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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Clackamas, OR USA 97015-8903, 1-503-722-1200, FAX: 1-503-722-3000
Customer Service: 1-800-543-9276
Dealer Locater Service: 1-800-910-1122
International Fax: 1-503-722-3005

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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

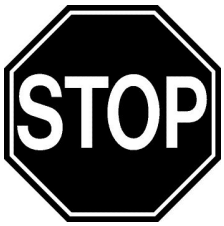
EQUIPMENT DAMAGE

- 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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TOOLS REQUIRED

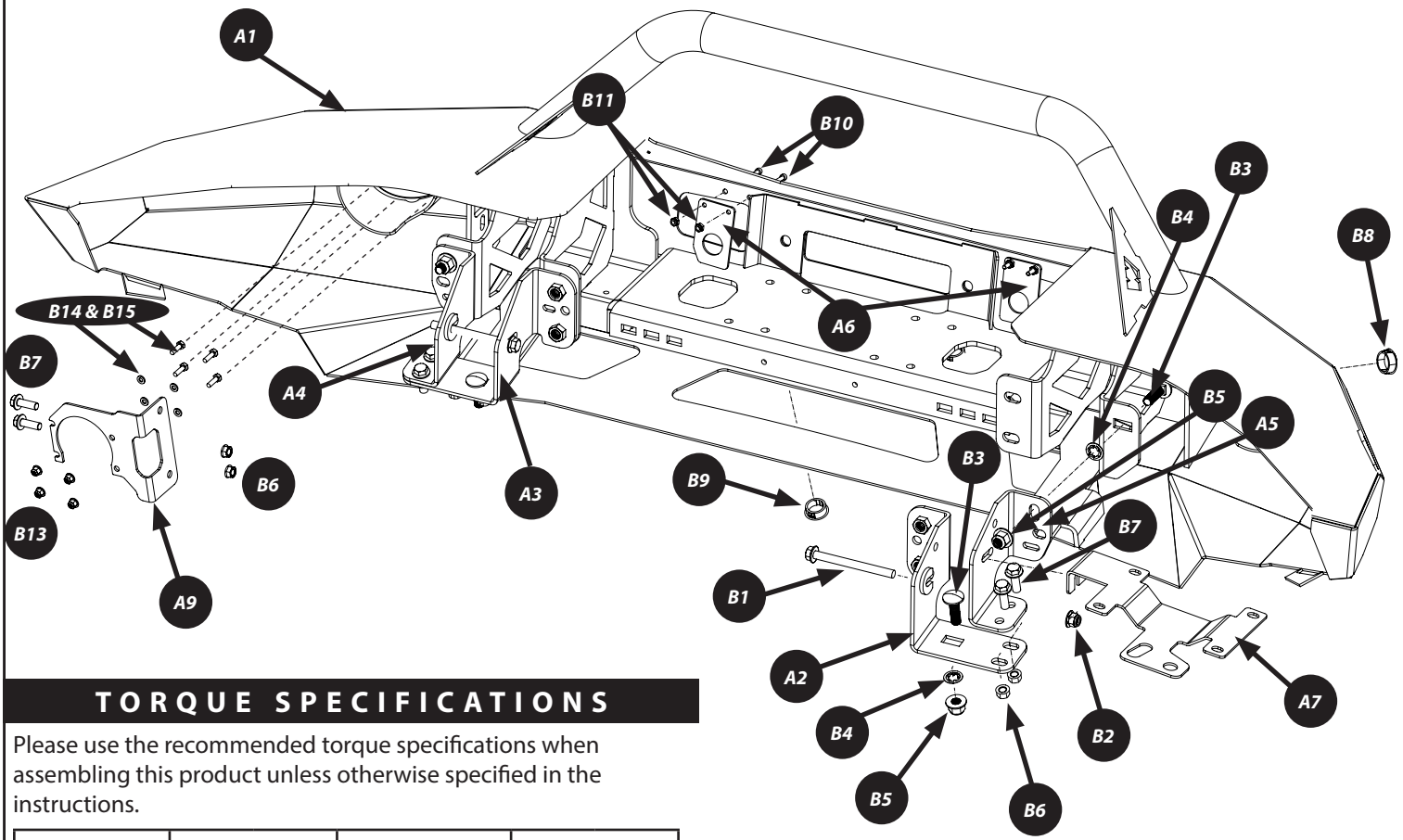
- Standard Wrench and Socket Set
- Metric Wrench and Socket Set
- Cutting tool

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PARTS LIST

Item	PN	Description	Qty.
A1	107836 or 107877	FRONT BUMPER	1
A2	107850	RH INNER NOD BRACKET	1
A3	107847	LH INNER NOD BRACKET	1
A4	108125	LH OUTER NOD OUT BRACKET	1
A5	108126	RH OUTER NOD OUT BRACKET	1
A6	108231	SENSOR BRACKET	2
A7	108276	RELOCATION BRACKET	1
A8	108591	RH FOG LIGHT BRACKET	1
A9	108592	LH FOG LIGHT BRACKET	1

