



# INSTALLATION INSTRUCTIONS

## Elite Front Bumper

Part Number: 107856 and 107870

Application: Ford Bronco 2020

### GENERAL SAFETY PRECAUTIONS

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

**CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.**

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. WARNING and CAUTION are signal words that identify the level of hazard. These signal words mean:

**▲WARNING** signals a hazard that could cause serious injury or death, if you do not follow recommendations. **▲CAUTION** signals a hazard that may cause minor to moderate injury, if you do not follow recommendations.

This guide uses NOTICE to call attention to important mechanical information, and Note: to emphasize general information worthy of special attention.

### ▲ WARNING

#### IMPACT AND MOVING PARTS ENTANGLEMENT HAZARD

Failure to observe these instructions could lead to severe injury or death

- **Always** Know Your Winch. Take time to fully read the Instructions and/or Operations Guide, and/or Basic Guide to Winching Techniques, in order to understand your winch and its operations.
- **Never** work under vehicle before properly securing vehicle.
- **Always** use appropriate and adequate care in lifting components into place.
- **Never** work under vehicle before properly securing vehicle.
- **Always** use appropriate and adequate care in lifting components into place.
- **Never** use a jack to support the vehicle.
- **Always** use jack stands in pairs to support the vehicle.
- **Always** use jacks or jack stands only on a hard, stable, and level surface.
- **Never** exceed the rated capacity of a jack or jack stands.
- **Always** verify that the parking brake is set, the transmission is in park (automatic) or reverse (manual) and the rear wheels are blocked before working on vehicle.
- **Never** work under vehicle before properly securing vehicle.
- **Always** use appropriate and adequate care in lifting components into place.
- **Always** insure components will remain secure during installation and operation.
- **Always** tighten all nuts and bolts securely, per the installation and operation.
- **Always** perform regular inspections and maintenance on the winch, winch mount and related hardware.
- **Always** replace all worn or damaged parts before operating.
- **Never** operate this WARN product with damaged or missing parts.
- **Always** use extreme caution when drilling on any vehicle. Make sure that all fuel lines, brake lines, electrical wires, and other objects are not punctured or damaged when / if drilling on the vehicle. Thoroughly inspect the area to be drilled (on both sides of material) prior to drilling, and relocate any objects that may be damaged. Failure to inspect the area to be drilled may result in vehicle damage, electrical shock, fire or personal injury.
- **Always** use extreme caution when cutting and trimming during fitting.
- **Always** wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause eye injury.
- **Always** remove jewelry and wear eye protection.
- **Never** lean over battery while making connections.
- **Never** route electrical cables across any sharp edge, through or near moving parts, near parts that become hot.

**Read installation and operating instructions thoroughly.**

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## **⚠ CAUTION**

### **MOVING PARTS ENTANGLEMENT HAZARD**

**Failure to observe these instructions could lead to minor or moderate injury**

- Part edges may be sharp!
- **Always** use proper posture / lifting technique or get lifting assistance while handling and installing product.

**Read installation and operating instructions thoroughly.**

## **NOTICE**

### **EQUIPMENT DAMAGE**

- Never tow vehicle by attaching a tow bar to the eyelets on the bumper.
- Do not attach tow bars directly to the bumper. Damage to bumper may occur. WARN bumpers are not designed to be used for flat towing. Consult with the manufacturer of your tow bar system for the proper vehicle tow bar brackets.

**Read installation and operating instructions thoroughly.**

## **BEFORE YOU BEGIN**

## **NOTICE**



**This product is not compatible with factory driver assist systems such as adaptive cruise control and parking assist systems that have sensors or cameras installed in the bumpers or front grill area. If your vehicle is equipped with any of these systems or features, consult your vehicle owner's manual before installing this product. These systems may need to be disabled as a result of installing this product.**

