



#### PRODUCT FEATURES

This drop down rack and roof cross-bow kit is designed to fit the Mercedes Sprinter vans. The drop down will carry 20 to 28 foot extension ladders, and 10-12 foot step ladders. Step ladders shorter than 10' require DDLRSLKHR 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.

Mercedes Sprinter OEM roof mounting rails are required to install this product.

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

### CATALOG NUMBER **DDLR61SPH**

PRODUCT APPLICATION

This Drop down unit is designed to fit 2016 and newer Mercedes Sprinter high roof vehicles.

ACCESSORIES THAT WILL WORK WITH THIS PRODUCT

CATALOG NUMBER DESCRIPTION

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

SPECIAL APPLICATION NOTES

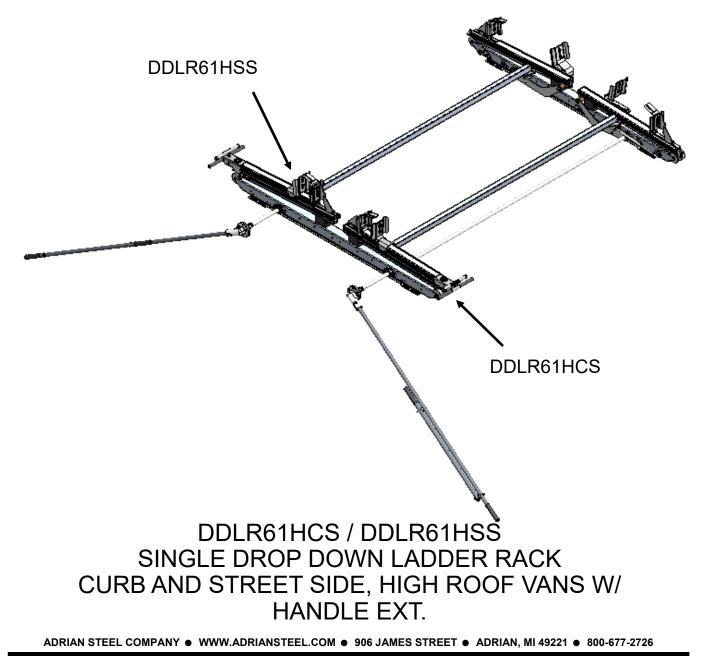


### Introduction / Comments:

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

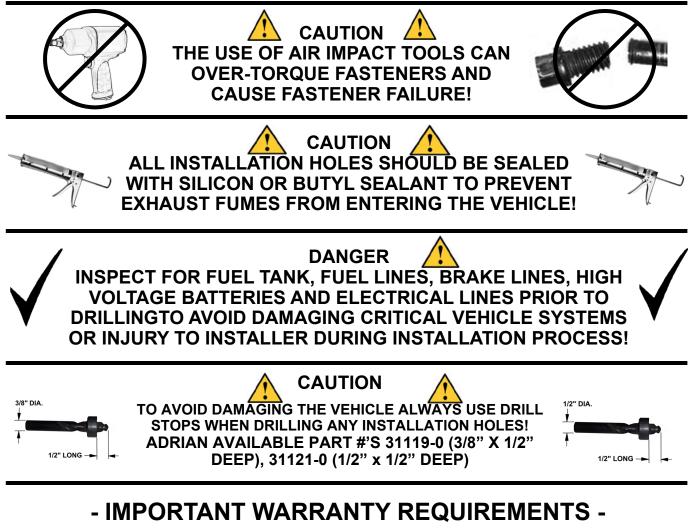
### Note:

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.

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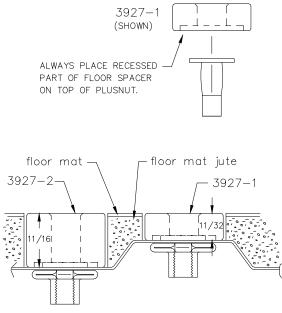
2



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.