Item	PN	Description	Qty.
B1	107308	M10-1.5 FLANGE BOLT	2
B2	87232	M10x1.5 LOCK NUT	2
B3	107751	M12-1.75 CARRIAGE BOLT	4
B4	101259	1/2" PUSH NUT BOLT RETAINER	4
B5	79465	M12-1.75 FLANGE NUT	4
B6	92506	M10-1.25 FLANGE LOCKNUT	4
B7	78408	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
B12	102248	PLUG PLASTIC 1-3/32	2
B13	83125	NUT HEX M6 X 1.0 FLANGED	8
B14	83349	WASHER-PLAIN_M6-120D_ZNC	8
B15	63356	M6-1.0 x 20 HEX HEAD SCREW	8



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)*			

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REMOVAL INSTRUCTIONS

1. Remove the bolts securing the skid plate to the bottom of the vehicle. Once skid plate is released from the vehicle, carefully set it aside, along with the hardware. You will reinstall later. ***NOTE: The plastic skid plate will have six (6) bolts and the steel skid plate will have four (4) bolts.***



Figure 1

2. For plastic bumpers:
   - Remove the rubber trim around each tow hook.



Figure 2

   - Remove the front bumper trim panel by releasing the 12 clips (6 clips on each side).

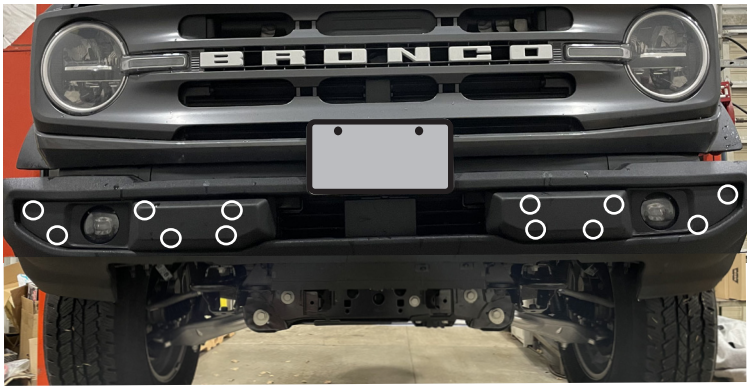


Figure 3

3. For steel bumper:
   - Remove the four push pins and release the four clips to remove the front bumper trim panel around the tow hooks.
   - If equipped, remove the front bumper bar.
   - Remove the tow hook completely (each side).

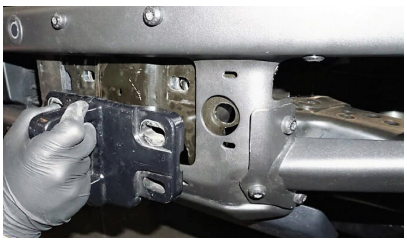




Figure 4

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REMOVAL INSTRUCTIONS

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

4. For all bumpers:
   - Remove license plate and bracket.
   - Remove the six bolts holding the front bumper to the vehicle's frame and carefully remove the front bumper from the vehicle. Retain hardware for later use.

   NOTE: Be sure you have disconnected the front bumper harness, located behind the front bumper and grill on the driver side of the vehicle.



Figure 5

5. For plastic bumper:
   - If equipped, unplug the factory fog light from the front bumper harness.
   - Remove the four screws holding the factory fog lights and fully remove fog lights from the bumper.
   - Remove the four bolts and four screws from the metal bumper backing frame (both sides).
   - Remove the metal frame.

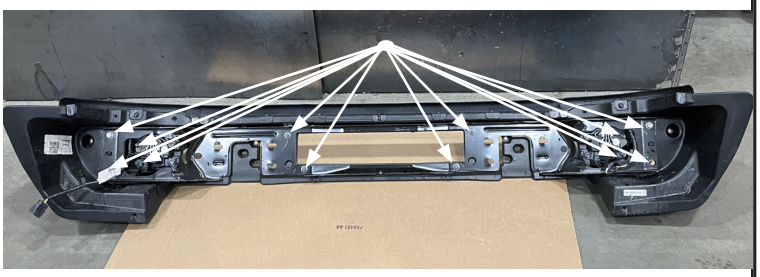


Figure 6

For steel bumper:
- If equipped, unplug the factory fog light from the front bumper harness.
- Remove the four (4) screws holding the factory fog lights and fully remove fog light from the bumper.
- Repeat on opposite side of the vehicle.