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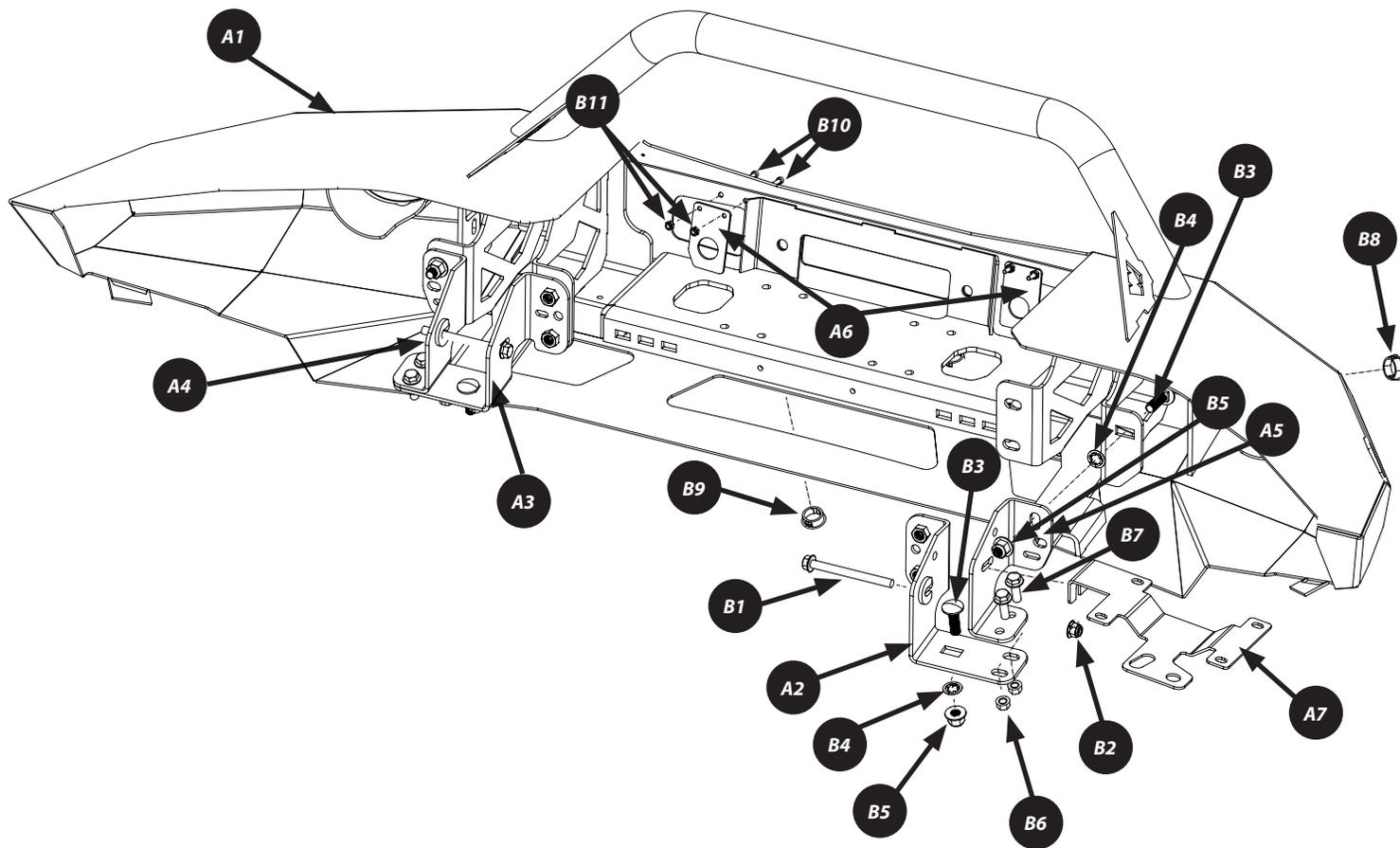
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## **TOOLS REQUIRED**

