



INSTALLATION INSTRUCTIONS

ASCENT BUMPER KIT

Part Number: 111433 & 111434

Application: 2024 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** 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** 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 Locator Service: 1-800-910-1122
International Sales/Customer Service: 1-503-722-3008
International Fax: 1-503-722-3005

⚠ 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.

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BEFORE YOU BEGIN



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.

TOOLS REQUIRED

- 10mm, 13mm, 18mm, 21mm, 7/16", 1/2", 3/4" socket wrench
- 1/2" combination wrench
- Body Pry Tool
- Scissors/utility knife
- Silver marker

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

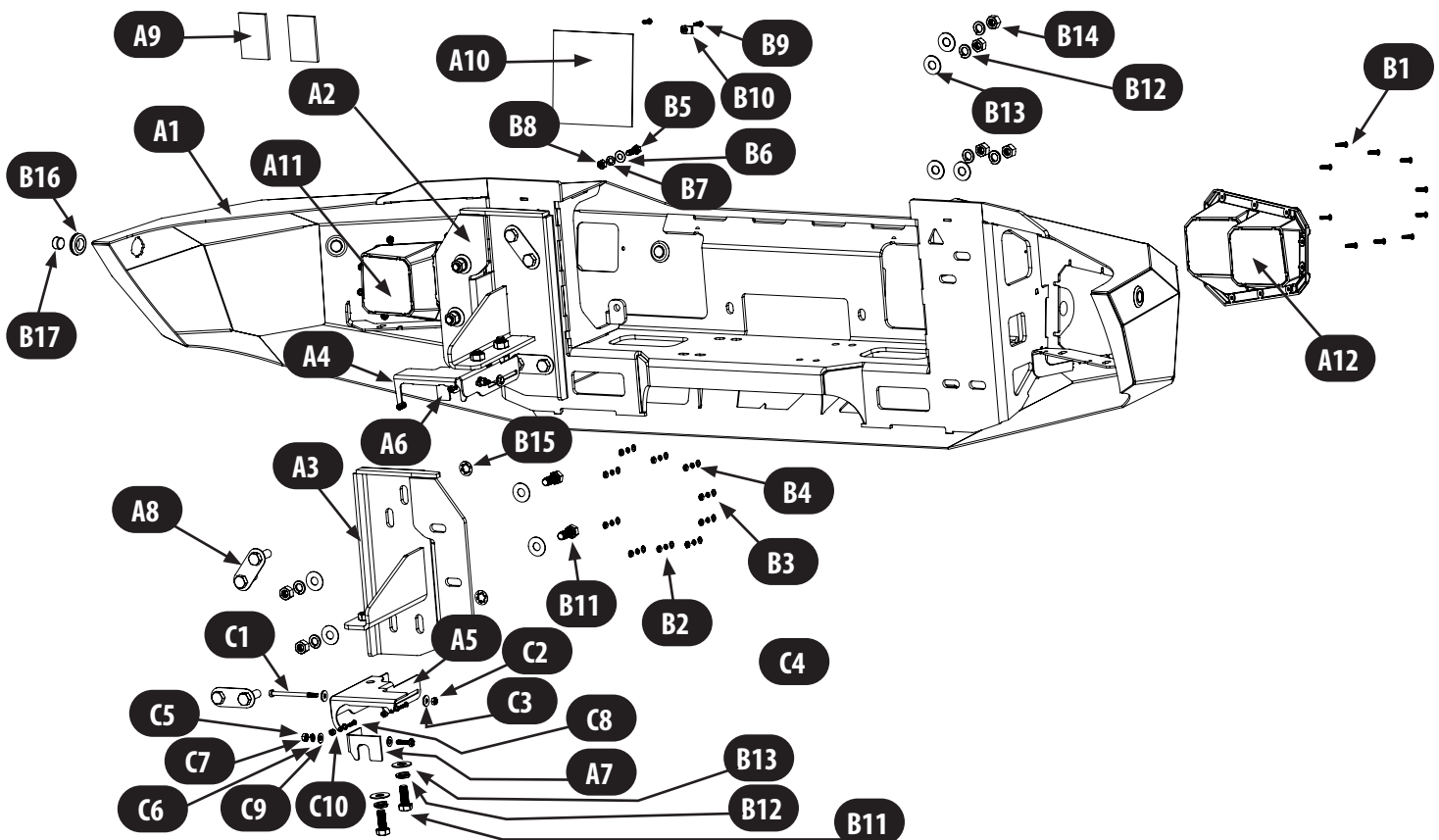
ITEM	QTY	NAME	PN	ITEM	QTY	NAME	PN
A1	1	BUMPER	23401-W	A7	1	PS AIR DAM MTR RETENTION TAB	22968-01
A2	1	DS FRAME MOUNT	23403-W	A8	4	1/2" BOLT STRIPS	20296-W
A3	1	PS FRAME MOUNT	23404-W	A9	2	EPOXY	61632
A4	1	DS AIR DAM MTR BRACKET	22978-01	A10	1	ACC FILLER PANEL	61784
A5	1	PS AIR DAM MTR BRACKET	22950-01	A11	1	WARN DS LIGHT PORT	94889
A6	1	DS AIR DAM MTR RETENTION TAB	22979-01	A12	1	WARN PS LIGHT PORT	94888

