

# Installation Instructions



**XRC Gen 3 Rear Bumper  
2018+ Jeep Wrangler JL®  
S/B77868**



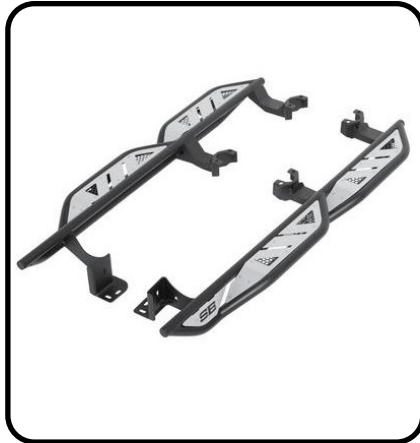
For Technical Support / Warranty Information please call 1-800-776-0767  
Smittybilt, 1017 W 600 N, Suite 4, Ogden, UT 84404

## Introduction

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



XRC Gen 3 Front Bumper



Apollo Sliders w/ Step



Waypoint™ 55L Fridge

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## Important Notes Before Starting



### IMPORTANT NOTE

Carefully read through this entire instruction manual thoroughly before attempting to install this part. Photos may vary from your vehicle. Installation will remain the same.



### 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.



### IMPORTANT NOTE

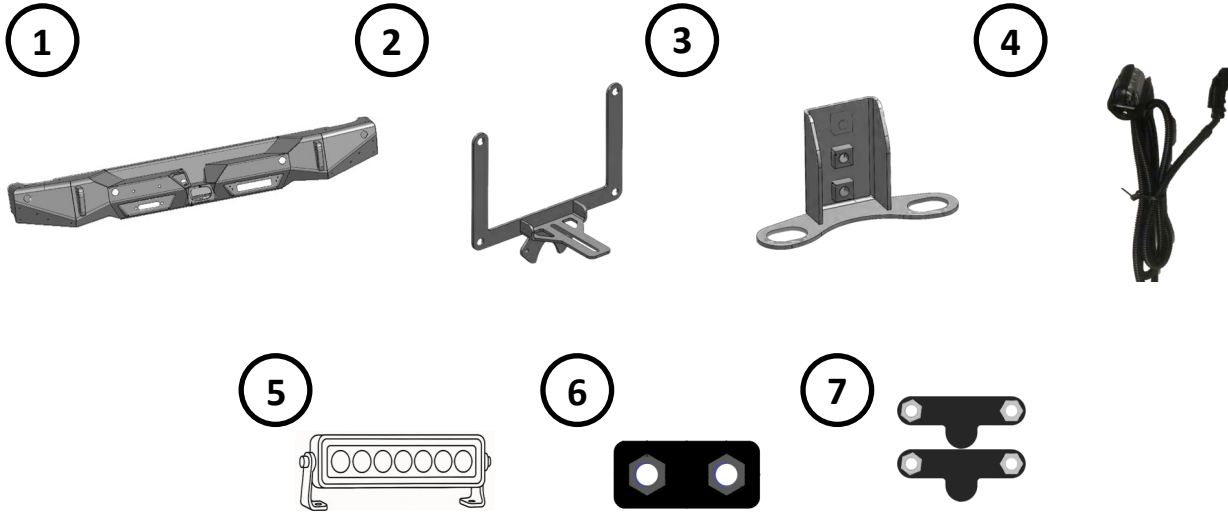
This bumper fits a factory spare on the stock mount. Holds up to a 35" tire with the Smittybilt Relocation Bracket (**SB7721**), or up to a 40" tire using the Smittybilt Tire Carrier (**SB77857**).



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# Box Contents & Technical Information

## 77868 Box Components



ID	Part Description	QTY
1	XRC Gen 3 Rear Bumper	1
2	License Plate Bracket (A)	1
3	License Plate Bracket (B)	1
4	License Plate Light	1
5	6" Light Bar	1
6	M14-1.5 Double Nutplate	1
7	M12-1.75 Nut Plate	2
	Mounting Bracket	2
	M14 Lug Nut	2
	M14-1.5x40mm Hex Head Bolt	2
	M14-1.5x25mm Hex Head Bolt	2
	M14 Lock Washer	2
	M14 Flat Washer	4
	M12-1.75x110mm Hex Bolt	4
	M12 Lock Washer	4
	M12 Flat Washer	4

