

2BRS-W SHOWN

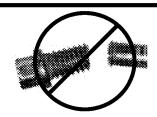
1BRS-B, -W, 2BRS-B, -W
UTILITY RACKS FOR FULL SIZE VANS



- PRECAUTIONS -



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





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





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





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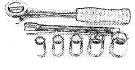
- IMPORTANT WARRANTY REQUIREMENTS -

- 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

RATCHET, SOCKETS AND/OR WRENCHES

MEASURING TAPE

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





WHEN INSTALLING PLUSNUTS MAKE SURE YOU USE THE CORRECT DRILL **BIT WITH A STOP!**

	F	PLUSNUT SIZ	ZE .	DRILL BIT SIZE	
	1⁄4-20 P	LUSNUT, F	AS0052	USE A 3/8" DIAMETER DRILL BIT WITH A STOP.	
5	5/16-18	PLUSNUT,	FAS0091	USE A 1/2" DIAMETER DRILL BIT WITH A STOP.	
	OR	F		ETTING TOOL IS REQUIRED FOR PLUSNUT INSTALLATION WITH THIS KIT. ORDER PLUSNUT TOOLS FROM ADRIAN	

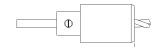


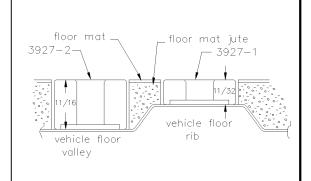


STEEL (P.N. 22200-0)OR USE AN AIR POWERED PLUSNUT SETTING GUN.

NOTE: If your vehicle contains carpet or a rubber floor mat you will need to prepare the mounting locations using a 1-3/16" carpet cutter.

1-3/16" DIAMETER **CARPET CUTTER** P.N. 31183-0.





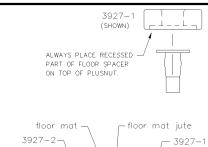
Step

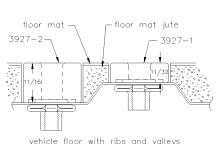
Optional

If your vehicle contains carpet or a rubber floor mat you will need to prepare the mounting locations. (if not, skip to STEP 02)

Position the product to be installed into the vehicle and once your are satisfied with the mounting locations, mark the mounting locations. Using a 1-3/16" diameter carpet cutter. Select the appropriate floor spacers as shown in the illustration to the left. Set those aaside for use later into the installation process.

Once you have prepared the carpet/floor mat for





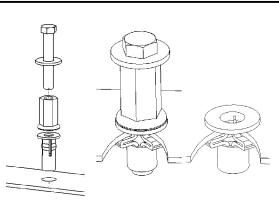
Step

Prepare Mounting Locations

Using a drill and drill bit (see table at top of page for correct size) 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.



Step

Setting Plusnuts

Use a Air Powered Plusnut Setting Gun to "set the plusnut" or if installing manually with hand tools, assembly the following.

1/4-20UNC Plusnut (FAS0052)

FAS0080 SCREW, HXHD, 1/4-20UNCx2.00, G8

FAS0067 WASHER, FLAT, 1/4"ID

22200-0 PLUSNUT TOOL 5/16-18UNC Plusnut (FAS0091)

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.

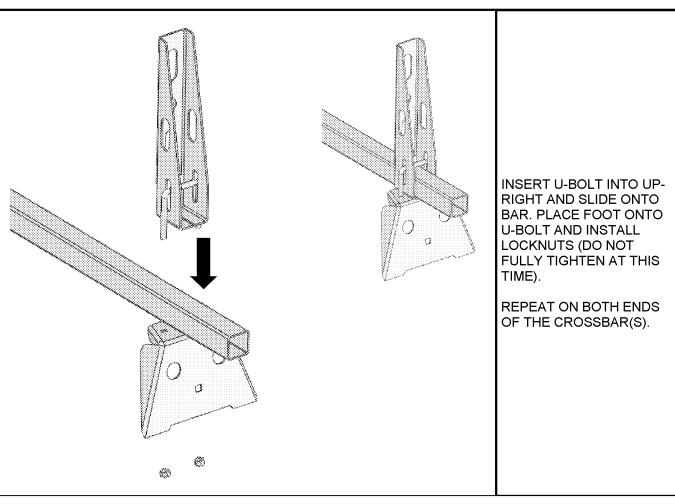
Using a 9/16" combination wrench of plusnut tool body and a second hand wrench, ratchet, or air tool, rotate the hex bolt head CW to draw plus nut flanges up (set the plusnut).