50508-HW

ITEM	QTY	NAME	ITEM	QTY	NAME
B1	20	#10-24 X 3/4" BOLT - SS	B10	2	#10-24 BARREL NUT
B2	20	#10-24 NUT	B11	8	1/2"-13 X 1.25" BOLT
B3	20	#10 LOCK WASHER	B12	16	1/2" LOCK WASHER
B4	20	#10 FLAT WASHER	B13	20	1/2" FLAT WASHER
B5	2	5/16"-18 X 1.00" BOLT	B14	12	1/2"-13 HEX NUT
B6	4	5/16" FLAT WASHER	B15	4	1/2" BOLT RETAINER
B7	2	5/16" LOCK WASHER	B16	6	1-3/8" PLASTIC PLUG
B8	2	5/16"-18 HEX NUT	B17	6	1-3/8" PLASTIC INNER GROMMET
B9	2	#10-24 X 3/4" SOCKET HEAD SCREW			

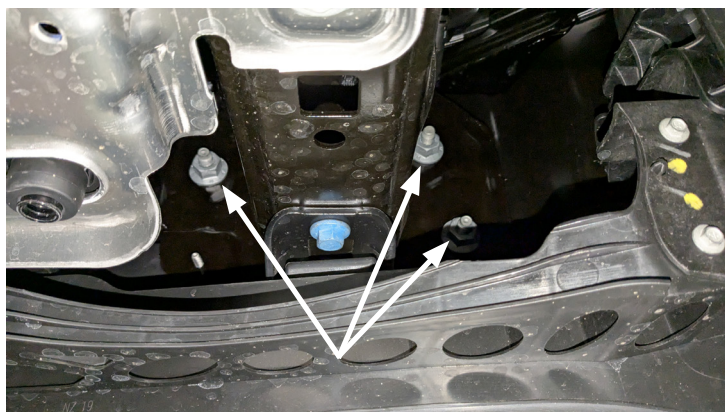
50381-HW

ITEM	QTY	NAME	ITEM	QTY	NAME
C1	2	M6-1.0 X 85MM BOLT	C8	4	#8-32 X 3/4" BUTTON HEAD SCREW
C2	2	M6-1.0 LOCK NUT	C9	4	#8-32 LOCK NUT
C3	4	M6 FENDER WASHER	C10	4	#8 FLAT WASHER
C4	2	1/4"-20 X 1.00 BOLT	C11	2	1/2"-13 X 1.50" BOLT (NOT USED)
C5	2	1/4"-20 HEX NUT	C12	2	1/2"-13 HEX NUT (NOT USED)
C6	4	1/4" FLATWASHER	C13	4	1/2" USS FLAT WASHER (NOT USED)
C7	2	1/4" LOCK WASHER	C14	2	1/2" LOCK WASHER (NOT USED)

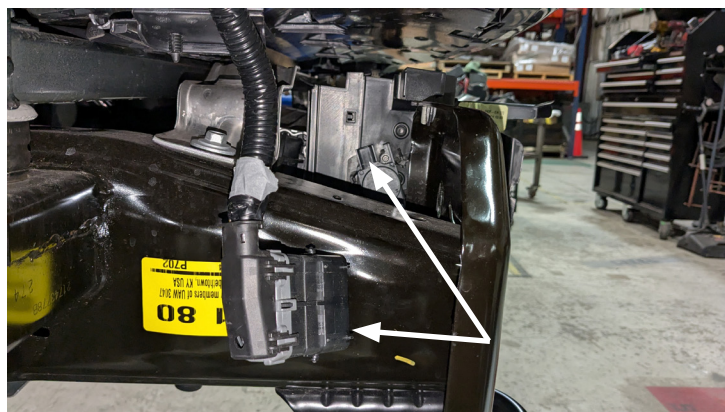


INSTALLATION INSTRUCTIONS

1. From behind the bumper, remove the three nuts from the frame's bumper mount (each side). *This hardware will not be reused.*



2. With assistance, slowly pull the bumper forward to access the three wiring harness connections.
3. From the passenger side of the vehicle, disconnect the two wire harness plugs.