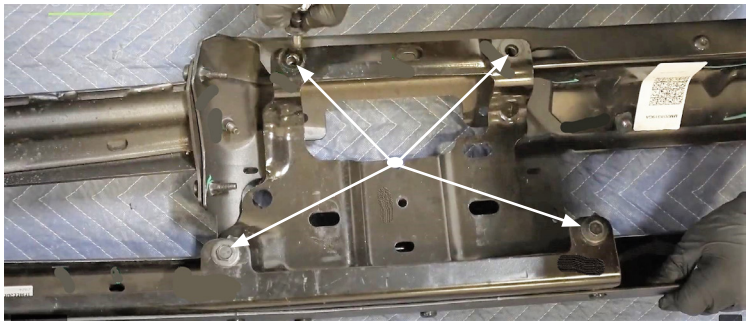


Figure 7

5. For all bumpers:
   - Unplug any wiring harnesses connecting the bumper to vehicle.
   - 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.*
   - 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.***

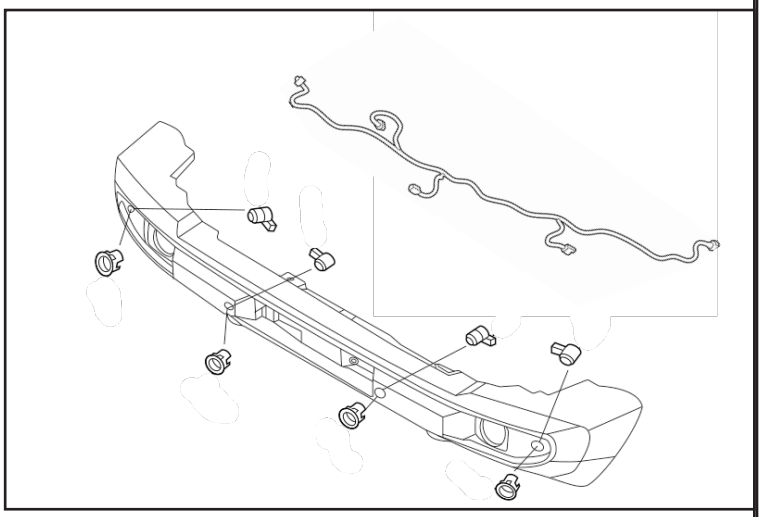


Figure 8

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INSTALLATION INSTRUCTIONS

6. If equipped, carefully tuck the front bumper harness into the Warn Elite Bumper. ***NOTE: Ensure the harness is kept behind the frame mounting brackets and under the winch carrier plate. Use cable ties, as necessary.***

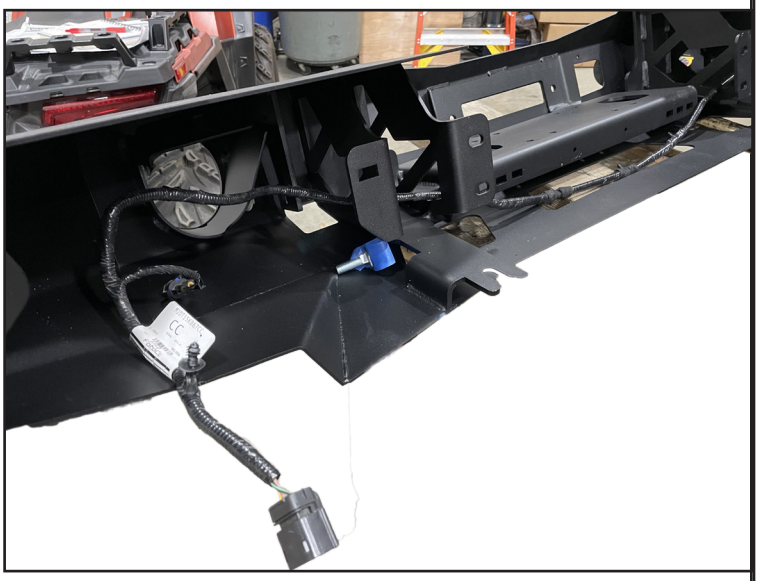


Figure 9

NOTE: Due to the tight fit of the winch, it is recommended to install the fairlead before installing the winch.

7. Install fairlead following winch installation instructions.



Figure 10

8. For plastic bumper:
   - In order to provide clearance around the factory tow hook, loosen, but do not remove, the front most bolt holding the tow hook to the frame to swing it downward.



Figure 11

9. All bumpers:
   - Locate and remove the two plastic nuts holding the frame nut plate to the back of the frame pad. Retain plastic nuts to reuse later.
   - Remove the frame nut plate.
   - Repeat on opposite side of the vehicle.

