



PRODUCT FEATURES

This drop down rack and roof cross-bow kit is designed to fit the RAM Promaster, 159 wheel base. The drop down will carry 20 to 28 foot extension ladders, and 10-12 foot step ladders. Step ladders shorter than 10' require DDLRSLK2 step ladder kit. Step ladders wider than 26" at the base require the wide step ladder add on, part 57107. Ladders with extensive gussets or platform step ladders may not be compatible with the rack.

The cross-bow kit is secured to the RAM Promaster by OEM supplied fastening points.

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

CATALOG NUMBER DD61PMH159

PRODUCT APPLICATION

This Drop down unit is designed to fit 2016 and newer Dodge Promaster, high roof vehicles.

ACCESSORIES THAT WILL WORK WITH THIS PRODUCT

CATALOG NUMBER DESCRIPTION

DDLRSLKHR STEP LADDER KIT, DDLR HR

O ADRIAN STEEL

- DDLR61HSS HIGH ROOF LADDER RACK SS (CONVERT TO DBL)
 - 57107 DDLR WIDE STEP LADDER KIT-ADD ON PIECE

SPECIAL APPLICATION NOTES

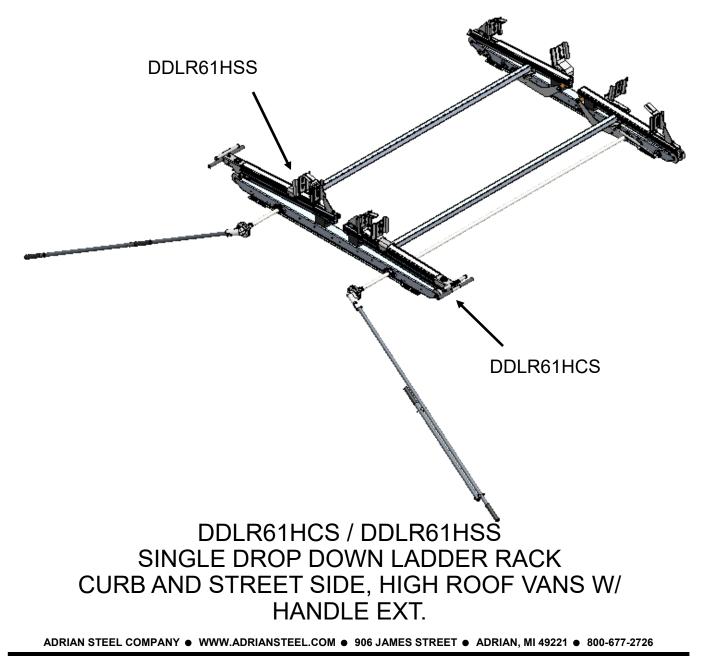


Introduction / Comments:

Installation instructions for DDLR61HCS and DDLR61HSS. NOTE: This is for high roof vehicles only

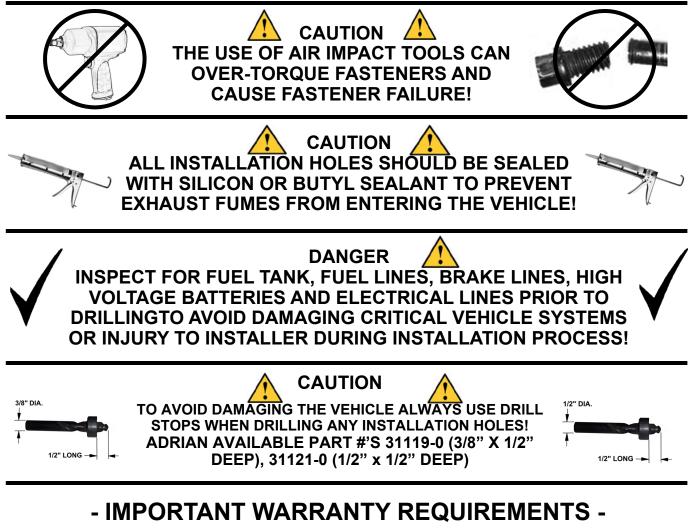
Note:

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 @ 6weeks of operation. This preventive maintenance step must be completed to ensure your Product gives you long service life.





- PRECAUTIONS -



- 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.



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

ADRIAN STEEL COMPANY . WWW.ADRIANSTEEL.COM . 906 JAMES STREET . ADRIAN, MI 49221 . 800-677-2726

2

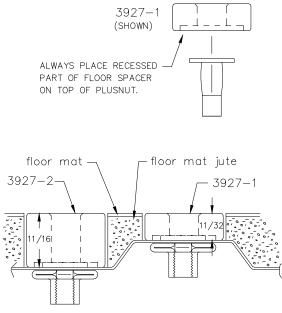


Cargo Management Solutions for Commercial Vehicles

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 your 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.



