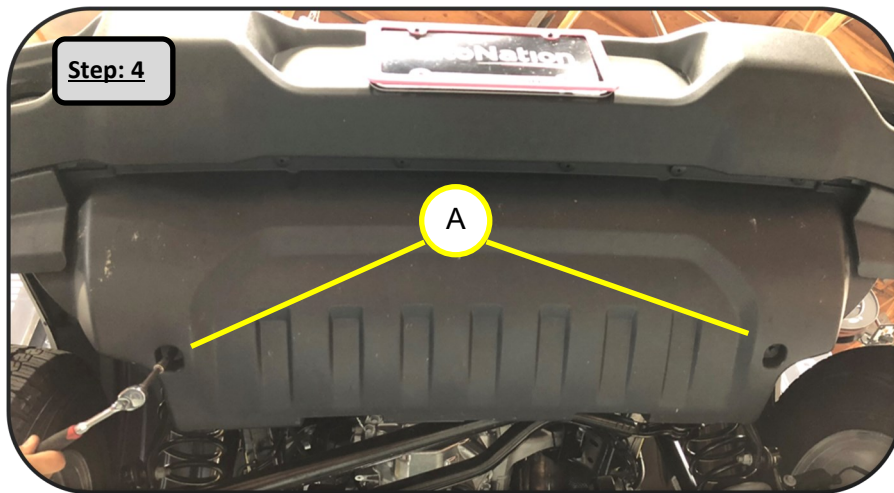
Open the box containing your new **Atlas Bumper**, check all parts against the Bill of Materials outlined in the first pages of these instructions.

**If anything is missing, contact Smittybilt Technical Support immediately.**

**Step 2:** Apply the parking brake and chock all 4 tires.

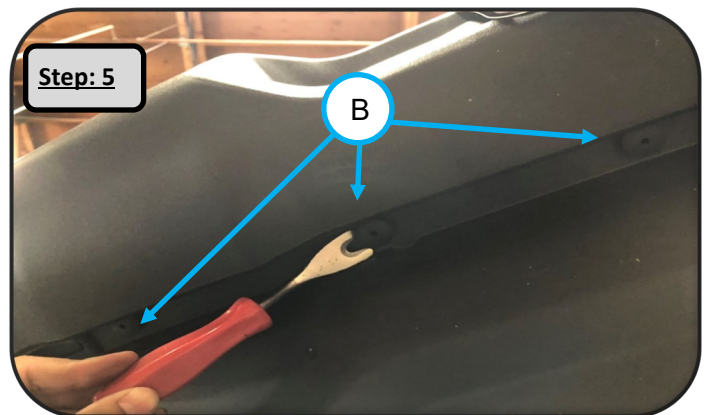
**Step 3:** Open the hood and disconnect the battery.

**Note:** This install was performed on a Jeep JL. Installs on JK and JT Gladiators will be very similar,



**Step 4:** Remove the screws (**Fig A.**) securing the skid plate to lower frame horns

**Step 5:** With a panel tool, locate and remove the plastic rivets along the front edge (**Fig B.**) securing the skid plate to the bumper



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## Installation Instructions: Disassembly



**Step: 6**

**Step 6:** Some models have optional beauty trim between the bumper and grille, go ahead and remove this by removing the plastic rivets securing it to the top of the frame rail. It will not be re-used



**Step: 7**

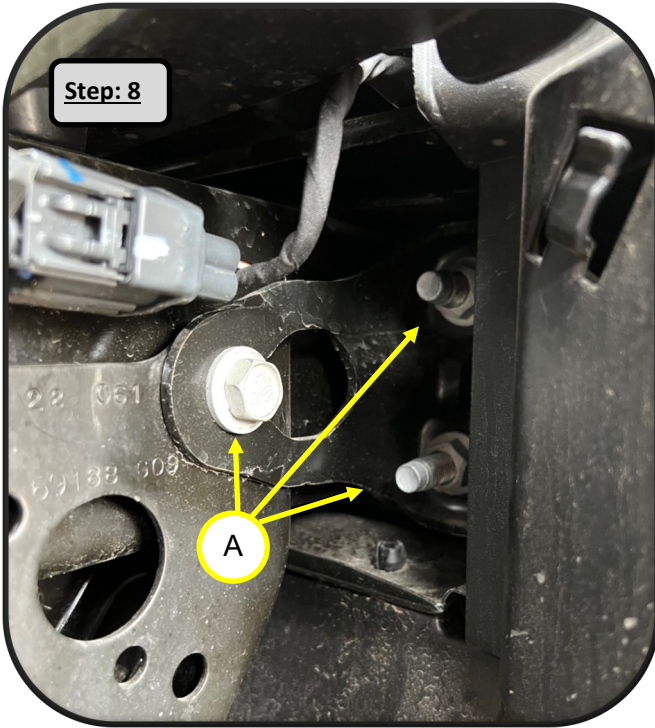
**Step 7:** On the Passenger side frame, behind the bumper, locate and disconnect the Bumper Harness Connector (**Fig A.**)