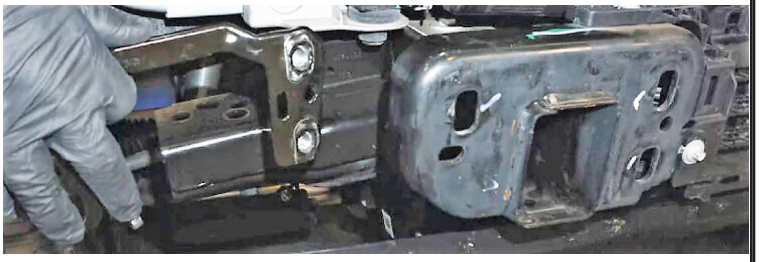


Figure 12

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10. Install one carriage bolt (B3) through the slot of each outer side of the bumper mounting brackets.

11. Center the carriage bolt in the slot as much as possible and install one retaining push-nut (B4) to secure bolt in place. ***TIP: A large socket may be helpful in pressing the push nuts on.***

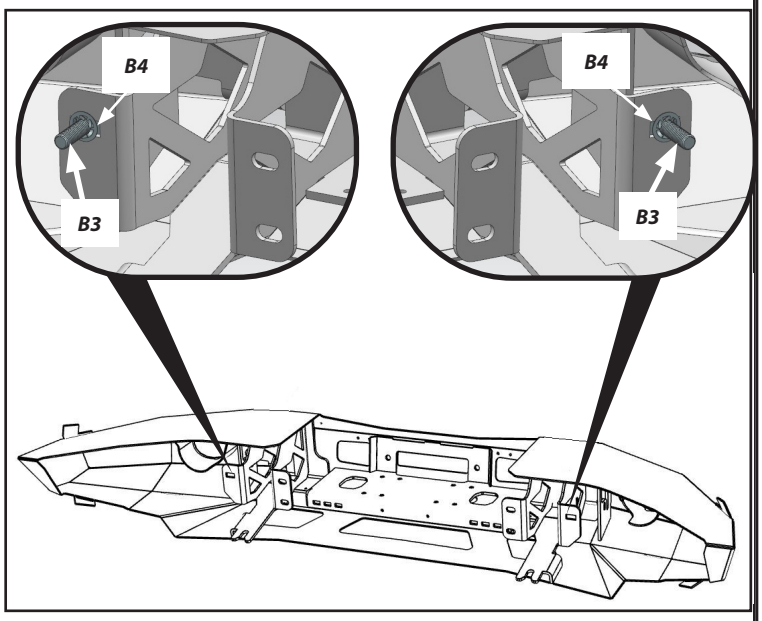


Figure 13

12. Place the inner and outer nod brackets in place on each side of the vehicle frame rail and up behind the bumper mounting pads.

