



FRONT BUMPER

2020+ LAND ROVER

DEFENDER



INSTALL GUIDE

EXP911

PLEASE READ ENTIRE GUIDE BEFORE INSTALLATION

Recommended that you read this entire install guide before installation. Check that all hardware is present before starting or scheduling an install. This guide is supplemental to mechanical knowledge and ability. Anyone not familiar with automotive installation should seek professional installation.



INSTALL GUIDE

IMPORTANT INFO/FAQ

INSTALL GUIDE

ALL

INSTALLATION HELP

Please review terms and conditions for details

Recommended purchaser review Welcome Guide at time of purchase for details

Care and Maintenance available at www.exp-one.com/resources

We do our best to offer timely assistance with your installation questions however as most of our team members are primarily engaged in the manufacturing process and packaging processes, we do not currently offer a tech for on-demand calls and inquiries. For the more technical installs or installs that are time-sensitive in nature, we would recommend our customers seek out the services of professional shops with experience specific to aftermarket bumpers that can better meet your needs. We are happy to make recommendations to you on shops familiar with our products in your area. We do our best to respond to installation questions within 24-48 hours of contact as much as possible. Long-distance problem assessment can be difficult, so photos and videos are often required for us to best assist you. We highly recommend your initial contact regarding installation questions include both close-up and full photos, detailed descriptions using our part descriptions as much as possible, and video. This enables us to better assist without having the ability to see the install difficulties directly and assist you as quickly as possible.

NOTE

Expedition One does not guarantee fitment with other aftermarket products, or reinstallation of take off OEM parts.

Expedition One is NOT RESPONSIBLE for damage to paint or powder coating, items assembled in error during installation or costs associated with install

OEM manufacture model refreshes/updates, factory build location and suppliers may cause variations in fitment or installation and can not be verified, vehicle to vehicle .

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.gov

GSA# GS-30F-013CA

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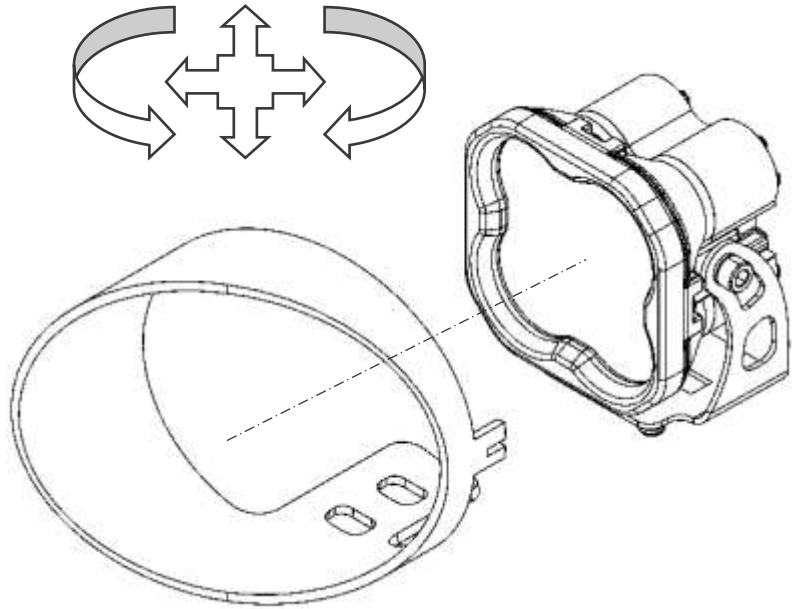
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INSTALL GUIDE

ALL

LIGHTPORTS

To give you a wide range of options from various brands and designs, the light ports were designed to be as universal as possible. Not all mounts or designs will fit exactly and may require the use of shims, spacers, light manufacture mounts or different hardware to mount. Reuse of OEM light is limited to select bumpers and will come with provided hardware to reinstall. It is recommended that lights be purchased with the bumper in hand to gain the best fitment. We **DO NOT** manufacture the lights, provided wiring, or instructions on how to connect to the OEM harness.



EXAMPLE SHOWN – LIGHT PORTS VARY

WINCHES

We use the most common bolt patterning but cannot guarantee your particular winch will fit. Because there are so many different brands on the market for winches, we typically recommend you wait until you have your bumper in-hand and ideally even installed to have specific measurements for best fit for your application. Integrated and Non-Integrated solenoid fitment varies by vehicle, model, and engine. Non-integrated solenoids will need to be relocated to an open location with-in the bumper, engine bay, or other open location. We **DO NOT** provide mounts or instruction for relocation of the solenoid. Most bumpers use a foot forward mount and will require the winch to be clocked (see winch manufacture for details). Winch plates or direct mounting locations will be provided with the bumper, see install guide for details. See winch manufacture for hardware, associated parts, or fairleads. . We **DO NOT** manufacture the winch, provided wiring, or instructions on how to connect to the vehicles power.

