

Installation Instructions



Apollo Rear Bumper 2021+ Ford Bronco® S/B78784



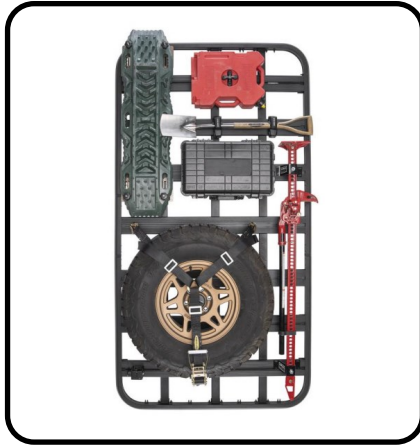
For Technical Support / Warranty Information please call 1-800-776-0767
Smittybilt, 1017 W 600 N, Suite 4, Ogden, UT 84404

Introduction

Thank you for choosing Smittybilt accessories for your Ford Bronco®. If you would like to view our full range of available accessories, please visit us at www.smittybilt.com



Bronco® 2" Receiver Hitch



Bronco® Defender Platform Rack



Waypoint® 55L Dual Zone 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.

! IMPORTANT NOTE

The silver plates are customizable and can be painted to match your vehicle as they are shown in this guide.

! WARNING

Serious injury can occur when working on vehicles alone.

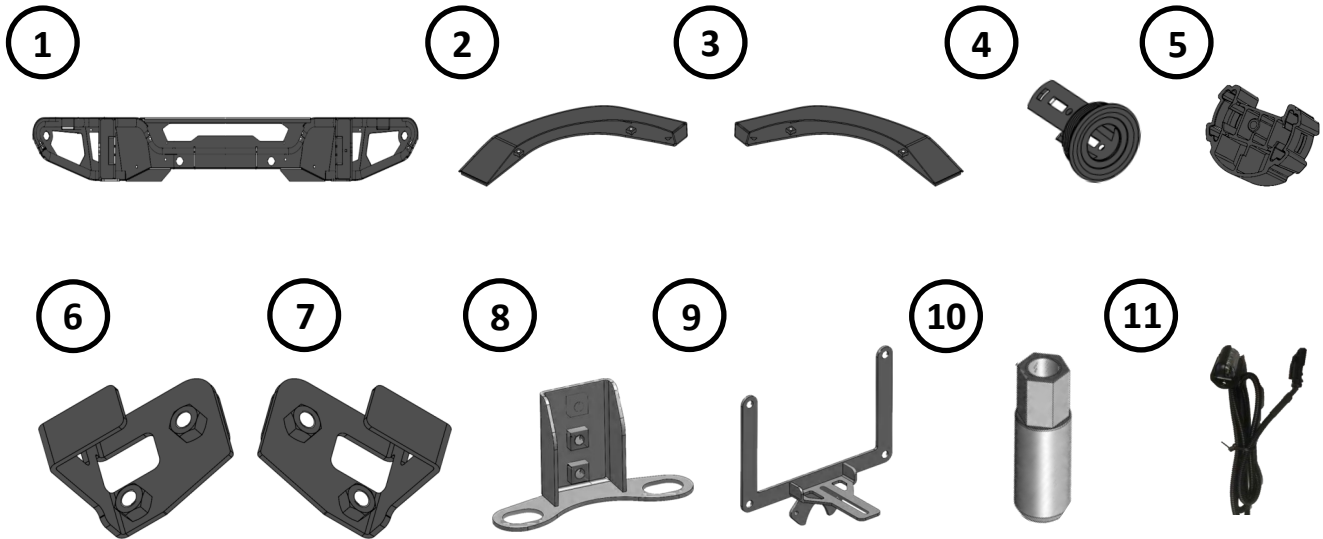
When possible, work with another person to reduce risk of injury from strain or other dangers that can occur when working alone.