- Standard Wrench and Socket Set
- Metric Wrench and Socket Set
- Cutting tool

## PARTS LIST

Item	PN	Description	Qty.	Item	PN	Description	Qty.
A1	107836 or 107877	FRONT BUMPER	1	B1	107308	M10-1.5 FLANGE BOLT	2
A2	107850	RH INNER NOD BRACKET	1	B2	91162	M10x1.5 LOCK NUT	2
A3	107847	LH INNER NOD BRACKET	1	B3	107751	M12-1.75 CARRIAGE BOLT	4
A4	108125	LH OUTER NOD OUT BRACKET	1	B4	101259	1/2" PUSHNUT BOLT RETAINER	4
A5	108126	RH OUTER NOD OUT BRACKET	1	B5	91614	M12-1.75 FLANGE NUT	4
A6	108231	SENSOR BRACKET	2	B6	92506	M10-1.25 FLANGE LOCKNUT	4
A7	108276	RELOCATION BRACKET	1	B7	79147	M10-1.25X30MM FLANGE BOLT	4
				B8	102248	1-3/32 PLASTIC PLUG	2
				B9	90846	LOCKING PLASTIC PLUG	2
				B10	91541	10-24X1 STAINLESS SCREW	4
				B11	63241	#10-24 LOCKNUT	4



## TORQUE SPECIFICATIONS

Please use the recommended torque specifications when assembling this product unless otherwise specified in the instructions.

FASTENER SIZE		FASTENER TORQUE		FASTENER SIZE		FASTENER TORQUE	
	lb-ft	(N.m)					
			M4	(2)	3		
1/4"	8	(11)	M5	(4.5)	6		
5/16"	17	(23)	M6	(7.5)	10		
3/8"	30	(40)	M8	(18)	25		
7/16"	48	(66)	M10	(37)	50		
1/2"	74	(100)					
9/16"	106	(144)					
5/8"	148	(200)					
3/4"	269	(364)					

# INSTALLATION INSTRUCTIONS

1. Unplug any wiring harnesses connecting the bumper to vehicle.
2. Remove the sensors from the carriages (if equipped).

**NOTE: Be sure to mark the location (LH/RH, Inner/Outer) and orientation (Top/Bottom) of each sensor.**

*TIP: Numbering each sensor with tape and marking with a paint pen works well.*

3. Remove the sensor carriages from bumper.

**NOTE: Be sure to mark the location (LH/RH, Inner/Outer) and orientation (Top/Bottom) of each sensor carriage.**

**⚠ WARNING** Always use assistance when moving or lifting heavy parts.

4. Remove the stock front bumper from the vehicle. Retain four of the M12 mounting bolts and plastic nuts that held the stock nut plates to the frame pad.
5. If equipped with a steel skid plate, remove now. Retain hardware for reinstall.
6. Install one carriage bolt (B3) through the rectangle slot of the left (A3) and right (A2) inner nod brackets.
7. Center the carriage bolt in the slot as much as possible and install one retaining pushnut (B4) to secure bolt in place. *TIP: A large socket may be helpful in pressing the push nuts on.*

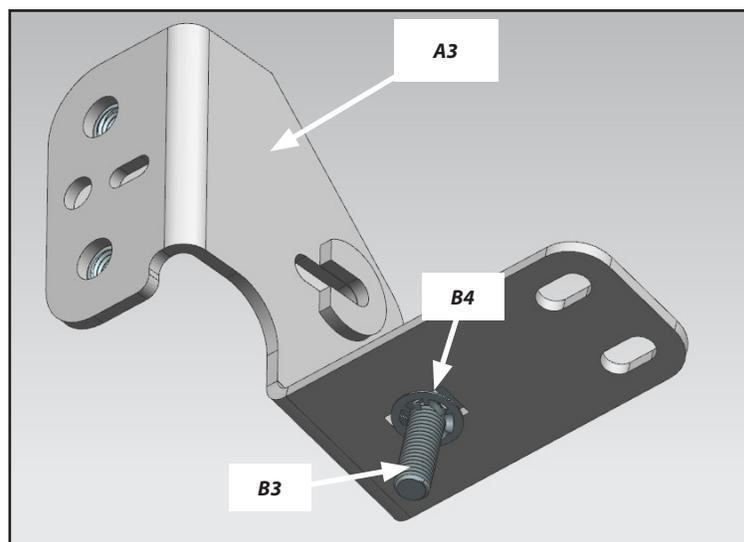


Figure 1

8. Install one carriage bolt (B3) through the rectangle slot of each outer side of the bumper mounting brackets.
9. Center the carriage bolt in the slot as much as possible and install one retaining pushnut (B4) to secure bolt in place. *TIP: A large socket may be helpful in pressing the push nuts on.*