vehicle floor with ribs and valleys

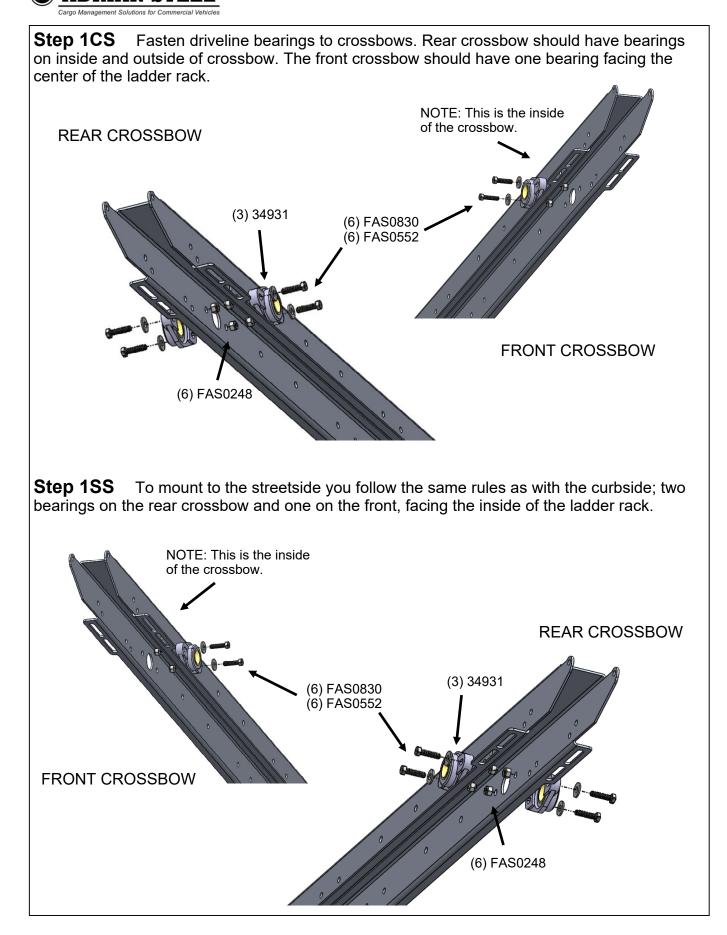
A PLUSNUT (RIVNUT) SETTING TOOL IS REQUIRED FOR PLUSNUT (RIVNUT) INSTALLATION . PLUS NUT SETTING TOOL CAN BE ORDERED THROUGH ADRIAN STEEL, OR USE AN AIR POWERED PLUSNUT SETTING GUN. <u>1/4-20UNC Plusnut (FAS0052) Use 3/8" dia. drill w/stop</u> FAS0080 SCREW, HXHD, 1/4-20UNCx2.00", G8 FAS0067 WASHER, FLAT, 1/4"ID 22200-0 PLUSNUT TOOL <u>5/16-18UNC Plusnut (FAS0091) Use 1/2" dia. drill w/stop</u> 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).

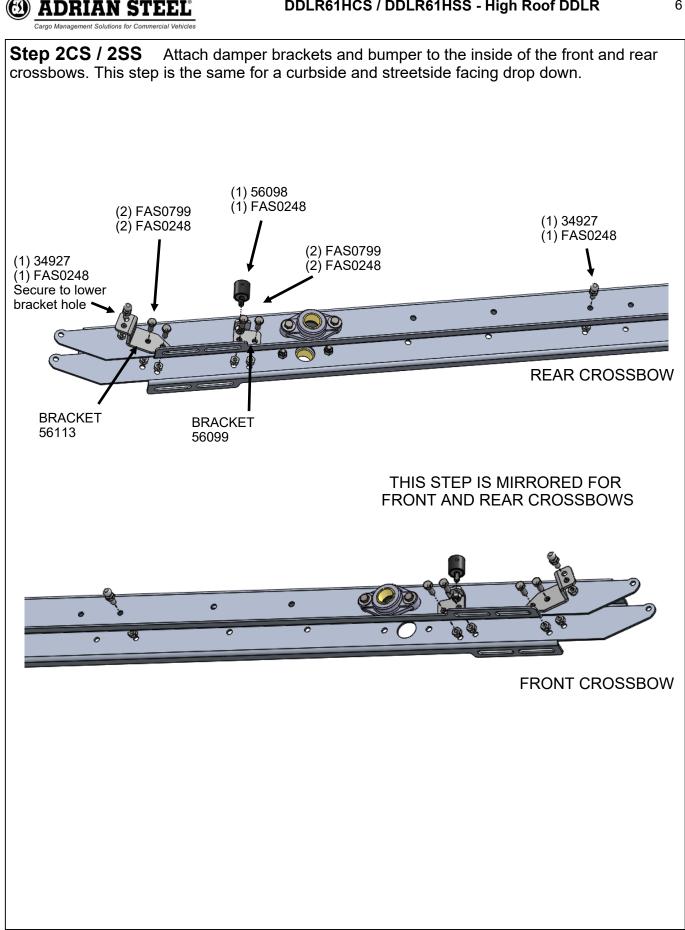


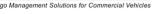
Cargo Management Solutions for Commercial Vehicles

