

INSTALLATION GUIDE

RAM 1500 19+ Crew Cab Mule Ultra Rack



EXPEDITION ONE

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SKILL LEVEL - 4 STARS



1 STAR

EASY - No tools required

2 STARS

BASIC - Requires standard tools, basic mechanical knowledge and understanding

3 STARS

MODERATE - Requires standard tools. Some drilling and/or cutting.

4 STARS

ADVANCED - Requires speciality tools. Drilling, cutting, and/or welding

5 STARS

EXPERT - Professional installation recommended.

DISCLAIMER

Expedition One is not responsible for any damages to vehicle or injury.

We always recommend professional assistance when installing our vehicle products.

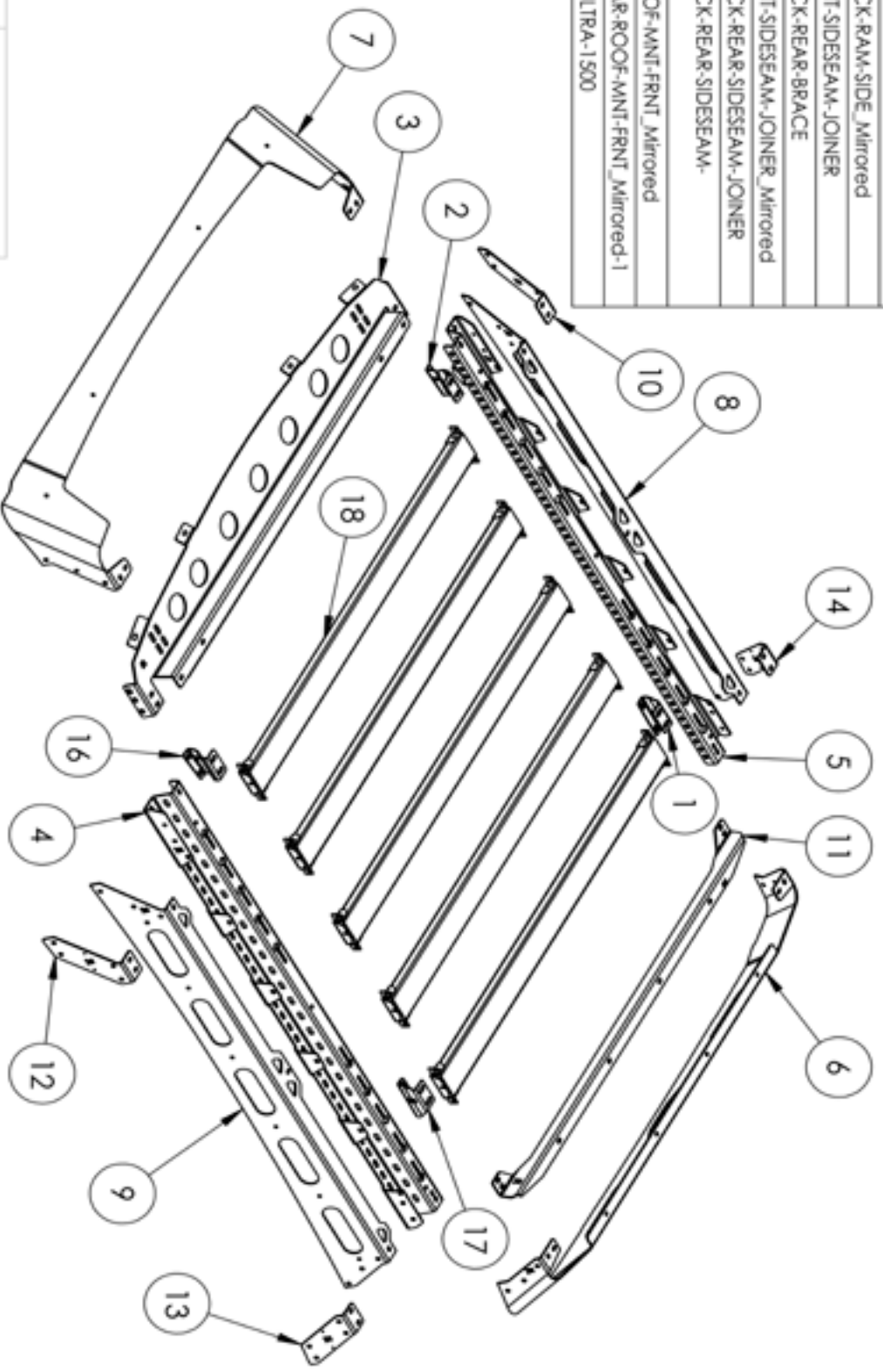
Always follow safety precautions including the use safety gear and devices.

NOTE

Due to the nature of aluminum, rack pieces including fascia parts may require time to “relax” or return to shape before mounting.