13. Install two factory plastic nuts (retained from nut plate) over weld studs to keep brackets in place.

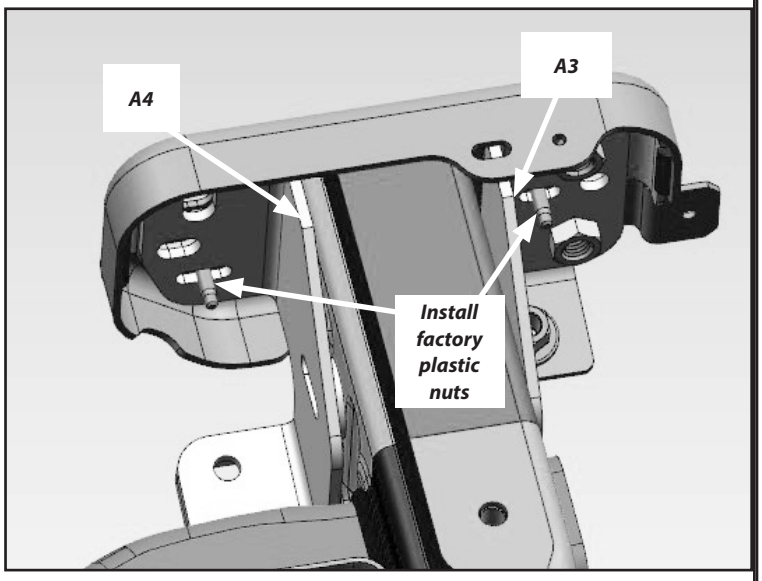


Figure 14

14. Install the M10-1.5 bolt (B1) and nut (B2) in the upper frame mounting hole of outer nod bracket.

15. Install two M10-1.25X30mm bolts (B7) through the outer and inner nod bracket. Torque to specifications on page 3.

16. Repeat steps for other side.

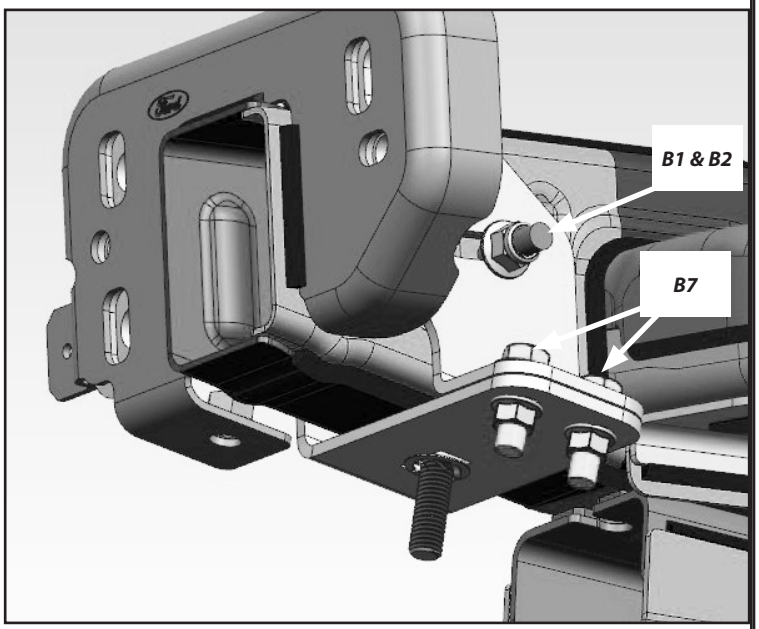


Figure 15

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17. If equipped, locate the two factory fog lights and the two Warn fog light brackets (A8 & A9).

18. Using four M6-1.0 x 20-mm bolt (B15), M6 flat washers (B14), and flanged lock nuts (B13), install one factory fog light onto one fog light bracket.

19. Repeat for remaining fog light and bracket.



Figure 16

20. Install the Warn fog light bracket assembly onto the Warn Elite Bumper using the two M10-1.25 x 30-mm bolts (B7) and M10-1.25 flanged lock nuts (B6).

21. Repeat for other side.

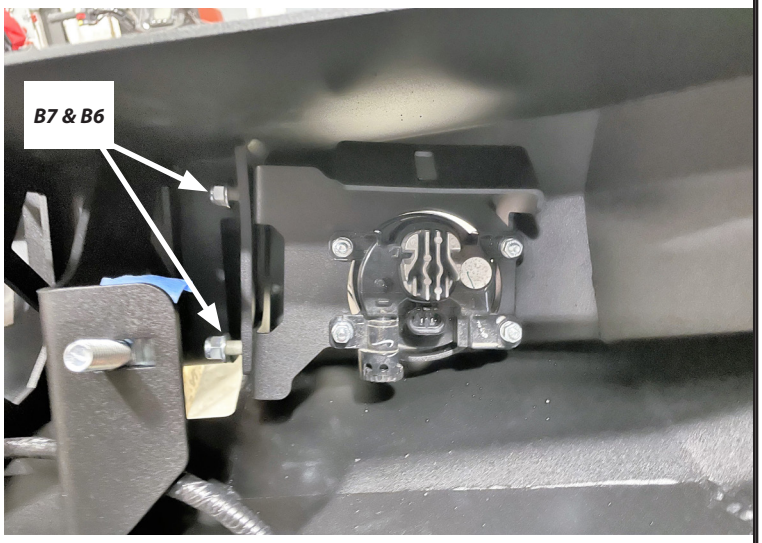


Figure 17

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

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

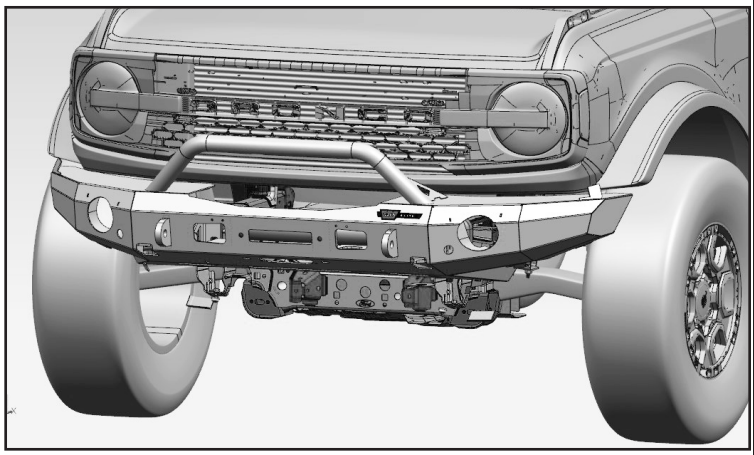


Figure 18

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23. Ensure the bottom edge of the bumper clears the factory tow hooks during installation. ***NOTE: The factory tow hooks will no longer be usable after the Warn Elite Bumper is installed.***

