



# INSTALLATION INSTRUCTIONS

## ASCENT FRONT BUMPER

Part Number: 100838

Application: 2018 Ford F-150

### 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** 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.
- **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** wear safety glasses when installing this kit. A drilling operation will cause flying metal chips. Flying chips can cause eye injury.
- **Always** use extreme caution when cutting and trimming during fitting.
- **Always** remove jewelry and wear eye protection.
- **Never** lean over battery while making connections.
- **Never** route electrical cables:
  - o Across any sharp edges.
  - o Through or near moving parts.
  - o Near parts that become hot.
- **Always** insulate and protect all exposed wiring and electrical terminals.
- **Always** install terminal boots as directed in installation instructions.
- **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 instructions.
- **Always** perform regular inspections and maintenance on the plow mechanism, fasteners, cable and related hardware.
- **Always** replace all worn or damaged parts before operating.
- **Never** operate this WARN product with damaged or missing parts.

Read installation and operating instructions thoroughly.

WARN INDUSTRIES, INC. 12900 S.E. Capps Road,  
Clackamas, OR USA 97015-8903, 1-503-722-1200, FAX: 1-503-722-3000  
Customer Service: 1-800-543-9276  
Dealer Locator Service: 1-800-910-1122  
International Fax: 1-503-722-3005

## ⚠ CAUTION

### MOVING PARTS ENTANGLEMENT HAZARD

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

- **Always** take time to fully read and understand the installation and Operations Guide included with this product.
- **Never** operate this product if you are under 16 years of age.
- **Never** operate this product when under the influence of drugs, alcohol or medications.

Read installation and operating instructions thoroughly.

## NOTICE

### EQUIPMENT DAMAGE

- **Always** refer to the Installation and Specification Guide, supplied in the winch kit, for all wiring schematics and specific details on how to wire this WARN product to your vehicle.

Read installation and operating instructions thoroughly.

## BEFORE YOU BEGIN

## NOTICE



This product may interfere with 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 wrenches
- Standard sockets