AFTERMARKET or OEM PRODUCTS

We **DO NOT** guarantee fitment or installation of any aftermarket, third party or OEM parts, accessories, or hardware. This includes items such as lighting, winches, skids, lifts, suspension, and accessory mounts. Access to all brands, manufactures and country of origin specific parts is limited or impossible during the product development stage and subsequent new or modified revisions of said products including OEM design changes or refreshes. It is recommended you have the product in hand and installed before modifying with other aftermarket parts. Consult forums or other sources to gain any first hand knowledge of other products others have installed.
















INSTALL GUIDE

ALL

HARDWARE

Please review for details and installation. Figures or data may vary. Leave all accessible hardware loose for installation and tighten all hardware after everything is installed on the vehicle. Check and retighten all hardware after the first 100 miles and/or after off roading. **Some hardware locations do not require being tightened to spec due to there design, location or material attachment (including rubber, plastic, and aluminum). Over tightening may break or damage parts. Torque spec may vary, amounts listed are generic.**

HARDWARE		TORQUE SPEC – FT.-LBS.	
SIZE	SOCKET WRENCH	GRADE 5 M- 8.8	GRADE 8 M – 10.9
#8	1/4"	X	
#10	5/16"		
1/4"	7/16"	6-8	9-10
5/16"	1/2"	13-14	18-20
3/8"	9/16"	23-26	33-37
7/16"	5/8"	37-41	52-58
1/2"	3/4"	57-64	80-90
9/16"	13/16"	82-91	115-129
5/8"	15/16"	112-118	159-180
3/4"	1-1/8"	200-223	282-315
7/8"	1-5/16"	322-355	454-501
1"	36MM	X	
M6	10MM	9-10	13-15
M8	13MM	22-24	32-35
M10	15MM	44-49	64-72
M12	18MM	76-83	112-123

TYPES OF HARDWARE		
		
HEX CAP BOLT	WASHER	NYLOC NUT
		
BUTTON HEAD BOLT	FENDER WASHER	HEX NUT
		
CARRIAGE BOLT	INTERNAL TOOTH	JAM NUT
		
SOCKET CAP BOLT	CLIP NUT	ACORN NUT
		
FLAT HEAD SCREW	RIVET NUT	COUPLING



GRADE5



CLASS8.8



GRADE8



CLASS10.9

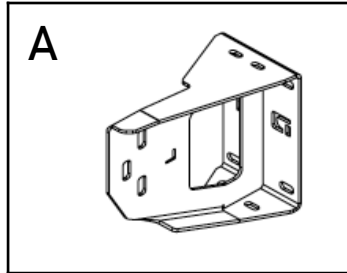
NOTE - Extra hardware may be left over due to model or option specific items that may not be required for the install.