Do not force parts into place. Leave all hardware loose before tightening to allow for adjustment.

QTY.	PART NUMBER
1	Assem3\RAM19-ULTRA-1500-RACK-ASM
1	Assem1\RAM19-ULTRA-1500-RACK-ASM
1	ML-RAM19-15-RACK-FRONT-RE
1	ML-ULTRA-RAM19-15-RACK-MNT-PROFILE_Mirrored
1	ML-ULTRA-RAM19-15 RACK-MNT-PROFILE
1	ML-RAM19-15-RACK-REAR
1	ML-RAM19-15-RACK-FRONT-LTBR
1	ML-RAM19-15-RACK-RAM-SIDE
1	ML-RAM19-15-RACK-RAM-SIDE_Mirrored
1	ML-RAM19-15-FRNT-SIDSEAM-JOINER
1	ML-RAM19-15-RACK-REAR-BRACE
1	ML-RAM19-15-FRNT-SIDSEAM-JOINER_Mirrored
1	ML-RAM19-15-RACK-REAR-SIDSEAM-JOINER
1	ML-RAM19-15-RACK-REAR-SIDSEAM-JOINER_Mirrored
1	RAM19-ULTRA-ROOF-MNT-FRNT_Mirrored
1	RAM19-ULTRA-REAR-ROOF-MNT-FRNT_Mirrored-1
5	Assem6\RAM19-ULTRA-1500



HARDWARE

HARDWARE

ITEM	QTY
Mounting Brackets	4
A - Mule Ultra Truck Hardware Kit	
1/4"-20 X 1/2" Button Head Bolts	16
1/4"-20 X 3/4" Button Head Bolts	48
1/4"-20 Nylock Nuts	64
5/16"-18 X 3/4" Hex Cap Bolts	8
5/16"-18 X 3/4" Button Head Bolts	38
5/16"-18 X 2 1/2" Button Head Bolts	6
5/16"-18 Nylock Nut	44
5/16" Flat Washer	8
B - Riv Nut Hardware Kit	
1/4"-20 X 3/4" Hex Cap Bolts	8
1/4"-20 X 2" Hex Cap Bolt	1
1/4"-20 X 3/8" Riv Nut	8
1/4" X 0.625" SAE Washers	10
1/4" Serrated Crimp Washer	1
3/8" X 1.125" Coupler Nut	1
Riv Nut Crimp Tool	1
C - Spacer Kit (For Leveling as Needed)	
Round Spacer	10
Rectangular Spacer	8
Tube Spacer	6
D- Weather Stripping - 63"	1
- Foam Stripping - 18"	1



RACK ASSEMBLY

ATTENTION

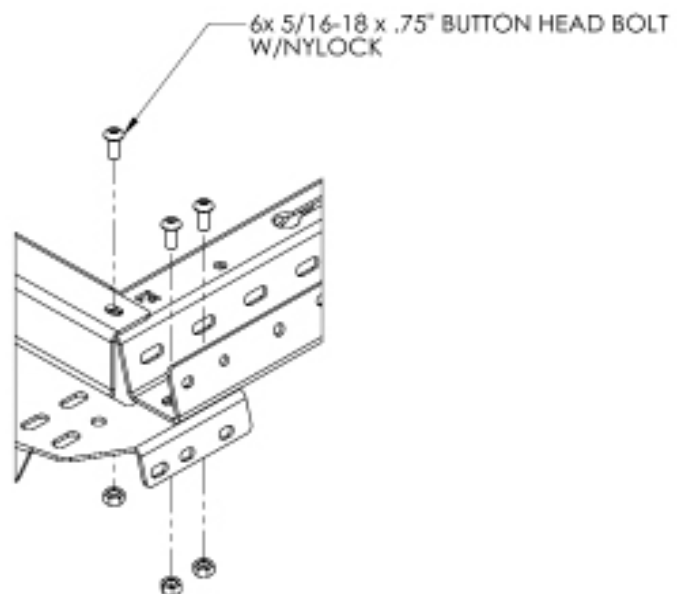
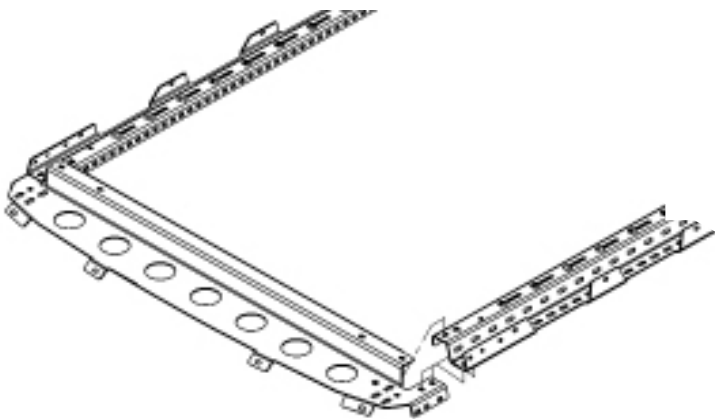
When assembling the Mule Ultra Rack, remember to hand-tighten all bolts relatively loose until the very end of the install. This allows everything to fit into place before everything is tightened down.

