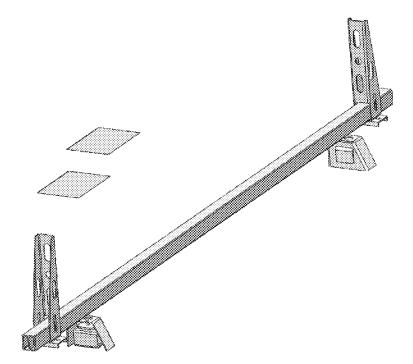


1 BAR UTILITY ADD-ON 1BARRPM



PRODUCT WEIGHT

12 LBS.

WIDTH x DEPTH x HEIGHT

79"x 5" x 14"

CAPACITY

100 LBS

COLOR

WHITE OR BLACK

CATALOG NUMBER

1BARRPM-W 1BARRPM-B

PRODUCT FEATURES

1 BAR ADD-ON TO CONVERT 2 BAR RACK TO 3 BAR OR 3 BAR RACK TO 4 BAR FOR EXTRA SUPPORT FOR LOAD BEING CARRIED. NOTE: ADDING AN ADDITIONAL BAR ASM TO THE PROMASTER VAN DOES NOT INCREASE THE WEIGHT CAPACITY BEYOND 150 Kg OR 330 LBS. VEHICLE ROOF RATING!

SEE PAGE 2 FOR APPLICATION NOTES AND ACCESSORIES, OTHER PRODUCTS THAT WORK WITH THIS UNIT.

PAGE 1 of 2

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1 BAR UTILITY ADD-ON 1BARRPM

CATALOG NUMBER 1BARRPM-W 1BARRPM-B

PRODUCT APPLICATION

THIS PRODUCT IS DESIGNED FOR THE DODGE PROMASTER STANDARD ROOF VANS. IT IS INTENDED AS AN ADD-ON FOR THE 2BARRPM AND 3BARRPM UTILITY RACKS.

ACCESSORIES THAT WILL WORK WITH THIS PRODUCT

CATALOG NUMBER

DESCRIPTION

SPECIAL APPLICATION NOTES

Additional accessories may be compatible with this product. Please consult with ADRIAN STEEL ENGINEERING to review specific applications not listed here.





3BARRPM-W SHOWN

3BARRPM-B, -W, 2BARRPM-B, -W, and 1BARRPM-B, -W Utility Racks for Dodge ProMaster Std Roof Vans



- PRECAUTIONS -



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





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 DRILLINGTO 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!



- 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

MEASURING TAPE

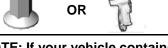
ADDITIONAL TOOLS MAY BE NEEDED FOR THIS INSTALLATION AND THEY WILL BE IDENTIFIED IN THE STEPS THAT FOLLOW.





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

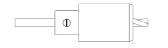
PLUSNUT SIZE				DRILL BIT SIZE
1/4-20 PLUSNUT, FAS0052				USE A 3/8" DIAMETER DRILL BIT WITH A STOP.
5/16-18 PLUSNUT, FAS0091				USE A 1/2" DIAMETER DRILL BIT WITH A STOP.
				ETTING TOOL IS REQUIRED FOR PLUSNUT INSTALLATION WITH THIS KIT. ORDER PLUSNUT TOOLS FROM ADRIAN

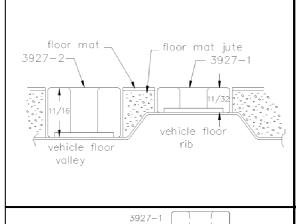


STEEL (P.N. 22200-0)OR USE AN AIR POWERED PLUSNUT SETTING GUN.

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.





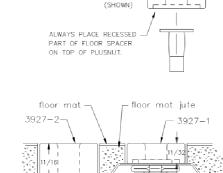
Step

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



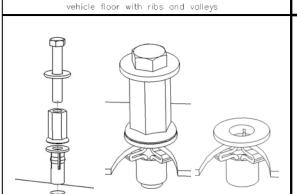
Step

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.

