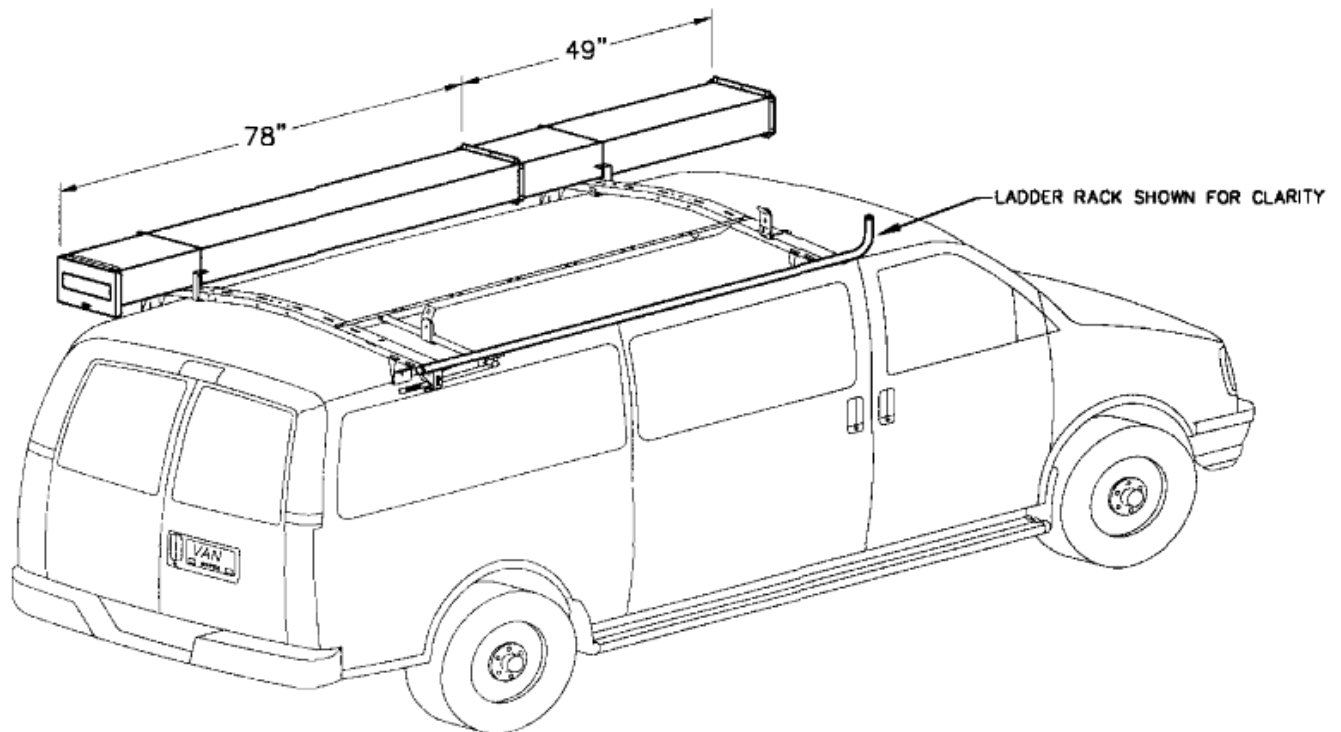


**Introduction / Comments:**

ALUMINUM CONDUIT CARRIER  
ASSEMBLY & INSTALLATION INSTRUCTIONS

**Note:**

It is advised that all fasteners used in this assembly and installation should be checked for tightness at the following intervals: @ 2-weeks and again @ 6-weeks of operation. This preventive maintenance step must be completed to ensure your Product gives you long service life.



80-1 CONDUIT KIT, ALUM 10' 6" (SHOWN)  
80-2 CONDUIT KIT, ALUM 12' 6"

## - PRECAUTIONS -



**CAUTION**  
THE USE OF AIR IMPACT TOOLS CAN  
OVER-TORQUE FASTENERS AND  
CAUSE FASTENER FAILURE!



**CAUTION**  
ALL INSTALLATION HOLES SHOULD BE SEALED  
WITH SILICON OR BUTYL SEALANT TO PREVENT  
EXHAUST FUMES FROM ENTERING THE VEHICLE!