1 OEM ROOF RACK REMOVAL

Remove the OEM roof rack from the vehicle by undoing the hardware located at each mount.

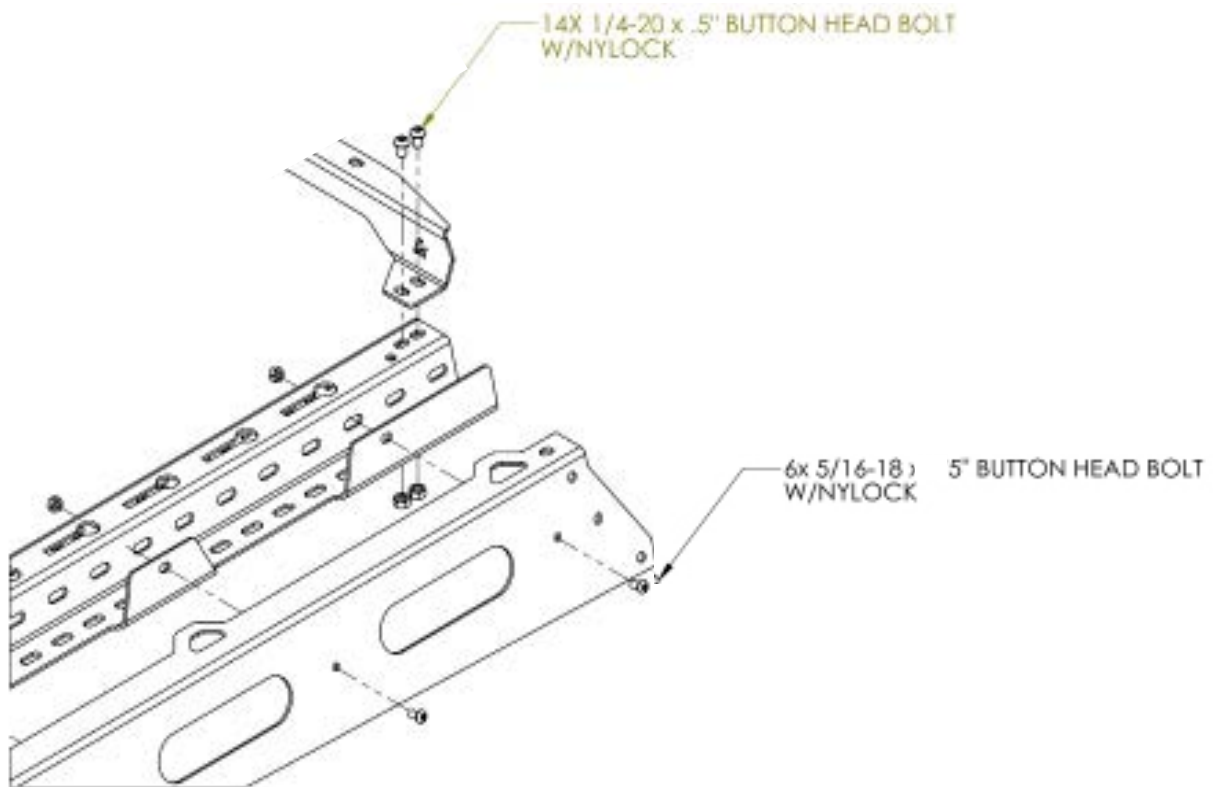
2 FRONT AND SIDE BRACES MOUNTING

Lay out the front and side braces as shown. Mount the braces together using the 5/16" bolts and nuts.

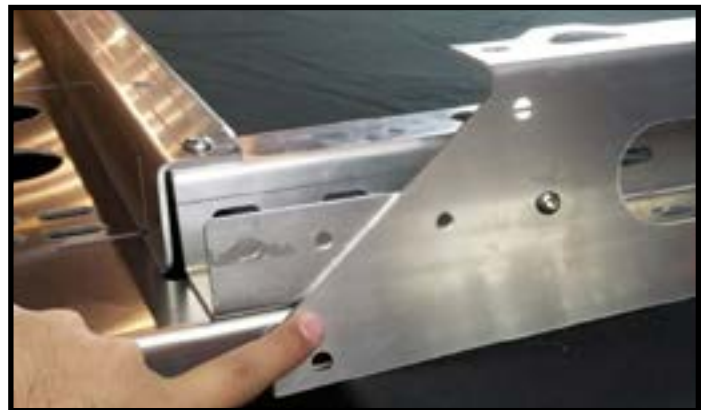


3 REAR BRACE AND SIDE FASCIA MOUNTING

Attach the rear brace using the provided 1/4" hardware. Mount the side fascis with 5/16" hardware on both sides as shown below.