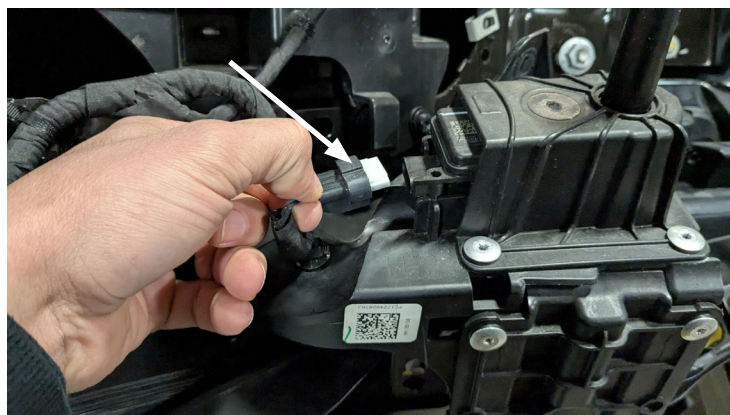


4. From the front of the vehicle and on top of the louvers, disconnect the plug.



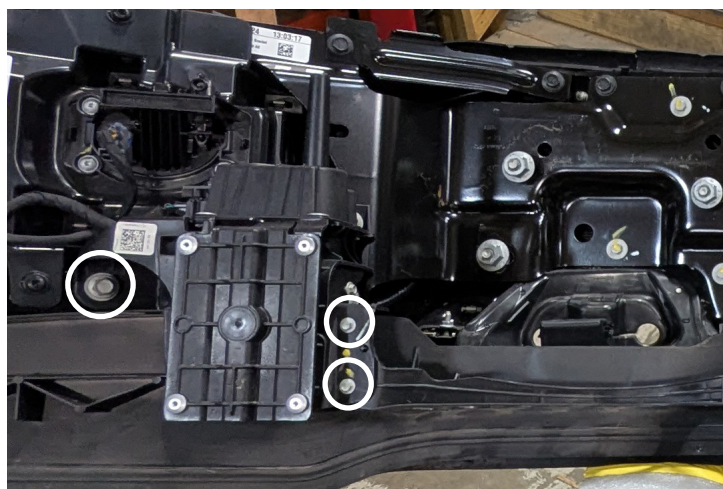
5. With help, fully remove the front bumper and carefully place aside on a flat and stable surface.

6. With the bumper laying on a flat and stable surface, disconnect the plug from the air dam motor assembly (each side).

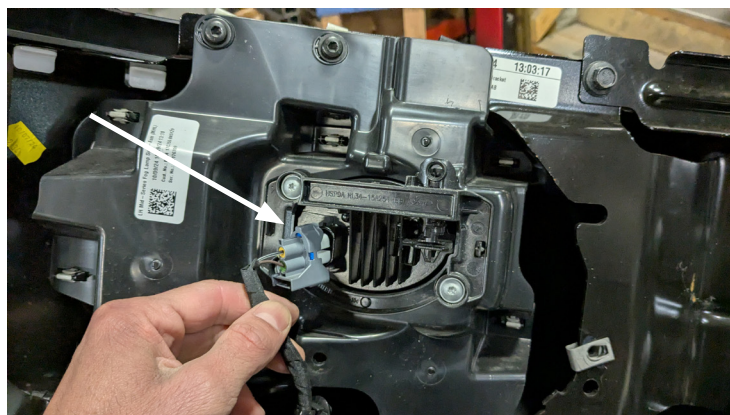


7. Using a 13-mm socket wrench, remove the three screws holding the air dam assembly to the bumper (each side). Place the air dam assembly safely aside. *Hardware will not be reused.*

NOTE: Label each motor assembly from which side it was removed from (i.e.: driver's side, passenger side). You will need to reinstall to the same side as removed.