BAG56325 FASTENER BAG FOR DDLR HIGH ROOF

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | BAG0509-A | 5"X10" 4MIL AUTOBAG | 1 |
| 2 | FAS0811 | SCREW,CAP, 5/16-18X3.20 SS | 2 |
| 3 | FAS0248 | Nut, Nylon Insert Lock, 5/16-18 SST | 36 |
| 4 | FA\$0552 | Washer, Flat, 5/16, SST | 8 |
| 5 | FAS0830 | Screw, Hex Hd, 5/16-18 X 1.25 SS | 6 |
| 6 | FAS0799 | Screw, Hex Hd, 5/16-18x0.75 SS | 14 |
| 7 | 34927-0 | Ball Stud, Damper | 8 |
| 8 | FA\$0588 | Washer, Lock, Split, 5/16, SS | 4 |
| 9 | FAS0246 | Washer, Flat, 3/8, HRD, ZN | 6 |
| 10 | FAS0110 | Nut,Hex Nylk 3/8-16 SS W | 4 |
| 11 | FAS0572 | Screw, Button Hd Hex Soc, 3/8- 16x1.00 NI-ZN | 2 |
| 12 | FAS0286 | SCREW, HHCS, 3/8-16x4, SS | 2 |
| 13 | FAS0035 | BOLT,SQ HD,5/16-18X1.0 SS | 4 |
| 14 | FAS0242 | Screw, Hex Hd, 5/16-18x1.50 Stainless Steel | 5 |
| 15 | 56098 | BUMPER STUD, 1" X 1", HR | 2 |
| 16 | 34922-0 | HOLDER, TOOL, LOAD RATED | 1 |
| 17 | 34921-0 | CLAMP, CABLE, LOOP, 1.5" ID | 1 |
| 18 | FA\$0287 | COTTER PIN, 1/16DIA X 1"LG, SS | 2 |
| 19 | 34928-0 | CLIP, SPRING, RETAINER, 13mm | 8 |

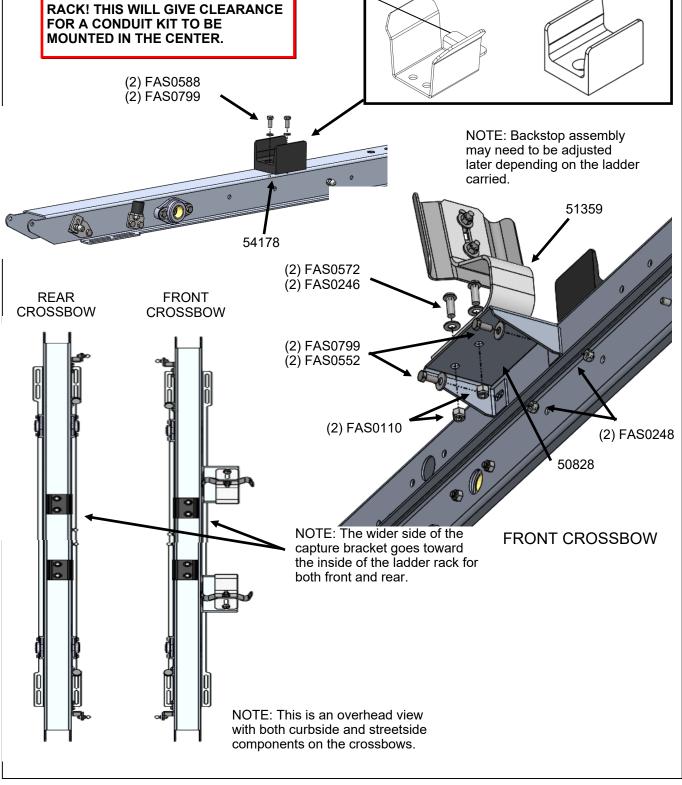






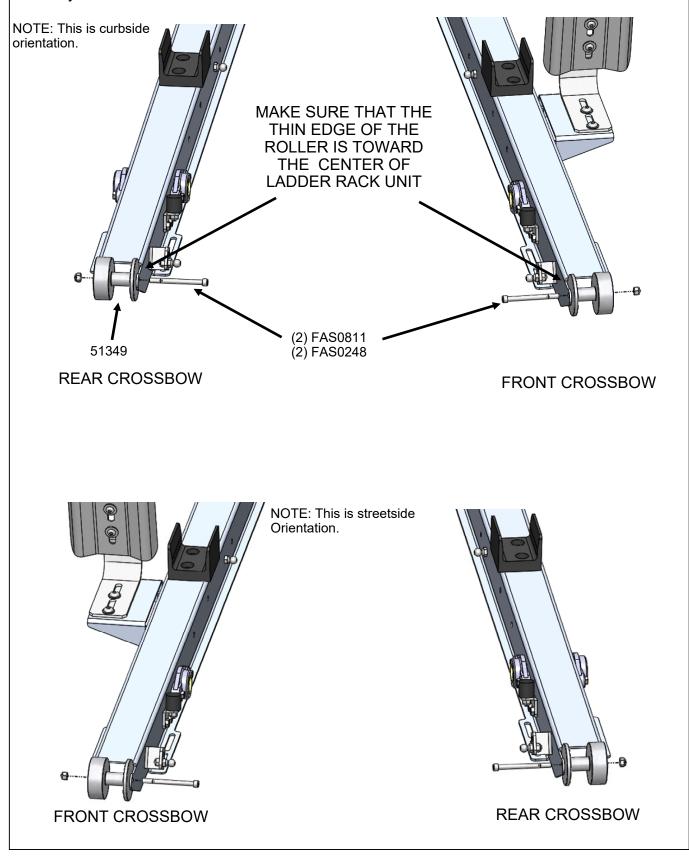
 Step 3CS / 3SS
 Fasten capture bracket to the front and rear crossbows, use the set of rivnuts closest to the application side of the van. Also attach the stationary backstop on the front crossbow only.