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## Installation Instructions: Disassembly

### Step: 8



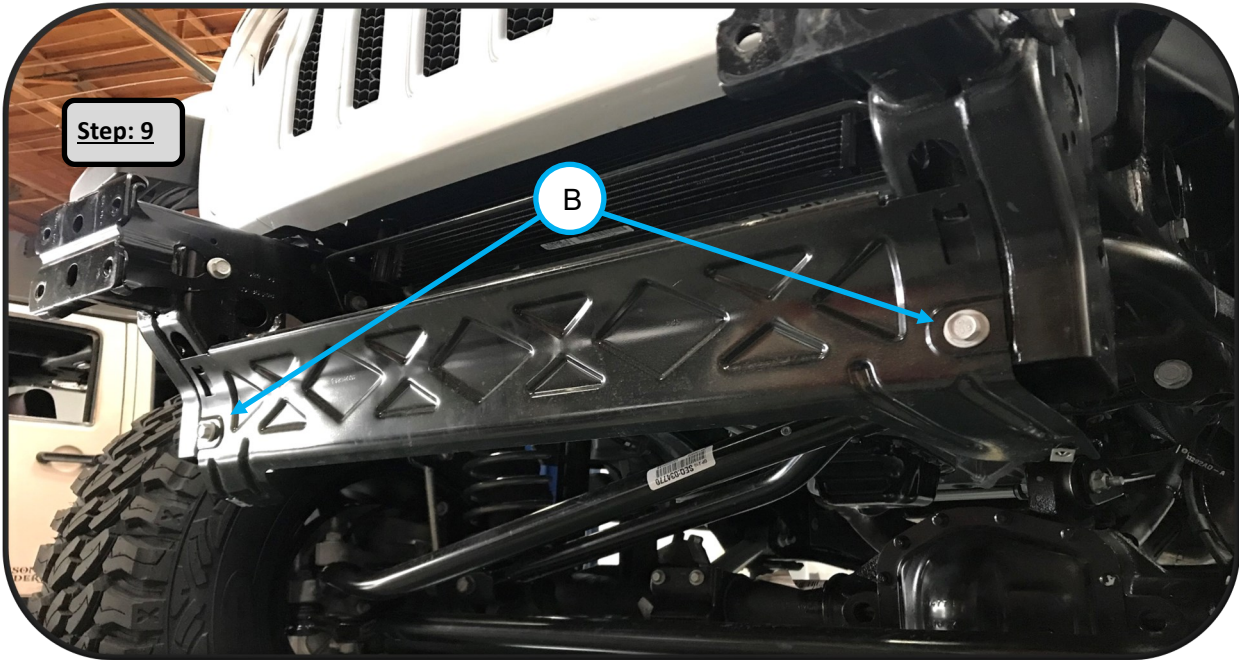
### Step 8:

'18+ JL & JT Behind the bumper, unbolt and remove the frame reinforcement brackets from both sides of the frame horns (**Fig A.**)

JK does not have these reinforcement brackets, remove the (4 qty) bumper mounting nuts on each frame horn.

Carefully remove the bumper from the vehicle and place on a packing blanket or similar soft surface to prevent scratches.