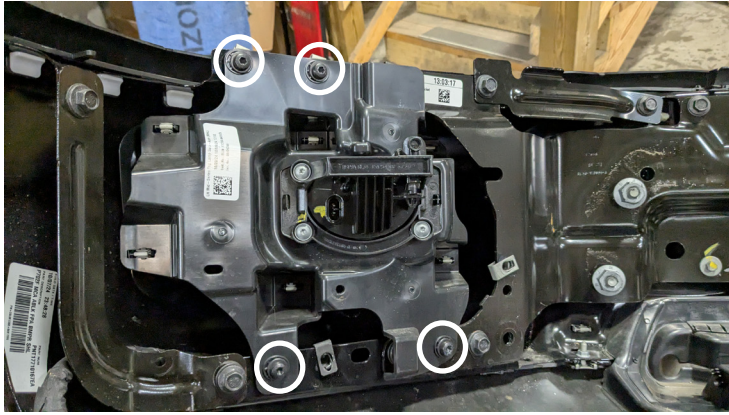


8. Disconnect the plug from each fog light.



INSTALLATION INSTRUCTIONS

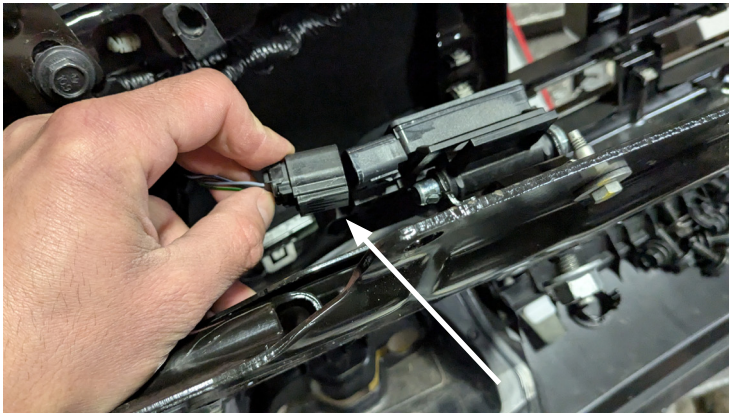
9. Remove the four screws to free the fog light assembly from the bumper. Do this on both sides.



10. Using a 13-mm socket wrench, remove the eight bolts around the driver side metal bumper bracket and then slowly pull the it away from the bumper to expose the ACC sensor.

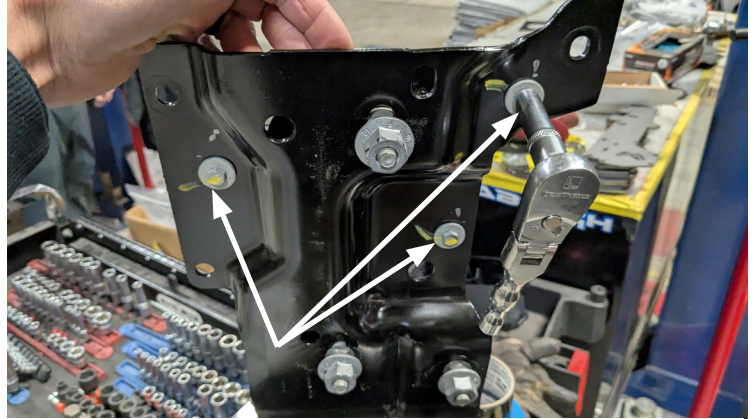


11. With the adaptive cruise control (ACC) sensor visible, disconnect the harness plug from the ACC, and fully remove the bracket from the bumper.



12. With a 10mm socket wrench, remove the three bolts securing the ACC bracket assembly to the metal bumper bracket.

Carefully place the ACC bracket assembly aside.

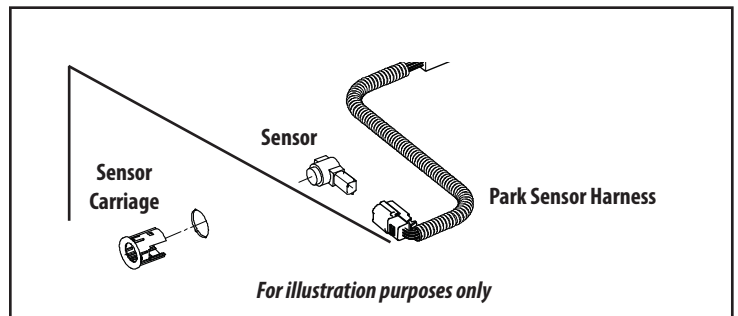


13. If equipped, unplug the sensor wiring harnesses from each sensor. **NOTE: Be sure to mark the location and orientation of each sensor plug.** *TIP: Use a marker or tape to clearly mark/number the exact location of each sensor, carriage and harness.*