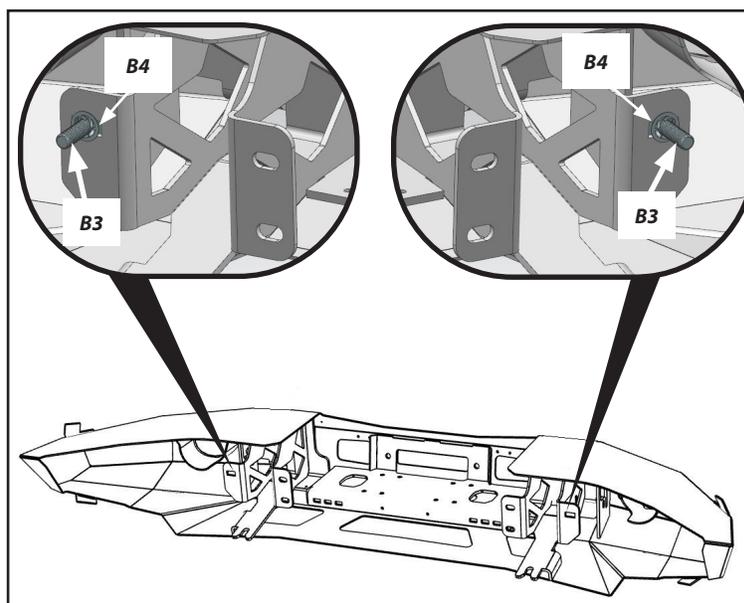


Figure 2

## INSTALLATION INSTRUCTIONS

- Place the inner and outer nod brackets in place on each side of the vehicle frame rail and up behind the bumper mounting pads.
- Install two stock plastic nuts over weld studs to keep brackets in place.

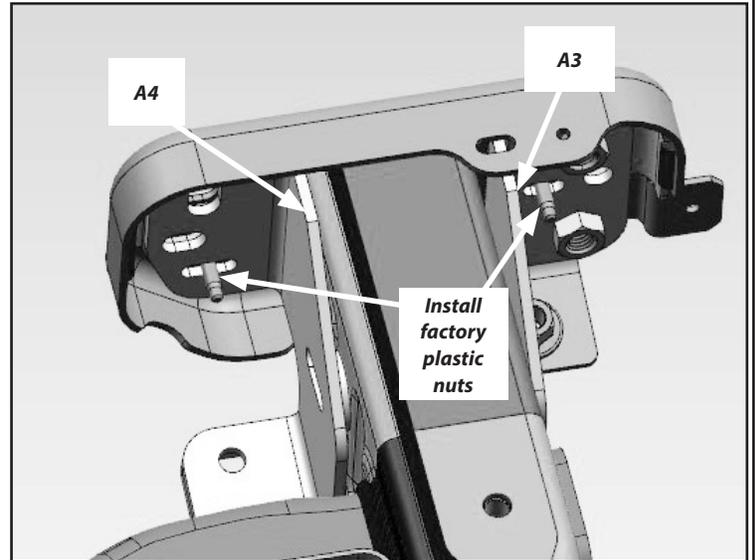


Figure 3

- Install the M10-1.5 bolt (B1) and nut (B2) in the upper frame mounting hole of outer nod bracket.
- Install two M10-1.25X30mm bolts (B7) through the outer and inner nod bracket. Torque to specifications on page 3.
- Repeat steps for other side.