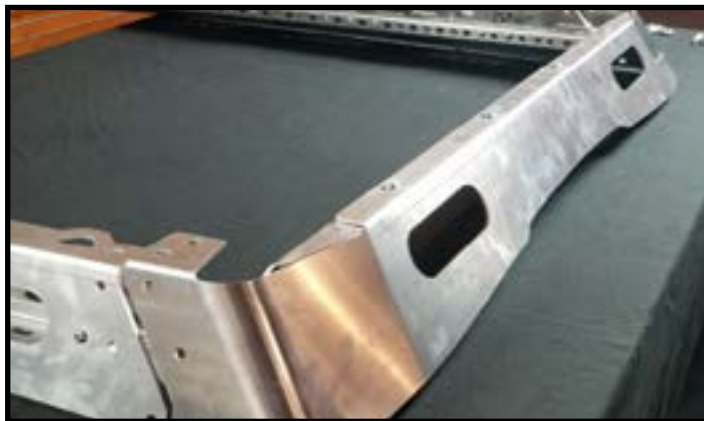


SIDE FASCIA CONTINUED

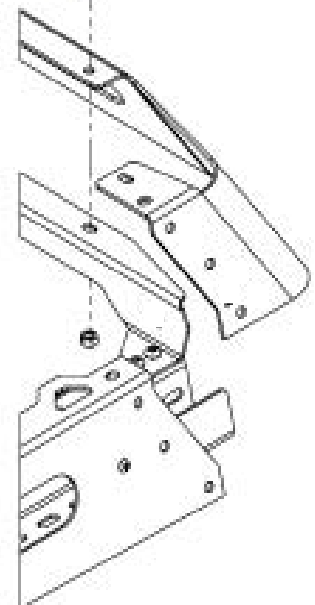


4 REAR FASCIA MOUNTING

Attach rear fascia as shown with 5/16" bolts and nuts.



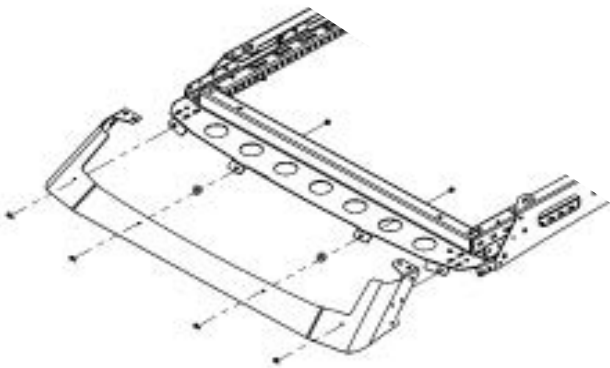
4X 3/8-16 x .75" BUTTON HEAD BOLT
W/NYLOCK



5 FRONT FASCIA MOUNTING

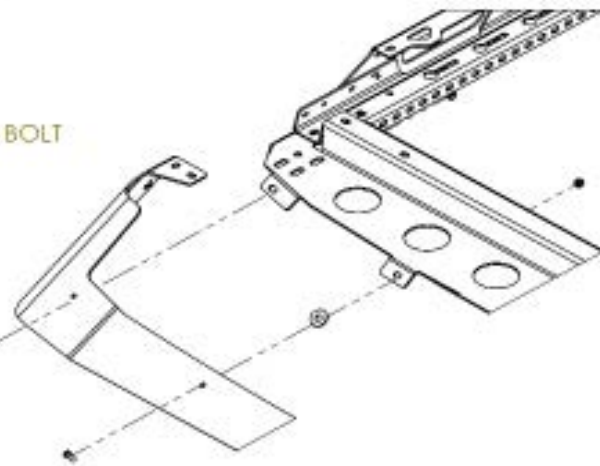
Attach the front fascia using 1/4" bolts. Use the provided round spacers to adjust the front fascia to match the curve of the roof when test fitting the roof rack during mounting.

NOTE: IF YOU HAVE A FASCIA WITH A LIGHT BAR CUTOUT, WE RECOMMEND INSTALLING THE LIGHT BAR PRIOR TO MOUNTING THE ROOF RACK.



