

PRODUCT WEIGHT 157 lbs



WIDTH x DEPTH x HEIGHT 91″x113″x18″

CAPACITY 28 FOOT EXT

COLOR Aluminum / Black

CATALOG NUMBER

DDLR63NVL

PRODUCT FEATURES

This double drop down rack and roof cross-bow kit is designed to fit the Nissan NV low roof. 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 Nissan NV by OEM supplied fastening points.

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

CATALOG NUMBER DDLR63NVL

PRODUCT APPLICATION

This Double drop down unit is designed to fit the Nissan NV low roof.

ACCESSORIES THAT WILL WORK WITH THIS PRODUCT

CATALOG NUMBER DESCRIPTION

DDLRSLK2 STEP LADDER KIT

ADRIAN STEEL

- 69-DDCS DDLR, LADDER RACK EXTENSION, CURB SIDE—32 FOOT EX-TENSION LADDER
- 69-DDSS DDLR, LADDER RACK EXTENSION, STREET SIDE-32 FOOT EXTENSION LADDER
 - 80-1LR CONDUIT KITS, ALUMINUM
 - 70-1LR CONDUIT KITS, PVC
 - 57107 DDLR WIDE STEP LADDER KIT-ADD ON PIECE

SPECIAL APPLICATION NOTES

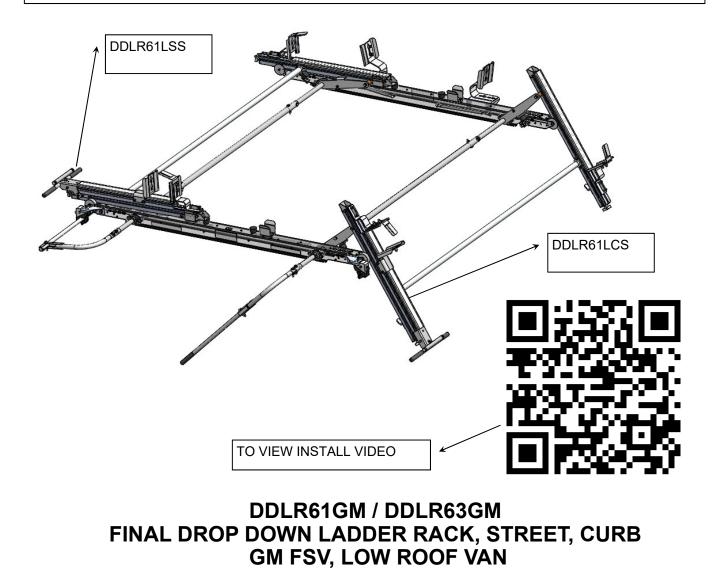


Introduction / Comments:

THIS DROP DOWN UNIT IS CURB SIDE, STREET SIDE SPECIFIC. THE DROP DOWN IS FOR LOW ROOF VEHICLES, THESE INSTRUCTIONS WILL BE SHOWING THE GM FSV AND SOME FORD TRANSIT PICTURES FOR THE VEHICLE REPRESENTATION. THIS DROP DOWN LADDER RACK IS DESIGNED TO ADAPT TO AN ADRIAN STEEL CROSS BOW KIT FOR VARIOUS STANDARD ROOF VEHICLES.

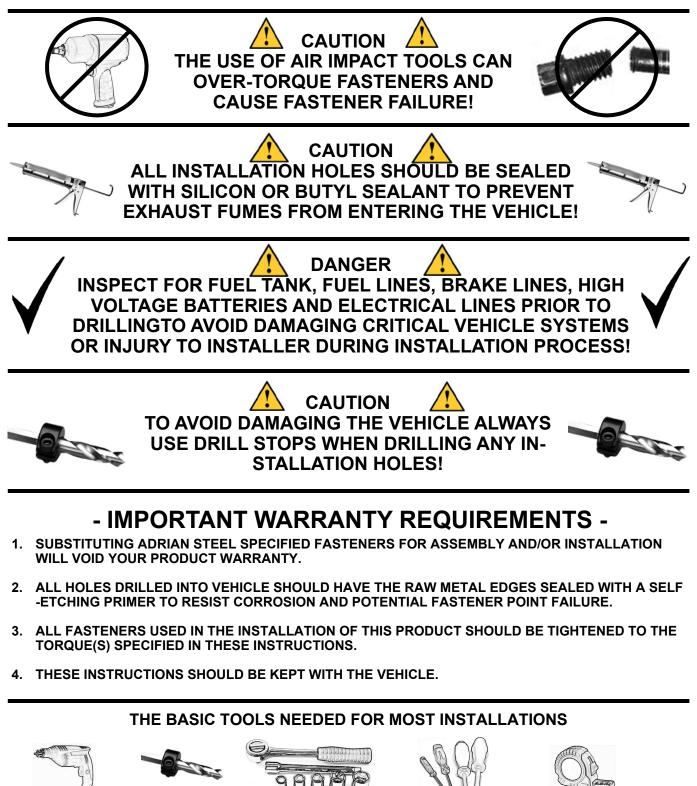
Note:

It is advised that all fasteners used in this assembly and installation of this Rack 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 package gives you long service life.





- PRECAUTIONS -



RATCHET, SOCKETS

AND/OR WRENCHES

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

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906 JAMES STREET

ADRIAN, MI 49221

800-677-2726

SCREWDRIVERS

DRILL BIT WITH

STOP

DRILL

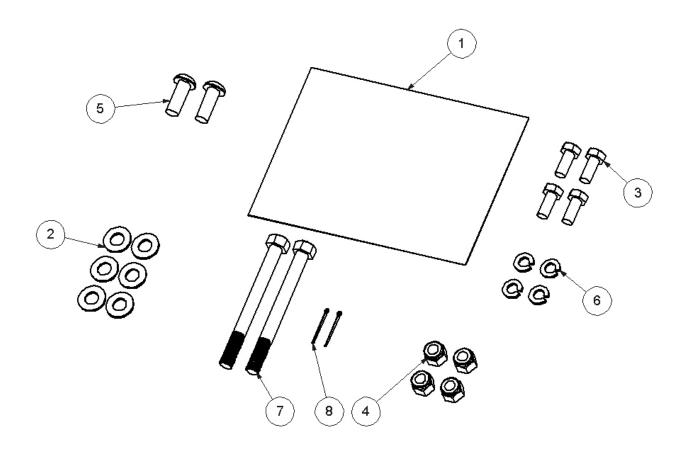
MEASURING TAPE



Cargo Management Solutions for Commercial Vehicles

BAG51041—FINAL ASSEMBLY FASTENER BAG

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0507-A	5" x 7" 3MIL AUTOBAG	1
2	FAS0246	Washer, Flat, 3/8, HRD, ZN	6
3	FAS0799	Screw, Hex Hd, 5/16-18x0.75 SS	4
4	FAS0110	Nut,Hex Nylk 3/8-16 SS W	4
5	FAS0572	Screw, Button Hd Hex Soc, 3/8-16x1.00 NI-ZN	2
6	FAS0588	Washer, Lock, Split, 5/16, SS	4
7	FAS0286	SCREW, HHCS, 3/8-16x4, SS	2
8	FAS0287	COTTER PIN, 1/16DIA X 1"LG, SS	2



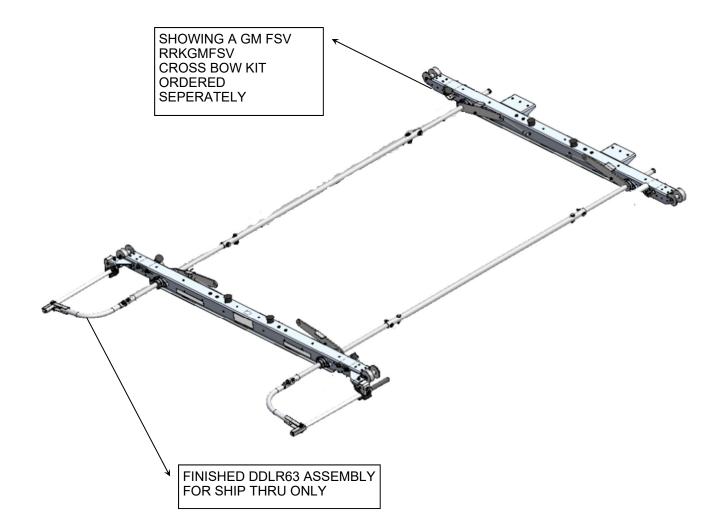


STEP 1A : THIS IS THE SHIP THRU SINGLE DROP DOWN AS YOU WOULD RECEIVE FOR FINAL DEALER ASSEMBLY. SEE STEP 1B FOR DOUBLE DROP DOWN.