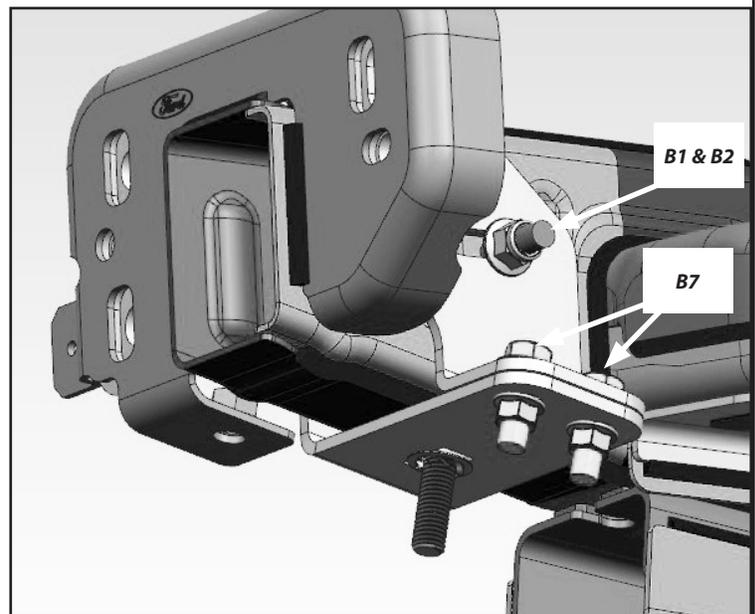


Figure 4

**⚠ WARNING** Always use assistance when moving or lifting heavy parts.

- With assistance, lift the new bumper in position, while guiding the carriage bolts into the top mounting holes of each frame bracket.

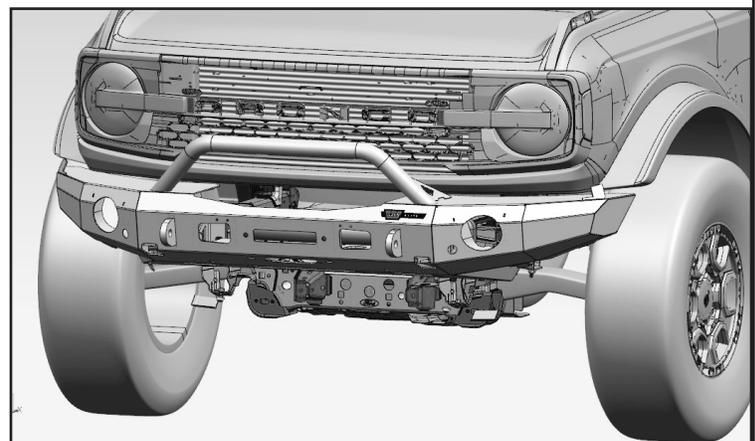


Figure 5

## INSTALLATION INSTRUCTIONS

16. Secure the bumper on the vehicle by installing one M12 flange nuts (B5) onto the bumper carriage bolt (each side). **NOTE: To allow for adjustment, do not fully tighten hardware at this time.**

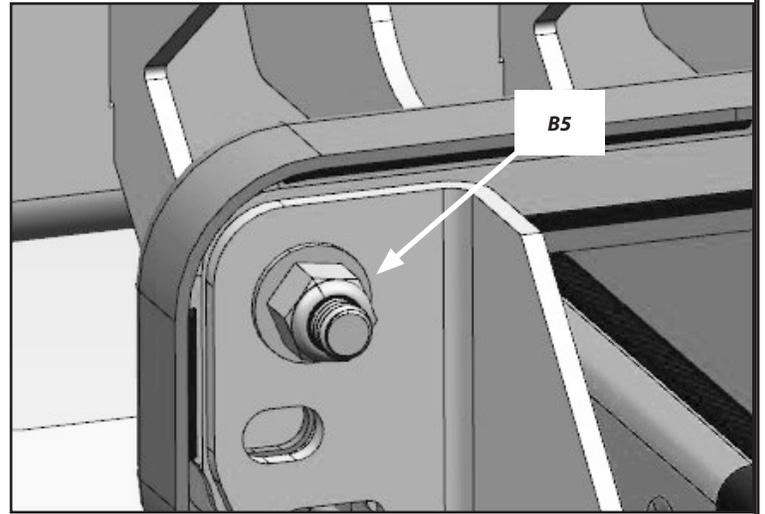


Figure 6

17. Install two of the M12 stock bumper bolts (removed in step 1) in the inside (center-most) bumper mounting holes. Do not fully tighten at this time.