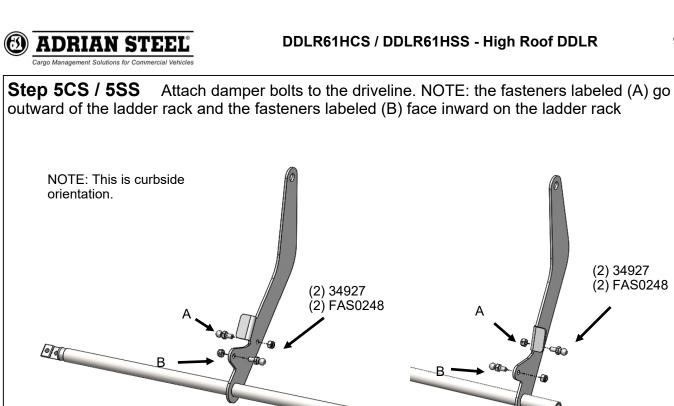
 IF USING THIS STYLE, ENSURE THE REST FLANGE IS MOUNTING FACING TO THE OUTSIDE OF THE LADDER RACK! THIS WILL GIVE CLEARANCE
 NOTE: ITEM 54178 WILL VARY APPEARANCE AS EITHER VIEW SHOWN BELOW.



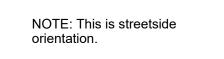


Step 4CS / 4SS Fasten drop down rollers to the side of the crossbow you are using to access your ladder rack. Curbside or streetside.