ID	Part Description	QTY
	M10-1.5x45mm Hex Bolt	2
	M10 Lock Washer	2
	M10 Flat Washer	2
	M8-1.25x32mm Hex Bolt	2
	M8-1.25x25mm Hex Bolt	2
	M8 Lock Washer	4
	M8 Flat Washer	4
	M6-1.0x16mm Hex Bolt	2
	M6-1.0x16mm Button Head	2
	M6-1.0x12mm Button Head	4
	M6-1.0 Nylock Nut	4
	M6 Flat Washer	12
	Winch Mounting Shim	4
	Sensor Plug	4
	Winch Backing Plate	1
	Backing Plate Hardware	1

\*Components not actual size.

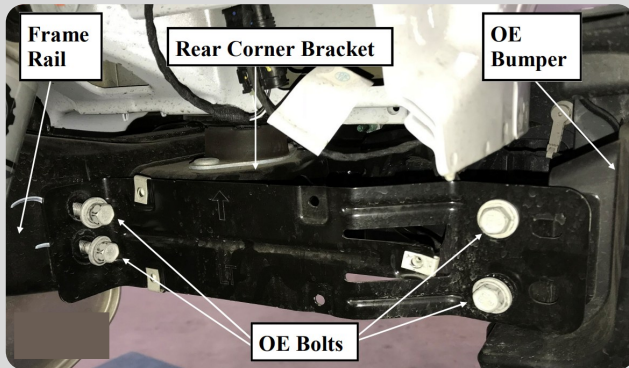


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# Installation Instructions: XRC Gen 3 Rear Bumper

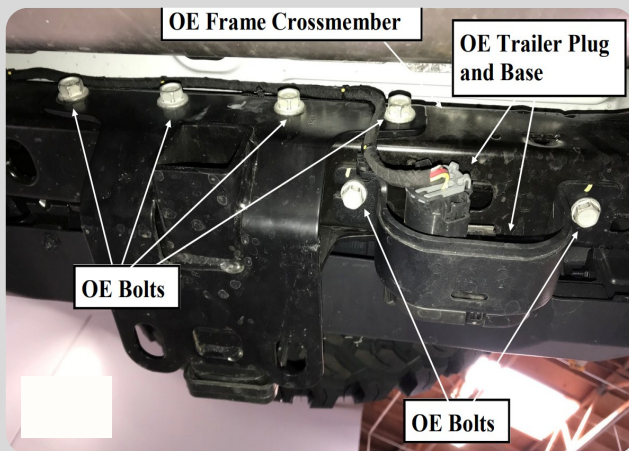
## ! IMPORTANT NOTE

If your Jeep has plastic bumpers with sensors, you will need to purchase these part number from your local Jeep dealer: **6MH85RXFAB (1) 68295603AB (1) 6MH83RXFAB (1) 68295601AB (1) 6MH82RXFAB (1) 68295600AB (1) 6MH84RXFAB (1) 68295602AB (1) 68289851AA (4)**



### Step 1:

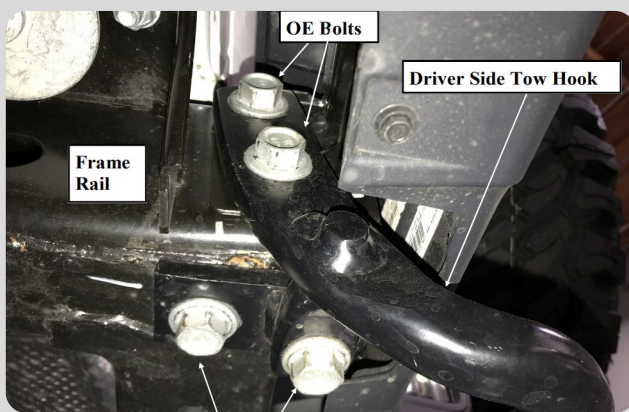
Park your JL® on a flat surface, set the parking brake and chock all 4 wheels. Then remove the (4 per side) OE Bolts securing the OE Corner Brackets to the frame rails.



### Step 2:

Using an 18mm wrench, remove the 4 OE Bolts securing the OE Rear Bumper to the frame crossmember.

**If equipped:** Unplug the harness from the trailer plug and unbolt the bracket from the crossmember. Save the bracket for reinstallation later.