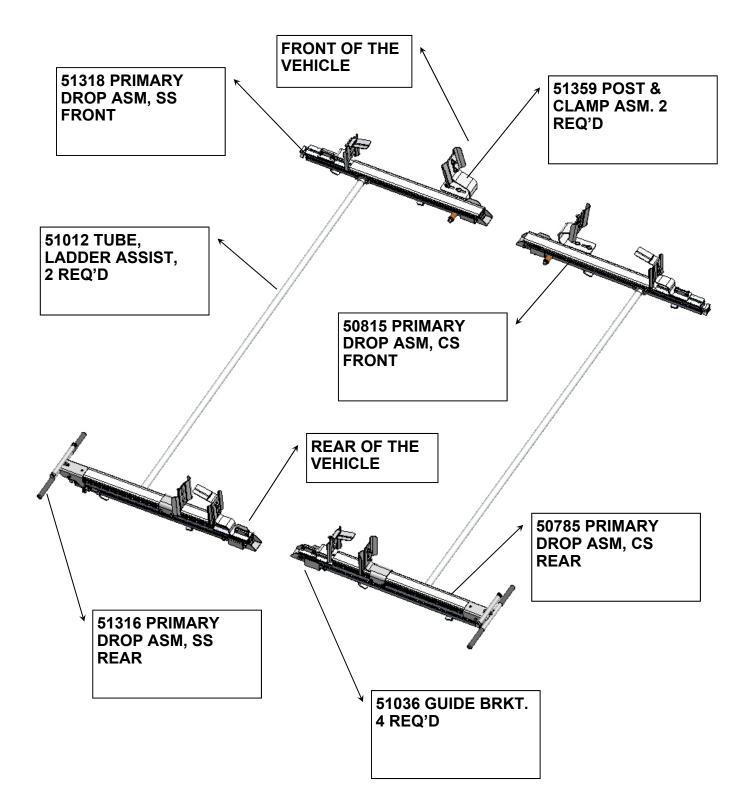


STEP 1B : THIS IS THE SHIP THRU DOUBLE DROP DOWN AS YOU WOULD RECEIVE FOR FINAL DEALER ASSEMBLY



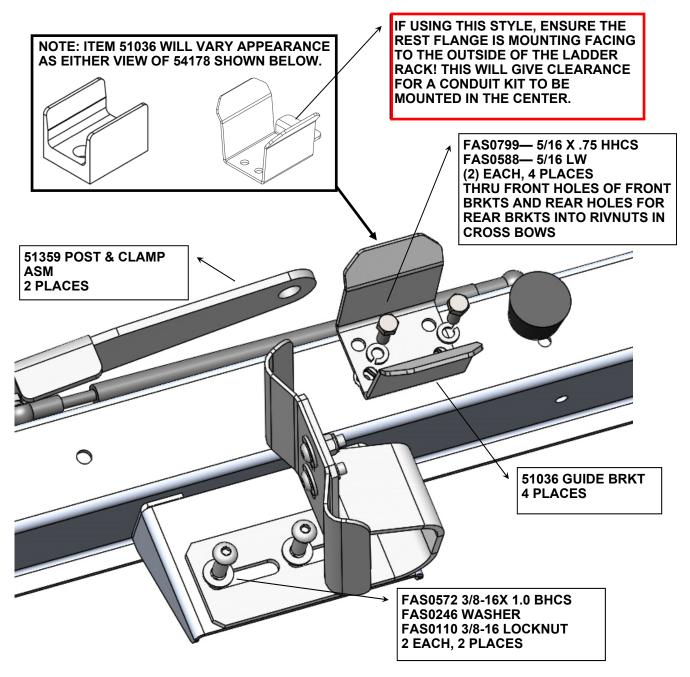


STEP 2 - THIS IS THE FINAL ASSEMBLY, SHOWING THE CURB AND STREET SIDE DROP DOWN COMPONENTS

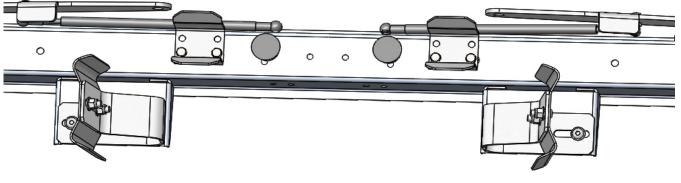