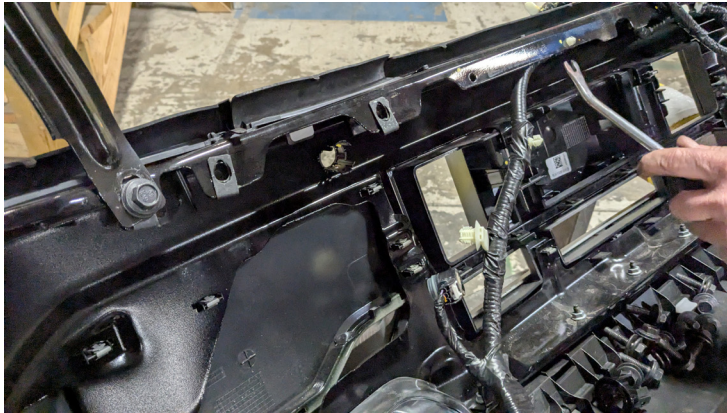
14. Carefully remove the sensor carriages from the bumper by spreading the side tabs outward. **NOTE: Be sure to have marked the sensor and carriage before removing.**

15. Remove sensor carriage from bumper by depressing side tabs.

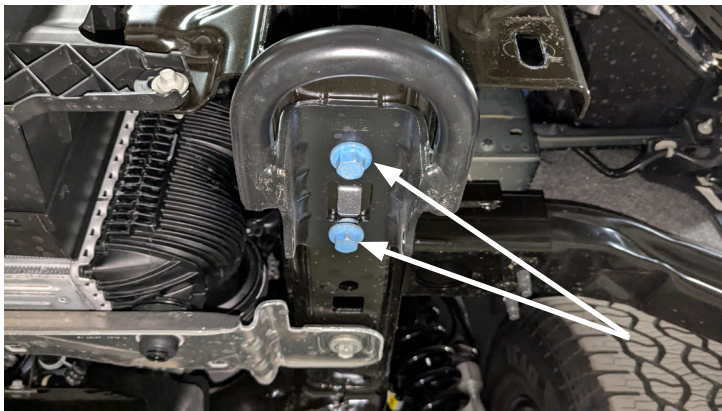


INSTALLATION INSTRUCTIONS

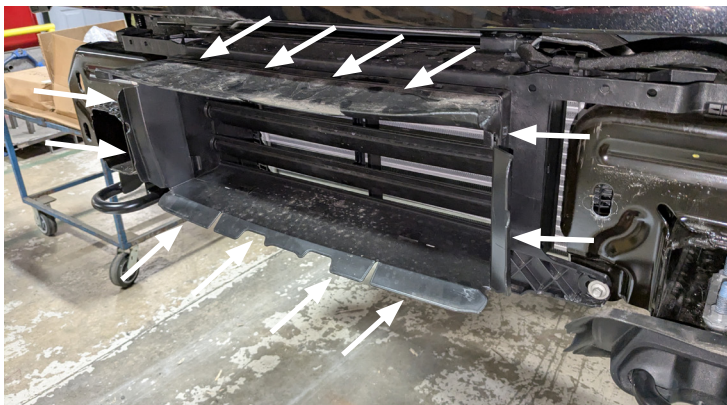
16. Using a body panel pry tool, remove the various tabs attaching the wiring harness to the bumper and then safely place the harness aside.



18. Return to the vehicle. Remove the two tow hook bolts (each side of the vehicle) using an 18-mm socket wrench. *Hardware will not be reused.*



19. Using a body pry tool, press and disconnect the 12 clips around the air dam shroud and remove the shroud completely.



20. Locate the epoxy packets (A9) included with your kit. Mix the two-part epoxy, and then install the parking sensor housings into the Warn bumper in the same orientation and position from which they were removed from the OE bumper.

NOTE: It is helpful to use tape to hold the housing firmly in place against the outside face of the bumper. However, you must ensure the epoxy does not spill/leak out and that the area is clean before applying the tape.



21. If the vehicle is not equipped with parking sensors, locate the six rubber grommets (B17) and plugs (B16) and install them into the parking sensor cutouts of the Warn Ascent bumper.