INSTALL GUIDE

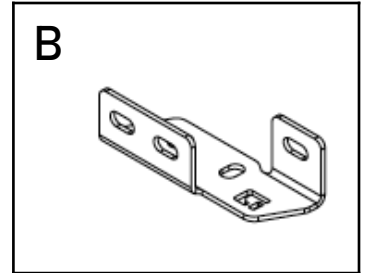
EXP911

BUMPER

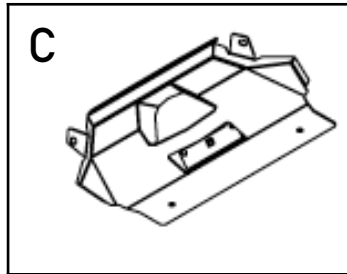
A Bumper Mount Bracket 2



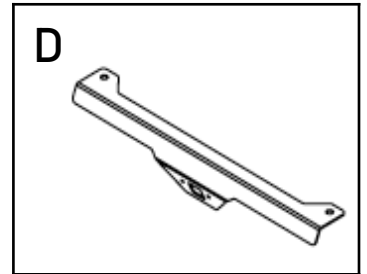
B Intercooler Bracket 2



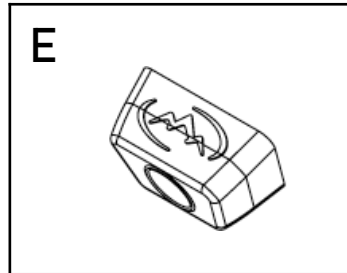
C Skid Plate 1



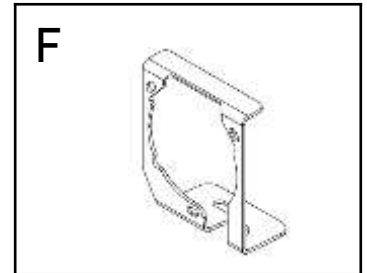
D Camera Relocation Bracket 1



E Camera Mount 1



F OEM Fog Light Bracket 2



Hardware Kit 1

1/4" - 20 x 3/4" Button Head 8

1/4" - 20 Nyloc Nut 8

5/16" - 18 x 1" Hex cap 4

5/16" - 18 x 1" Carriage Bolt 2

5/16" - 18 Nyloc 6

5/16" USS Washer 10

3/8" -16 X 2 1/2" Button Head Bolt 2

3/8" -16 Nyloc Nut 2

3/8" USS Washer 2

Intercooler Spacer 14

1/2" -13 X 1 1/2" Carriage Bolt 6

1/2" -13 Nyloc Nut 6

1/2" USS Washer 6

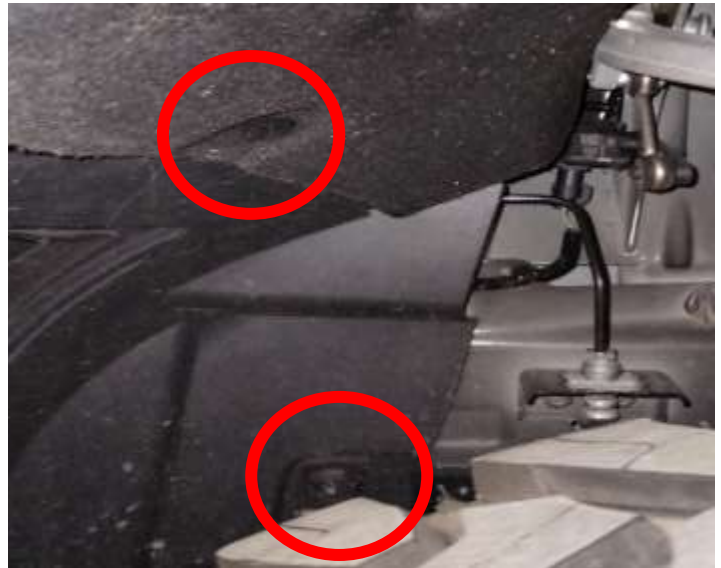
Carriage Bolt Retainer 2

Sensor Bezel 6

Wire Ties 10

1 - REMOVE OEM BUMPER HARDWARE

Remove the front bumper OEM hardware from the front wheel wells on each side of the vehicle. Extra locations may need to be unbolted to flex the fender liner (or completely remove the trim) for bumper removal, access and installation.



Unbolt the OEM hardware from the top of the grille as circled below. Save all hardware, it will be reinstalled.



2 - WIRING CONNECTIONS

Disconnect all wiring at the top of the grille,, grille shutter and main harness connect point. The OEM lights and sensors should remain attached to the bumper as part of the harness.

3 – GRILLE REMOVAL

Check for any remaining hardware connecting the bumper. Undo the clips running down the edge near the headlights. Remove the center by pulling it away from the top. Save all hardware for reinstallation. After the bumper is installed.



4 – BUMPER REMOVAL

Disconnect the bumper panels from the vehicle (finished result below). Remember to disconnect the parking sensors from the bezels and the front camera. Unbolt the large crash bar and skid plate from the front. Save all hardware for installation of new bumper.



5 – FENDER TRIMMING

Trim the underside of the fender as shown and remove the intercooler shrouds.

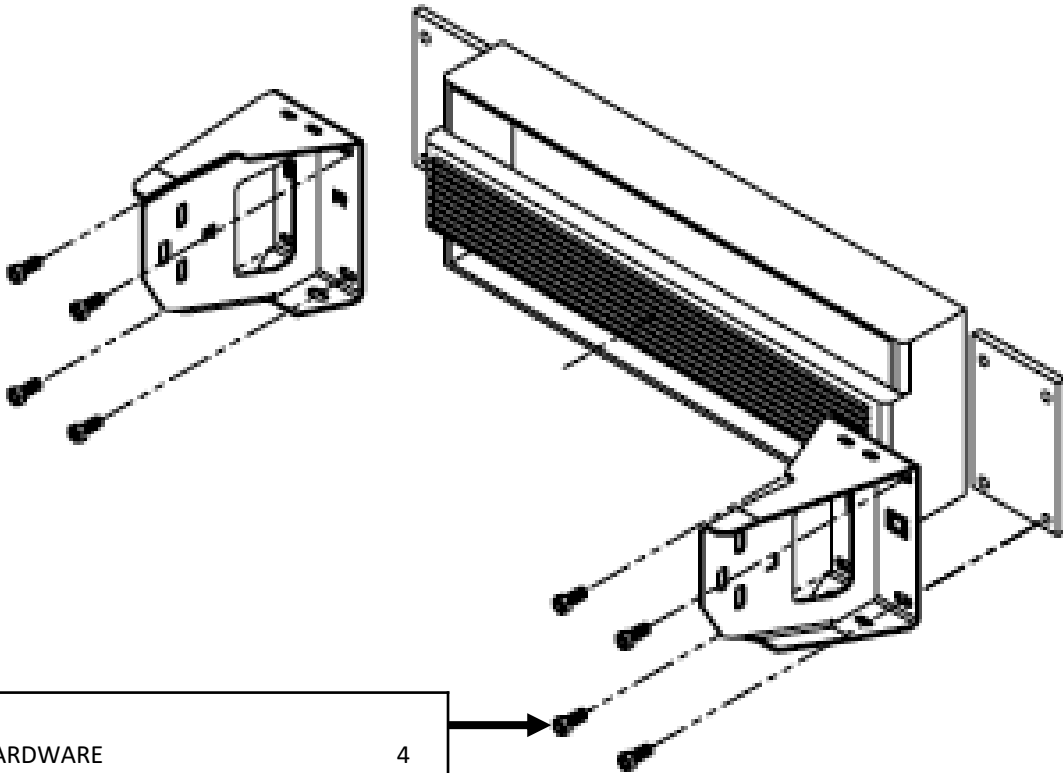


6 – REINFORCEMENT BRACKET INSTALLATION

Attach the reinforcement bracket to the frame as shown. Mount using the original hardware. Leave all hardware loose for adjustment.