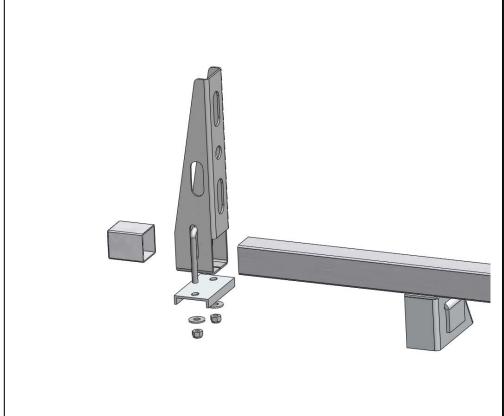
Using a 9/16" combination wrench of plusnut tool body and a second hand wrench, ratchet, or air tool, rotate the hex bolt head CW to draw plus nut flanges up (set the plusnut).

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



PARTS YOU WILL	CROSSBAR ASM. (1) REQUIRED	UPRIGHT (2) REQ'D PER BAR	BOLT PLATE (2) REQ'D PER BAR	FAS0598 U-BOLT (2) REQ'D PER BAR
USE FOR STEP			· ·	
01	FAS0248 5/16-18 LOCK- NUT (4) REQ'D PER BAR	FAS0552 5/16 FLAT WASHER (4) REQ'D PER BAR	48939 BLUE VINYL COV- ER (2) REQ'D PER BAR	

Instructions for Step 01

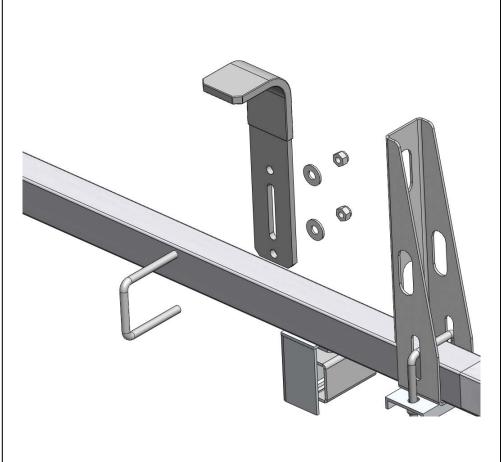


INSERT U-BOLT INTO UP-RIGHT AND SLIDE ONTO BAR. PLACE BOLT PLATE ONTO U-BOLT AND IN-STALL FLAT WASHERS AND LOCKNUTS. TIGHTEN TO 12 FT.LBS. TORQUE. PLACE BLUE COVER OVER END OF BAR AND SLIDE COMPLETELY ON. COVER MAY HAVE TO BE WARMED IF COLD AS IT IS A STRETCH FIT ONTO BAR. REPEAT ON ALL **ENDS OF ALL CROSS-**BARS.



PARTS YOU WILL	LADDER STOP (1) REQUIRED	FAS0598 U-BOLT (1) REQUIRED	FAS0248 5/16-18 LOCK- NUT (2) REQUIRED	FAS0552 5/16 FLAT WASHER (2) REQUIRED
USE FOR STEP	į			
02				

Instructions for Step 02



THIS STEP APPLIES TO 2 AND 3 BAR RACKS ONLY.

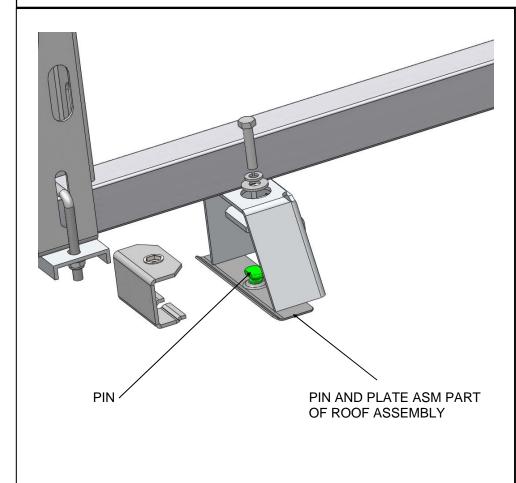
ADDITIONAL LADDER STOPS ARE AVAILABLE THROUGH YOUR DISTRIB-UTOR.

IF DESIRED, ATTACH
LADDER STOP TO FRONT
CROSSBAR USING UBOLT, FLAT WASHERS
AND LOCKNUTS AS
SHOWN. LOCATION AND
HEIGHT ARE ADJUSTABLE. TORQUE NUTS TO 12
FT.LBS. NOTE:
REAR CROSSBAR
HAS HOLES NEAR
FEET FOR ATTACHMENT OF REAR
ROLLER ASM!!!