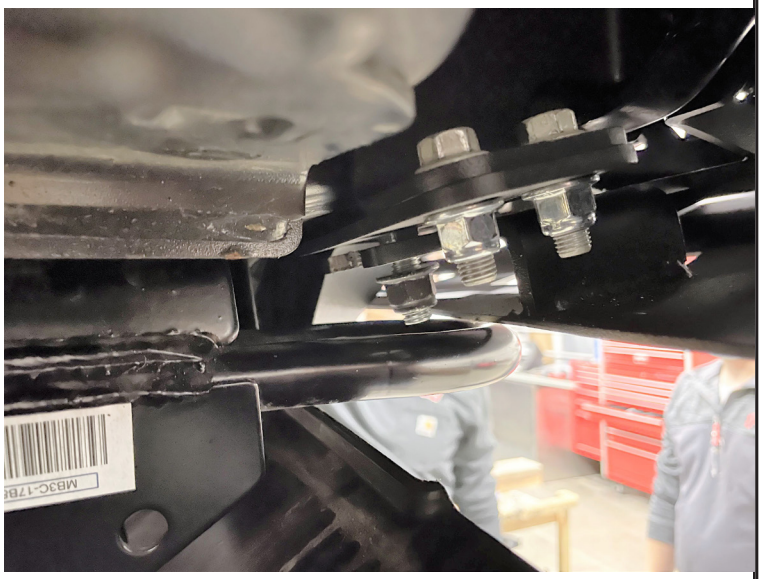


Figure 19

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

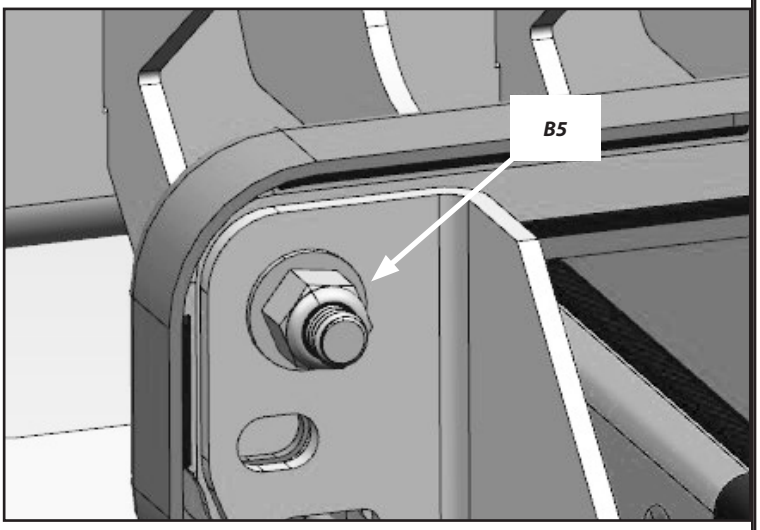
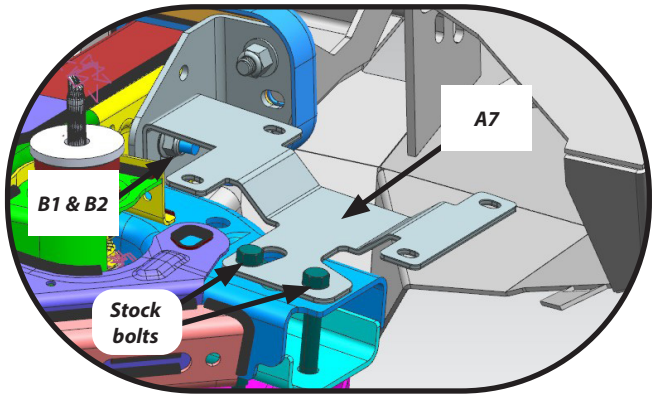


Figure 20

25. Install two of the M12 factory bumper bolts 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.



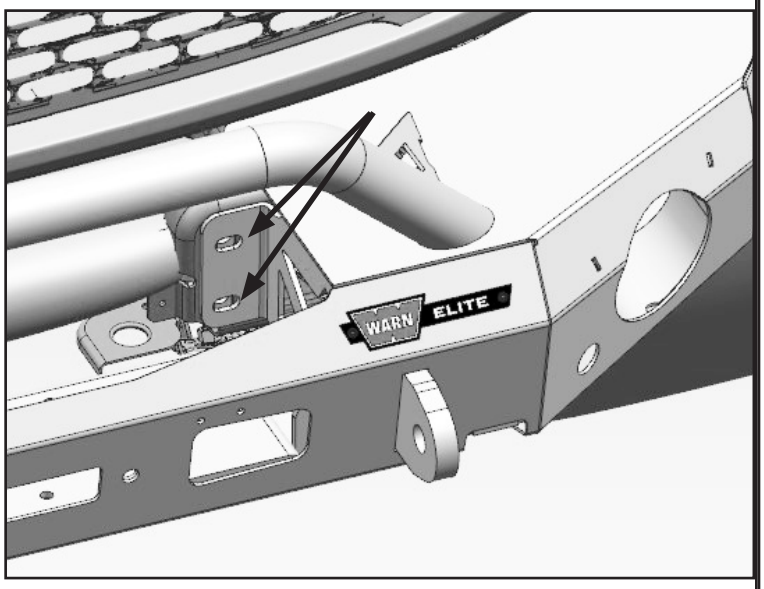


Figure 21

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26. Install a M12 nut (B5) onto the inner nod bracket carriage bolt (each side).