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Box Contents & Technical Information

78784 Box Components



ID	Part Description	QTY
1	Bronco® Apollo Rear Bumper	1
2	Driver Side Wing Fill Plate	1
3	Passenger Side Wing Fill Plate	1
4	Sensor Mount	4
5	Sensor Retainer	4
6	Driver Side Frame Bracket	1
7	Passenger Side Frame Bracket	1
8	License Plate Bracket (A)	4
9	License Plate Bracket (B)	1
10	M12-1.5 Lug Nut	2
11	LED License Plate Light w/ Extension	1
	Sensor Plugs	4
	Sensor Extension Harness	1
	Half-Circle Sensor Foam	4

ID	Part Description	QTY
	Plastic Clip-on Nut	2
	ST4x15mm Phillips Screw	2
	M12-1.5x30mm Hex Bolt	2
	M12-1.75x45mm Hex Bolt	4
	M12 Large O.D. Washer	4
	M12 Flat Washer	2
	M12 Split Lock Washer	6
	M10-1.5x35mm Hex Bolt	4
	M10 Large O.D. Flat Washer	4
	M10 Split Lock Washer	4
	M6-1.0x20mm Button Head Bolt	4
	M6-1.0 Nylock Nut	4
	M6-1.0x20mm Combo Bolt	4

*Hardware not actual size.



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Installation Instructions: Bronco® Apollo Rear Bumper



Step 1:

Park your Bronco® on a flat surface and chock all 4 wheels. Remove the factory rear bumper. Be sure to unclip all the sensor wires and license plate light wire. Do not remove the sensors yet. If your Bronco® came with a hitch, it does not need to be removed. Retain all the factory hardware.



Step 2:

Carefully release the sensors from the factory retaining brackets. Be sure to note the position and orientation of each sensor.

Note: For vehicles without parking sensors remove the pre-installed (4) Sensor Mounts from the Apollo bumper and install the included sensor plugs. Then skip to Step 5.



Step 3:

Prep each sensor retainer by installing all (4) **Half-Circle Sensor Foam** onto all (4) **Sensor Retainers**.



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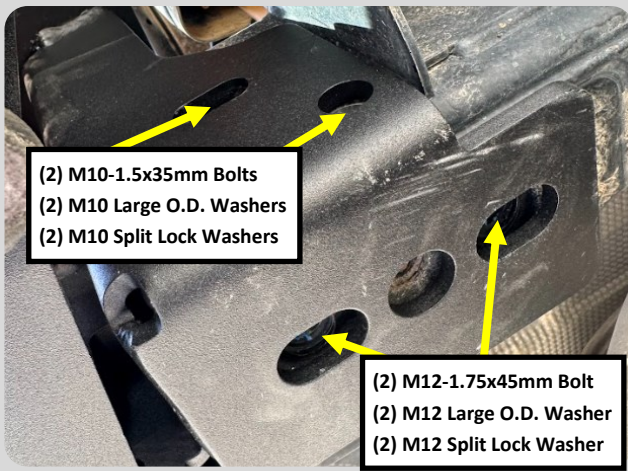
Step 4:

Install all 4 OE parking sensors into the pre-installed (4) **Sensor Mounts** in the Apollo bumper. Be sure the position and orientation is the same as it was in the factory bumper. Install all (4) **Sensor Retainers** by pressing them into place until you hear a click.



Step 5:

Install the **Driver Side Frame Bracket** by sliding it into the frame rail on the driver's side being sure the two welded nuts line up with the two holes on the outside of the frame rail. Then, do the same on the passenger side for the **Passenger Side Frame Bracket**.



Step 6:

With the assistance of another person carefully raise the **Bronco® Apollo Rear Bumper** up and align with the holes in the frame rail. Loosely install the hardware specified in the photo on both the driver and passenger side. Do not tighten this hardware yet.



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Step 7:

Install the **Driver Side Wing Fill Plate** and secure it from the underside of the bumper using the included **(2) M6-1.0x20mm Button Head Bolts**. Then, do the same on the passenger side using the **Passenger Side Wing Fill Plate**.



Step 8:

Adjust the bumper until happy with the fitment, then tighten all the hardware using the torque guide found on **Page 10** of this manual.