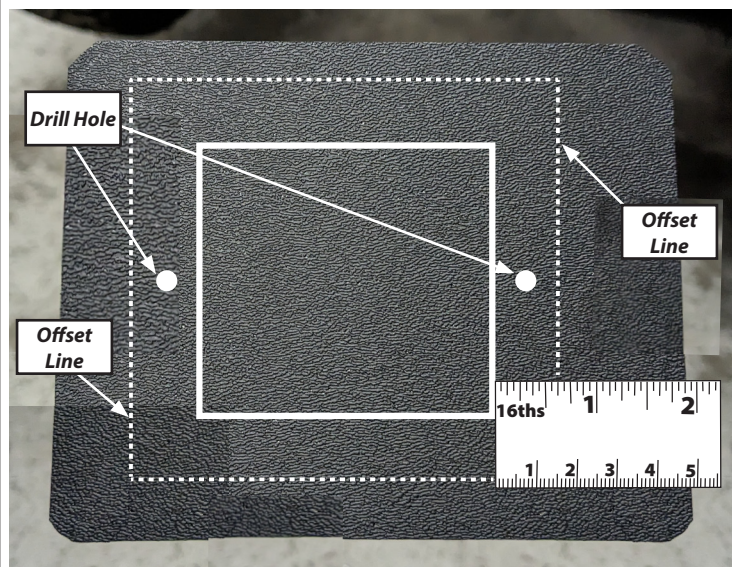
22. Locate the protective filler panel (A10).

With the smooth side facing against the bumper wall of the opening of the bumper, trace the bumper opening and the two screw holes.



INSTALLATION INSTRUCTIONS

23. Using a ruler, mark an offset line by $\frac{5}{8}$ " from the traced lines made in the previous step.



24. Cut the panel along the offset line, and then using a $\frac{1}{4}$ " drill bit, drill out the marked bolt holes.
25. Install the barrel nuts (B10) onto the cut panel, ensuring texture side faces outward.



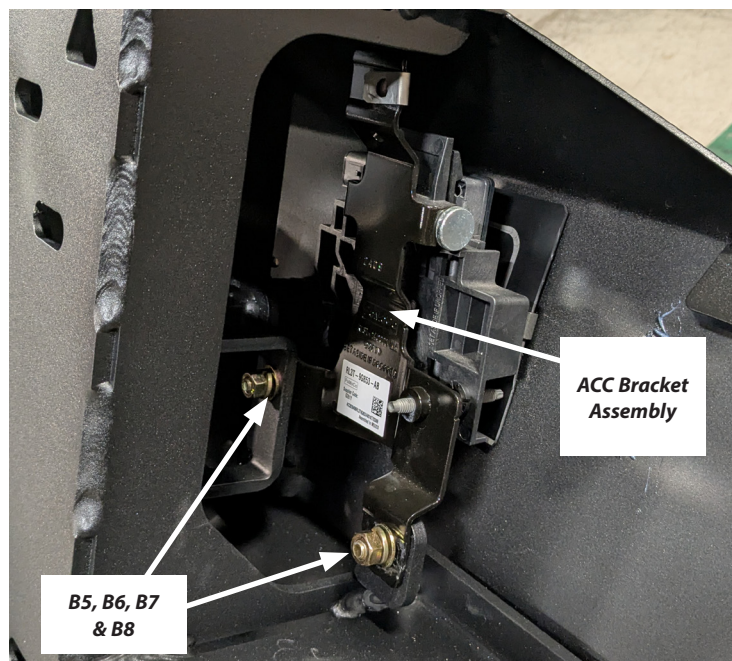
26. Fasten the panel to the bumper using the provided screws (B9).



27. Install the Warn light ports (A11 & A12) into their respective sides on the bumper with ten 10-24 screws (B1), lock washers (B3), flat washers (B4), and nuts (B2).