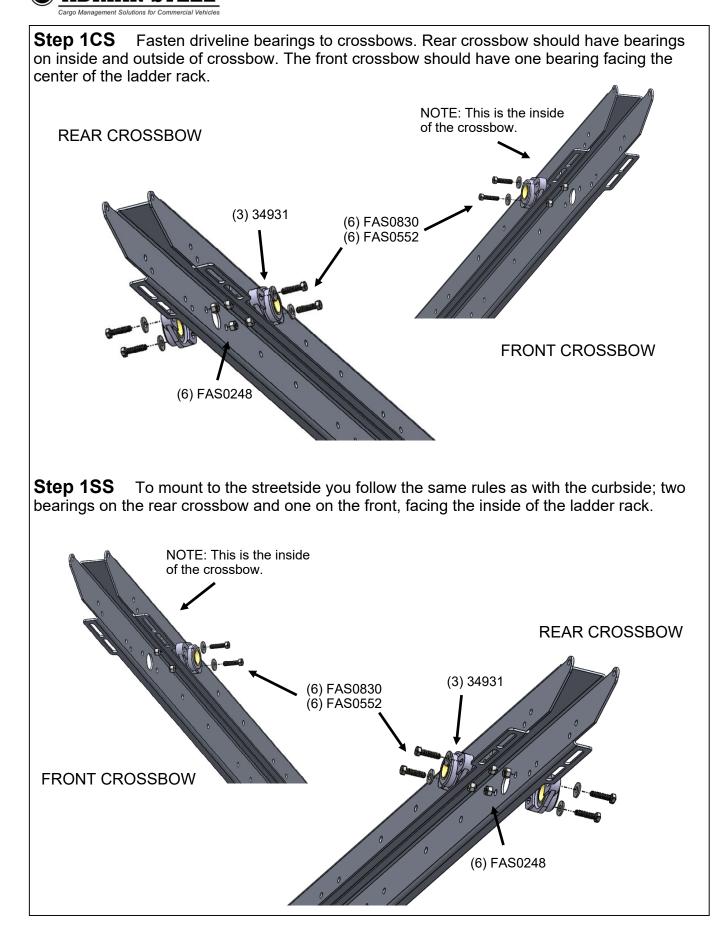
vehicle floor with ribs and valleys

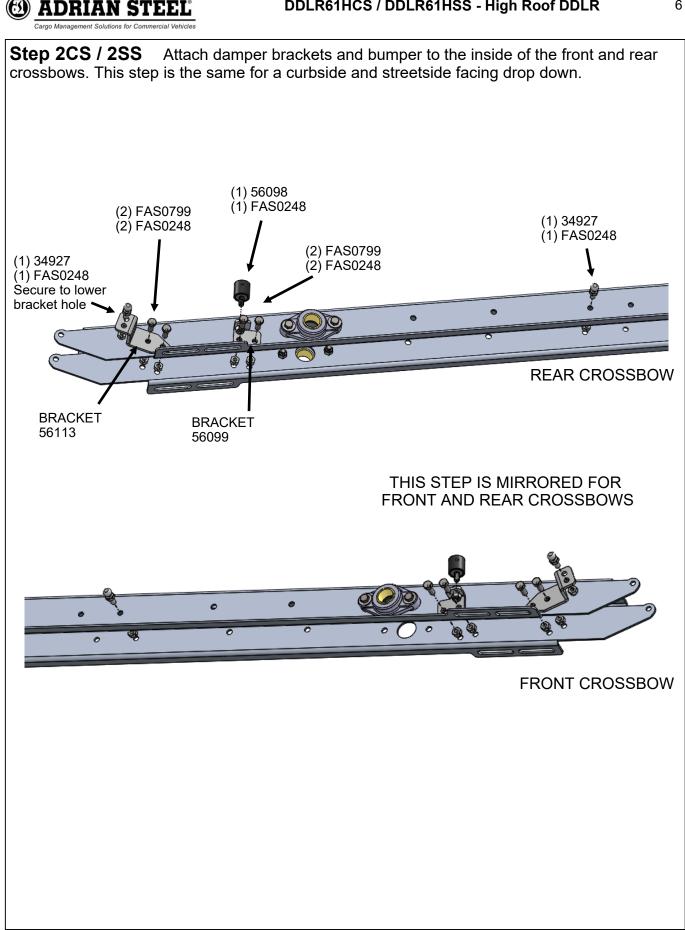
A PLUSNUT (RIVNUT) SETTING TOOL IS REQUIRED FOR PLUSNUT (RIVNUT) INSTALLATION . PLUS NUT SETTING TOOL CAN BE ORDERED THROUGH ADRIAN STEEL, OR USE AN AIR POWERED PLUSNUT SETTING GUN. <u>1/4-20UNC Plusnut (FAS0052) Use 3/8" dia. drill w/stop</u> FAS0080 SCREW, HXHD, 1/4-20UNCx2.00", G8 FAS0067 WASHER,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

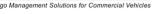


#### BAG56325 FASTENER BAG FOR DDLR HIGH ROOF

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0509-A	5"X10" 4MIL AUTOBAG	
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	
13	FAS0035	BOLT,SQ HD,5/16-18X1.0 SS	4
14	FAS0242	Screw, Hex Hd, 5/16-18x1.50 Stainless Steel	
15	56098	BUMPER STUD, 1" X 1", HR	
16	34922-0	HOLDER, TOOL, LOAD RATED	
17	34921-0	CLAMP, CABLE, LOOP, 1.5" ID	1
18	FAS0287	COTTER PIN, 1/16DIA X 1"LG, SS	2
19	34928-0	CLIP, SPRING, RETAINER, 13mm	8