**DANGER**  
INSPECT FOR FUEL TANK, FUEL LINES, BRAKE LINES, HIGH  
VOLTAGE BATTERIES AND ELECTRICAL LINES PRIOR TO  
DRILLING TO AVOID DAMAGING CRITICAL VEHICLE SYSTEMS  
OR INJURY TO INSTALLER DURING INSTALLATION PROCESS!



**CAUTION**  
TO AVOID DAMAGING THE VEHICLE ALWAYS USE DRILL  
STOPS WHEN DRILLING ANY INSTALLATION HOLES!  
ADRIAN AVAILABLE PART #'S 31121-0 (3/8" X 1/2"  
DEEP), 31121-0 (1/2" x 1/2" DEEP)



## - IMPORTANT WARRANTY REQUIREMENTS -

1. SUBSTITUTING ADRIAN STEEL SPECIFIED FASTENERS FOR ASSEMBLY AND/OR INSTALLATION WILL VOID YOUR PRODUCT WARRANTY.
2. ALL HOLES DRILLED INTO VEHICLE SHOULD HAVE THE RAW METAL EDGES SEALED WITH A SELF-ETCHING PRIMER TO RESIST CORROSION AND POTENTIAL FASTENER POINT FAILURE.
3. ALL FASTENERS USED IN THE INSTALLATION OF THIS PRODUCT SHOULD BE TIGHTENED TO THE TORQUE(S) SPECIFIED IN THESE INSTRUCTIONS.
4. THESE INSTRUCTIONS SHOULD BE KEPT WITH THE VEHICLE.

### THE BASIC TOOLS NEEDED FOR MOST INSTALLATIONS



DRILL



DRILL BIT WITH  
STOP



RATCHET, SOCKETS  
AND/OR WRENCHES



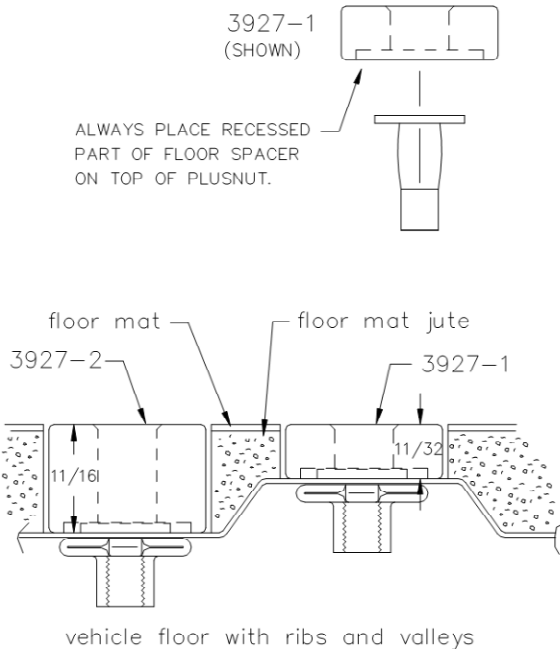
SCREWDRIVERS



MEASURING TAPE

ADDITIONAL TOOLS MAY BE NEEDED FOR THIS INSTALLATION AND THEY WILL BE IDENTIFIED IN THE STEPS THAT FOLLOW.

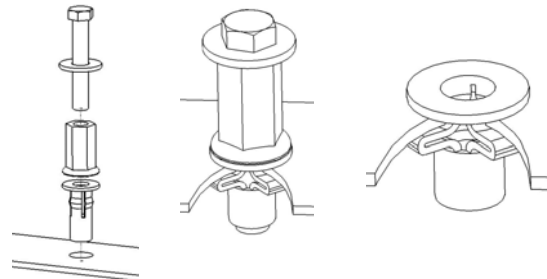
If your vehicle contains carpet or a rubber floor mat you will need to prepare the mounting location. Position the product to be installed into the vehicle and once you are satisfied with the mounting locations, mark the mounting locations. Using a 1-3/16" diameter carpet cutter (P/N: 31183-0). Select the appropriate floor spacers as shown in the illustration. Set those aside for use later into the installation process. Using the correct drill bit size for the selected plusnut, drill the mounting holes in the vehicle sheet metal to prepare for installing the plusnuts. If you are thru-bolting at any of the locations simply drill a hole that is 1/16" larger than the bolt size(s) for those locations. Once you have drilled the holes into the vehicle, the raw metal edges should be sealed using a self-etching primer to resist corrosion and potential fastener point failure.