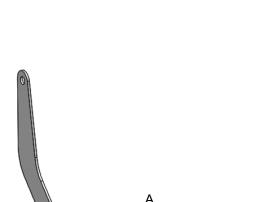
DRIVELINE TOWARDS REAR OF VAN





(2) 34927 (2) FAS0248

> **DRIVELINE TOWARDS** FRONT OF VAN



DRIVELINE TOWARDS REAR OF VAN

ADRIAN STEEL COMPANY

WWW.ADRIANSTEEL.COM

906 JAMES STREET

ADRIAN, MI 49221

800-677-2726

(2) 34927 (2) FAS0248

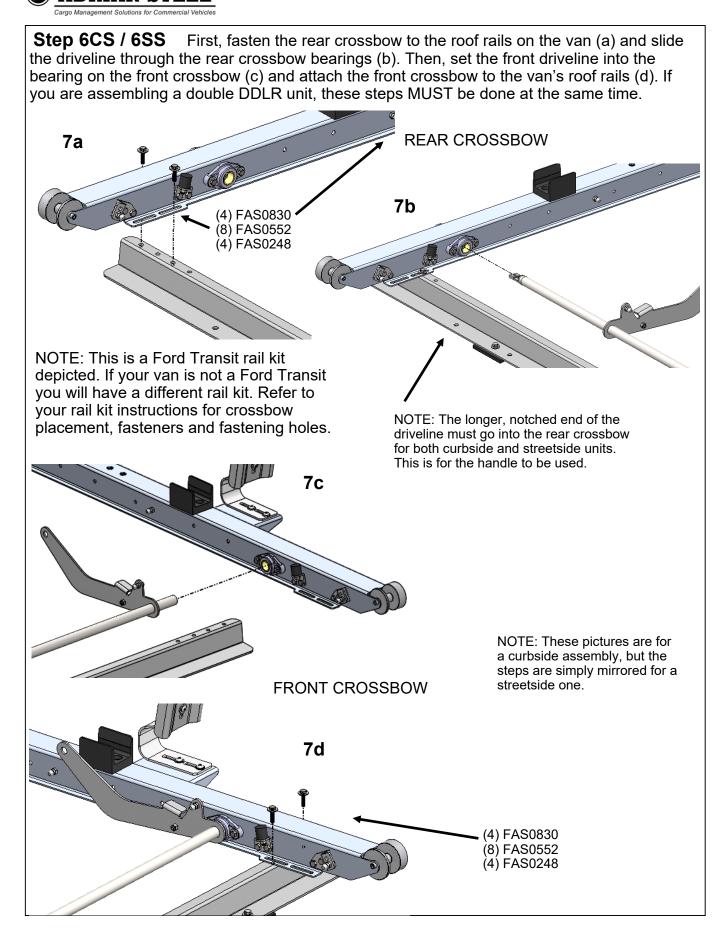
16/01

(2) 34927 (2) FAS0248

tin

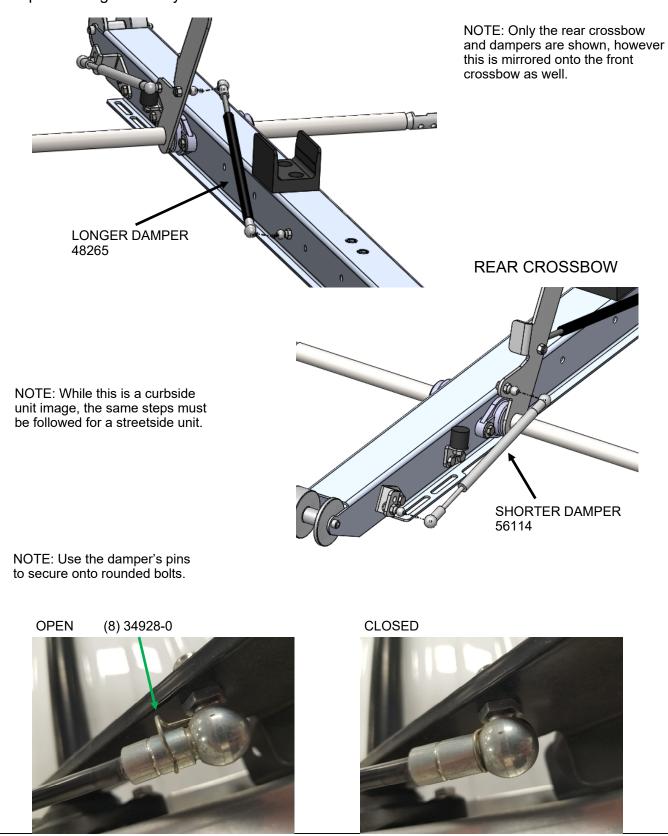
DRIVELINE TOWARDS

FRONT OF VAN





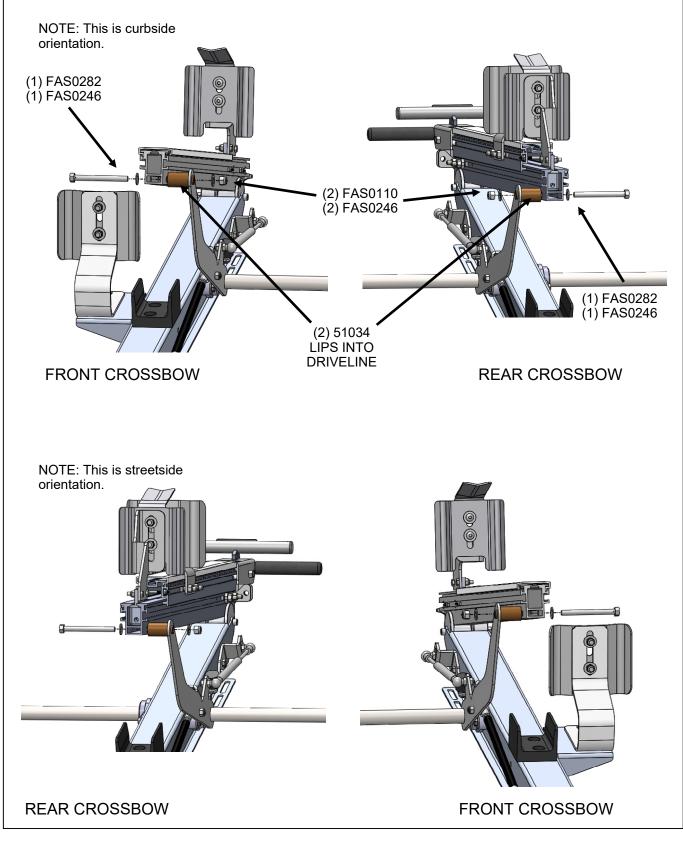
Step 7CS / 7SS Attach dampers to the rounded bolt heads. Use the damper's pins to secure the dampers to their bolts. Be sure that you distinguish between the long and short dampers during assembly.





Cargo Management Solutions for Commercial Vehicles

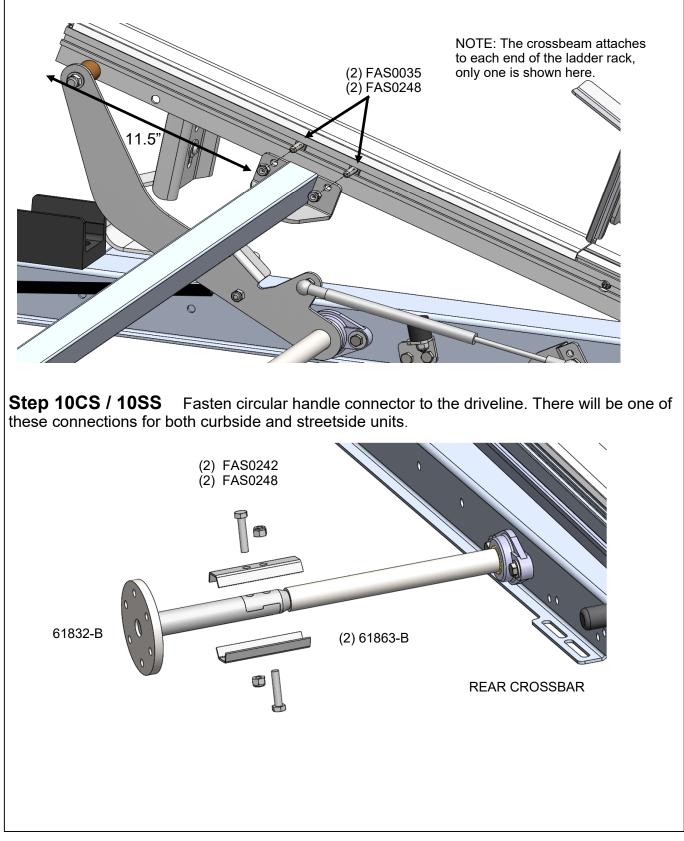
Step 8CS / 8SS Fasten drop down assemblies to the driveline and set them into the rollers on the end of each crossbow. Be sure that the primary drop down unit (with handle) is towards the rear of the van, in both streetside and curbside assemblies.