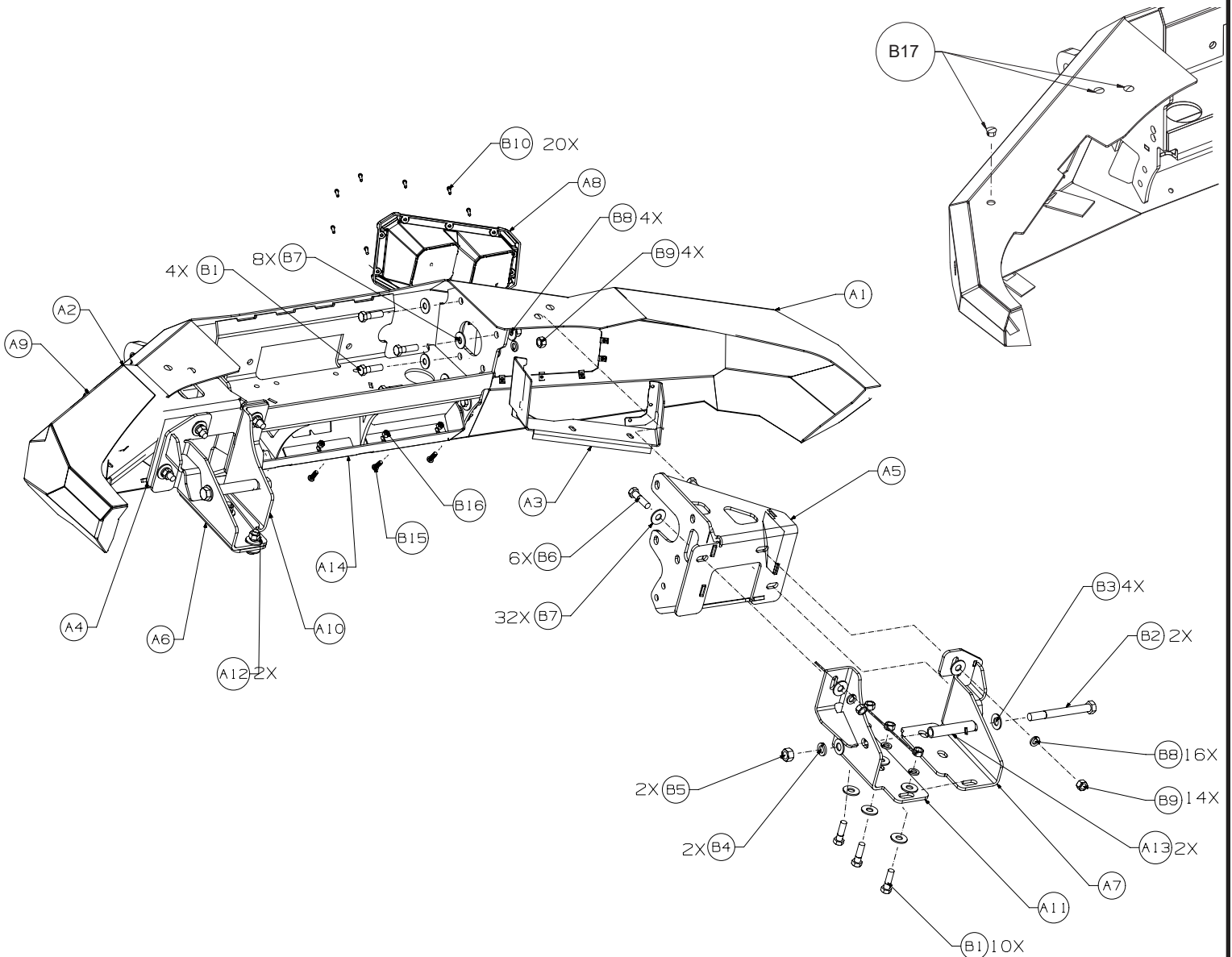
## TORQUE SPECIFICATIONS

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

# PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
A1	100839	BUMPER	1	B1	22535	1/2-13 X 1 3/4 CPSCR HEX HEAD BOLT	14
A2	100903	ASCENT LGHT BRKT LH	1	B2	68896	5/8-11 X 6 CPSCR HEX HEAD BOLT	2
A3	100904	ASCENT LGHT BRKT RH	1	B3	68959	5/8 FLAT WASHER	4
A4	100847	WLDMNT BMPR BRKT LH	1	B4	6820	5/8 LOCK WASHER	2
A5	100848	WLDMNT BMPR BRKT RH	1	B5	6821	5/8-11 HEX NUT	2
A6	100855	WLDMNT FRM BRKT LH	1	B6	11294	1/2-13 X 2 HEX HEAD CAPSCREW	6
A7	100856	WLDMNT FRM BRKT RH	1	B7	1145	1/2 FLAT WASHER	40
A8	94888	LIGHT PORT RH	1	B8	2596	1/2 LOCK WASHER	20
A9	94889	LIGHT PORT LH	1	B9	1323	1/2 -13 NUT	18
A10	100929	CHNL FRM BRKT B LH	1	B10	91541	10-24 X X1.25 SS SOC HD CPSCR	20
A11	100928	CHNL FRM BRKT B RH	1	B11	1824	7/16-14 X 1-1/4 HEX HEAD CPSCR	4
A12	38452	NUT STICK ASSY	2	B12	7676	7/16 FLAT WASHER	8
A13	79913	TUBE SPACER	2	B13	2146	7/16 LOCK WASHER	4
A14	95514	AIR SCROOP	1	B14	2583	7/16-14 HEX NUT	4
				B15	90327	5/16-18 X 1 1/4 SOC HD CPSCR	5
				B16	90328	5/16-18 NUT LOCKING	5
				B17	100661	9/16 LOCKING PLUG	6



# INSTALLATION INSTRUCTIONS



Figure 1

1. From underneath the vehicle, unplug fog lamps.
2. From underneath the vehicle, remove the fog lamp plug, harness clip and air dam christmas tree clip to free the bumper. The fog lamp harness will hang freely and will need to be secured with zip ties underneath the vehicle. Figure 2.
3. Repeat for other side.
4. Remove the **two** outer christmas tree clips holding plastic sheeting (located between top edge of bumper and the bottom of the grille). **NOTE: The third center christmas tree clip will be removed as you are removing the bumper from the front of the vehicle.**
5. Remove license plate and frame.
6. Remove the two front plastic bumper inserts and clips, from bumper. See Figures 4 and 5.