STEP 3 : ASSEMBLE BRACKETS TO THE FRONT CROSS BOW



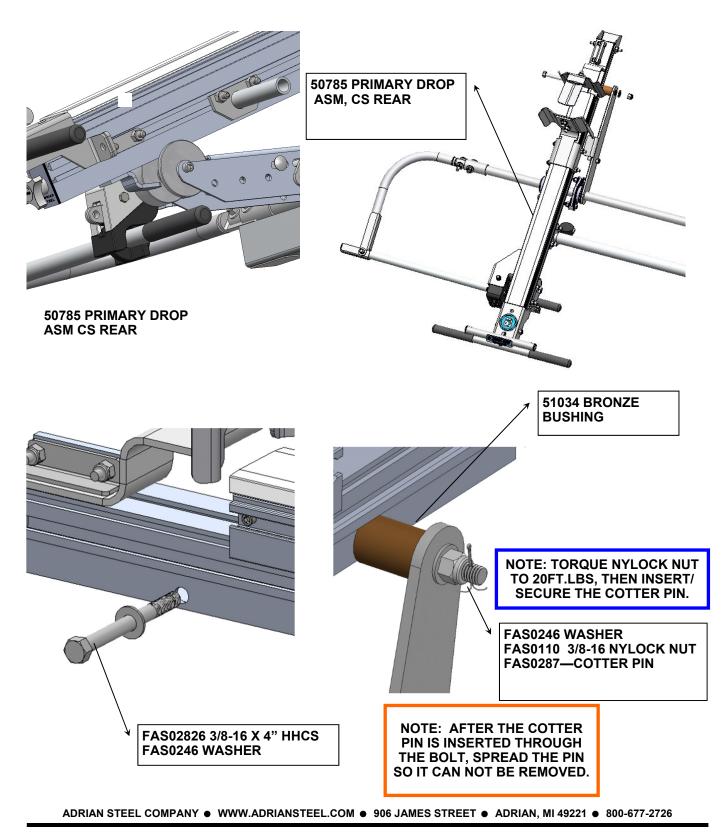
COMPLETED VIEW OF THE FRONT CROSS BOW





STEP 4 : ASSEMBLE REAR CURB SIDE PRIMARY DROP TO RACK

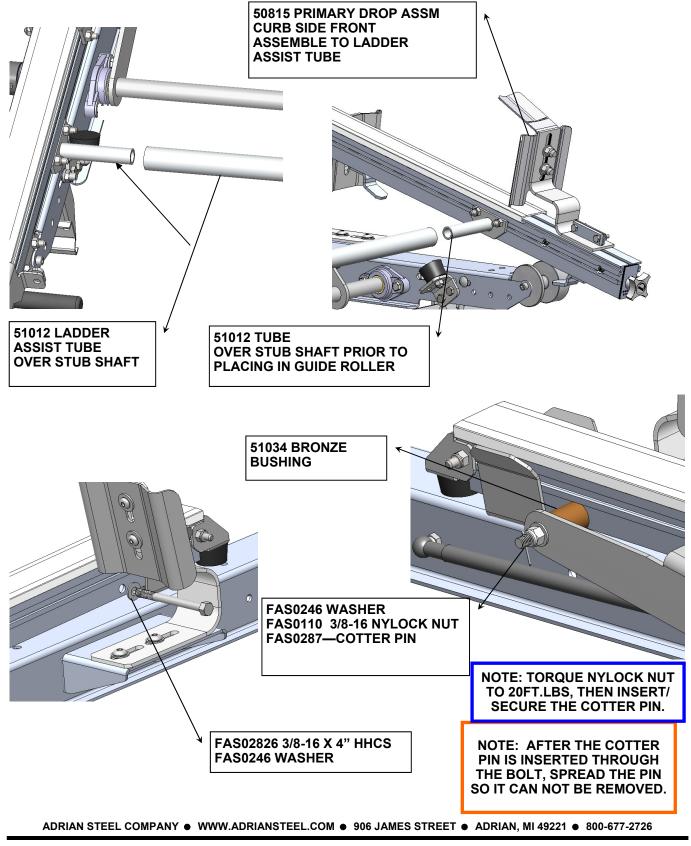
SET 50785 PRIMARY DROP ASM, REAR CS IN PLACE ON REAR CROSS BOW. USE GUIDE ROLLER TO HELP LOAD INTO POSITION