A PLUSNUT (RIVNUT) SETTING TOOL IS REQUIRED FOR PLUSNUT (RIVNUT) INSTALLATION . PLUS NUT SETTING TOOL CAN BE ORDERED THROUGH ADRIAN STEEL, OR USE AN AIR POWERED PLUSNUT SETTING GUN.

1/4-20UNC Plusnut (FAS0052) Use 3/8" dia. drill w/stop  
 FAS0080 SCREW, HXHD, 1/4-20UNCx2.00", G8  
 FAS0067 WASHER, FLAT, 1/4"ID  
 22200-0 PLUSNUT TOOL

5/16-18UNC Plusnut (FAS0091) Use 1/2" dia. drill w/stop  
 FAS0095 SCREW, HXHD, 5/16-18UNCx2.00", G8  
 FAS0086 WASHER, FLAT, 5/16"ID  
 22200-0 PLUSNUT TOOL



Place barrel of the plusnut body in sheet metal thru hole until flange is flush with sheet metal. Using a 9/16" combination wrench of plusnut tool body and a second hand wrench, ratchet, or air tool, rotate the hex bolt head CW to draw plus nut flanges up (set the plusnut).

**⚠ WARNING**

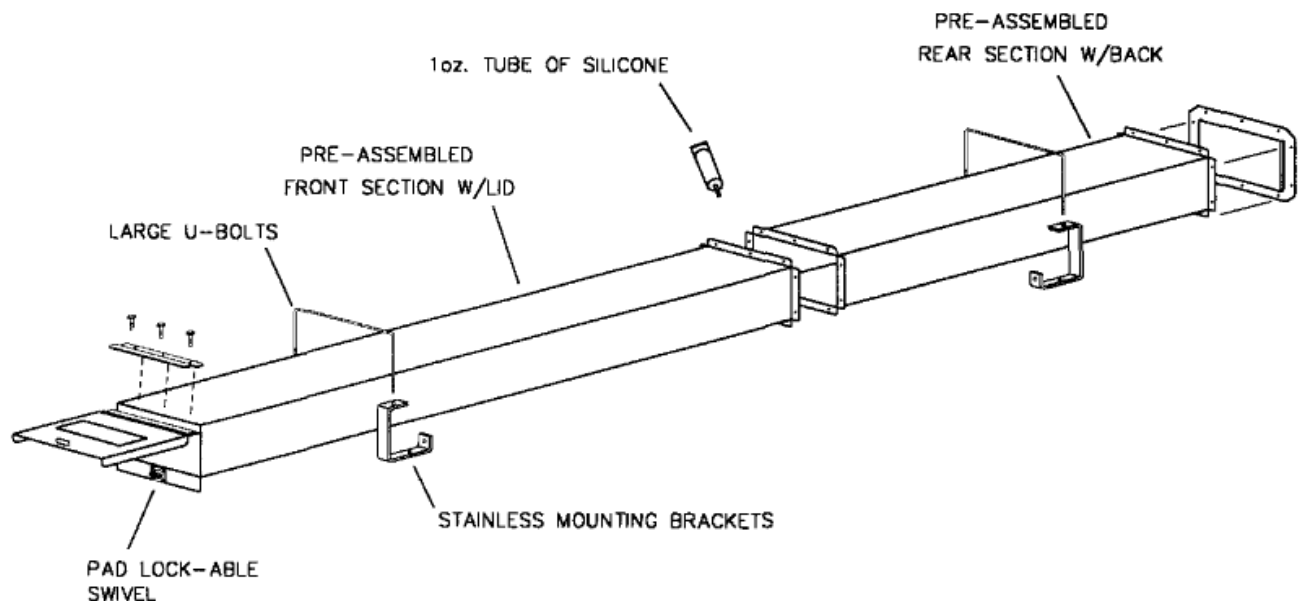
- TOO MUCH WEIGHT WILL GREATLY REDUCE THE STABILITY OF YOUR VEHICLE. WEIGHT CARRIED ON AN OVERHEAD RACK WILL SIGNIFICANTLY INCREASE THE VEHICLE'S TENDENCY TO OVERTURN. ADRIAN STEEL CO. MAKES NO REPRESENTATION OR WARRANTY AS TO THE AMOUNT OF WEIGHT THAT CAN BE CARRIED SAFELY BY OR WITHOUT DAMAGING THE BODY OF YOUR VEHICLE.
- THIS PRODUCT IS ONLY INTENDED FOR, AND ONLY SAFE FOR, STORING AND TRANSPORTING TUBING, PIPE AND CONDUIT. ANY MODIFICATIONS MADE TO THIS PRODUCT, OR USE OF THIS PRODUCT FOR ANY OTHER PURPOSE THAN ITS INTENDED USE, COULD CREATE A HAZARDOUS CONDITION THAT CAN CAUSE SERIOUS PERSONAL INJURY OR PROPERTY DAMAGE.