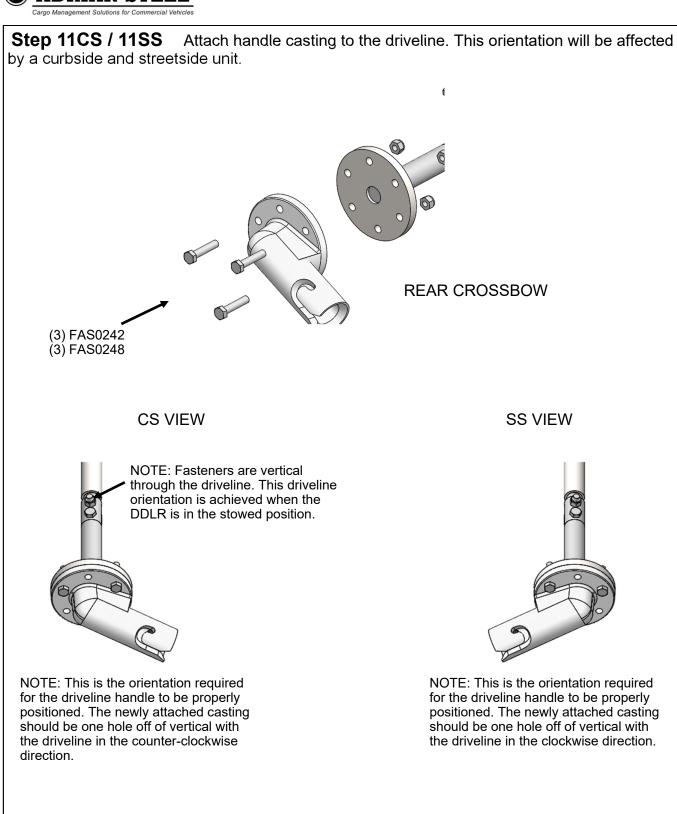




rgo Management Solutions for Commercial Vehicles

Step 9CS / 9SS Attach crossbeam to each drop down slide. The FAS0035 go into grooves on the drop down extensions. NOTE: The distance from the top of the slide to the crossbeam should be 11.5 inches.







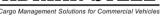


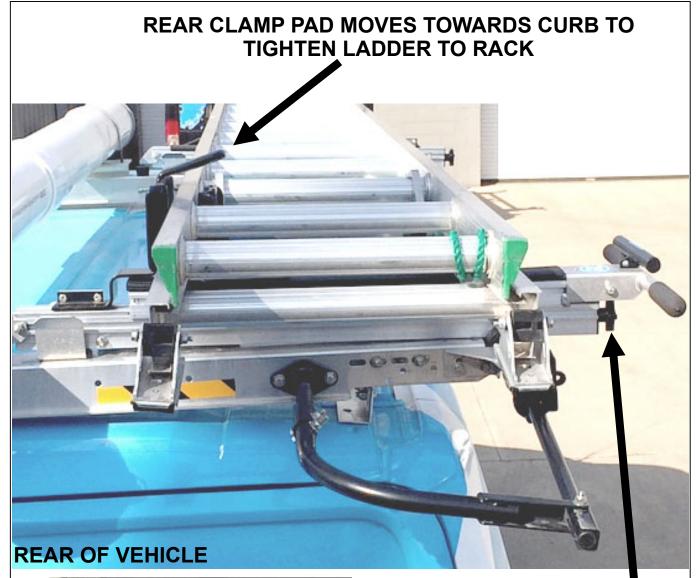
Step 13CS / 13SS Your drop down installation is now complete.

NOTE: As stated previously, this view contains a Ford Transit roof rail kit. If your vehicle is not a Ford Transit you will have a different roof rail kit. However, the drop down units will stay the same.

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!









TURN KNOB TO ADJUST TO YOUR LADDER.

DO NOT OVER TIGHTEN! CLAMP PAD SHOULD JUST TOUCH THE LADDER.







FRONT OF VEHICLE

TURN KNOB TO ADJUST TO YOUR LADDER.

DO NOT OVER TIGHTEN! CLAMP PAD SHOULD JUST TOUCH THE LADDER.



DDLR Series Final Adjustment Instruction

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!