6 - CONTINUED

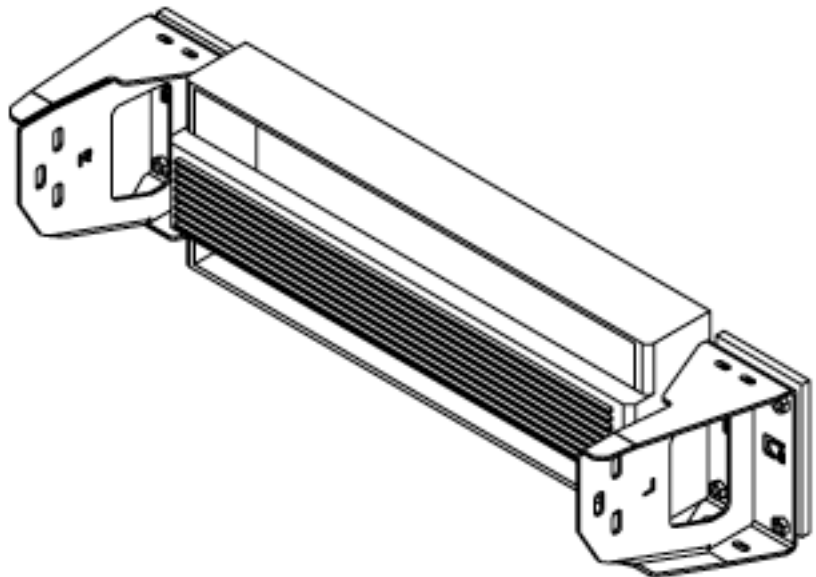


OEM HARDWARE

4

L - Attach bracket to the driver side (US Market).

R - Attach bracket to the passenger side (US Market).

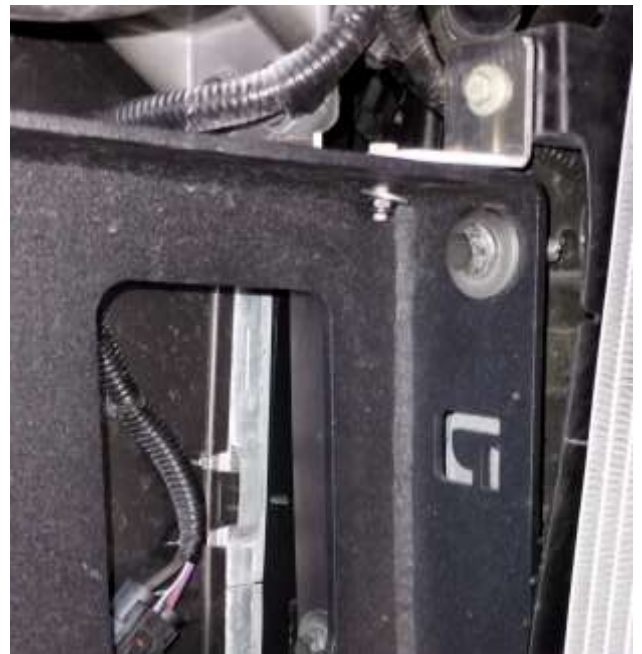
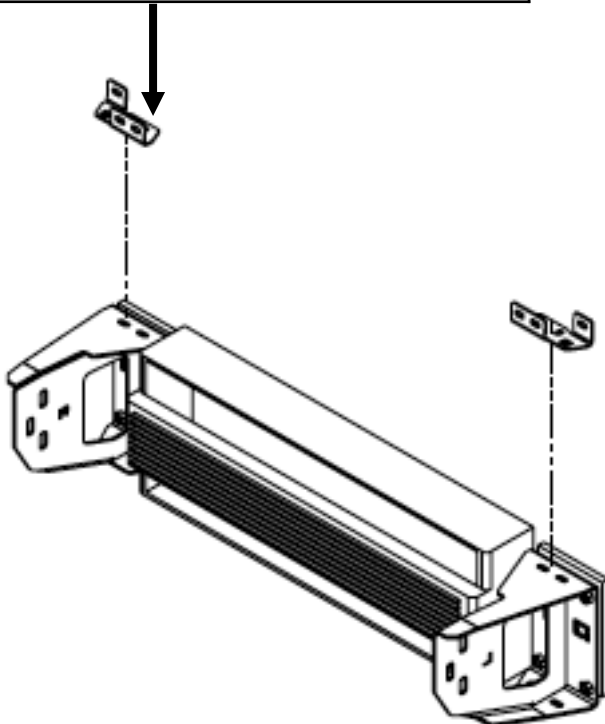


7 – INTERCOOLER BRACKET INSTALLATION

Attach the intercooler bracket on top of the frame mounts and connect to the intercoolers tabs and OEM frame point as shown. Mount using the provided 5/16" and OEM hardware.