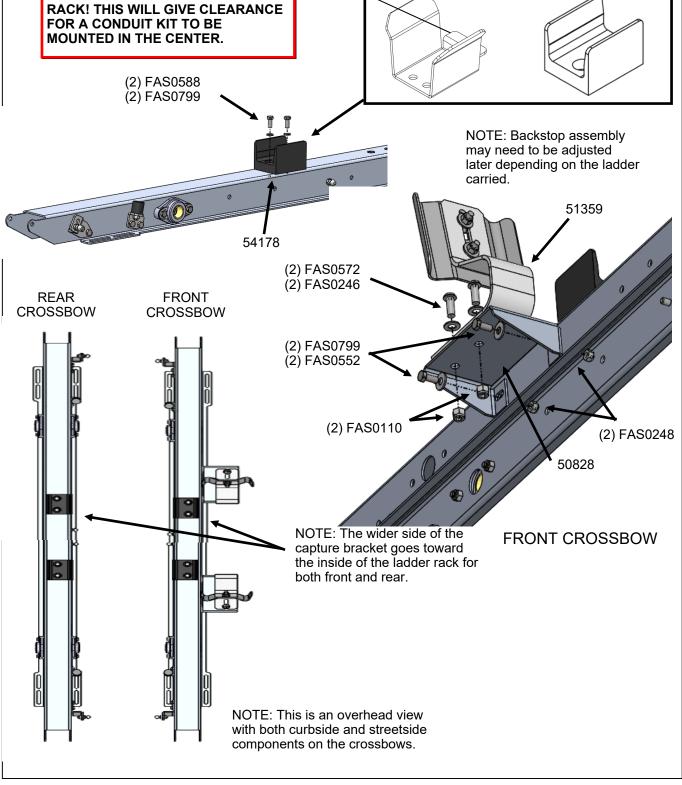






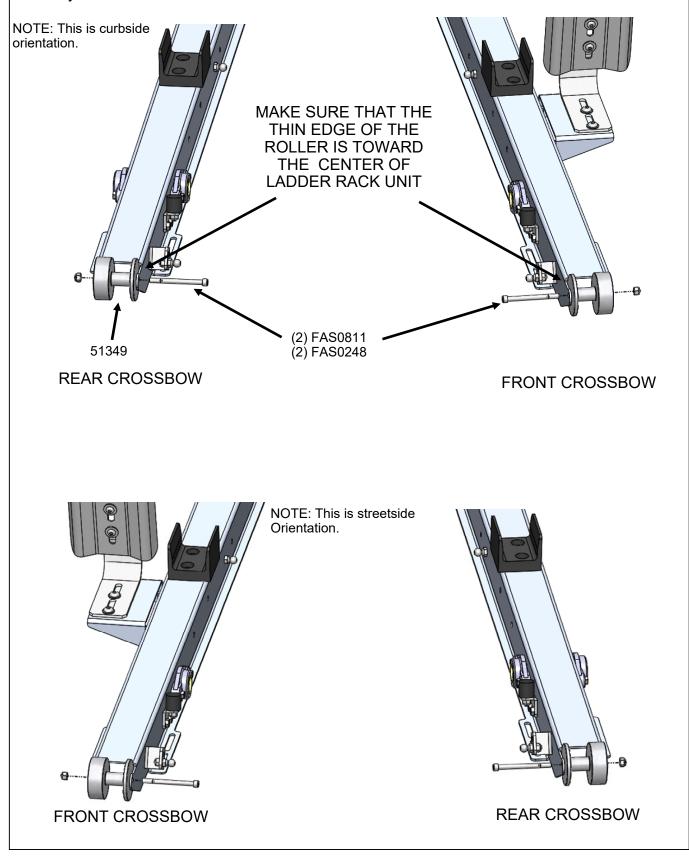
 Step 3CS / 3SS
 Fasten capture bracket to the front and rear crossbows, use the set of rivnuts closest to the application side of the van. Also attach the stationary backstop on the front crossbow only.