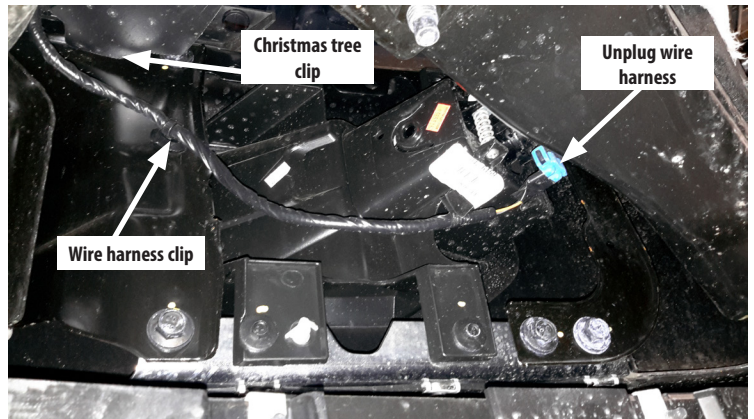


Figure 2

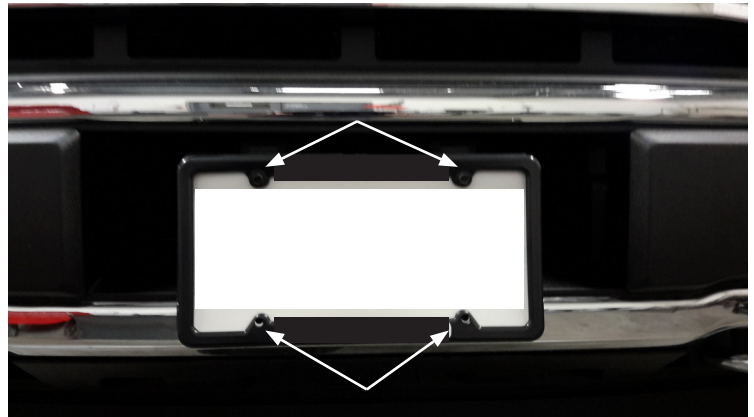


Figure 3



Figure 4

# INSTALLATION INSTRUCTIONS



Figure 5

7. From inside the bumper, remove the four nuts (two on each side) as shown in Figure 6. After removing nuts, you can freely remove the tie bolt plate from behind the bumper.

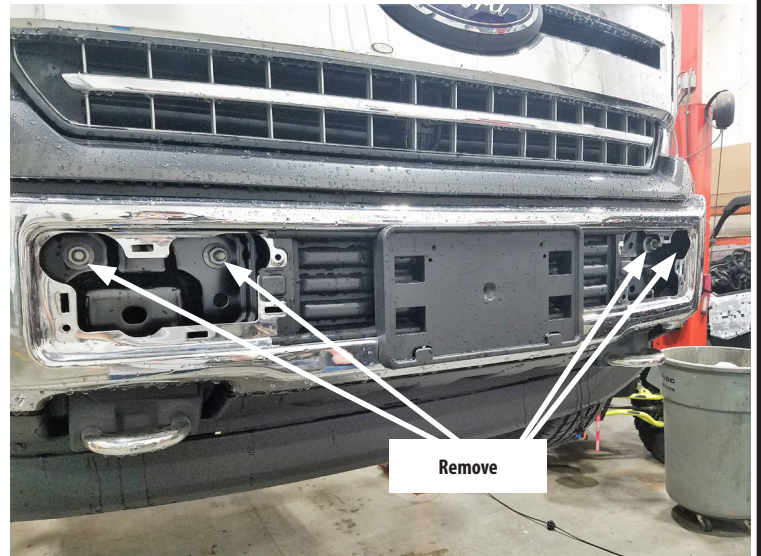


Figure 6

## ⚠ CAUTION

- Always use assistance when moving or lifting heavy parts.