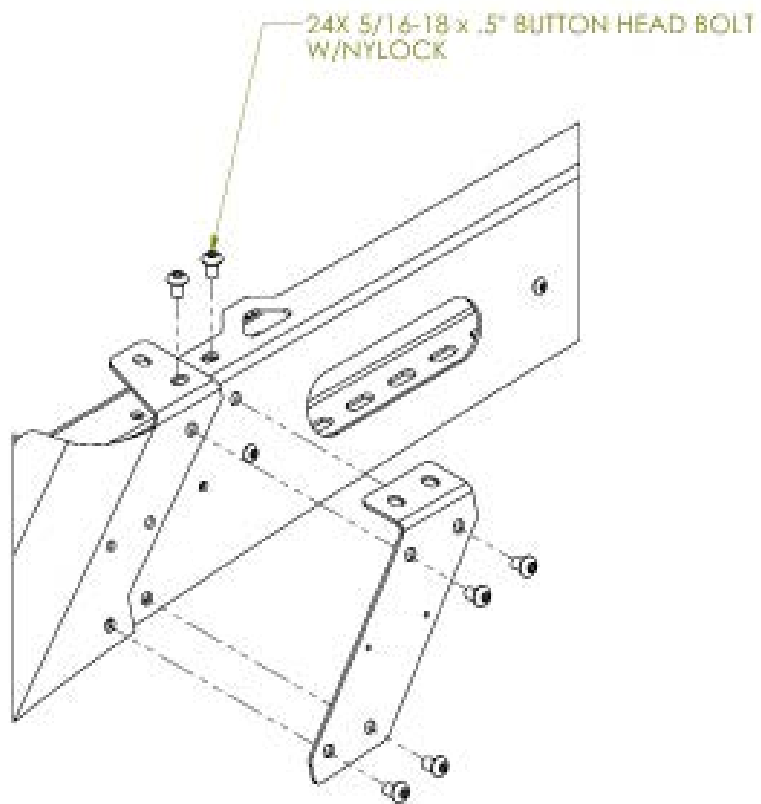
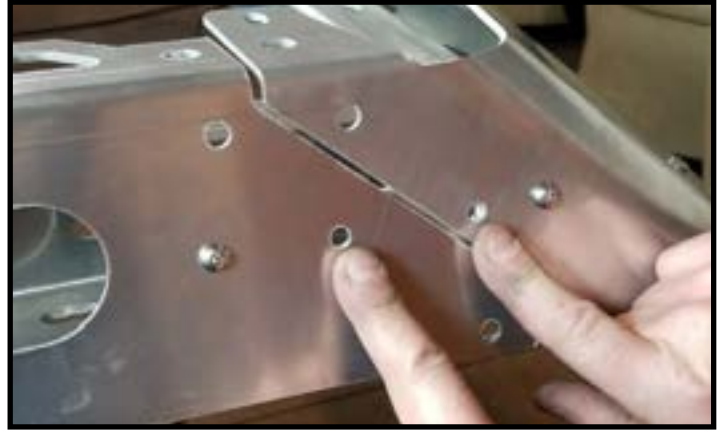
Install the weather stripping to the bottom of front fascia as shown and trim any excess.