**OPTIONAL:** To install the control pack relocation bracket (A7) you will use one of the nod bracket through bolts, as well as two stock bolts, retained from the stock under-ride bars.

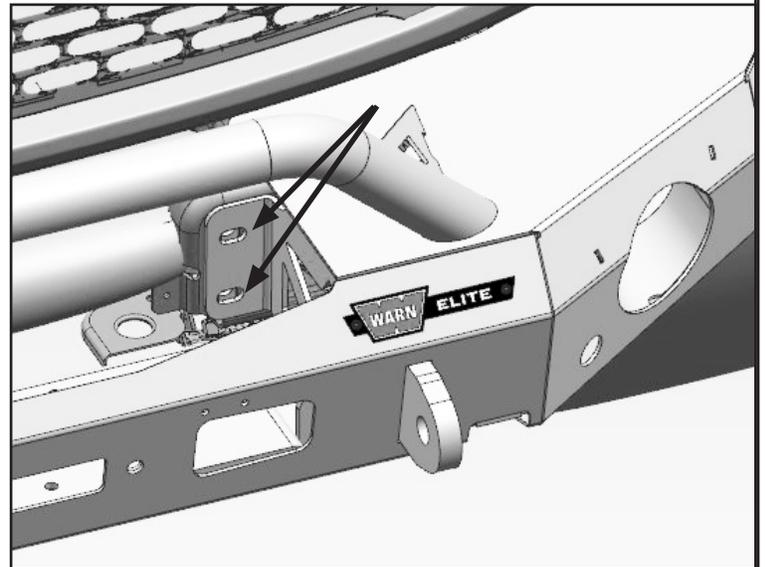
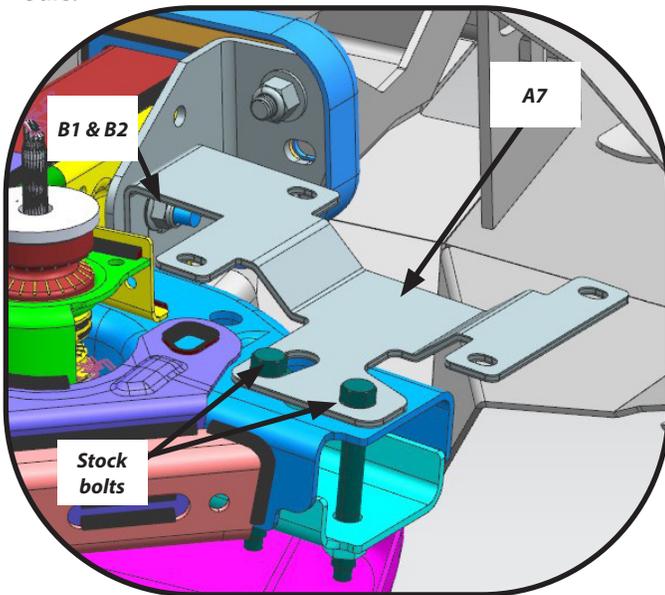


Figure 7



18. Install a M12 nut (B5) onto the inner nod bracket carriage bolt (each side).
19. Torque **ALL** bumper mounting hardware to specifications listed on page 3.