### Step: 9

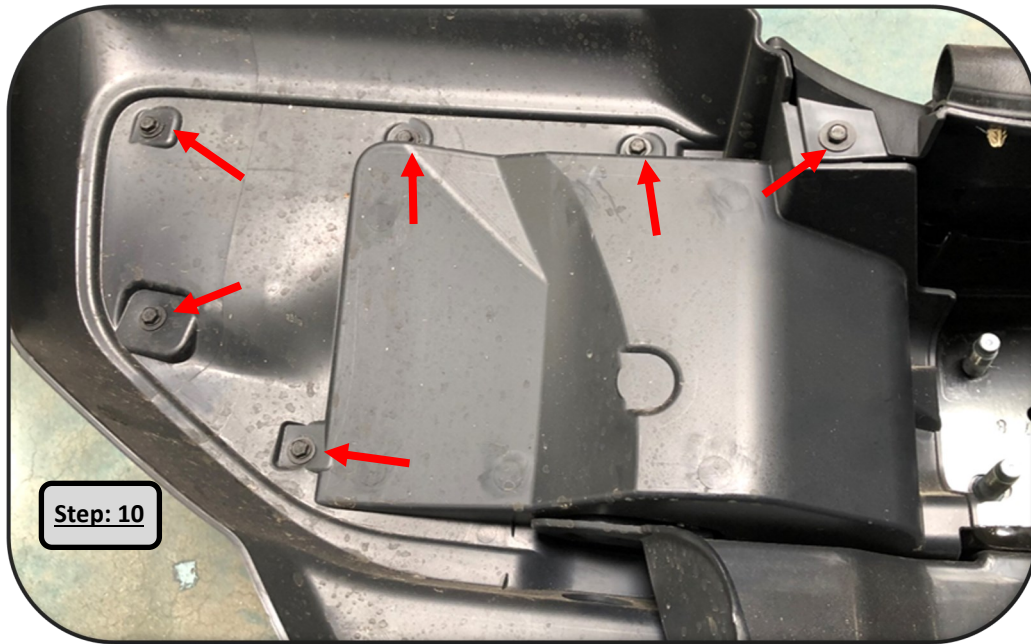


**Step 9:** Some models have an optional skid/backing plate bolted to the lower frame horns behind the factory bumper. Remove the bolts (**Fig B.**) securing it and set aside, it will not be re-used.



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## Installation Instructions: Disassembly



**Step 10:** There is a multitude of different factory bumpers, some have backing panels and others do not. Use a **7mm** socket or **Pry Tool** to remove the screws or plastic rivets securing the back panels on your OE bumper.



**Step 11:** Remove the OE plastic push rivets and any remaining screws. Remove the OE back panels from the OE front bumper.



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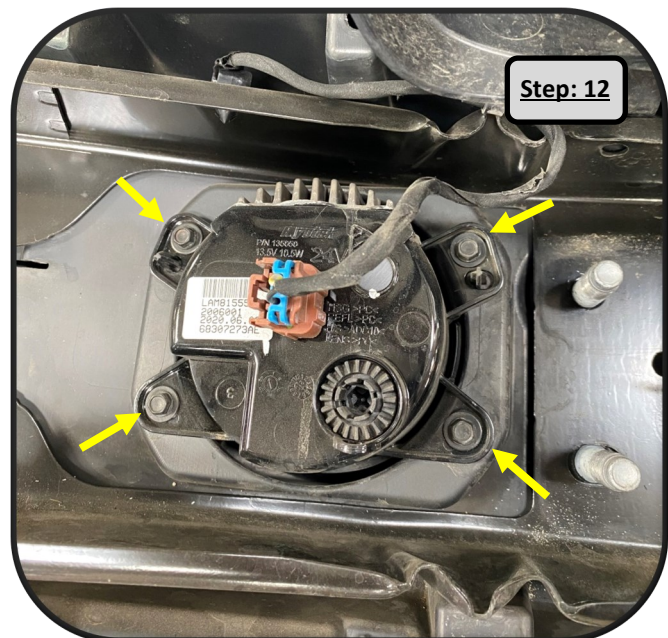


## Installation Instructions: Disassembly



**NOTE:** Depending on trim level, there are three different styles of OE fog/driving lights. This kit includes adapter brackets for styles **A** and **B**, style **C** is direct bolt in.