4X 1/4-20 x .75" BUTTON HEAD BOLT
W/NYLOCK



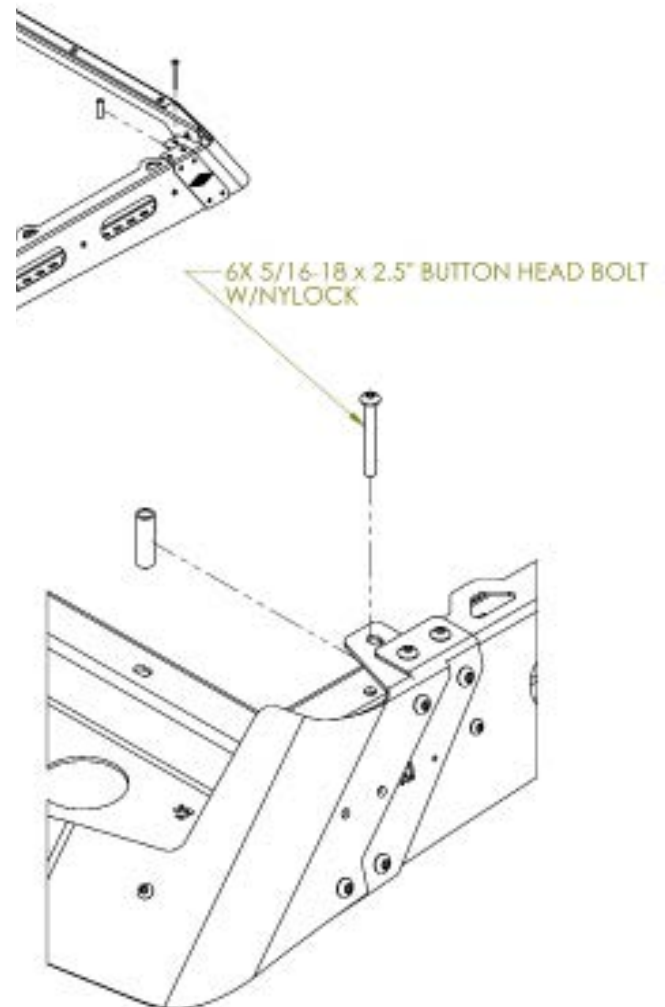
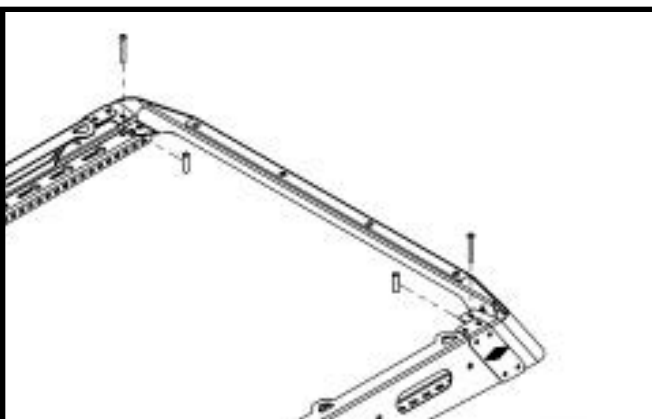
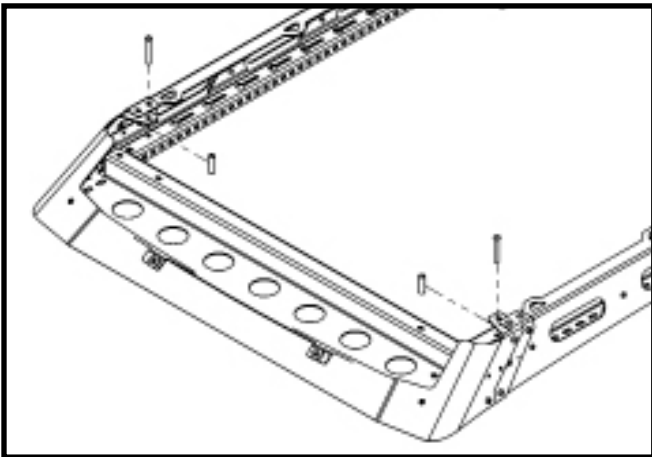
6 SEAM JOINERS

Mount both front and rear seam joiners with 5/16" hardware as shown top and bottom.



7 REINFORCEMENT SPACERS

Attach reinforcement spacers as shown on all 6 hole locations (3 each side) with the provided hardware.



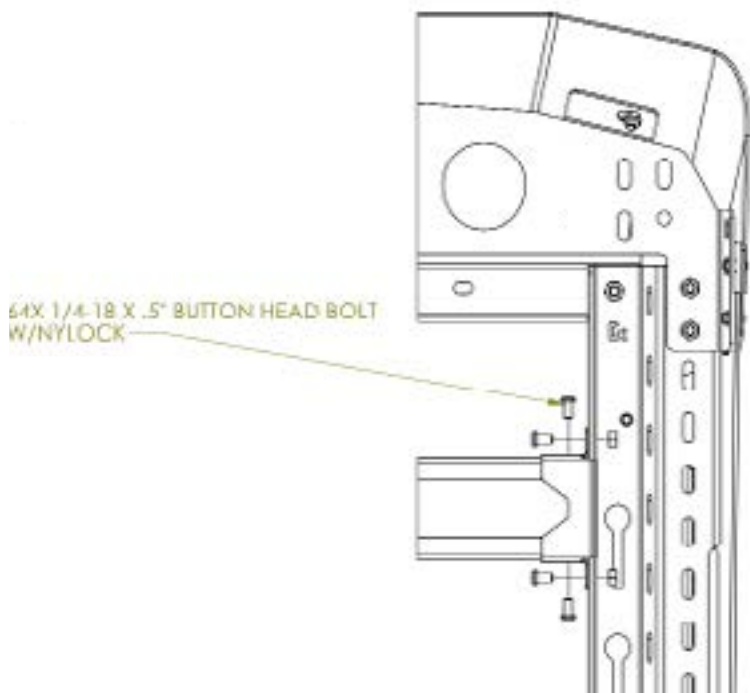
8 LOAD BAR ASSEMBLY

Assemble the load bars with the provided mounts using 1/4" bolts and nuts. Repeat for all load bars.