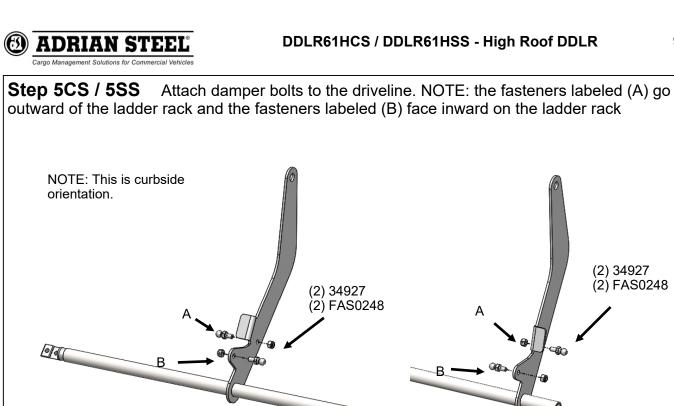
 IF USING THIS STYLE, ENSURE THE REST FLANGE IS MOUNTING FACING TO THE OUTSIDE OF THE LADDER RACK! THIS WILL GIVE CLEARANCE
 NOTE: ITEM 54178 WILL VARY APPEARANCE AS EITHER VIEW SHOWN BELOW.



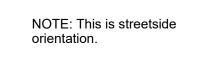


**Step 4CS / 4SS** Fasten drop down rollers to the side of the crossbow you are using to access your ladder rack. Curbside or streetside.





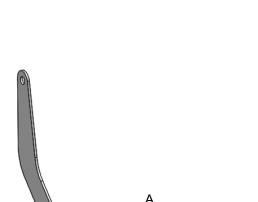
**DRIVELINE TOWARDS REAR OF VAN** 





(2) 34927 (2) FAS0248

> **DRIVELINE TOWARDS** FRONT OF VAN



**DRIVELINE TOWARDS** REAR OF VAN

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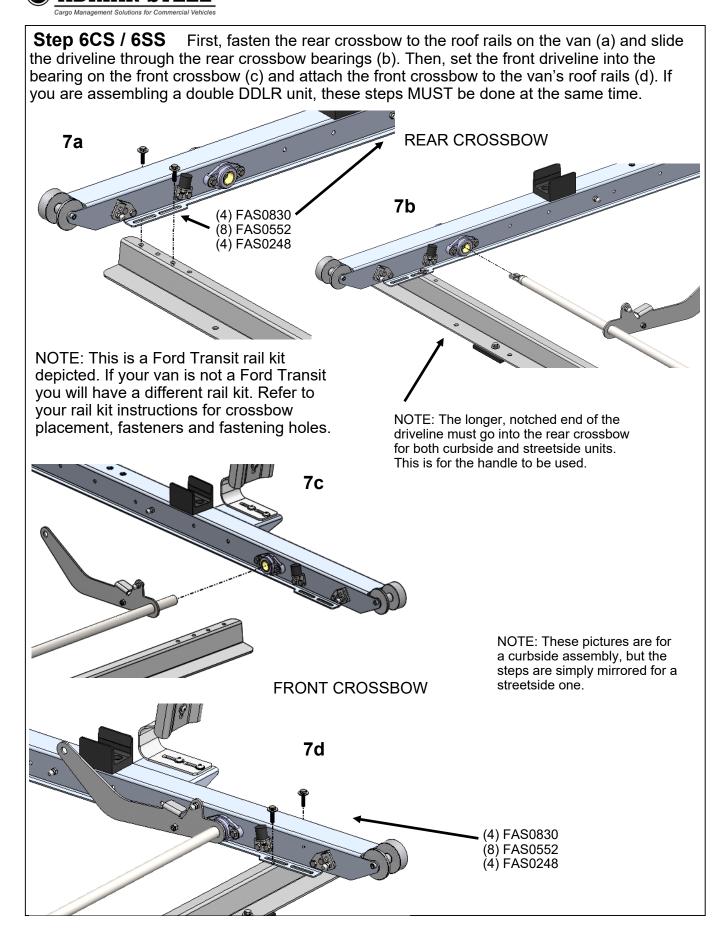
16/01