THANK YOU FOR PURCHASING THIS ALUMINUM CONDUIT CARRIER FROM ADRIAN STEEL CO. BEFORE YOU BEGIN ASSEMBLY, PLEASE READ THESE INSTRUCTIONS COMPLETELY. THANKS!

BOLT KIT	
Bolt Kit BAG20934-0 IS INCLUDED WITH YOUR CONDUIT CARRIER. CHECK THE CONTENTS OF THIS KIT TO MAKE SURE YOU HAVE ALL THE PARTS.	
QTY.	DESCRIPTION
(14)	1/4-20 ELASTIC LOCK NUT
(24)	1/4 PLAIN FLAT WASHER
(14)	1/4-20x3/4 HEX HEAD BOLT
(4)	1/4-20 THREADED COLLAR
(2)	DOOR SEAL (ROLL)
(1)	1oz. TUBE OF SILICONE

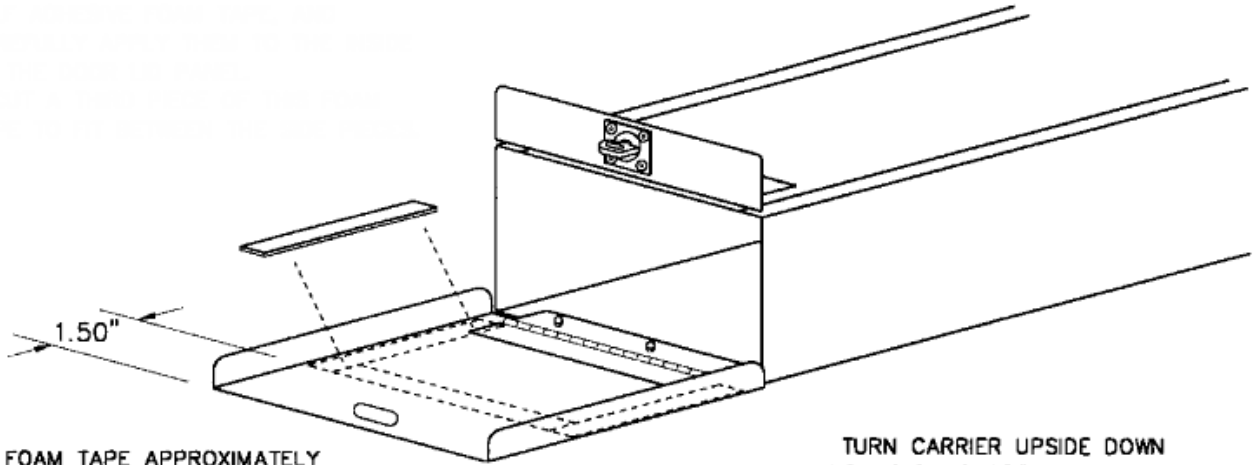
PARTS LIST	
QTY.	DESCRIPTION
(1)	FRONT SECTION W/LID
(1)	REAR SECTION W/BACK
(2)	LARGE U-BOLTS
(4)	STAINLESS MOUNTING BRACKETS