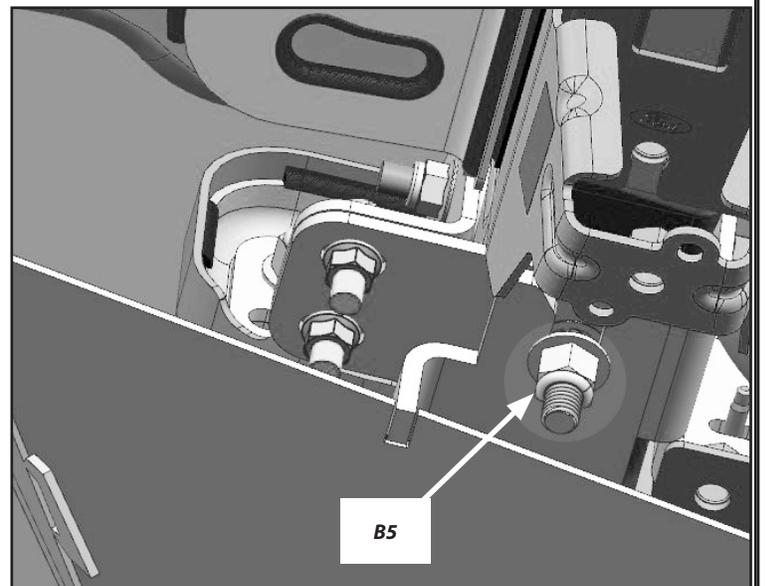


Figure 8

## INSTALLATION INSTRUCTIONS

20. If your Bronco is equipped with front parking sensors, install the two sensor brackets (A6) using two 10-24 screws (B10) and lock nuts (B11) as shown in Figure 9. Repeat for other side. **NOTE: If your Bronco is not equipped with parking sensors, exclude sensor brackets.**

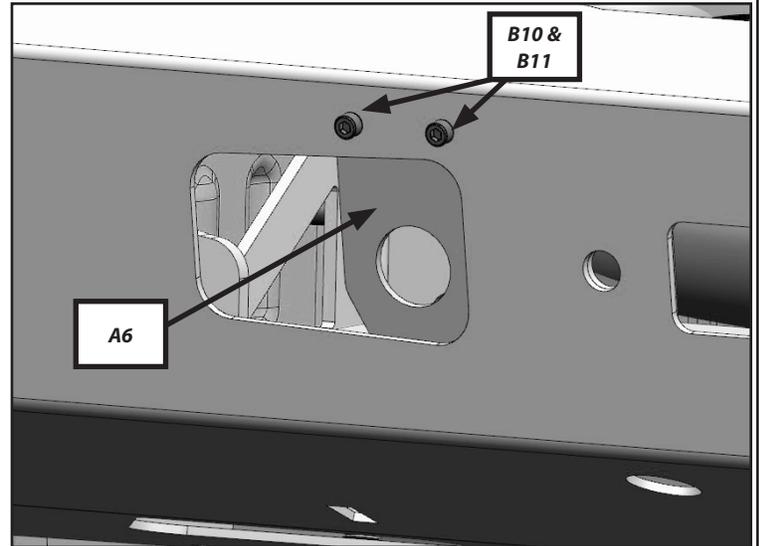


Figure 9

21. Install the sensor carriages (two in the outer/wing sensor holes and two into the sensor bracket holes). **NOTE: If vehicle is not equipped with sensors, insert supplied sensor plugs (B8) in the outer/wing sensor holes.**
22. Install sensors into the correct sensor carriage. **NOTE: Be sure sensors match the orientation of the stock bumper.**
23. If your Bronco does not have parking sensors, add hole plugs to the bumper wing sensor holes.
24. Plug in **ALL** wiring harnesses to their respective locations.

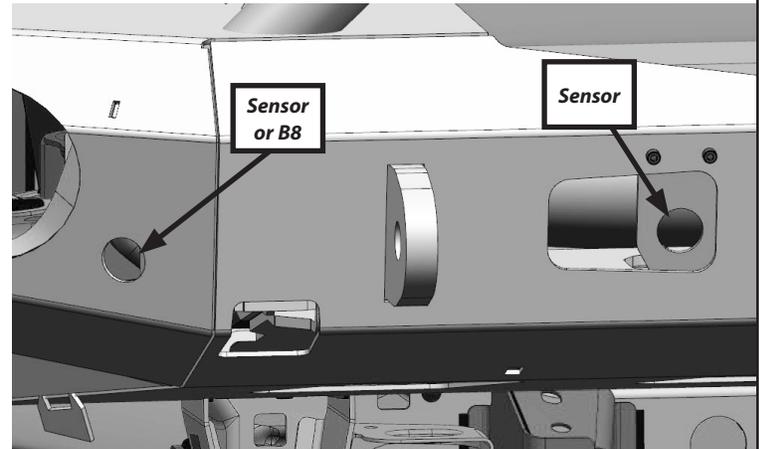


Figure 10

25. If equipped, reinstall skid plate. **NOTE: The skid plate will need to be cut in the specified location (shown in Figure 11) in order to not interfere with the bumper hardware.**
26. If a Warn winch is being installed, you may install now. Install and wire the winch per the installation instructions that came with the winch.
27. Tighten **ALL** hardware now, refer to torque specifications on page 3.