(2) 34927 (2) FAS0248

tin

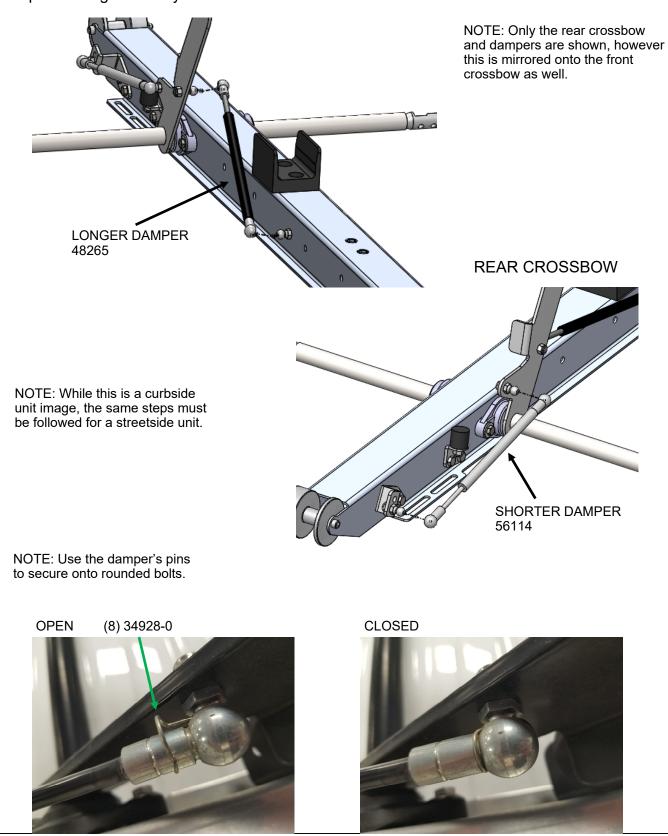
**DRIVELINE TOWARDS** 

FRONT OF VAN



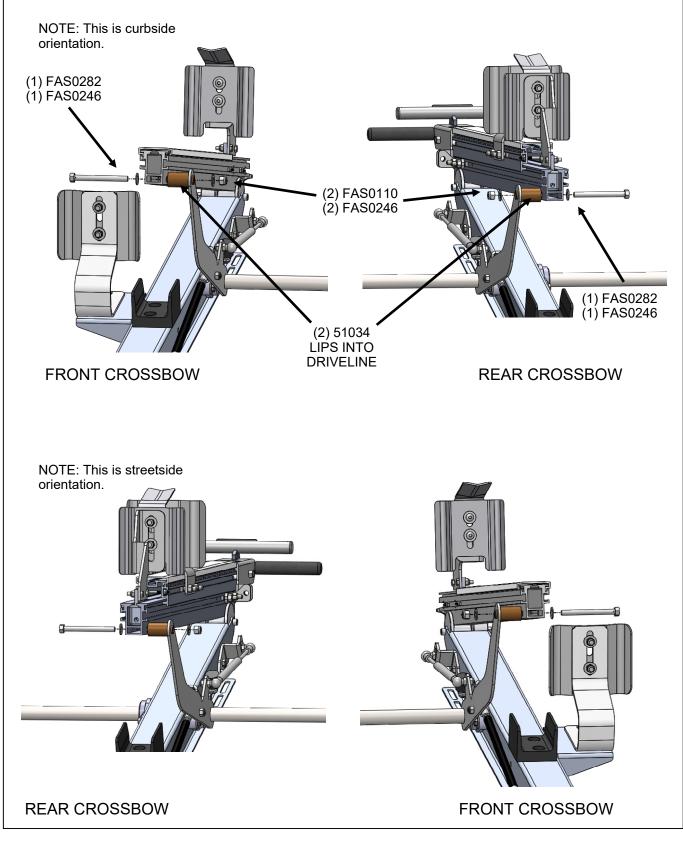


**Step 7CS / 7SS** Attach dampers to the rounded bolt heads. Use the damper's pins to secure the dampers to their bolts. Be sure that you distinguish between the long and short dampers during assembly.