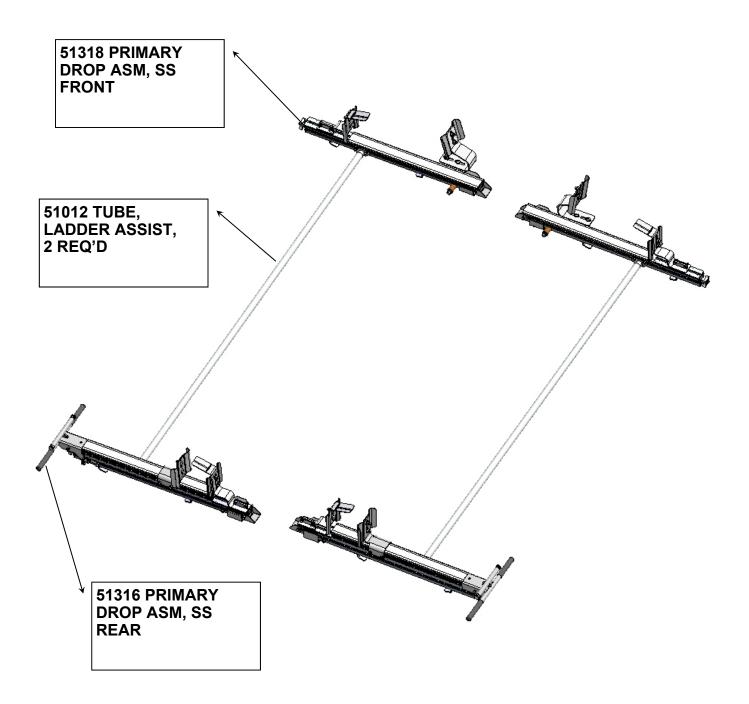
STEP 5 : ASSEMBLE FRONT SIDE PRIMARY DROP TO RACK

SET 50815 PRIMARY DROP ASM, FRONT CS IN PLACE ON FRONT CROSS BOW. USE GUIDE ROLLER AFTER LADDER ASSIST TUBE IS ON BOTH STUB SHAFTS





STEP #6 : FOR A DOUBLE DROP DOWN, INSTALL STREET SIDE USING STEPS #4 & #5 AS YOUR GUIDE.



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!



STEP #7 : YOUR DOUBLE DROP DOWN INSTALLATION IS NOW COMPLETE FOR A COMBO RACK, GO TO STEP 8



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!