PARTS YOU WILL	45168-W, -B, FOOT CLAMP (2) REQ'D PER BAR	FAS0242 5/16-18x 1.50 HEX HEAD SCREW (2) REQ'D PER BAR	FAS0588 5/16 LOCK WASHER (2) REQ'D PER BAR	FAS0552 5/16 FLAT WASHER (2) REQ'D PER BAR
USEFOR		7	O	
03				

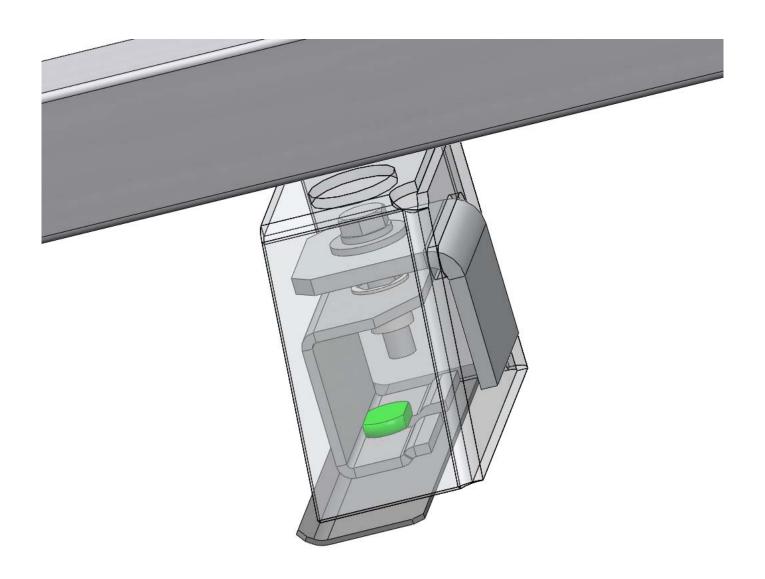
Instructions for Step 03



PLACE CROSSBAR OVER ATTACHMENT PINS AS SHOWN. SLIP LOWER LEG OF FOOT CLAMP UNDER HEAD OF PIN. INSTALL HEX SCREW AND WASH-ERS AS SHOWN. IT IS IM-PORTANT THAT PIN IS IN **CLAMP SLOT AND HEAD** OF PIN IS CAPTURED BE-TWEEN VERTICAL WALL AND OFFSET OF CLAMP. TORQUE TO 12 TO 15 FT LBS. REPEAT FOR ALL CROSSBAR ASSEMBLIES. SEE NEXT PAGE FOR COMPLETED ARRANGE-MENT AND FURTHER CLARIFICATION. NOTE: REAR CROSSBAR HAS HOLES NEAR FEET FOR ATTACH-MENT OF REAR ROLLER ASM!!!!



STEP 03 CONTINUED

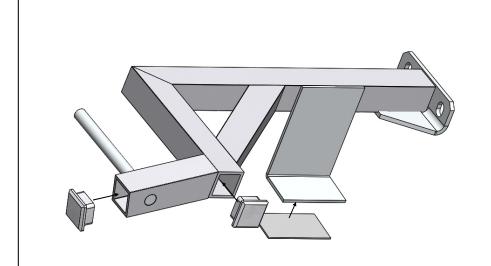


FASTENING COMPLETE. FOOT SHOWN TRANSPARENT FOR CLARITY. TYPICAL ALL ATTACHMENTS.



PARTS YOU WILL	45170-B, -W ROLLER ARM, CS	45171-B, -W ROLLER ARM, SS	43417 TAPE (2) REQ'D	35017-0 CAP (4) REQ'D
USE FOR STEP				
04				

Instructions for Step 04



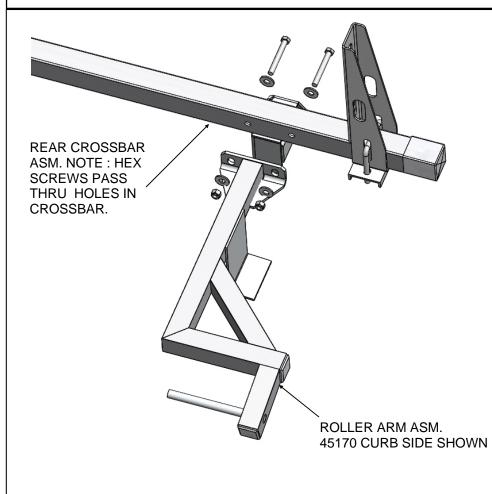
INSERT CAPS INTO OPEN TUBES, 2 PER ARM AS-SEMBLY. REMOVE ONE SIDE OF BACKING ON 43417 TAPE AND APPLY TO BOTTOM OF LOWER LEG OF ARM ASSEM-BLIES.