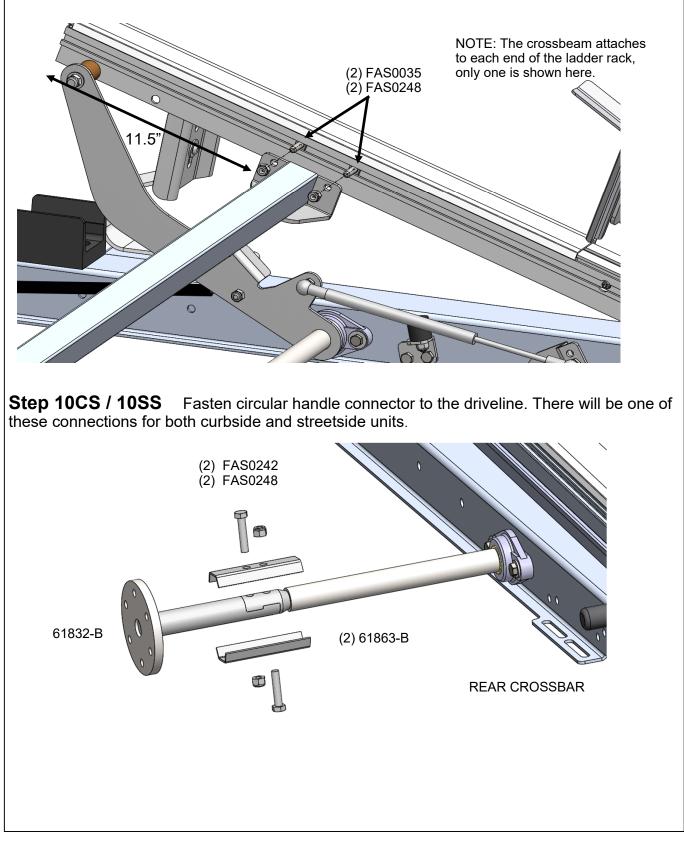


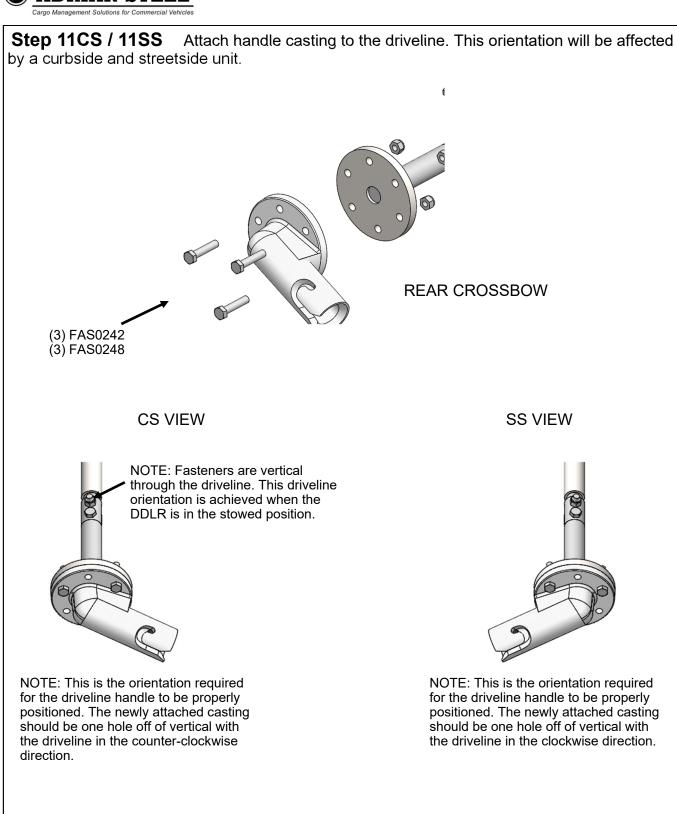
**Step 8CS / 8SS** Fasten drop down assemblies to the driveline and set them into the rollers on the end of each crossbow. Be sure that the primary drop down unit (with handle) is towards the rear of the van, in both streetside and curbside assemblies.





**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.







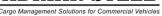


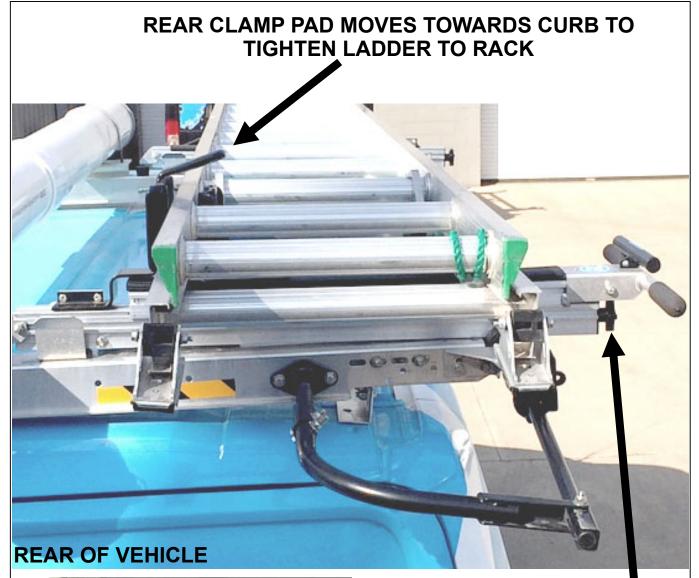
**Step 13CS / 13SS** Your drop down installation is now complete.

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

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# **DDLR Series Final Adjustment Instruction**

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## **Introduction / Comments:**

This instruction is for the Mercedes Sprinter High Roof Rail Kits. Instructions cover installation for both wheelbases.