8. Get help to hold bumper in place.
9. From underneath the vehicle, remove the last remaining nut holding bumper in place (each side). See Figure 7.

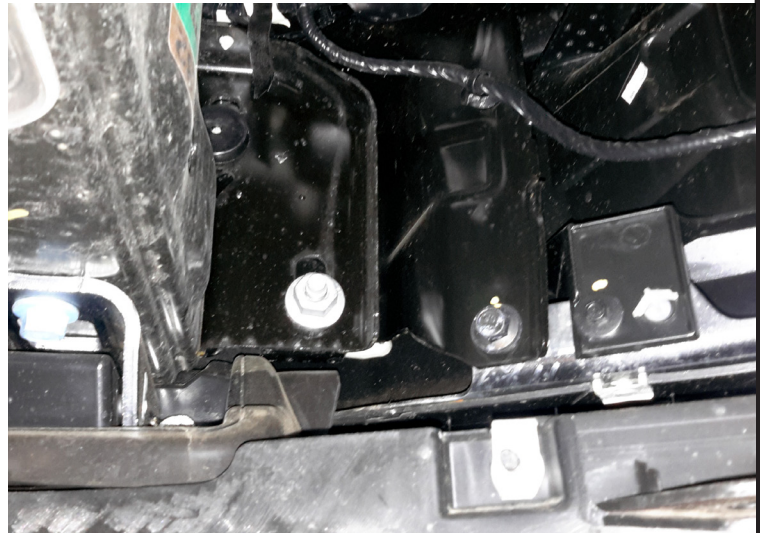


Figure 7

10. Remove the rubber boot and the two bolts from tow hook. You will not be reusing.

11. Remove tow hook. You will not be reusing. See Figures 8 and 9. Repeat for other side.

**NOTE:** *If model is equipped with eco-boost, cutting the soft rubber from the around the innercooler will aid in bumper installment.*

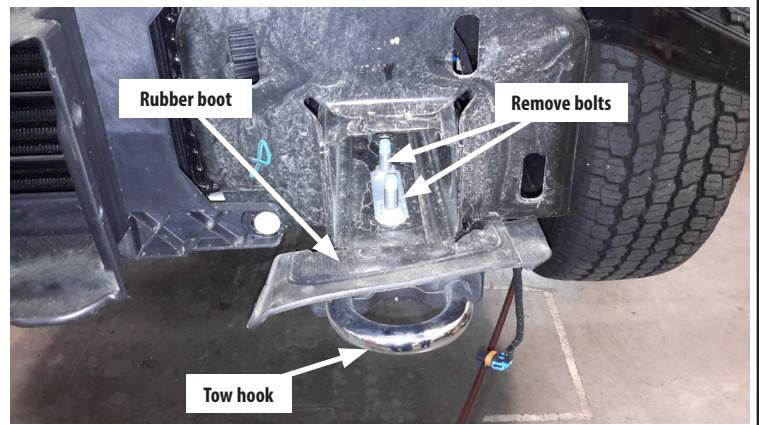


Figure 8



Figure 9

12. Insert spacer (A13) into the vehicle frame (behind front flange). Figure 10.

13. Repeat for other side.



Figure 10

14. Hold left hand bottom frame bracket (A6) in place, using washer (B3) on bolt (B2). **Bracket will hang in place until fully secure. Do not tighten at this time.** Figure 11.