TOOLS REQUIRED
7/16" OPEN END WRENCH (2)
RAZOR KNIFE OR SCISSORS
TAPE MEASURE & PENCIL



**Step 01** Cut two 6" pieces of the black self adhesive foam tape, and carefully apply them to the inside of the door lid panel.

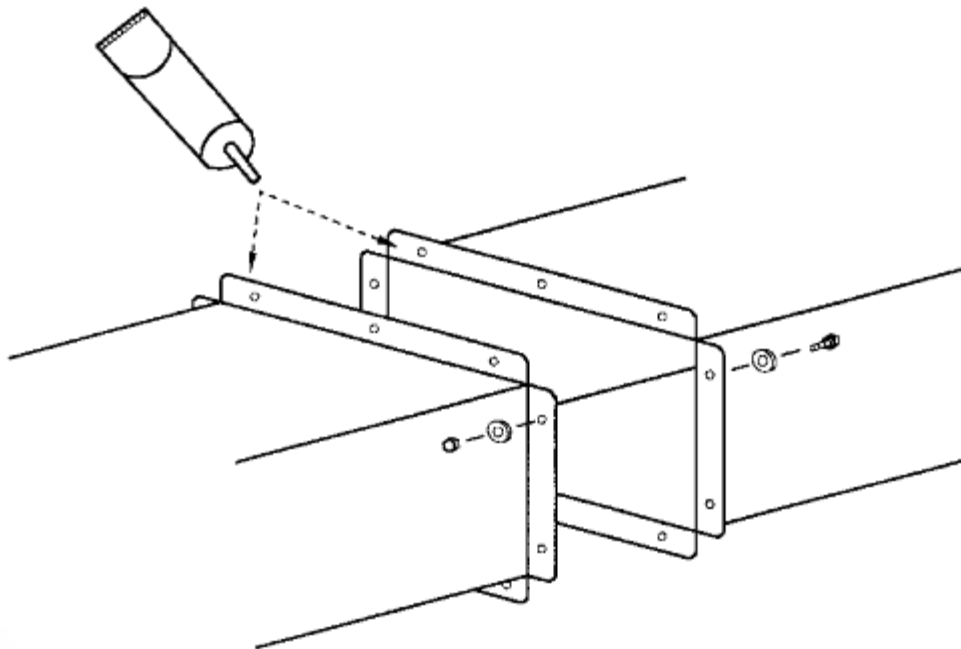
Cut a third piece of this foam tape to fit between the side pieces.



**Step 02** Assemble front and back conduit sections by applying a small bead of silicone caulk to the entire flange area of splice.