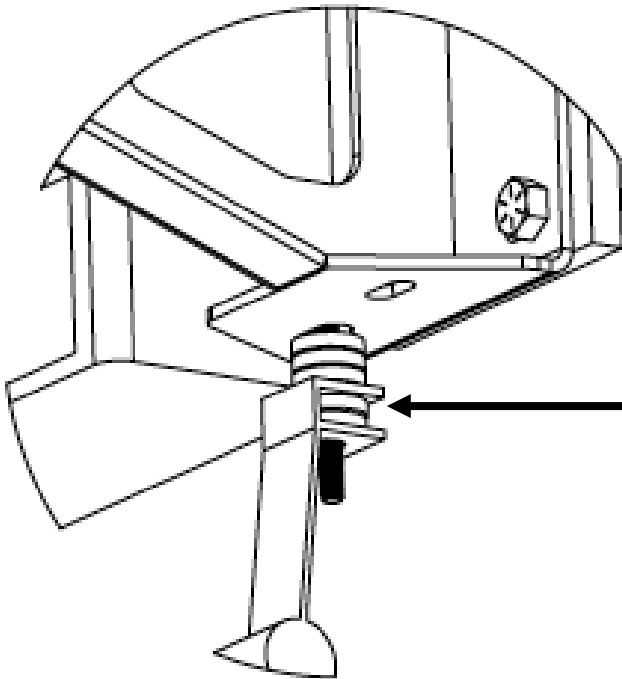
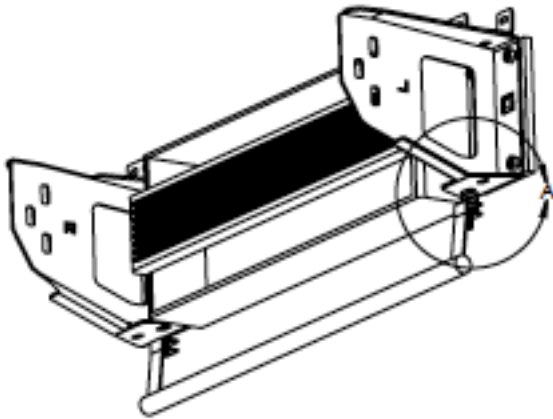


5/16" - 18 x 1" Hex cap	4
5/16" - 18 Nyloc	4
5/16" USS Washer	8



8 – LOWER BAR MOUNTING

Attach the lower bar to the bumper mount bracket as shown. Mount using the provided 3/8" hardware and spacers. Use the appropriate number of spacers to secure in place.



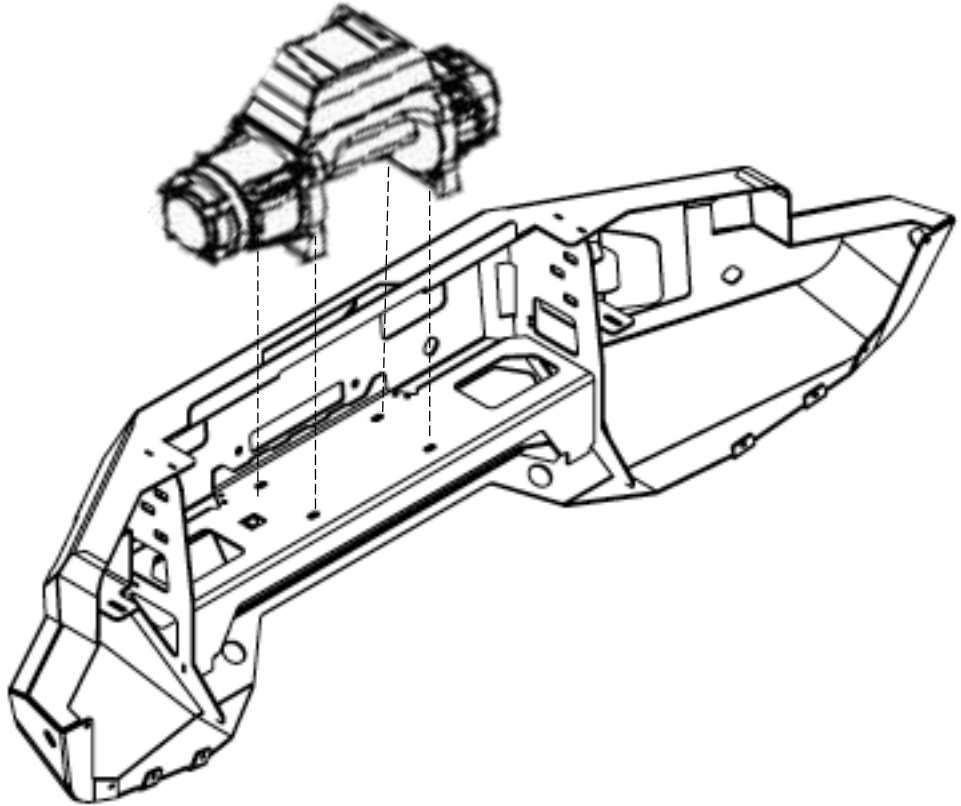
3/8"-16 X 2 1/2" Button Head Bolt	2
3/8"-16 Nyloc Nut	2
3/8" USS Washer	2
Intercooler Spacer	14