27. Torque **ALL** bumper mounting hardware to specifications listed on page 3.

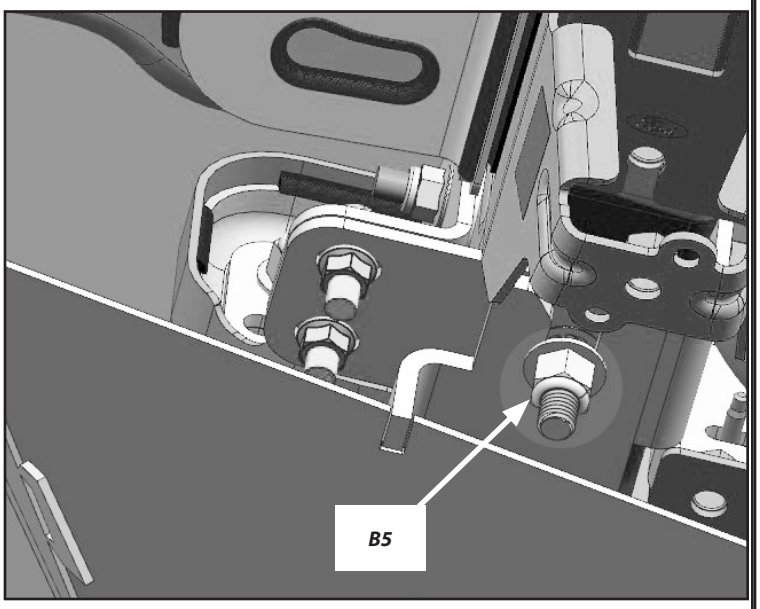


Figure 22

28. 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.***

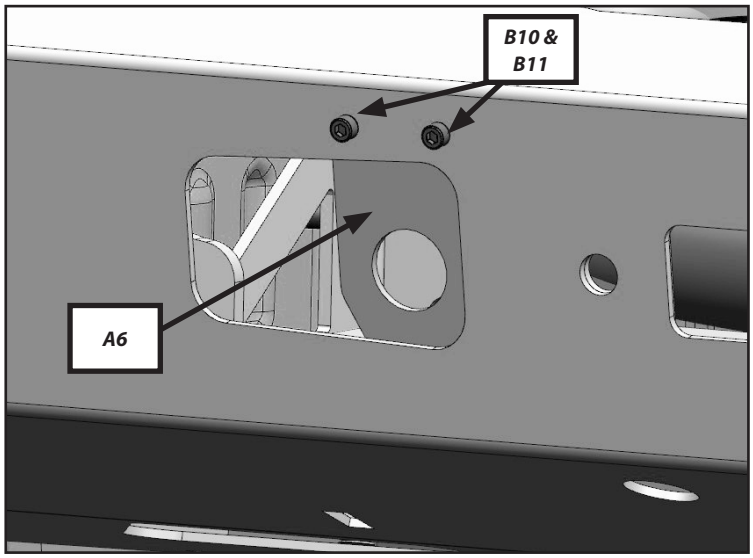


Figure 23

29. 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.***

30. Install sensors into the correct sensor carriage.
NOTE: Be sure sensors match the orientation of the stock bumper.

NOTE: The Warn Bronco Elite Front Bumper is designed to work with the parking sensor retainers found on the factory steel bumper only.

If your vehicle was equipped with a plastic bumper, contact your local Ford Dealer for the following parts:

- ***Driver Outer Retainer Part Number: M2DZ-15A862-MA***
- ***Driver Inner Retainer Part Number : M2DZ-15A862-MB***
- ***Passenger Inner Retainer Part Number : M2DZ-15A862-MC***
- ***Passenger Outer Retainer Part Number : M2DZ-15A862-MD***

31. If your Bronco does not have parking sensors, add hole plugs to the bumper wing sensor holes.

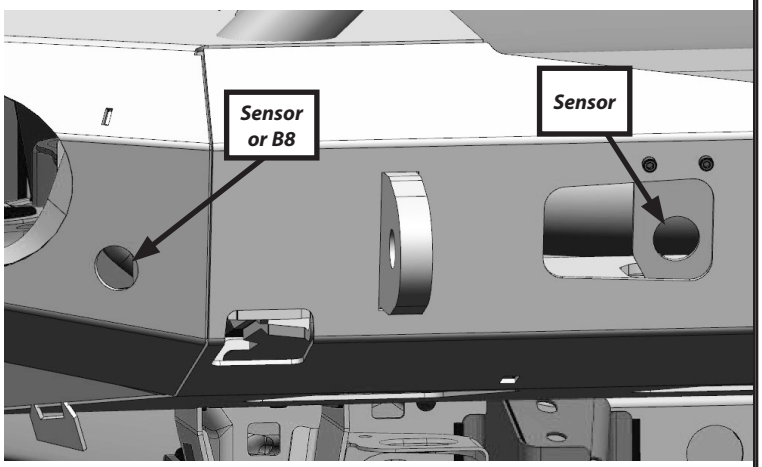
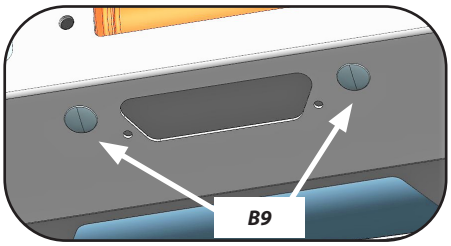