15. Repeat for other side.

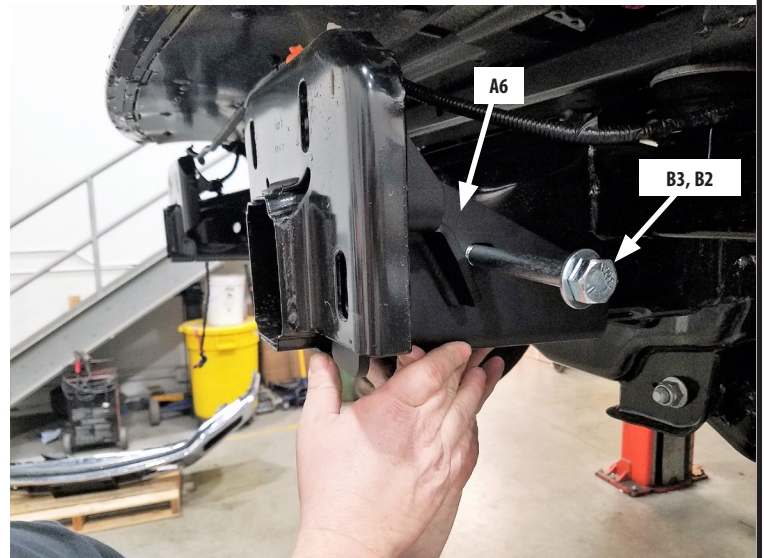


Figure 11

## INSTALLATION INSTRUCTIONS

16. Align left hand inner bracket (A10) with bolt from previous step.
17. Secure in place (*hand tighten only*) with lock washer (B4) and nut (B5). Figure 12.
18. Do not tighten at this time.
19. Using three bolts and washers (B1& B7), attach the left hand bottom frame bracket(A6). Insert the first two bolts (B1) with washers (B7) through bracket and vehicle frame. Fasten with washer (B7), lock washer (B8) and nut (B9).
20. Insert the last (*most rear*) bolt (B1) with lock washer (B8) and washer (B7). Fasten with nut assembly (A12).
21. Check position of bracket, making sure it is as close to the back of the vehicle's bumper mounting flange as possible. Once in place, tighten bottom hardware at this time.
22. Clip excess nut assembly wire handle off, making even with end of frame.
23. Tighten 5/8" bolt (B2) installed in step 15.
24. Remove clamp and tighten all hardware at this time.
25. Repeat steps 16-24 for other side.

**NOTE:** You may wish to remove the two side impact bars at this time, because after bumper installment is complete, the impact bars will be exposed. See Figure 18.



Figure 12

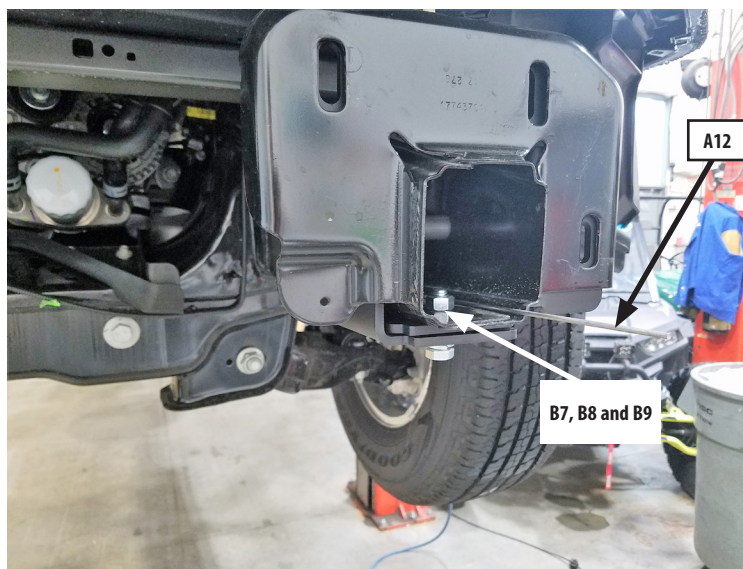


Figure 13



Figure 14

## INSTALLATION INSTRUCTIONS

26. Install front frame brackets (A4 & A5) using hardware B6, B7, B8 and B9. Refer to exploded view on page 3. See Figure 15.



Figure 15

27. Slide bumper (A1) in place and loosely attach to front frame brackets using B1, B7, B8 and B9. Do not tighten at this time. Figure 16.