28. Using the $\frac{5}{16}$ " hardware (B5, B6, B7 & B8), provided in your kit, install the ACC bracket assembly into the Warn bumper. **NOTE: Be sure the ACC sensor face does not get scratched against the barrel nuts and bolts that hold the protective filler panel during installation.**



INSTALLATION INSTRUCTIONS

29. Install the wiring harness onto the Warn Ascent bumper. **NOTE: We recommend using cable ties (not included in kit) to hold the wiring harness in place along route.**



30. Install the parking sensors into their respective housings and reconnect them to the sensor wiring harness.



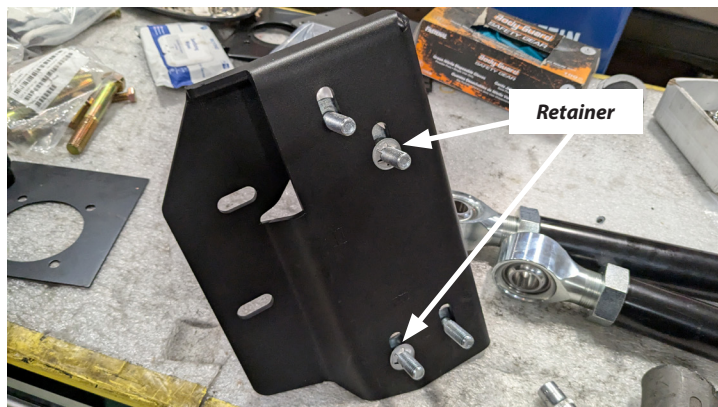
CAUTION Always use proper posture / lifting technique or get lifting assistance while handling and installing product.

31. With assistance, install the Warn winch and fairlead to the bumper. Follow the instructions provided with your winch kit.



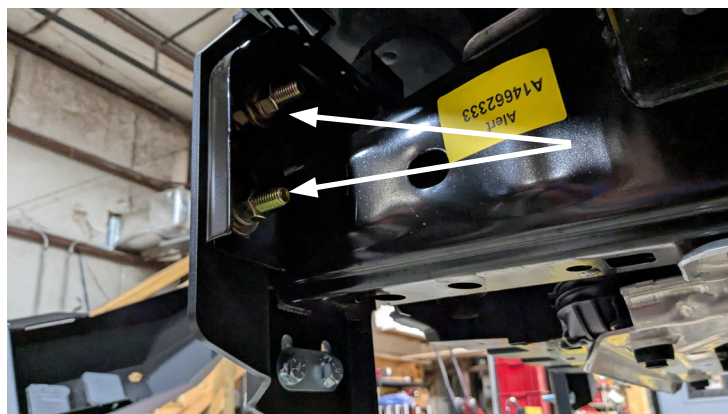
32. Locate the four bolt strips (A8), bolt retainers (B15), and the driver and passenger side Warn frame mounts (A2 & A3) provided in your kit.

Insert the bolt strips into the mounts and use one bolt retainer per bolt strip to keep securely in place.



33. Position the Warn frame mounts on their respective sides.

Secure mounts to vehicle with two bolts (B11), four washers (B13), two lock washers (B12) and two lock nuts (B14) in the upper/front mounting holes. **NOTE: You will install the lower rail hardware at a later time.** Torque to recommended specifications on page 2.



NOTE: Before removing motors, be sure you have labeled each with their coordinating side (driver side/passenger), as they need to be reinstalled on the correct side of the vehicle.

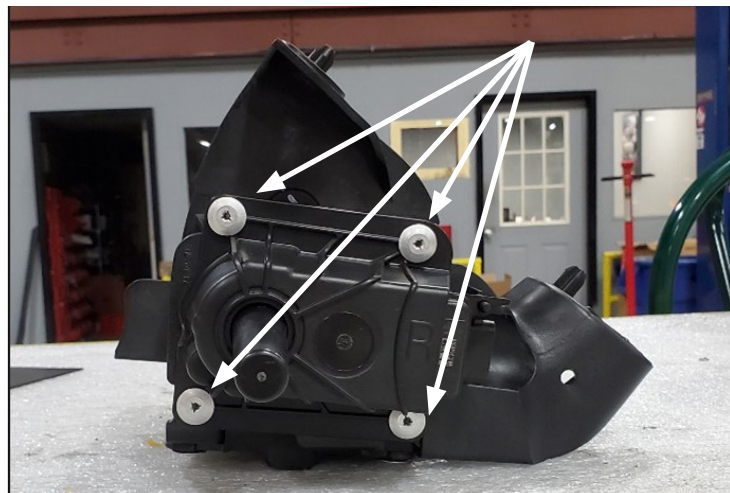
INSTALLATION INSTRUCTIONS

34. Remove the motor from the air dam motor housings (removed in step 7):

- Remove the M6 bolt on each assembly.



- Drill out and remove the four rivets on each motor assembly.