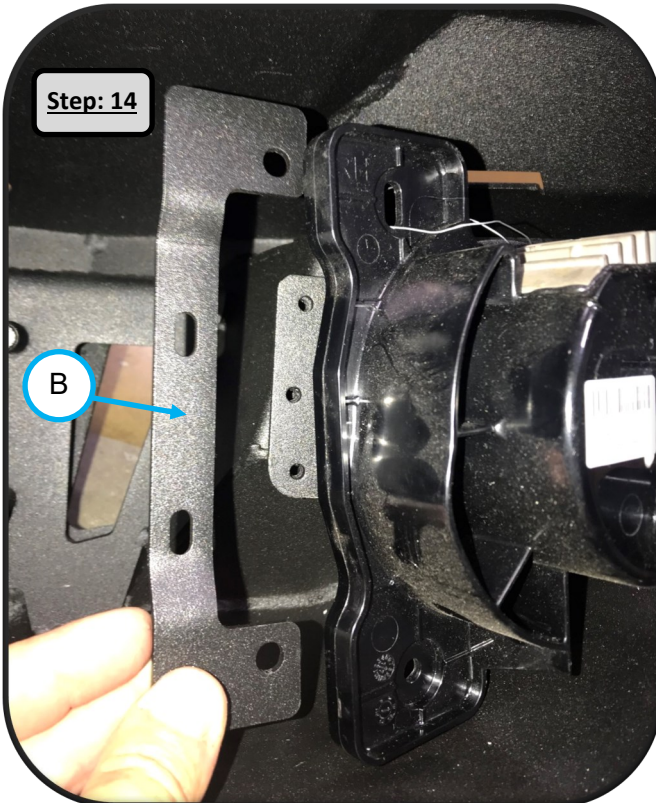
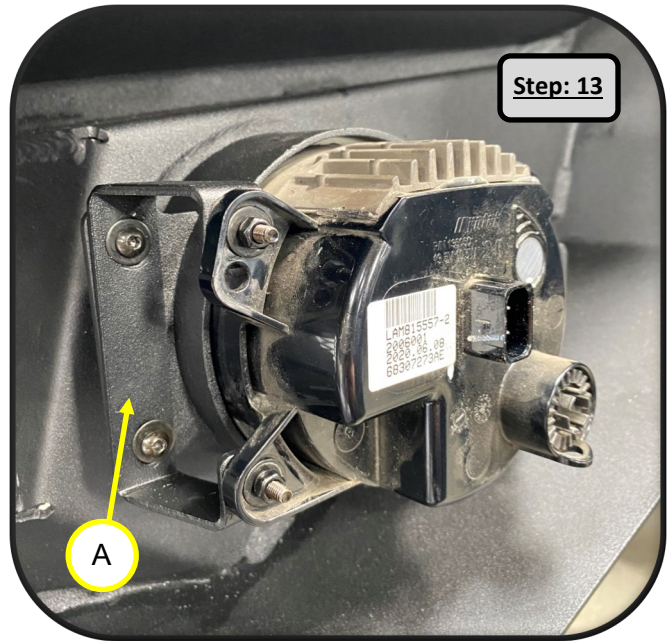
**Step 12:** If OE bumper is equipped with fog lights, mark or make note of their location and which side is up. Disconnect the wiring harness and remove the **(2-4) screws** securing the fog lights to the bumper. Set the lights aside for reinstallation into new bumper. Disassemble the bumper as needed, to remove the wiring harness from the bumper, this will be re-used in your new bumper in a later step.



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## Installation Instructions: Bracket Installation

**Step 13:** If you have **Style A** lights, locate the horseshoe shaped **JK Bracket (Fig A.)** Using the supplied M4 hardware, attach the bracket to the OE light and the bumper, making sure that it is in the same upright configuration as it was in the OE bumper. Tighten and torque M4 hardware to **3ft-lbs**.



**Step 14:** If you have **Style B** lights, locate the long skinny **JL/JT Bracket (Fig B.)** Using the supplied M4 hardware, attach the bracket to the OE light and the bumper, making sure that it is in the same upright configuration as it was in the OE bumper. Tighten and torque M4 hardware to **3ft-lbs**