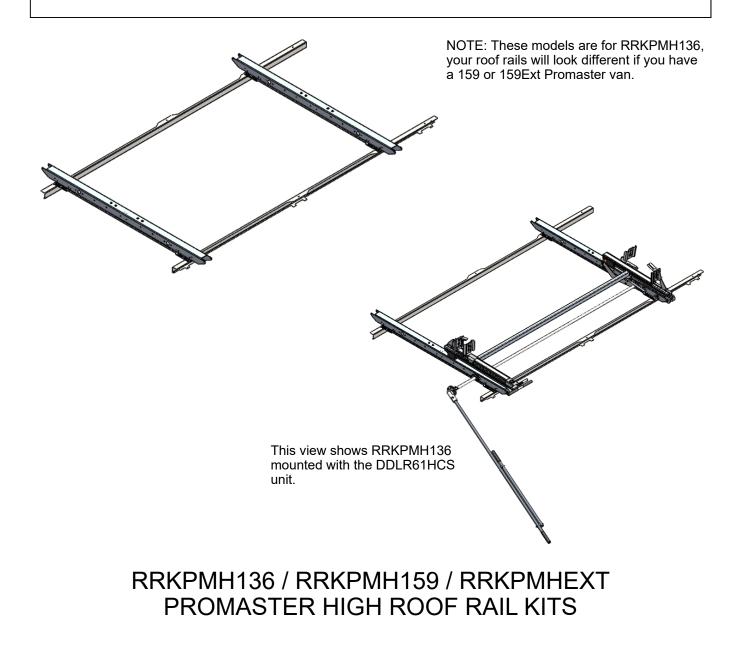


Introduction / Comments:

This instruction is for all Promaster High Roof Rail Kits. Instructions explain installation for the 136, 159 and 159 extended wheelbases.

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 @ 6weeks of operation. This preventive maintenance step must be completed to ensure your Product gives you long service life.





- PRECAUTIONS -



- 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.



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

ADRIAN STEEL COMPANY . WWW.ADRIANSTEEL.COM . 906 JAMES STREET . ADRIAN, MI 49221 . 800-677-2726

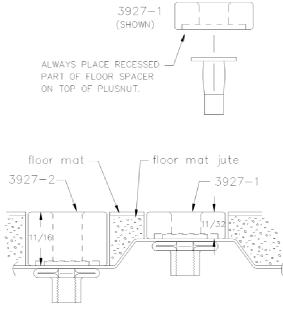
2



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 your 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.



vehicle floor with ribs and valleys

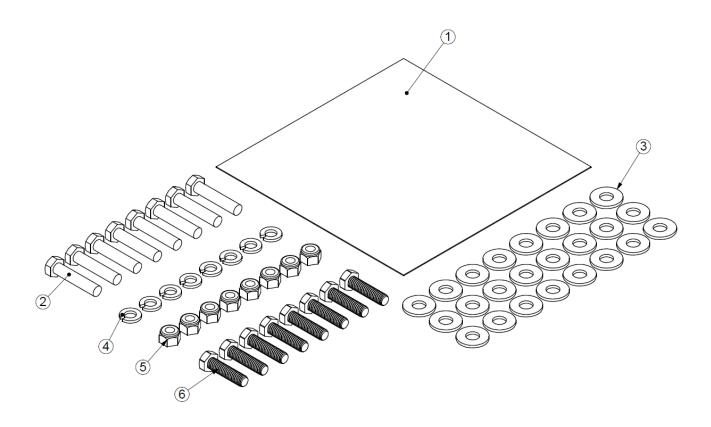
A PLUSNUT (RIVNUT) SETTING TOOL IS REQUIRED FOR PLUSNUT (RIVNUT) INSTALLATION . PLUS NUT SETTING TOOL CAN BE ORDERED THROUGH ADRIAN STEEL, OR USE AN AIR POWERED PLUSNUT SETTING GUN. <u>1/4-20UNC Plusnut (FAS0052) Use 3/8" dia. drill w/stop</u> FAS0080 SCREW, HXHD, 1/4-20UNCx2.00", G8 FAS0067 WASHER, FLAT, 1/4"ID 22200-0 PLUSNUT TOOL <u>5/16-18UNC Plusnut (FAS0091) Use 1/2" dia. drill w/stop</u> FAS0095 SCREW, HXHD, 5/16-18UNCx2.00", G8 FAS0086 WASHER, FLAT, 5/16"ID 22200-0 PLUSNUT TOOL Plusnut TOOL Plusnut tool 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).



Cargo Management Solutions for Commercial Vehicles

Installation and/or Assembly Fasteners BAG56417

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 1 | BAG0505-A | BAG0507-A | 1 |
| 2 | FAS0242 | Screw, Hex Hd, 5/16-18x1.50 Stainless Steel | 8 |
| 3 | FAS0552 | Washer, Flat, 5/16, SST | 24 |
| 4 | FAS0588 | Washer, Lock, Split, 5/16, SS | 8 |
| 5 | FAS0248 | Nut, Nylon Insert Lock, 5/16-18 SST | 8 |
| 6 | FAS0830 | Screw, Hex Hd, 5/16-18 X 1.25 SS | 8 |

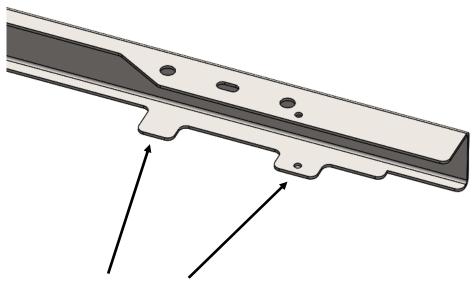




rgo Management Solutions for Commercial Vehicles

Step 01 ADD TEFLON TAPE TO ROOF RAILS.