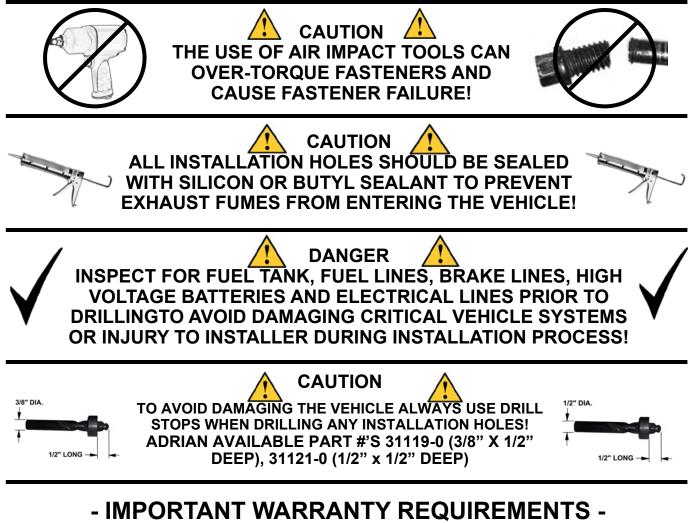
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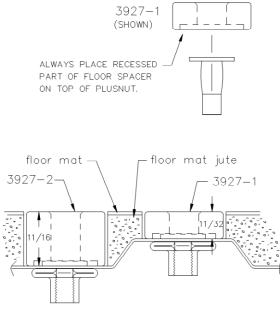
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vehicle floor with ribs and valleys

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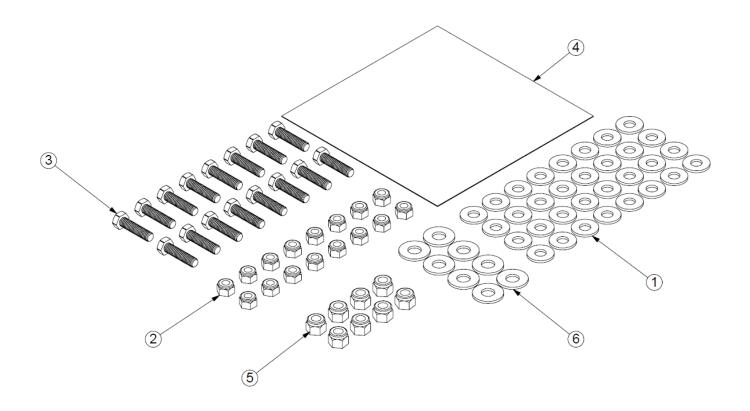
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Revision Level: **B** 



#### Installation and/or Assembly Fasteners BAG56666

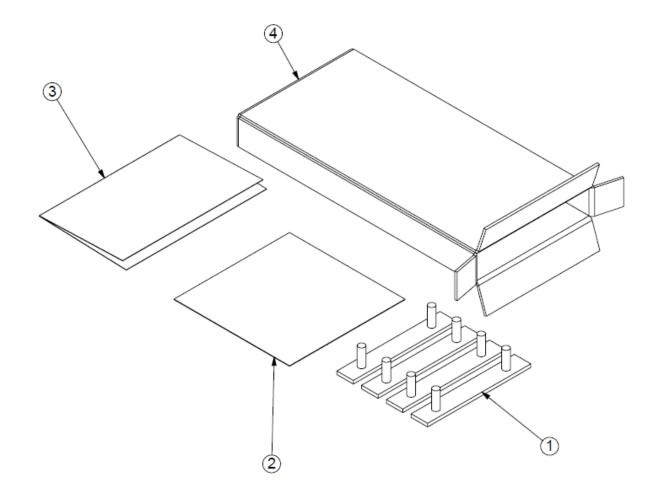
ITEM NO.	PART NUMBER	DESCRIPTION QTY		
1	FAS0552	Washer, Flat, 5/16, SST	32	
2	FAS0248	Nut, Nylon Insert Lock, 5/16-18 SST	16	
3	FAS0830	Screw, Hex Hd, 5/16-18 X 1.25 SS	5 SS 16	
4	BAG0505 <b>-</b> A	BAG0507-A		
5	FAS0110	Nut,Hex Nylk 3/8-16 SS W		
6	FAS 0720	Washer,Flat 3/8 SS 8		