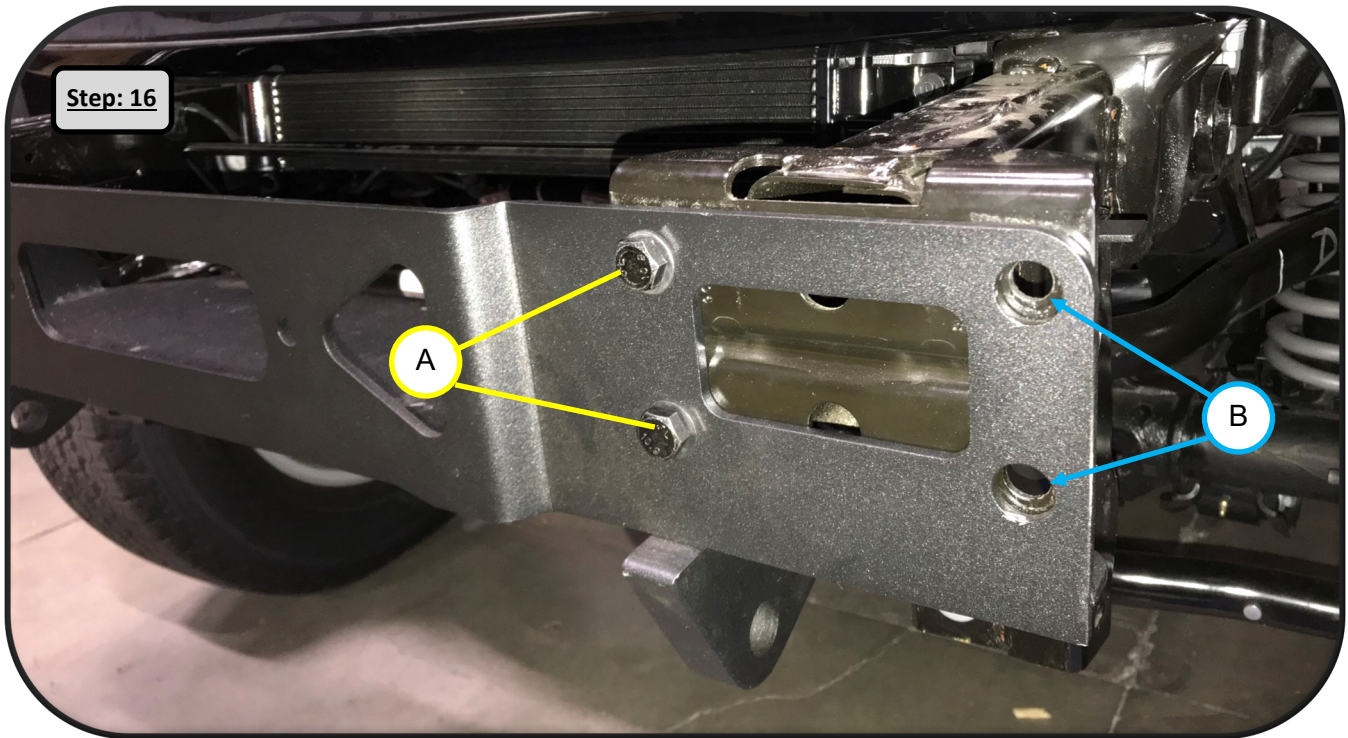


**Step 15:** If you have **Style C** lights, no brackets are needed, attach the lights to the bumper, using the supplied M4 hardware (**Fig C.**) making sure that it is in the same upright configuration as it was in the OE bumper. Tighten and torque M4 hardware to **3ft-lbs**



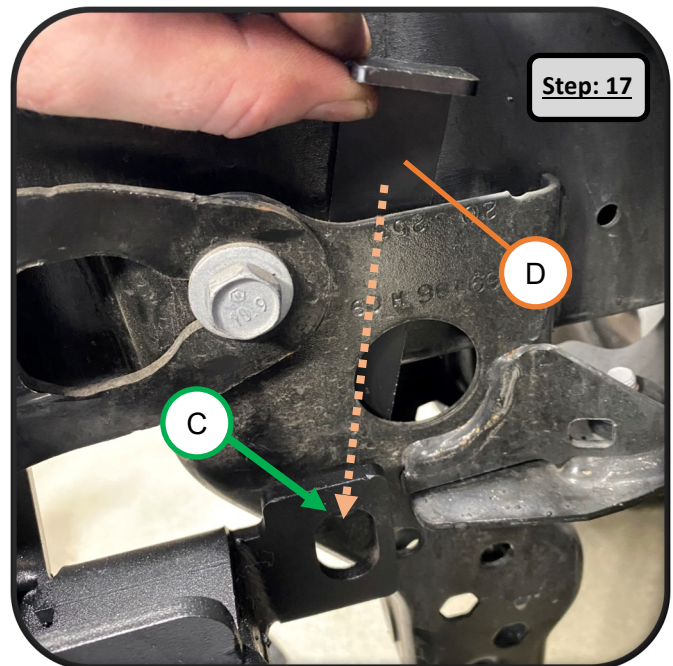
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## Installation Instructions: Cradle Installation



**Step 16:** Locate the new **Winch Cradle**. Using (4 qty) M10x30x1.25 bolts, Locknuts and (8 qty) Washers, mount it to the frame horns using the inner mounting holes (**Fig A.**) Adjust and center the cradle, tighten the mounting bolts to **75ft-lbs.** With the Winch Cradle tightened down, drill out the outer mounting holes (**Fig B.**) to 9/16". De-bur and coat the exposed metal with a zinc rich paint to prevent rust.