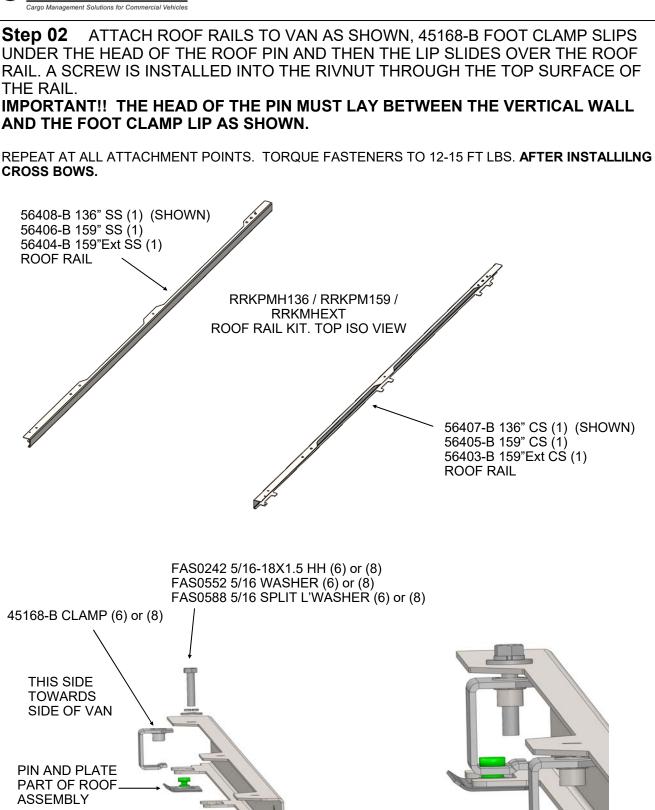
NOTE: THIS ROOF RAIL IS FOR RRKPMH136. YOUR ROOF RAIL MAY LOOK SLIGHTLY DIFFERENT.



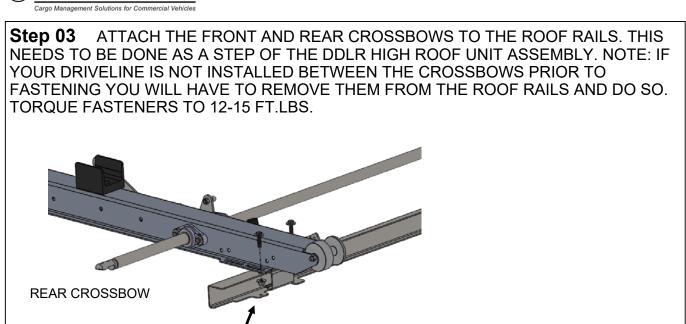
CUT TEFLON TAPE (39317) TO LENGTH FOR ALL TABS ON THE UNDERSIDE OF THE ROOF RAILS. THIS PREVENTS THE OUTER EDGES OF THE TABS FROM CONTACTING THE ROOF SURFACE AND WEARING THROUGH THE PAINT. THERE ARE 2 TABS AT EACH MOUNTING POINT PER ROOF RAIL.

NUMBER OF STRIPS PER RAIL IS DEPENDENT ON THE WHEELBASE OF YOUR VAN.

136" VANS NEED (6) STRIPS PER RAIL 159" VANS NEED (6) STRIPS PER RAIL 159"Ext VANS NEED (8) STRIPS PER RAIL



SHOWN ASSEMBLED



FAS0830 5/16 HH SCREW (8) FAS0552 5/16 WASHER (16) FAS0248 5/16 LOCKNUT (8)

ATTENTION! LADDER RACK PURCHASER

IT IS ADVISED THAT <u>ALL FASTENERS</u> THAT ASSEMBLE AND INSTALL YOUR LADDER RACK ARE CHECKED FOR TIGHTNESS AT 2 WEEKS OF OPERATION AND THEN RECHECKED AGAIN AT 6 WEEKS OF OPERATION.

ASSEMBLY FASTENERS COULD LOOSEN DURING USE DUE TO VIBRATION THROUGH YOUR VEHICLE WHILE ON THE ROAD OR IN AND OUT OF CONSTRUCTION SITES.

THIS IS A PREVENTATIVE MAINTENANCE STEP TO INSURE YOUR LADDER RACK GIVES YOU A LONG SERVICE LIFE.

**INSTALLER: PLEASE PRESENT THIS STATEMENT TO THE END USER WHEN DELIVERING THE INSTALLED PRODUCT!

ADRIAN STEEL COMPANY . WWW.ADRIANSTEEL.COM . 906 JAMES STREET . ADRIAN, MI 49221 . 800-677-2726

FRONT CROSSBOW