Remove hex bolt, washer, and plusnut. Inspect installation.



PARTS YOU WILL	CROSSBAR TUBE (1) REQUIRED	UPRIGHT (2) REQ'D PER BAR	FOOT (2) REQ'D PER BAR	FAS0248 5/16-18 LOCK- NUT (4) REQ'D PER BAR
USE FOR STEP				
04	FAS0598 U-BOLT (2) REQ'D PER BAR			

Instructions for Step **04**



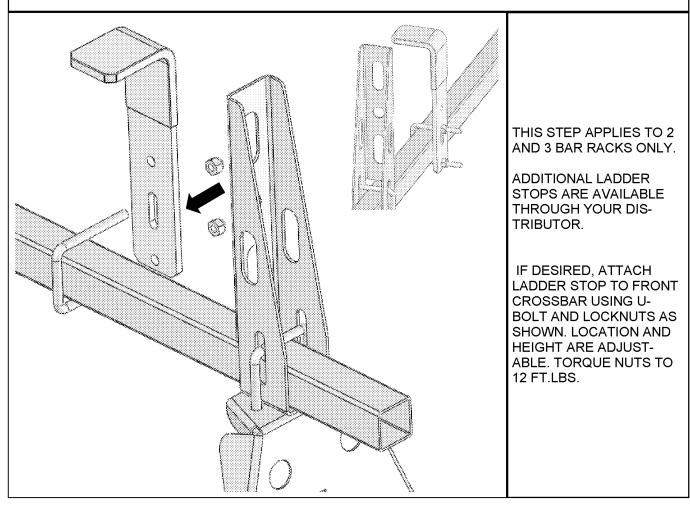
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PARTS YOU WILL	LADDER STOP (1) REQUIRED	FAS0598 U-BOLT (1) REQ'D PER STOP	FAS0248 5/16-18 LOCKNUT (2) REQ'D PER STOP	
USE FOR STEP				
05				

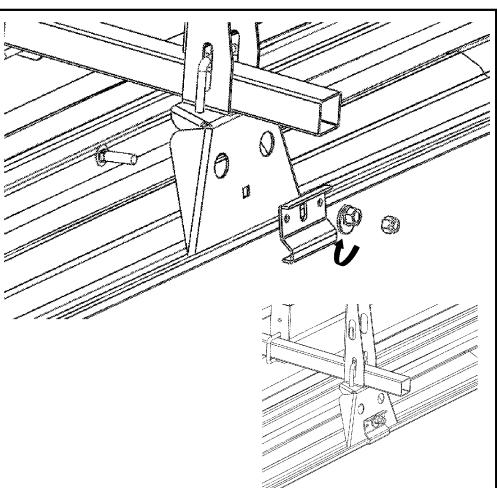
Instructions for Step 05





PARTS YOU WILL	CROSS BAR ASSEMBLY	22856-0 GM FOOT CLAMP (2) REQUIRED PER BAR	11427-0 FORD FOOT CLAMP (2) REQUIRED PER BAR	FAS0249 3/8-16 NYLOCK NUT (2) REQUIRED PER BAR
USE FOR STEP				6
06	FAS0117 3/8-16 CARRIAGE BOLT (2) REQ'D PER BAR	07466-0 CAM ADJUSTING NUT (2) REQ'D PER BAR		

Instructions for Step 06



POSITION CROSS BAR ASSEMBLY(IES) ON VEHI-CLE AS SHOWN.