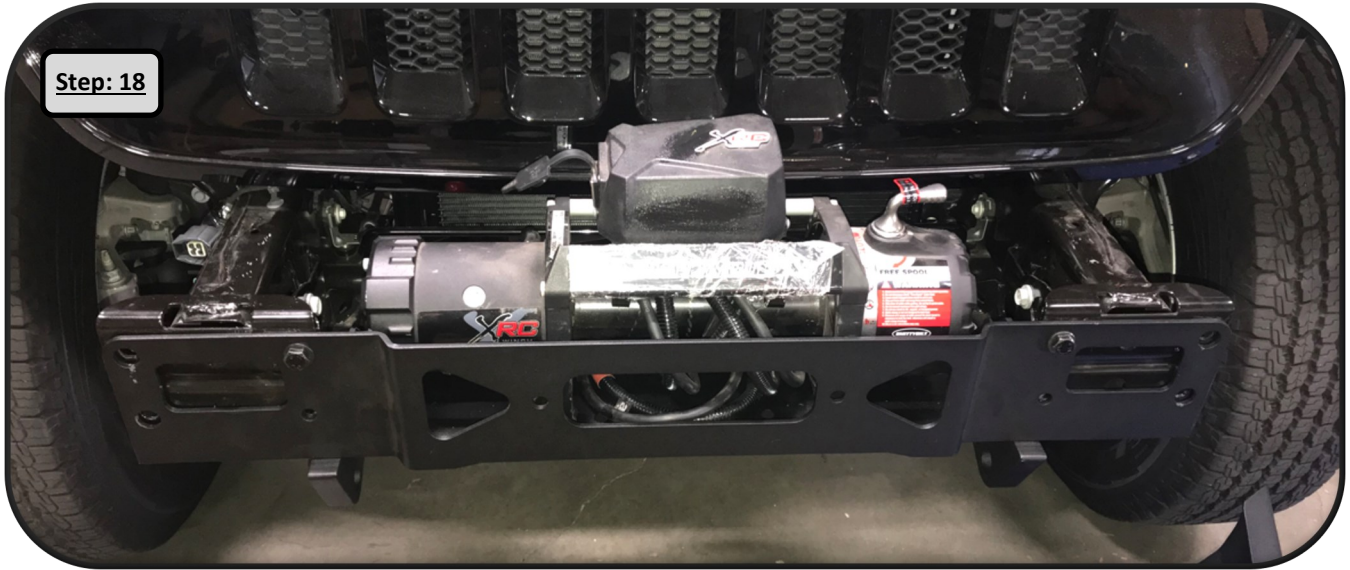
**Step 17:** There are mounting tabs at the back of the winch cradle, (**Fig C.**) these will be bolted to the lower frame horns. On JL and JT, there is a gap between this mounting tab and the frame horn, on JK there is not. In the supplied hardware kit, locate (2 qty) M10x35x1.25 bolts, Washers. **Pass & Drvr Nut Plates** (page 3 bubble 7, 8) JL & JT owners, locate (2 qty) **Filler Plates** (page 3 bubble 9) Install the **Nut plates** down the inside of the lower frame horn (**Fig D.**) insert the **Filler Plate** if necessary and secure with the M10 hardware. When satisfied with fitment, tighten & torque this hardware to **45ft-lbs.**



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## Installation Instructions: Cradle Installation