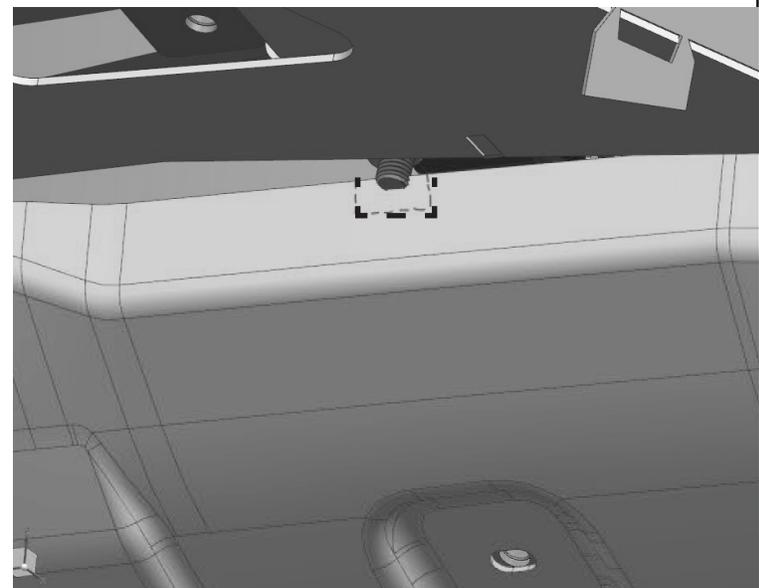


Figure 11

## INSTALLATION INSTRUCTIONS

28. Install the supplied hole plugs (B9) into the which bolt access holes.
29. Installation is complete.

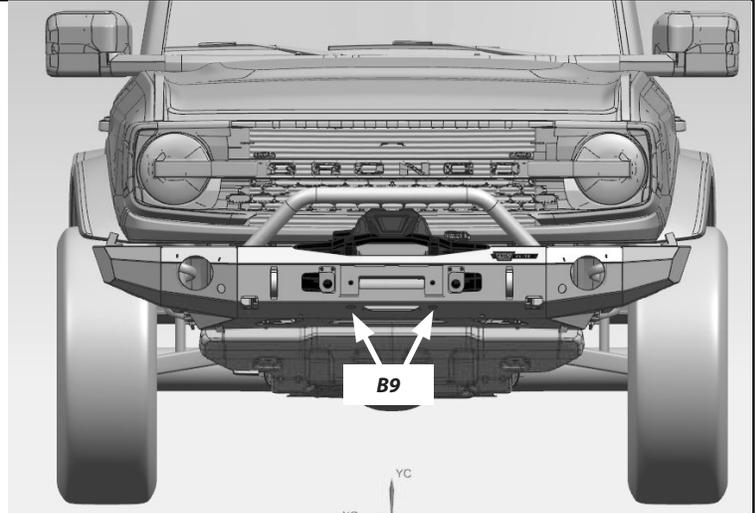


Figure 12

## MAINTENANCE / CARE

1. Inspect all parts on the winch, winch mount, and related hardware prior to each use. Replace all hardware that appears rusted or deformed.
2. Inspect all nuts and bolts on the winch, winch mount, and related hardware prior to each use. Tighten all nuts that appear to be loose. Stripped, fractured, or bent bolts or nuts need to be replaced.
3. Check all cables prior to use. Replace cables that look worn or frayed.
4. Check all moving or rotating parts. Remove debris that may inhibit the part from moving freely.