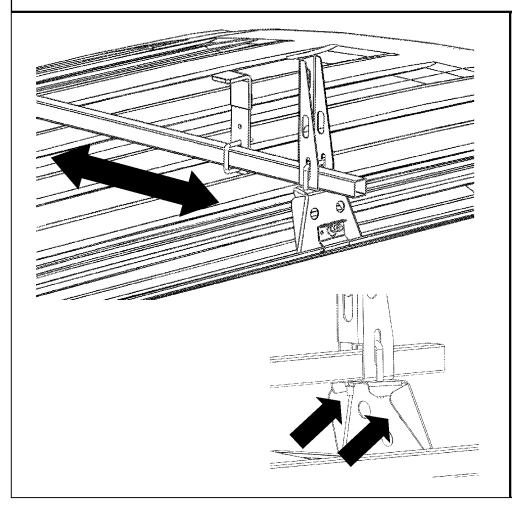
NOTE: THE RECOM-MENDED POSITION FOR THE FRONT CROSS BAR IS ABOVE THE B-PILLAR OF THE VEHICLE.

ATTACH THE CORRECT FOOT CLAMP FOR YOUR VEHICLE (GM or FORD) (GM SHOWN) AS SHOWN. ROTATE THE CAM NUT CLOCKWISE TO TIGHTEN THE FOOT CLAMP AGAINST THE DRIP RAIL. NOW FIRMLY TIGHTEN THE 3/8" LOCK NUT TO SECURELY ANCHOR THE ASSEMBLY. REPEAT THIS PROCESS FOR ALL (2 PER CROSS BAR) FOOT CLAMP ASSEMBLIES.



PARTS YOU WILL	PARTIALLY INSTALLED CROSS BAR ASSEM- BLY		
USE FOR			
STEP			
07		5	

Instructions for Step 07



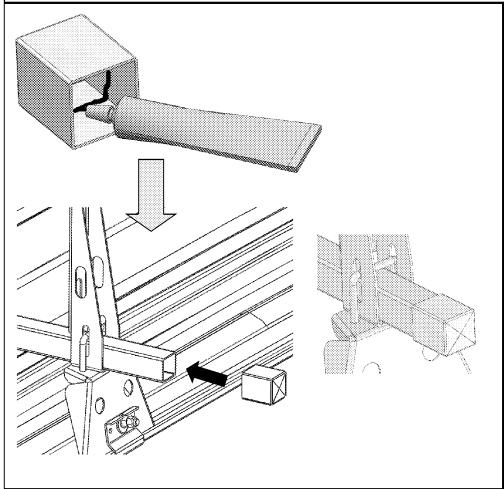
POSITION CROSS BAR (LEFT or RIGHT) IN ORDER TO CENTER IT ACROSS THE VEHICLE. ONCE THE CROSS BAR IS CENTERED, TIGHTEN THE 5/16" NYLOCK NUTS TO FULLY CLAMP THE UBOLT TO THE CROSS BAR. REPEAT THIS PROCESS FOR ALL FOOT ASSEMBLIES.

RECOMMENDED POSI-TION FOR REAR CROSS BOW IS 7' FROM THE FRONT BOW POSITIONED ABOVE B-PILLAR.



PARTS YOU WILL	PARTIALLY INSTALLED CROSS BAR ASSEM- BLY	26618-0 SILICONE SEALANT (1) REQ'D PER INSTALL	29427-0 TUBE COVER (2) REQ'D PER BAR	
USE FOR STEP				
08				

Instructions for Step 08



APPLY A BEAD OF SILI-CON SEALANT TO THE INSIDE (ALL FOUR SIDES) OF THE END CAP AP-PROXIMATELY 1/2" IN FROM THE EDGE. PUSH THE END CAP ONTO THE CROSS BAR TUBE AND ENSURE THAT IT IS FULLY SEATED. REPEAT THIS PROCESS FOR ALL ENDS OF THE TUBE(S).