### Step 3:

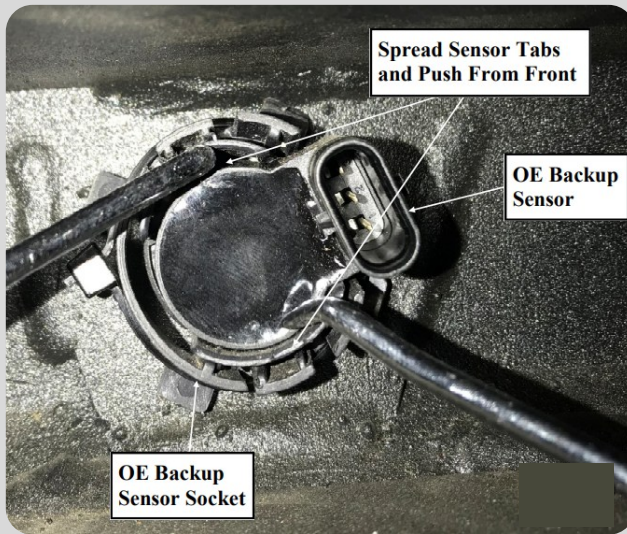
Use caution before performing this step, the bumper will be removed in this step. Assistance may be required. On the driver side, remove the 4 OE Bolts securing the tow hook to the frame rail. On the passenger side, remove the 2 OE Bolts securing the rear bumper to the frame bumper. Save this hardware.

**If equipped with backup sensors,** disconnect the entire harness, located under the driver side rear quarter panel.



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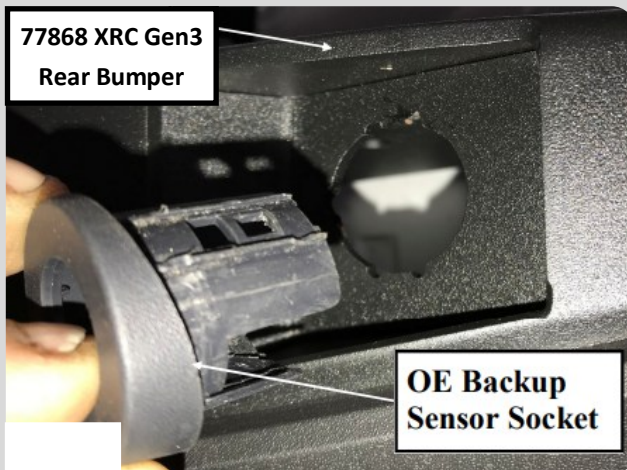


### Step 4:

Unplug the **OE Sensor Harness** from the **OE Backup Sensors**. Remove the **OE Sensors** by spreading the back of the socket clips while pushing the sensor from the outside of the bumper.

**Note:** Be sure the **OE backup sensor O-Rings** are not lost during removal.

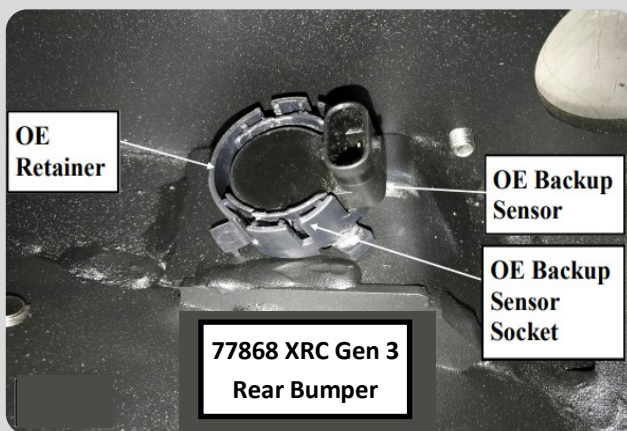
**Metal Rubicon Bumper Only:** Disengage the locking tabs securing the outer retaining ring to the socket. Carefully push the sensor sockets inward from the outside. **Be sure to note the orientation of the sensor retainers prior to removal for reinstallation.**



### Step 5:

Install the **OE Backup Sensor Sockets** into the mounting holes in your new **XRC Gen 3 Rear Bumper** according to their original orientation in the **OE Bumper**.