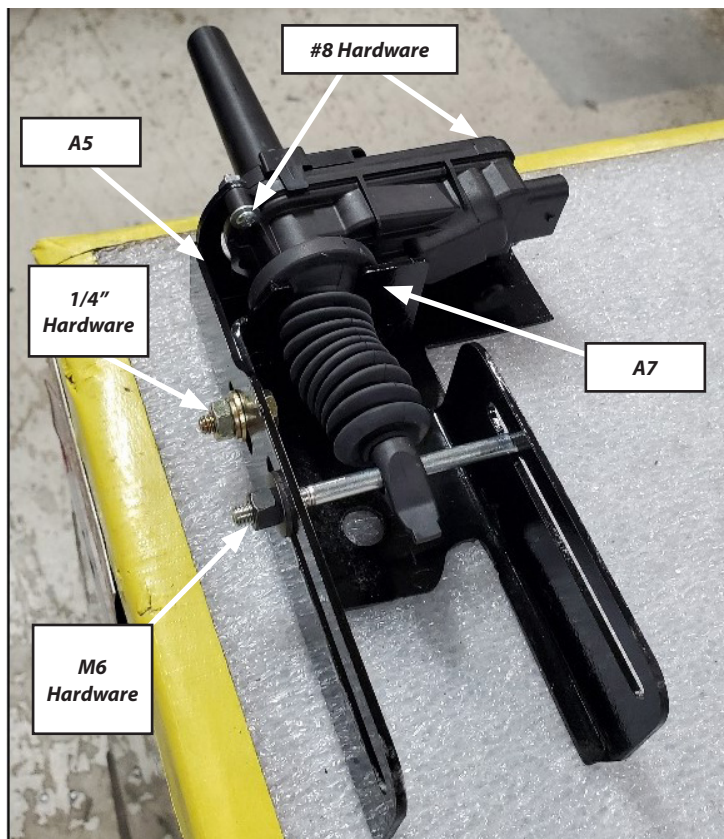


35. Locate the passenger side [PS] air dam motor bracket (A5) and retention tab (A7). Attach the retention tab to the motor bracket using the 1/4" hardware (C4, C5, C6 & C7).

36. Use the #8 hardware (C8, C9 & C10) to install the [PS] motor to the motor bracket. Ensure the #8 bolt head and flat washer are on the motor side.

37. Locate the long M6 hardware (C1, C2 & C3), and insert it through the bracket slots and motor extension rod mounting hole. **NOTE: M6 bolt**

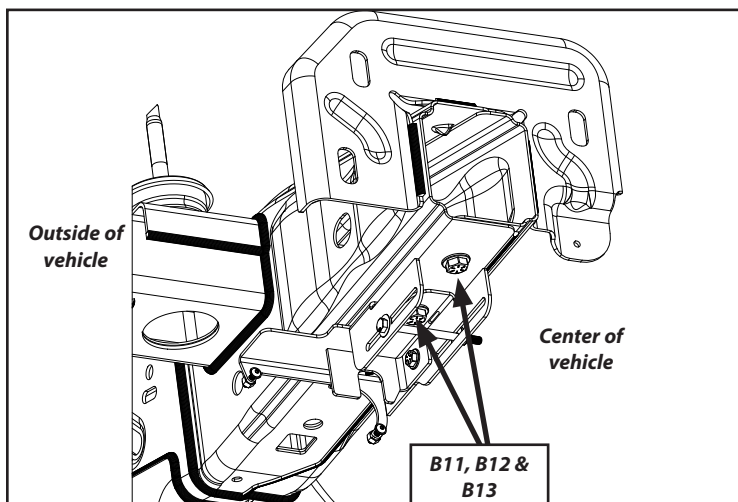
head MUST be on the same side as motor plug. DO NOT fully tighten this hardware. The extension rod and bolt must travel freely through the bracket slot.



38. Repeat steps 34-37 for driver side motor and mounting brackets.

39. Attach the motor mount to the underside of the frame rail and use the remaining 1/2" hardware (B11, B12 & B13).

40. Connect the motor harness plugs and secure excess wiring inside the bumper using zip ties (not included in kit). **NOTE: The motor plug connection should be point toward the OUTSIDE of the vehicle.**



INSTALLATION INSTRUCTIONS

41. With assistance, install the Warn Ascent bumper onto the frame mount bolt strips using the 1/2" hardware (B11, B12, B13 and B14). Do not fully tighten to allow for adjustment.



42. Align the bumper with the vehicle, and then fully tighten all hardware attaching the bumper to the frame mounts.



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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