28. With assistance, adjust bumper and tighten all hardware at this time.

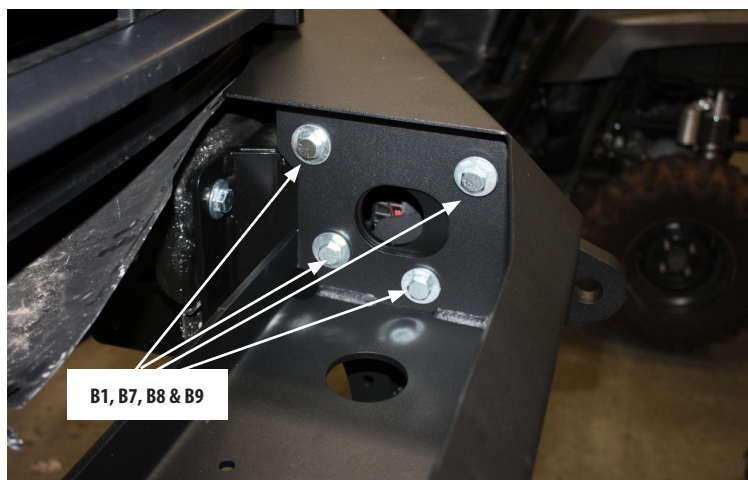


Figure 16

29. While holding light bracket (A2) in place (from under and behind bumper), line up light bezel (A9) through front bumper light port to bracket. Secure pieces together with ten stainless steel socket head screws (B10). Review exploded view on page 3.

30. Repeat for other side.

**NOTE:** Light bezels are equipped with removable panels for lights. Lights shown installed - sold separately.

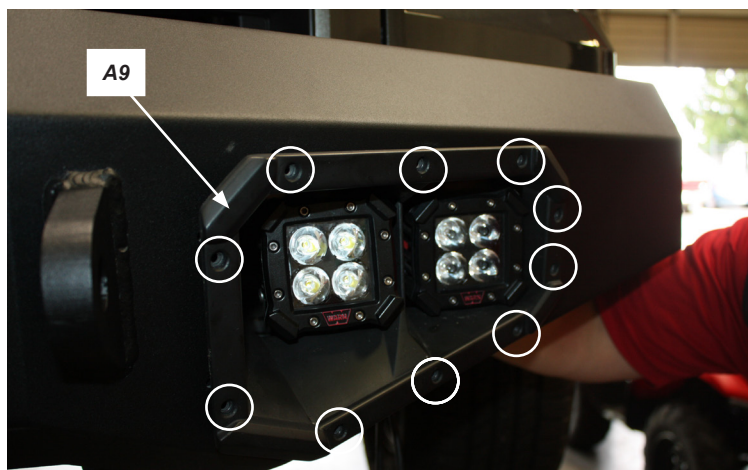


Figure 17



31. **For Models with intercooler feature ONLY:** For maximum air flow, install air scoop (A14) from behind bumper, using five B15 and B16 hardware.
32. If not installing optional Ascent bar accessories, plug unused holes with provided hole plugs (B17). Refer to exploded view on page 3.
33. Installation is now complete.

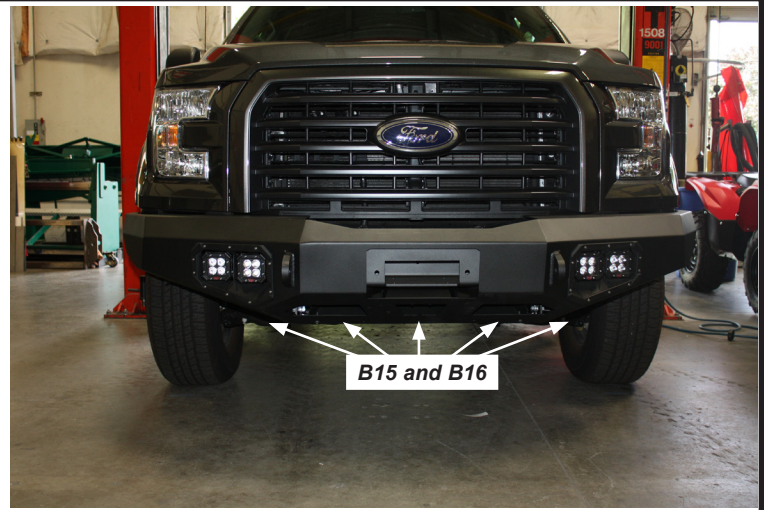


Figure 18

## 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.

**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.**