**Note:** For vehicles without backup sensors, install **Sensor Plugs** into the **XRC Gen3 Rear Bumper** instead.



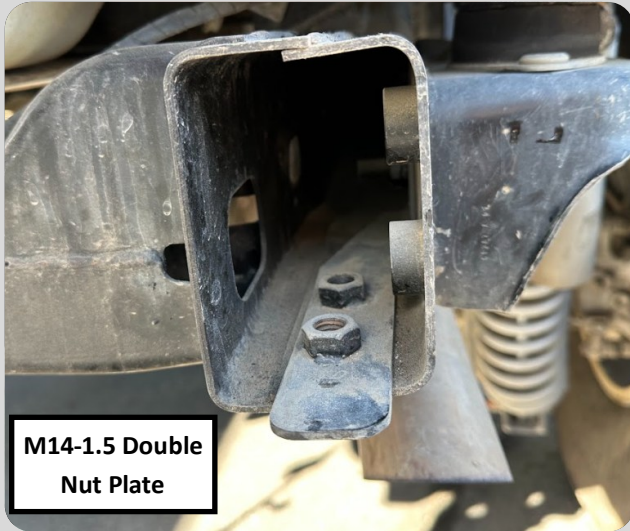
### Step 6:

Install the previously removed **OE backup sensors** into the **OE Backup Sensor Sockets**, using the **OE Retainers**, according to their original orientation as pulled from the **OE Bumper**.



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## Installation Instructions: XRC Gen 3 Rear Bumper



### Step 7:

If there is no factory nut plate installed. Install the **M14-1.5 Double Nut Plate** into the bottom of the passenger side frame rail.



### Step 8:

If you're installing a rear winch, do so at this time following the instructions provided with the winch. Depending on the winch, you may need the included **Winch Spacers** to keep it flush with the bumper. Mount the fairlead using the lower two winch bolts. Longer **M8 Bolts** are included with the bumper and should assist with most winch manufacturers. Make sure the clutch lever is positioned near the access panel. Make sure to connect the winch wires to the motor terminals before fully mounting the winch. Use the wire boots included with the winch.



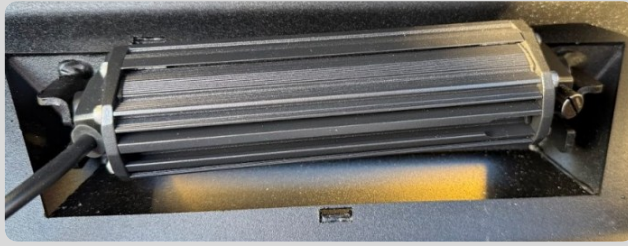
### Step 9:

Locate and install the included **Winch Backing Plate** using the included **M6 Backing Plate Hardware**.



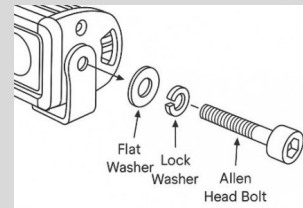
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## Installation Instructions: XRC Gen 3 Rear Bumper



### Step 10:

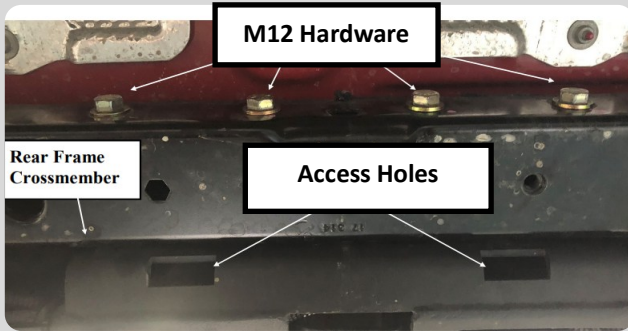
Locate and install the included 6" LED Light Bar using the included M6 Hardware.



### Step 11:

With the assistance of another person carefully lift the XRC Gen 3 Rear Bumper onto the rear of your JL®. Line up the bumper mounts with the outside of the rear frame rails. Loosely secure the bumper to the frame reusing the OE hardware on the driver's side. Loosely secure the bumper to the passenger side using the included (2) M14-1.5x25mm Bolts and Flat Washers for the side and the (2) M14-1.5x40mm Bolts, M14 Lock Washers, and M14 Flat Washers for the bottom.

**Note:** Use the included thread locker on the OE and passenger side bolts.



### Step 12:

Secure the XRC Gen 3 Rear Bumper to the rear frame crossmember using the (4) supplied M12-1.75x110mm Bolts, (4) M12 Flat Washers, and (2) M12-1.75 Nut Plates.