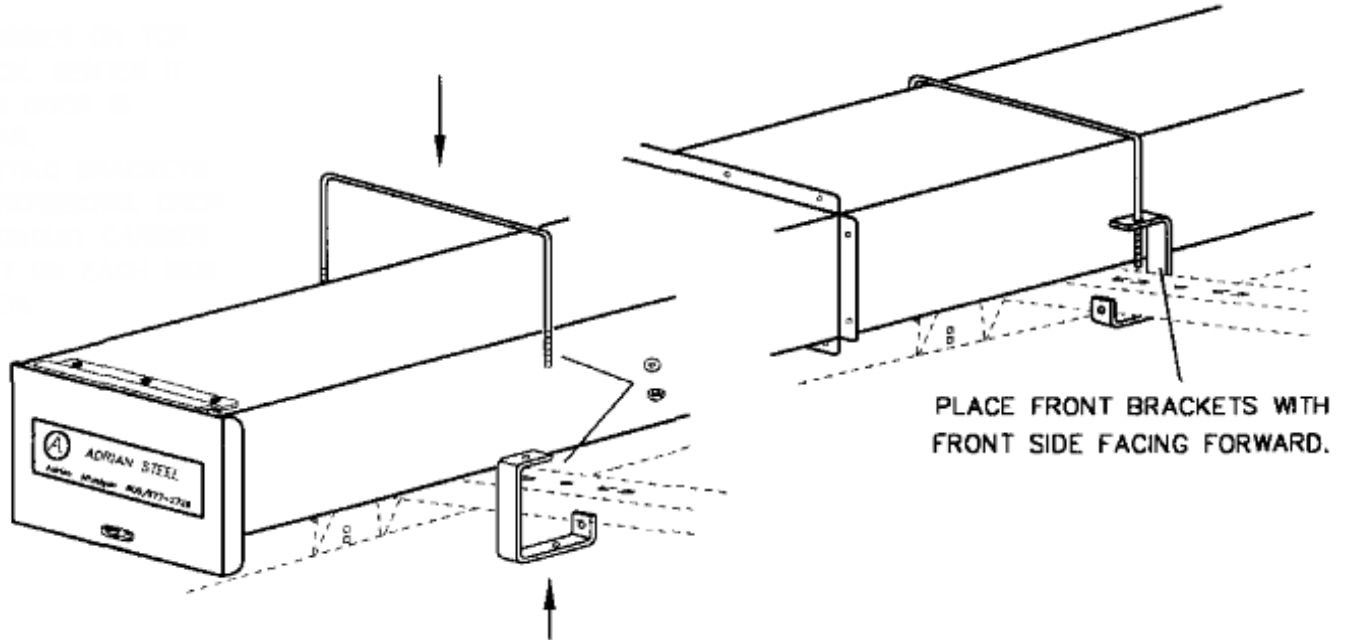
Place a washer onto each of the (10) bolts, then slip all (10) through the (10) holes. Place a washer and nut on each bolt and finger tighten all nuts before final tightening. Torque nuts to 13-15 inch pounds.

After assembly, inspect the silicone sealant for good integrity all around the splice.