**Step: 18**

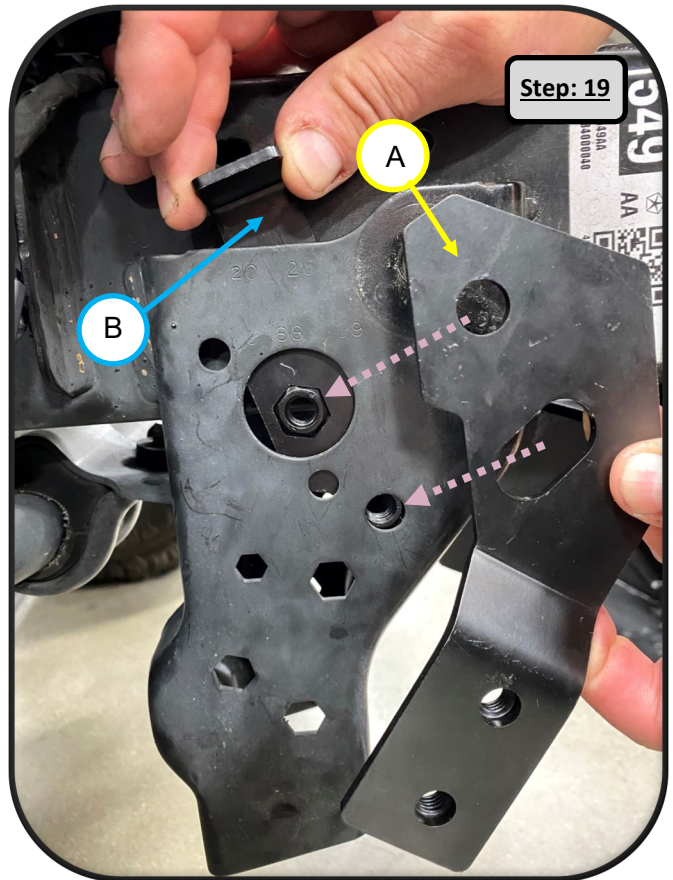


**Step 18:** If installing a winch, do so now, following the manufacturer's instructions for wiring, fairlead install, and torque specs.

**Step 19:** Locate the **Skid Plate Mounting Brackets (Fig A.)** that fit your application, along with the **Double Nut Plates (Fig B.)**

Install them on the outside of the lower frame horns as shown, using provided M10x25x1.25 Bolts, Washers. Tighten just finger tight at this time to allow for adjustment later.

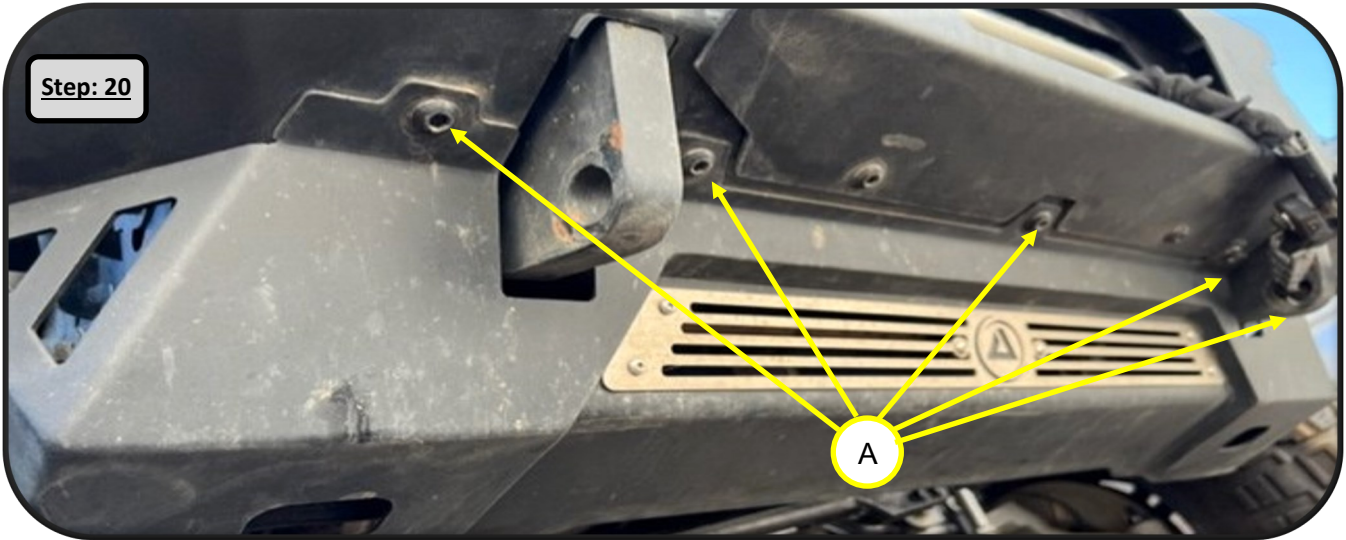
**Step: 19**



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## Installation Instructions: Bumper Install

### Step: 20



**Step 20:** If not previously installed, locate and install the **Skid Plate** to the bottom of the bumper using provided (5 qty) M10x25x1.25 Button head screws (**Fig A.**)

Tighten and torque these to **30ft-lbs.**

### Step: 21



**Step 21:** With the help of a friend, mount the **Bumper Assembly** onto the **Winch Cradle**, and through the outer frame horn mounting holes. Secure using supplied M10 Washers and Lock-nuts, do not tighten this hardware yet.