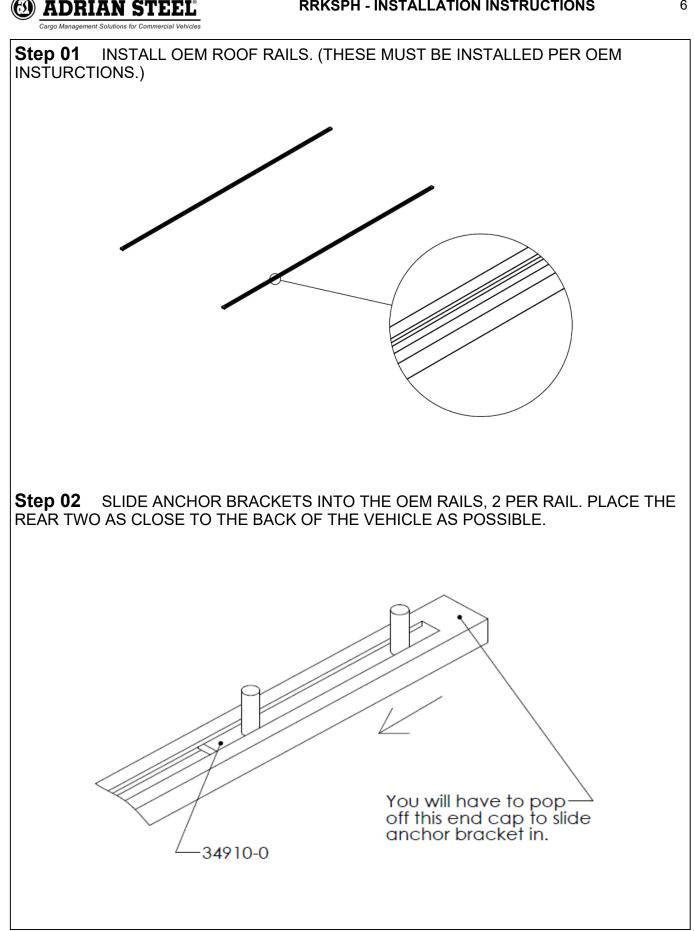


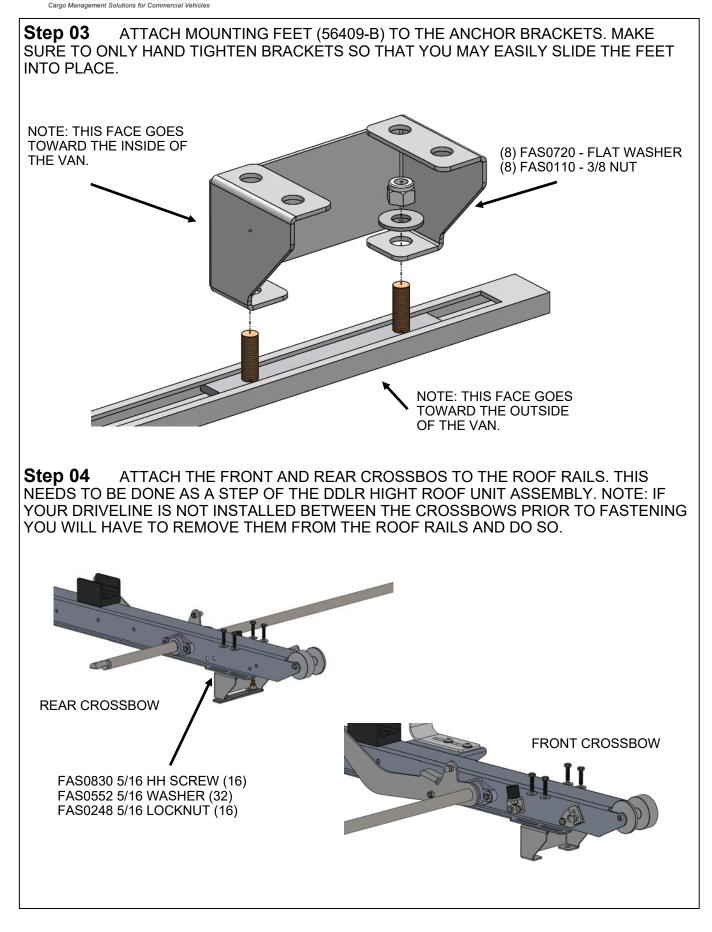


#### Installation and/or Assembly Hardware Kit HDWRRKSPH

ITEM NO.	PART NUMBER	DESCRIPTION	HDWRRKSPH/QTY.
1	34910-0	ANCHOR BRACKET STUD ASM	4
2	BAG56666	FAS BAG FOR RRKSPH	1
3	57105	ASM INS FOR RRKSPH	1
4	CRT06987-A	SMALL CARTON	1









YOUR ROOF RAIL KIT IS NOW COMPLETELY INSTALLED. THIS IS WHAT YOUR LADDER RACK SHOULD LOOK LIKE AT THIS TIME. REFER BACK TO THE DDLR INSTALL INSTRUCTOINS TO COMPLETE YOUR LADDER RACK ASSEMBLY. NOTE: THIS IS A PICTURE OF THE **RRKSPH INSTALLED FOR A** DDLR61SPH. IF YOU HAVE THE DDLR63SPH, YOUR LADDER RACK WILL LOOK SLIGHTLY DIFFERENT. THE FOLLOWING VIEWS ARE OF COMPLETED 61 AND 63 LADDER RACK UNITS USING THIS ROOF RAIL KIT. DDLR61SPH DDLR63SPH