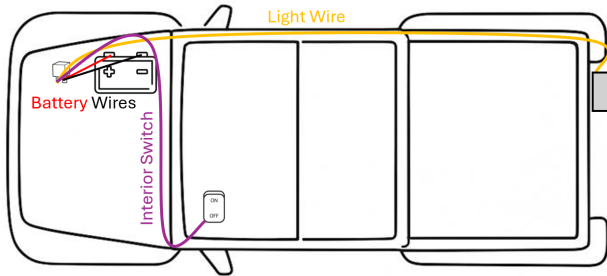
### Step 13:

Connect the OE harness to the parking sensors. Secure the harness using zip ties as needed.



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## Installation Instructions: XRC Gen 3 Rear Bumper



### Step 14:

Wire the winch to power following the instructions included with the winch. A 24' winch harness with Anderson connectors is recommended.

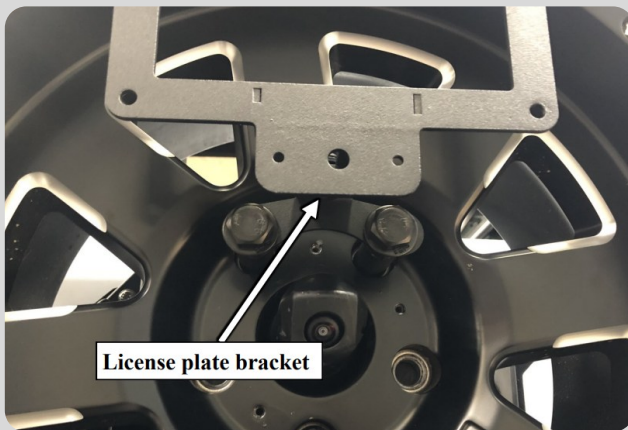
Wire the light using the included harness

**Professional wiring by an automotive electrician is recommended.**



### Step 15:

Adjust the rear bumper until you're happy with the fitment, then torque down all installed hardware using the guide on **Page 11**.



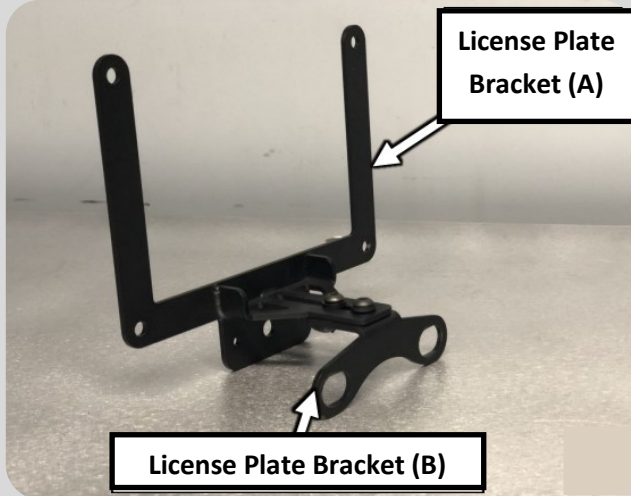
### Step 16:

Remove the top (2) OE Lug Nuts from the spare tire. Install the included (2) M14 Lug Nuts and torque to spec.



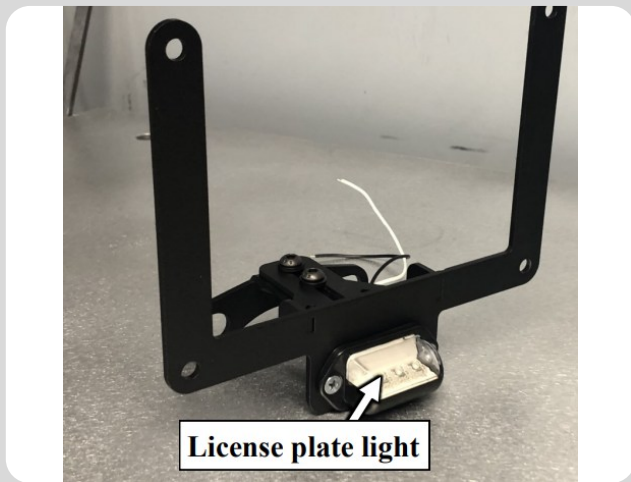
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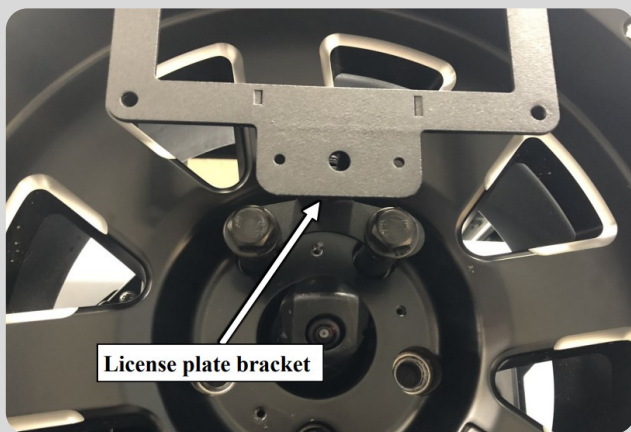
### Step 17:

Install **License Plate Bracket (A)** to **License Plate Bracket (B)** using the (2) included **M6-1.0x12mm Bolts** and **M6 Flat Washers**, leave loose at this time.



### Step 18:

Install the **License Plate Light** to **License Plate Bracket (A)** using the included (2) **M4-0.7x14mm Bolts** and (2) **M4-0.7 Nylock Nuts**.



### Step 19:

Secure the **License Plate Bracket Assembly** using the included (2) **M14-1.5x20mm Bolts** and **M14 Flat Washers**.

Use the harness on the **License Plate Light** to connect the new license plate light to the OE harness. Neatly run this wire from the OE harness, up through the tailgate. Be cautious of pinch points.



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### Step 20:

Torque down any remaining hardware using the guide on **Page 11**.

**Installation is now 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

**1/2-13x1.75 HHCS**

D
T
L
X

**M12-1.25x50 HHCS**

D
T
L
X

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 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 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 was that contains abrasive that could damage the finish.

## SMITTYBILT ADVANTAGE WARRANTY

### LIMITED-LIFETIME WARRANTY FOR STRUCTURAL COMPONENTS

#### 5-YEAR FINISH WARRANTY

Smittybilt Automotive Products, LLC (SAP) warrants to the original purchaser that (a) the physical components (e.g., metal components, welds, etc.) of any SAP **XRC Gen 3 Rear Bumper** will be free of defects in material and workmanship for the lifetime of the product from the date of purchase of the bumper, and (b) the finish will be free of defects in material and workmanship for a period of 5-years from the original date of purchase. This warranty applies only to the original purchaser of the bumper and is non-transferable. To obtain any warranty service, you must provide SAP with a proof of purchase and date of purchase that is acceptable to SAP, such as a copy of your purchase receipt.

This warranty does not cover labor of part replacement of the bumper. SAP will, at its sole discretion, provide replacement part (s) for a defective bumper or component, provided this is done within the warranty period. To request assistance under warranty, one must call or email using the phone number or email at the bottom of this page. This warranty does not apply (1) wearable components; or (2) if the bumper has been damaged, including, but not limited to: abuse, misuse, collision, modification, misapplication, improper installation, or improper service. This warranty is void if any SAP serial number has been removed or defaced; or if the bumper is used for any commercial, industrial, or rental applications. This warranty only applies to bumpers bought, sold, and used within the Untied States or Canada unless otherwise specifically agreed in writing by SAP.

THE WARRANTY SET FOURTH ABOVE IS THE ONLY WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTY WHICH BY LAW MAY NOT BE EXCLUDED IS LIMITED TO A DURATION OF ONE (1) YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE OF THE PRODUCT. No SAP dealer, agent, or employee is authorized to make any modification, extension or addition to this warranty. SAP SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, DOWN TIME OR LOSS OF USE) UNDER ANY LEGAL THEORY, EVEN IF SAP WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states do not allow the exclusion of implied warranties or the exclusion or limitation of liability for incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights. You may also have other rights that vary from state to state. SAP reserves the right to change product design without notice. In situations in which SAP has changed a product design, SAP shall have no obligation to upgrade or otherwise modify previously manufactured products. For warranty inquires contact SAP at:

Smittybilt Automotive Products, LLC

Customer Service Department

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**WARNING: Cancer and Reproductive Harm**  
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