9 LOAD BAR INSTALLATION

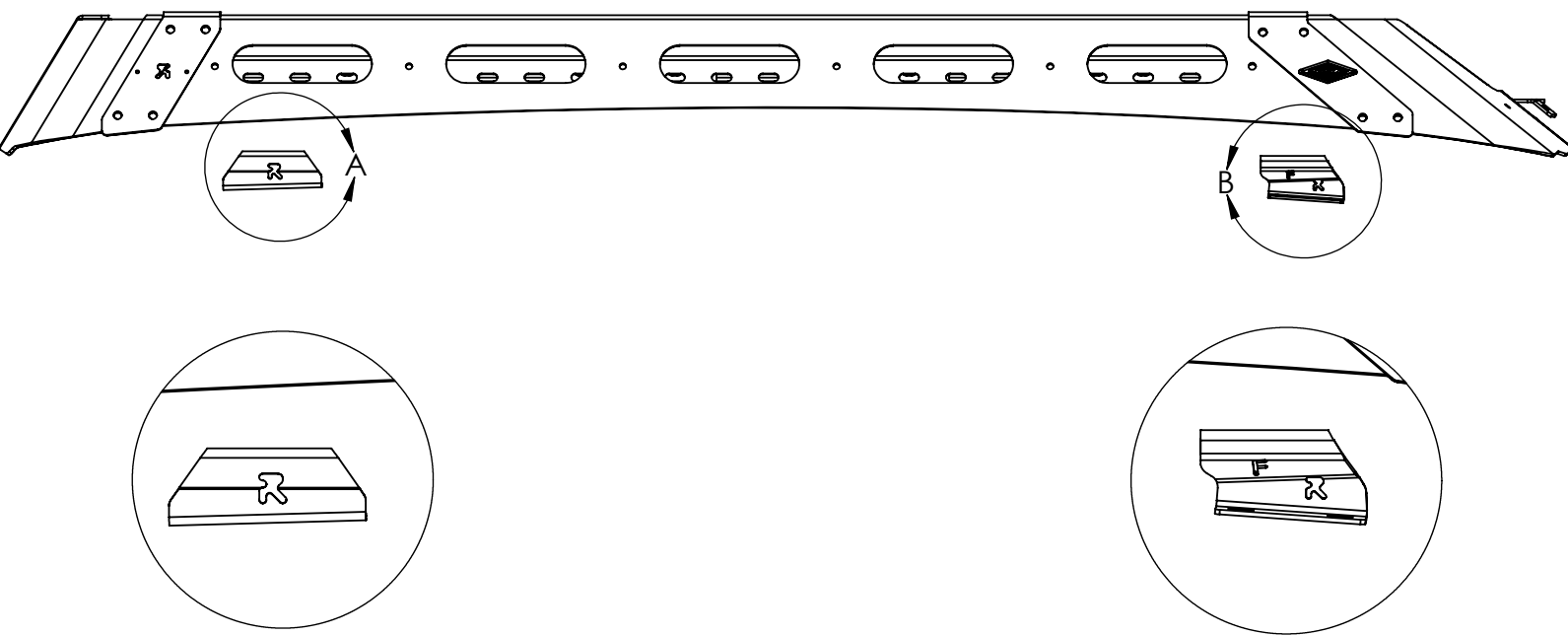
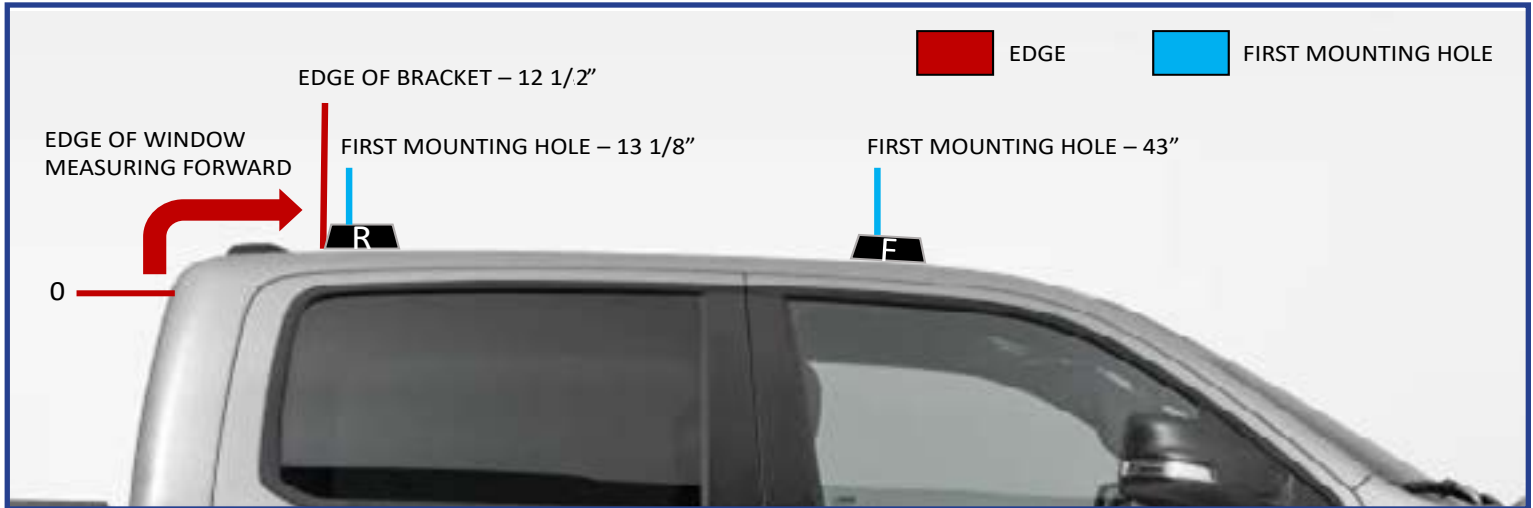
Flip roof rack over and attach load bars as shown. Using provided nuts and bolts, you may begin tightening down each load bar with two bolts and nylocs for each side.