Reconnect the sensor wires to their respective sensor. If needed a **Sensor Extension Harness** is included in the Apollo bumper kit.



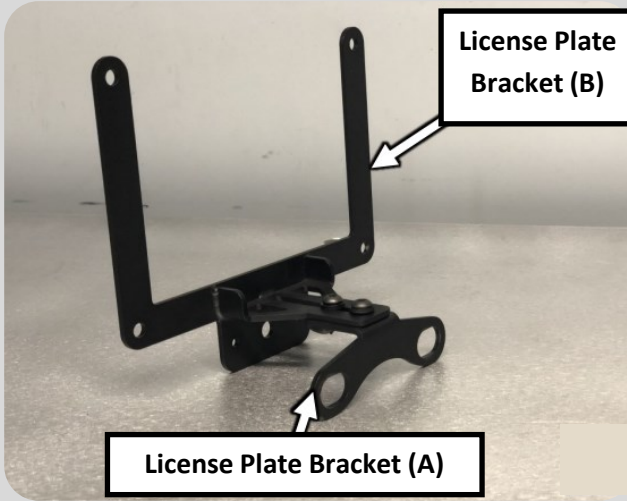
Step 9:

With the assistance of a second person have them hold the tire in place and remove the top two lug nuts from the factory spare tire carrier. Then install the **(2) M12-1.5 Lug Nuts**.



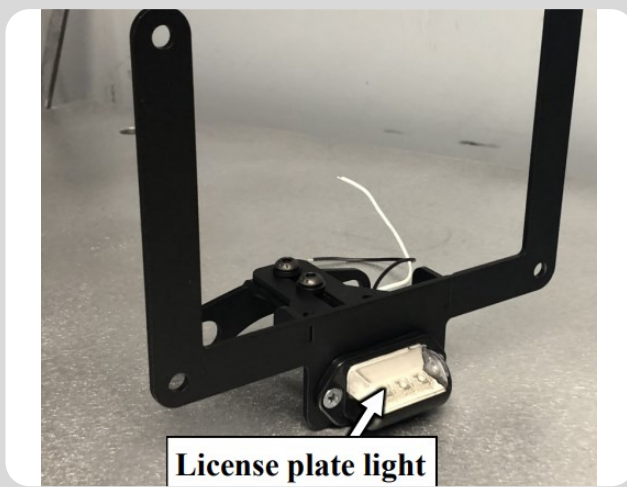
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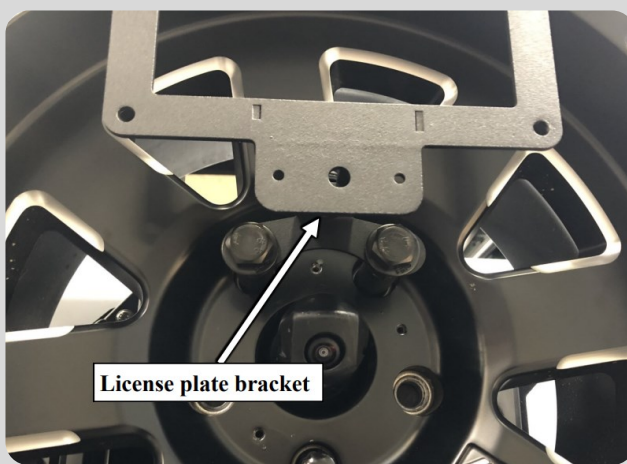
Step 10:

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



Step 11:

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 12:

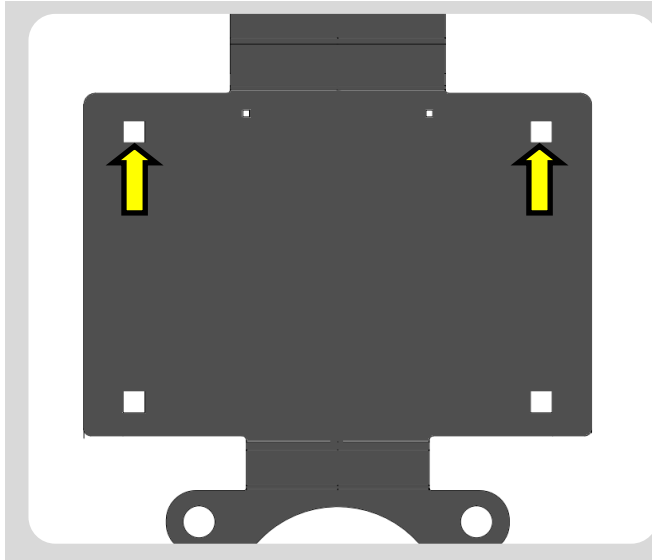
Secure the **License Plate Bracket Assembly** using the included (2) **M12-1.5x30mm Bolts**, (2) **M12 Split Lock Washers** and **M12 Flat Washers**.

Use the included **License Plate Light Extension** to connect the new license plate light to the OE harness. Neatly run this wire from the OE harness, up from the original location and into the swing gate. Use zip ties to hold the cable where needed.



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Step 13:

Install the included (2) **Plastic Clip-on Nuts** onto the **License Plate Bracket**



Step 14:

Using the included (2) **ST4x15mm Phillips Bolts** install your license plate on the bracket.



Step 15:

If you're planning on installing 2x2 pod lights in the Apollo Bumper do so now using the instructions included with the lights.



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Step 16:

**Be sure to tighten any loose hardware.
Installation is now complete.**

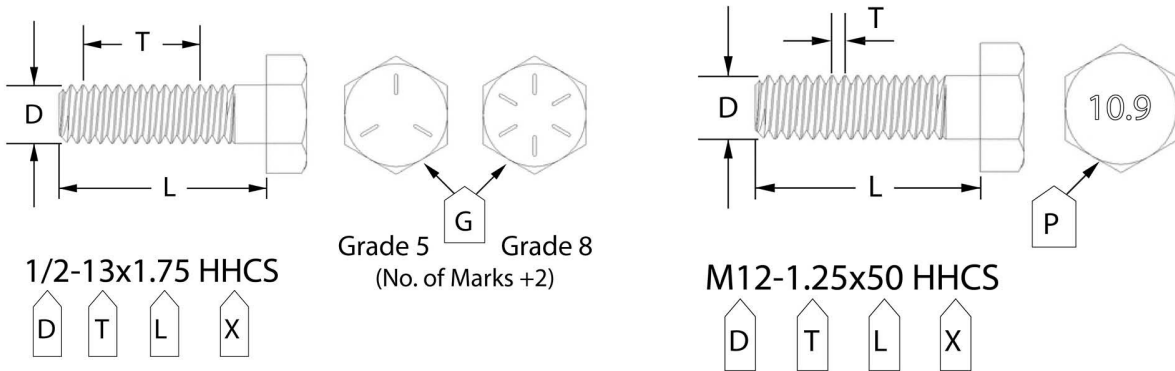


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Bolt Torque Specifications

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

Bolt Torque and ID						
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



<p>G= Grade (Bolt Strength)</p> <p>D= Nominal Diameter (Inches)</p> <p>T= Thread Count (Threads per Inch)</p> <p>L= Length (Inches)</p> <p>X= Description (Hex Head Cap Screw)</p>	<p>P= Property Class (Bolt Strength)</p> <p>D= Nominal Diameter (Millimeters)</p> <p>T= Thread Pitch (Thread Width, mm)</p> <p>L= Length (Millimeters)</p> <p>X= Description (Hex Head Cap Screw)</p>
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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.

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 **Bronco® Apollo 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 or 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) wearables 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 United States or Canada unless otherwise specifically agreed in writing by SAP.

THE WARRANTY SET FORTH ABOVE IS THE ONLY WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY 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, DOWNTIME 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 inquiries contact SAP at:

Smittybilt Automotive Products, LLC

Customer Service Department

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WARNING: Cancer and Reproductive Harm
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