9 – WIRING HARNESS

Reconnect the wiring harness into the new bumper. Place all wiring out of the way of mounting points and hardware locations. Check that the wiring loom connectors match their original points of connection per each side of the vehicle. Install the new bezels and connect the sensors. When using the provided replacement rubber bezels use WD40 and align the fat edge directional to the pointed surface when fitting. Secure the wiring loom to with the provided ties and small hole locations

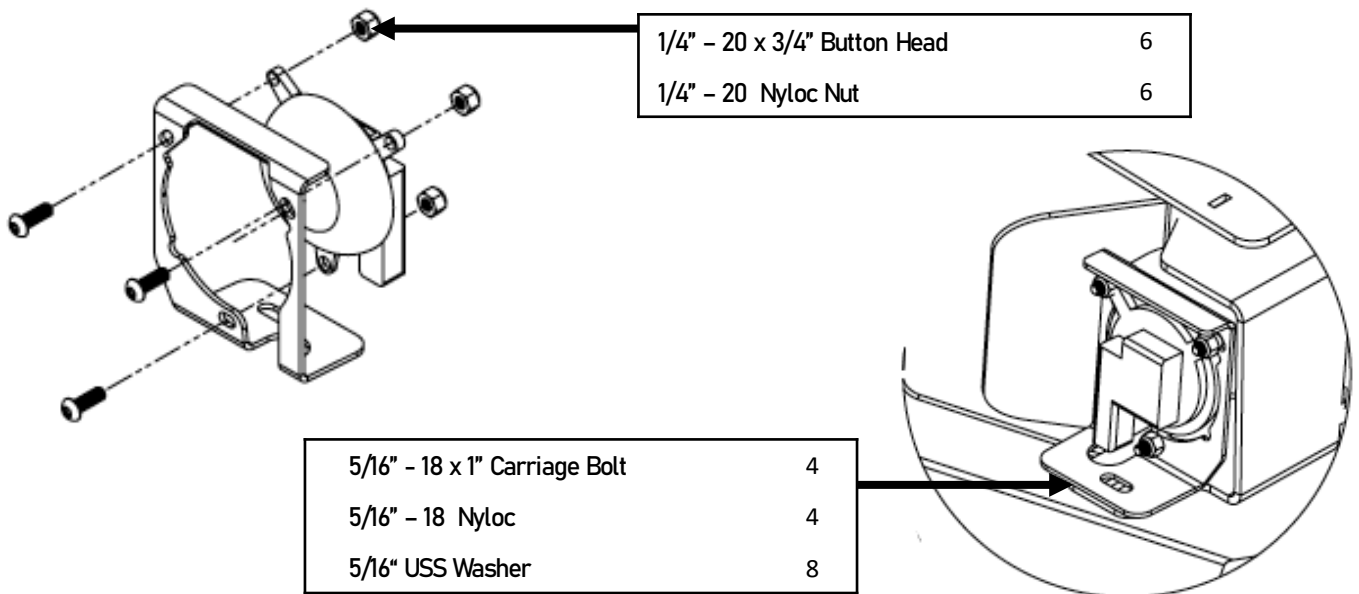
10 – WINCH INSTALLATION

Mount the winch at this time using the winch manufacture provided hardware. This will mount directly to the winch mount. Adjust as needed, and see winch section for details.