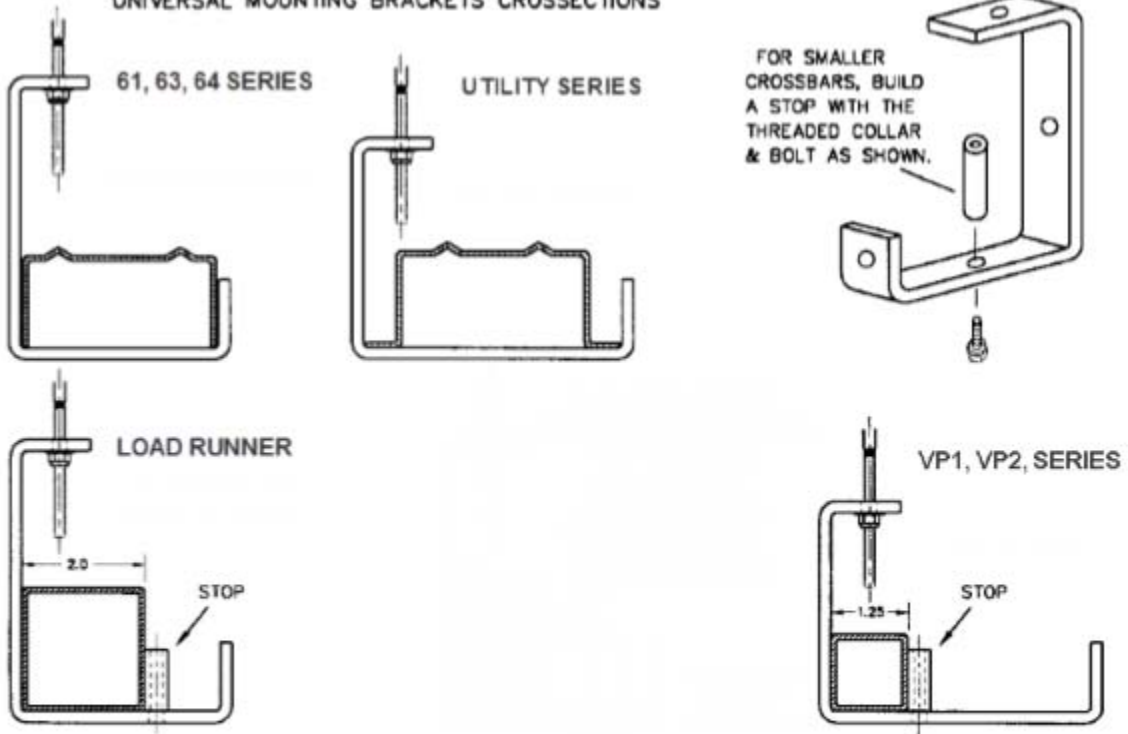


**Step 03** Position conduit carrier on top of vehicle ladder rack. Center it and make sure hinged door is accessible to the rear.

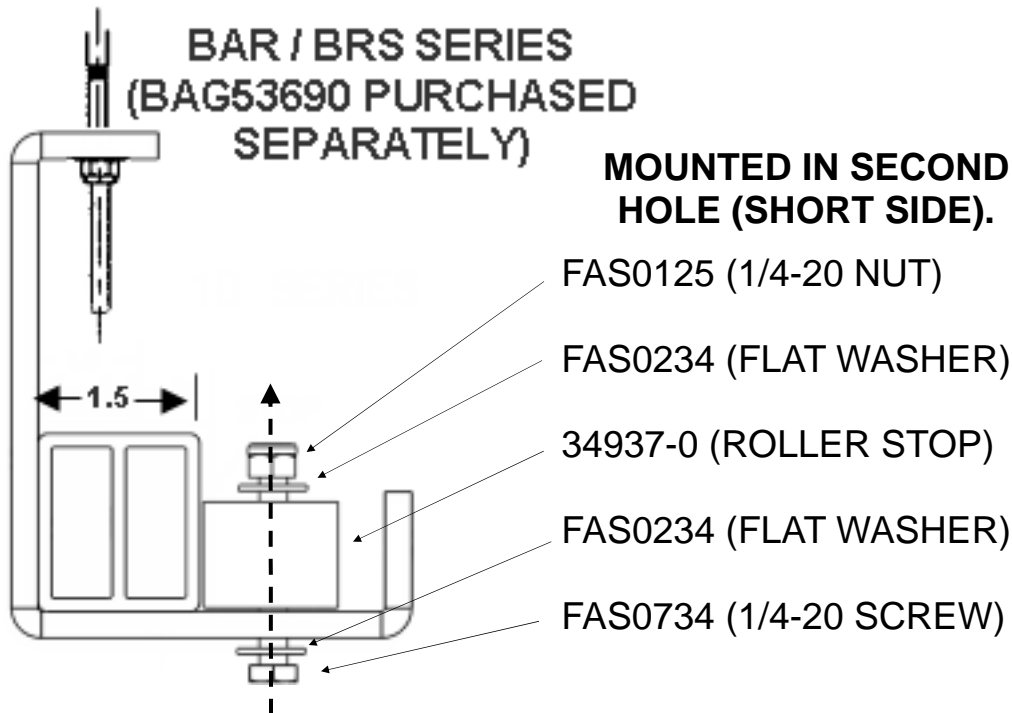
Slip stainless mounting brackets under ladder rack crossbows. Drop large U-bolt over conduit carrier. Place a washer & nut on each side of U-bolt, and tighten.



UNIVERSAL MOUNTING BRACKETS CROSECTIONS



UNIVERSAL MOUNTING BRACKET CONTINUED FOR MOUNTING TO BAR / BRS SERIES LADDER RACKS:



VISUAL EXAMPLES OF STEEL AND ALUMINUM ASSEMBLED

**DOUBLE CHECK ALL FASTENERS LOCATIONS TO BE SURE THAT ALL  
FASTENERS ARE TIGHTENED TO SPECIFICATIONS.  
YOUR INSTALLATION IS NOW COMPLETE!  
STOW THIS COPY IN THE VEHICLE FOR FUTURE REFERENCES!**