ROOF RACK MOUNTS

10 MOUNTING BRACKET LOCATIONS

REFERENCE DIAGRAM





OEM TRIM

Remove the OEM trim from the roof. Save the trim and cut to fit around the brackets later after all locations have been marked and drilled.

REAR MOUNTS - (R marking)

Measure from the edge of the rear window, following the curve of the roof. The start of the bracket location should measure 12 1/2". Placing the mounting bracket on the roof, and mark with a sharpie the hole locations for drilling. Verify the first hole location is at 13 1/8" before marking the locations and repeat for the other side of the vehicle.



FRONT MOUNTS - (F marking)

Measure from rear brackets first hole forward to place the front mount. The start of the first hole location should measure 43". Repeat for the other side of the vehicle.



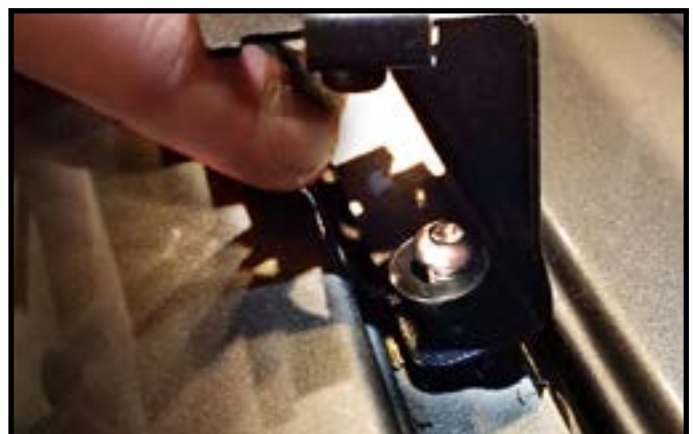
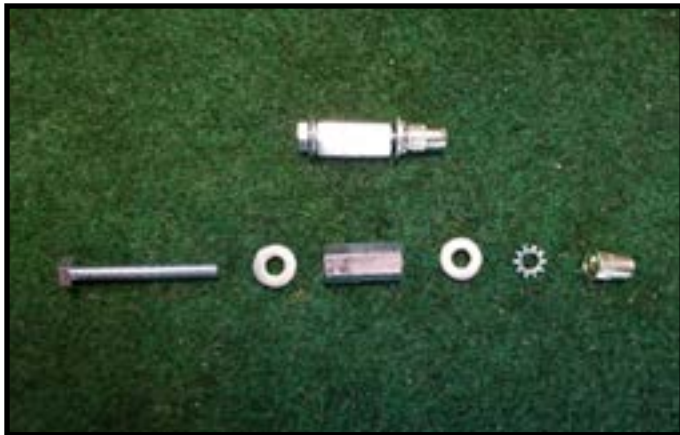
OEM TRIM

Cut to fit the OEM trim from the roof to fit around the brackets later after all locations have been marked and drilled. Replace before mounting the rack.

DRILLING HOLE LOCATIONS

11 MOUNTING HOLES

With the hole locations marked, drill each hole to roughly 3/8" in size. Next, add some caulk sealant to riv nut as shown. (this will help seal the nut into the roof from the elements). with two wrenches, begin twisting your riv nut down into the roof until you feel it 'sit' snug. Then go ahead and hold the bottom wrench in place and twist off the long bolt. Your riv nut should remain firmly in place. Continue this with the other drilled hole and then repeat these steps for the other rear side of vehicle. Cover the mount locations with the provided foam strip and mount the brackets using the provided hardware.



12 ROOF RACK MOUNTING

Place the roof rack onto vehicle with help of a friend and align with each bracket. Use the provided 5/16" bolts and washers for each mount hole location and tighten down roof rack to each bracket as shown below. Spacer kit may be used to level and adjust the roof rack. Tighten all hardware once completed.