45170, CURB SIDE SHOWN



PARTS YOU WILL	FAS0243 5/16-18 X 2.50 HEX SCREW (2) REQ'D	FAS0552 5/16" FLAT WASHER (4) REQ'D	FAS0248 5/16-18 HEX NUT (2) REQ'D	
USE FOR STEP				
05				

Instructions for Step 05



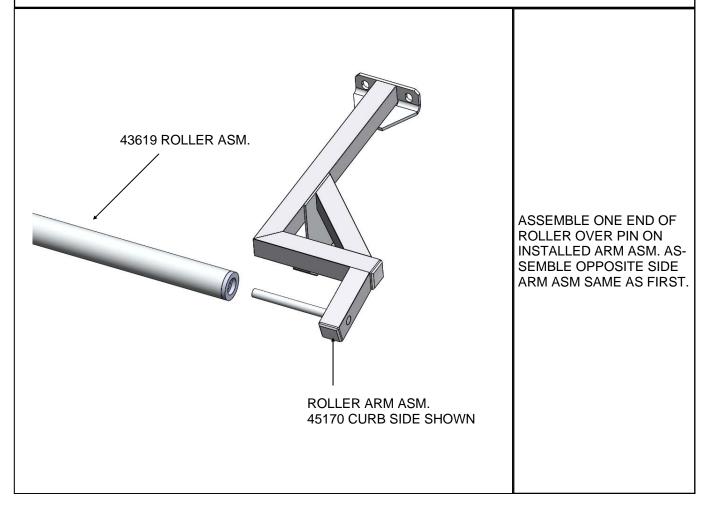
ASSEMBLE ONE ROLLER ARM ASM TO REAR CROSSBAR AS SHOWN. CLEAN ROOF AREA WHERE LOWER LEG OF ROLLER ARM WILL CONTACT. PEEL BACKING FROM TAPE ON UNDERSIDE OF ROLLER ARM LEG SO IT WILL STICK TO ROOF. TORQUE FASTENERS TO 12 FT LBS.

NOTE: ENSURE ARM ASSEMBLY IS FLUSH OR BELOW CROSS BOW WHEN FASTEN-ERS ARE TIGHT-ENED.

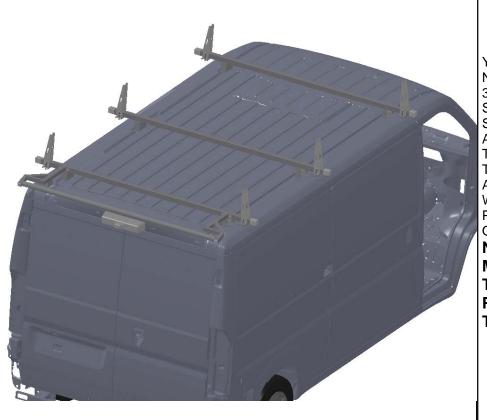


PARTS YOU WILL	FAS0243 5/16-18 X 2.50 HEX SCREW (2) REQ'D	FAS0552 5/16" FLAT WASHER (4) REQ'D	FAS0248 5/16-18 HEX NUT (2) REQ'D	
USEFOR				
06				

Instructions for Step 06



Instructions for Step 07



YOUR INSTALLATION IS NOW COMPLETE. THE 3BARRPM IS SHOWN INSTALLED AT LEFT. MAKE SURE ALL FASTENERS ARE PROPERLY TORQUED. CHECK FASTENERS AFETR 2 WEEKS AND AGAIN EVERY FEW WEEKS TO ASSURE PROPER PERFORMANCE OF YOUR RACK.

NOTE: ALL CARGO MUST BE PROPERLY TIED DOWN TO RACK PRIOR TO TRANSPORT.