Figure 24

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32. If you are installing a winch in the bumper, install it at this time per the winch installation instructions.

33. Install the supplied hole plugs (B9) into the which bolt access holes.



34. If equipped, reinstall skid plate.

    For steel skid plate:

    - The skid plate will need to be cut in the specified location (shown in Figure 26) in order to not interfere with the bumper hardware.

    For plastic skid plate:

    - The skid will need to be cut in the specified location (figure 27) on both sides in order to not interfere with the Warn bumper.

35. Plug in **ALL** wiring harnesses to their respective locations.

36. Complete your winch wiring installation following installation instructions that came with the winch.

37. Tighten ALL hardware now, refer to torque specifications on page 3.

38. Installation is complete.

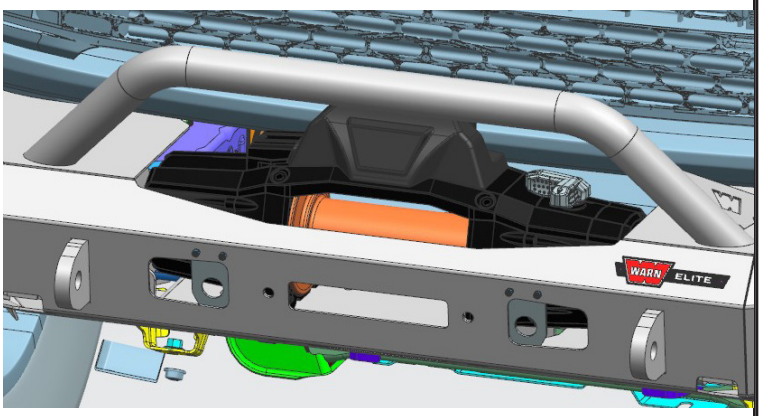


Figure 25

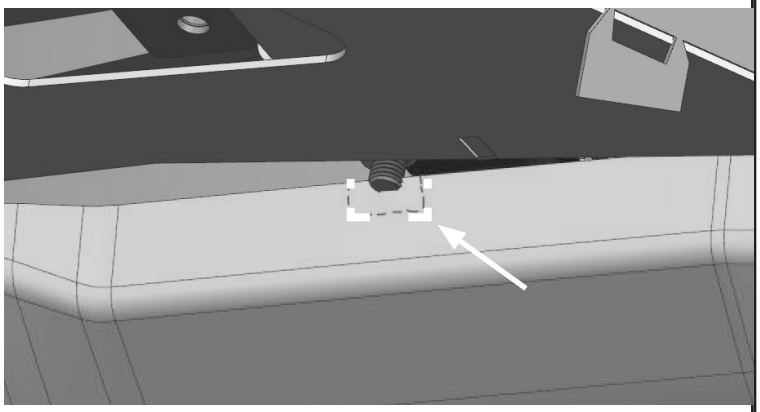


Figure 26

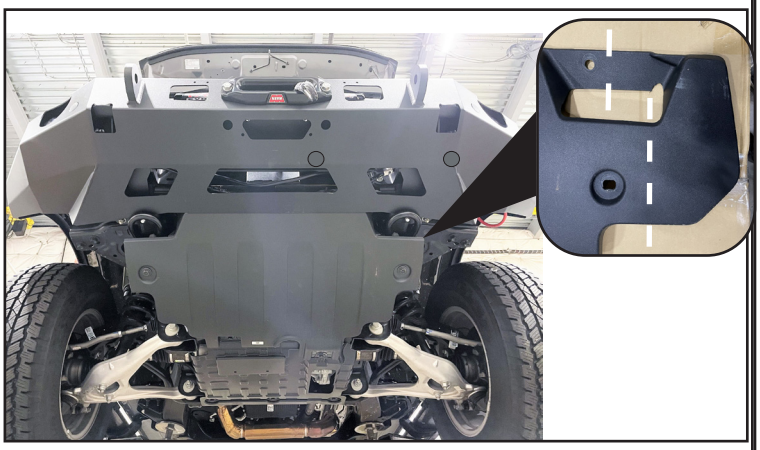


Figure 27



Figure 28

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.

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