If not previously installed, the **Bull Bar** can be mounted to the bumper using provided (6 qty) M10x25x1.25 Button head bolts (**Fig B.**) Tighten and torque these to **30ft-lbs.**



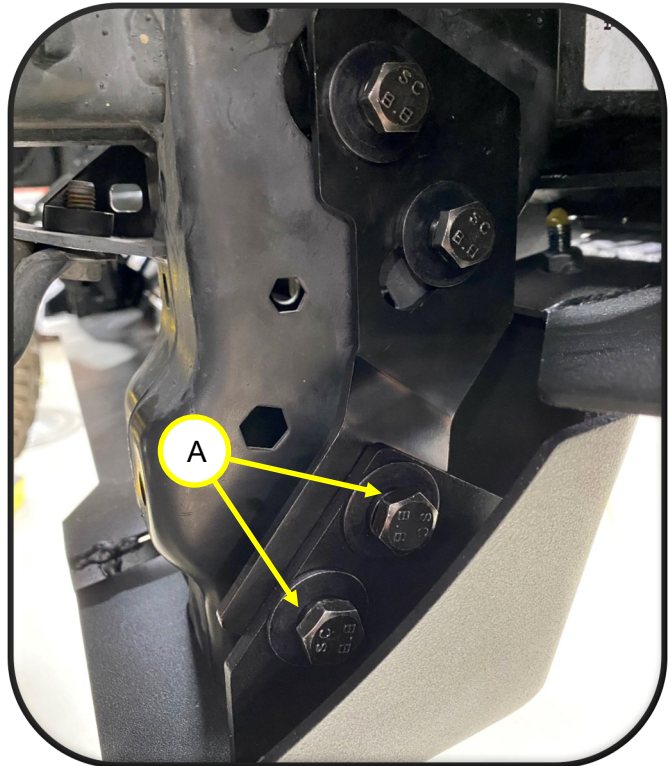
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## Installation Instructions: Bumper Install

**Step 22:** Starting on either side, install (2 qty) M10x1.25x20 bolt and washer (**Fig A.**) through the bottom flange of the **Skid Plate** into the **Skid Plate Mounting Bracket**

Repeat on opposite side.

Leave these bolts loose for now as you may need to adjust the bumper later.



**Step 23:** When all the hardware has been installed and you are satisfied with fitment, tighten the outer frame horn bolts and torque to **45ft-lbs.** Next, tighten and torque the **Skid Plate Mounting Bracket** hardware to **45ft-lbs.**

**Step 24:** Re-install the factory wiring harness into you new bumper, reconnect it to the main harness and route it under the **Winch Cradle**, away from any pinch points. Use cable ties to secure it in place.

Re-connect the battery and check function.

Double check all your hardware and connections, your install in complete.

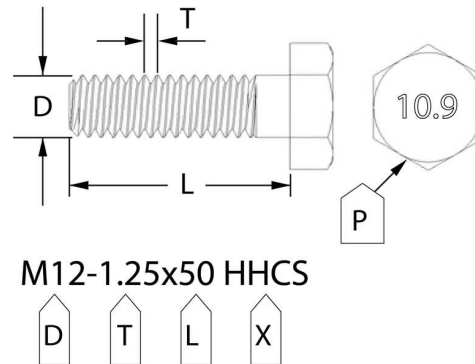
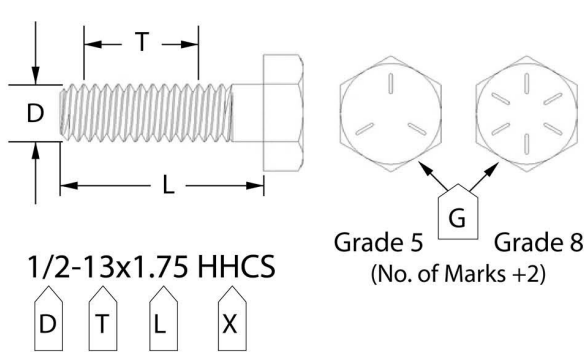


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# Bolt Torque Specifications

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

<b>Bolt Torque and ID</b>						
Decimal System			Metric System			
<i>All Torques in Ft. Lbs. Maximums</i>						
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



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)



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## Notes and Disclaimers

### 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.

### 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.



**WARNING: Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



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