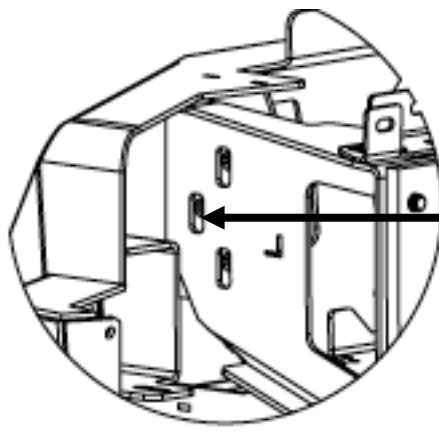
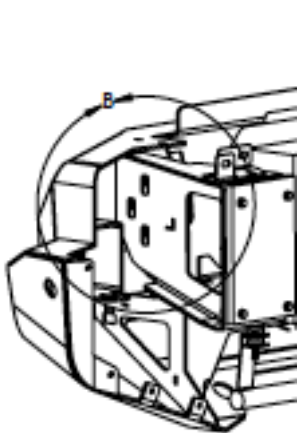
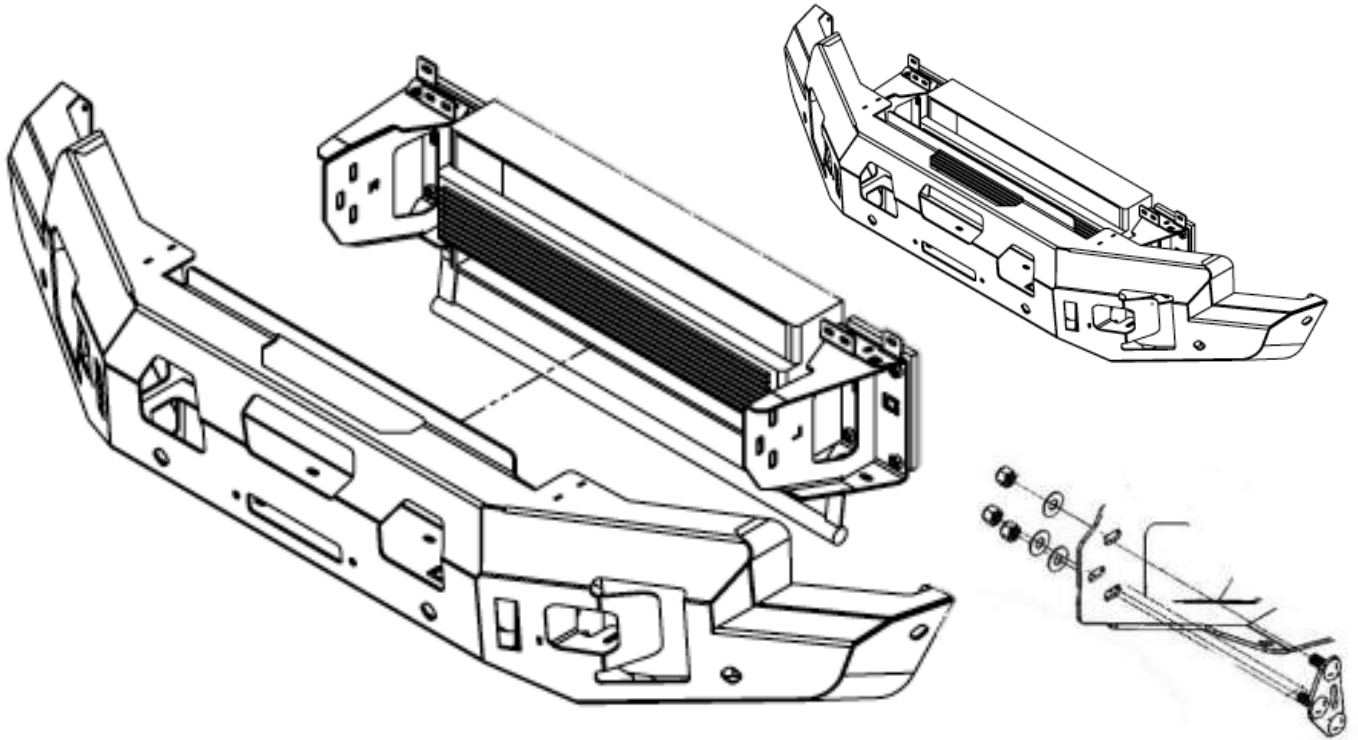
11 – OEM LIGHT INSTALLATION (OPTIONAL)

Attach the OEM fog lights to the provided brackets using 1/4" hardware. Mount to the light ports using the provided 5/16" hardware. See light section for details on aftermarket lights.



11 – BUMPER MOUNTING

Mount the bumper as shown using the provided 1/2" hardware. Center the bumper with the vehicle and align gaps between the body and bumper to your preference before mounting. Leave all hardware loose for adjustment.



DETAIL B
SCALE 1 : 4

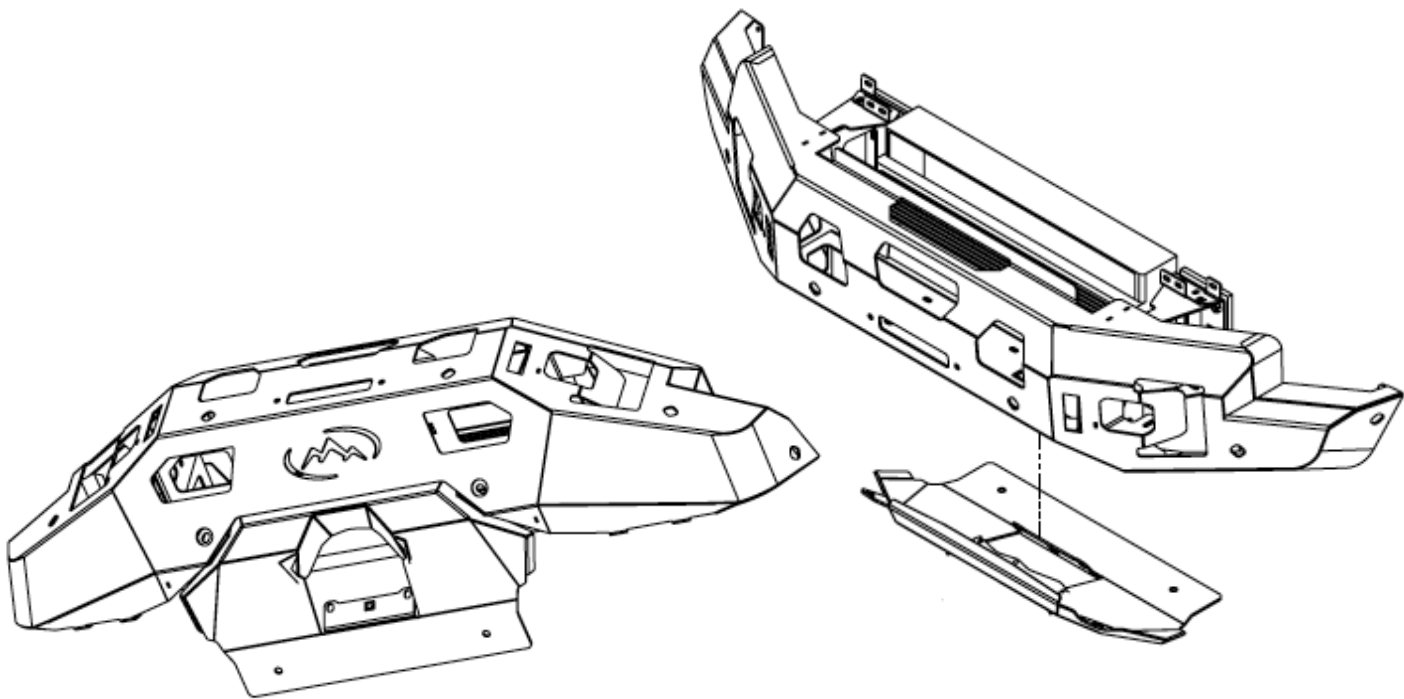
1/2" – 13 x 1 CARRIAGE BOLT	6
1/2" – 13 NYLOC NUT	6
1/2" USS WASHER	6

12 – TIGHTEN HARDWARE

Adjust the bumper to its desired location and **TIGHTEN HARDWARE**. Check that all hardware is tightened including all brackets and mounting locations. Bend the fender flares behind the bumper edge or trim to Preference.

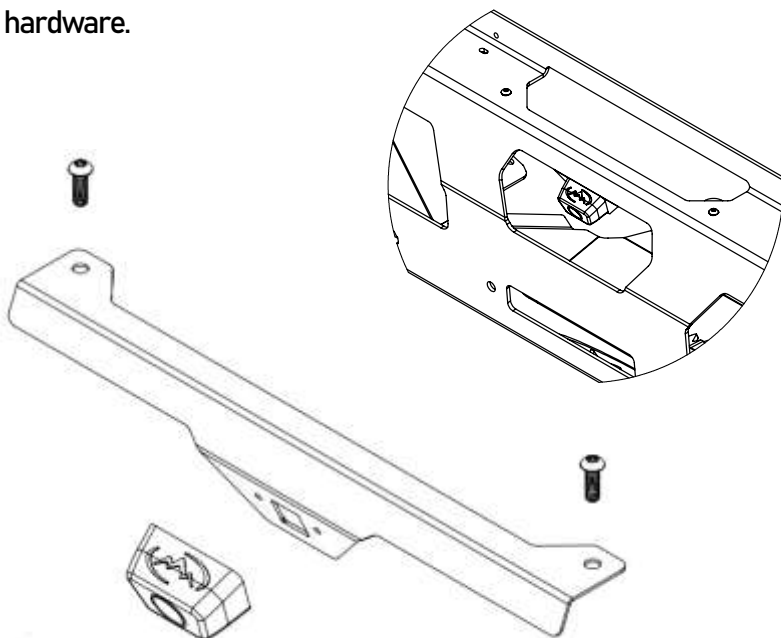
13 – SKID PLATE MOUNTING

Mount the skid plate as shown using the OEM hardware.. Locations circled below.



14 – CAMERA MOUNTING

Insert the camera and washer into the provided camera mount. Attach the camera mount to the relocation bracket and secure with the provided hardware. Mount the bracket as shown to the bumper with 1/4" hardware.



TIGHTEN ALL HARDWARE

Adjust the bumper to its desired location and TIGHTEN HARDWARE. Check that all hardware is tightened including all brackets and mounting locations. Reconnect the parking sensor wiring harness and other connections to the vehicles electronics and secure all loose wiring. Check that everything is working and adjust if needed before driving on the road.

ADDITIONAL LINKS

<https://www.exp-one.com/wp-content/uploads/2016/10/Proper-Care-and-Maintenance.pdf>

<https://www.exp-one.com/wp-content/uploads/2016/10/Paint-touch-up-instructions.pdf>

<https://www.exp-one.com/wp-content/uploads/2018/02/Exp-One-2016-TC-word-doc.pdf>

**TIGHTEN ALL HARDWARE AFTER EVERYTHING IS INSTALLED ON THE VEHICLE
CHECK AND RETIGHTEN ALL HARDWARE AFTER THE FIRST 100 MILES AND AFTER
OFF ROADING. CHECK REGULARLY**