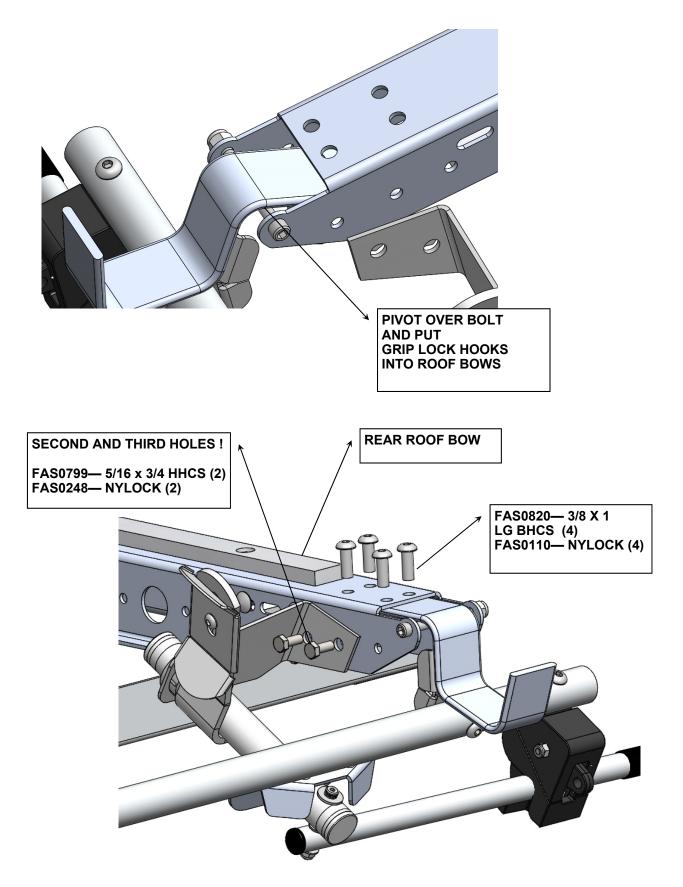


STEP #08 : COMBO RACK, FINAL INSTALL- STREET SIDE GRIP LOCK



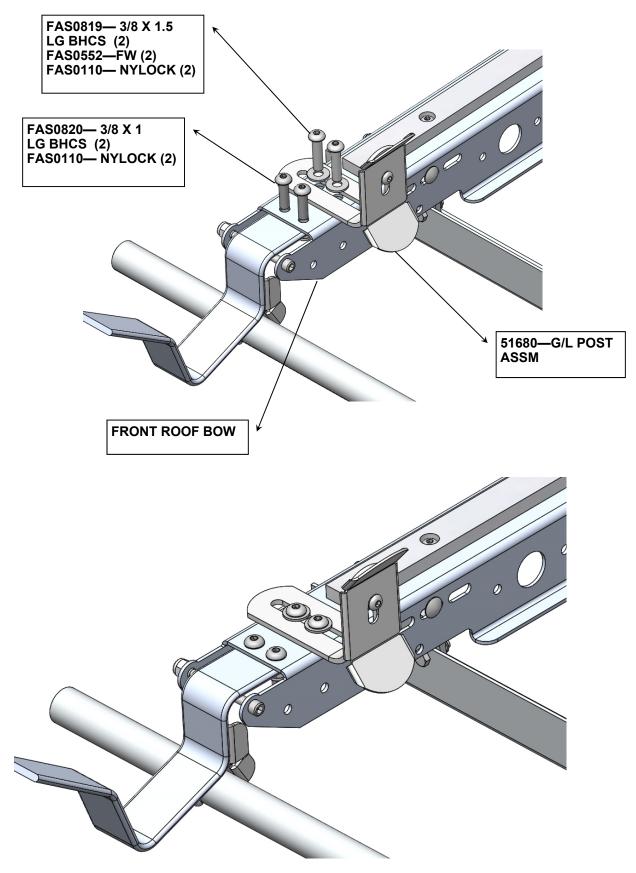


STEP #9 : COMBO RACK, INSTALL STREET SIDE GRIP LOCK





STEP #10: FRONT ROOF BOW ASSEMBLY -STREET SIDE





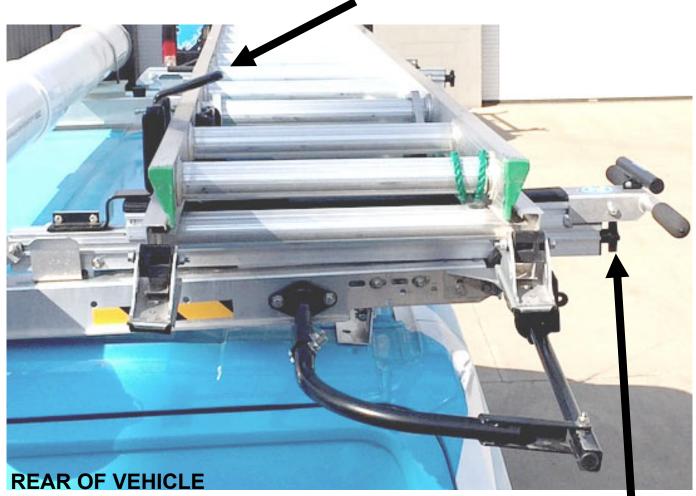
STEP #23 : YOUR DROP DOWN COMBO INSTALLATION IS NOW COMPLETE



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!



REAR CLAMP PAD MOVES TOWARDS CURB TO TIGHTEN LADDER TO RACK





TURN KNOB TO ADJUST TO YOUR LADDER.

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

DDLR Series Final Adjustment Instruction (GMFSV / Ford Transit)

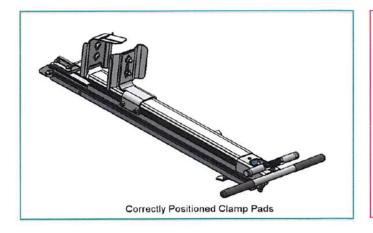


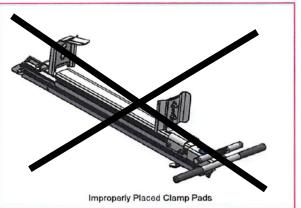


Proper Clamp Pad Locations

Below is the proper way to clamp the ladder to the vehicle (highlighted in green)

How to inspect for this: Properly placed clamp pads should be in close proximity to each other to allow the clamp pads to securely retain the ladder from side to side motion and front to back motion.

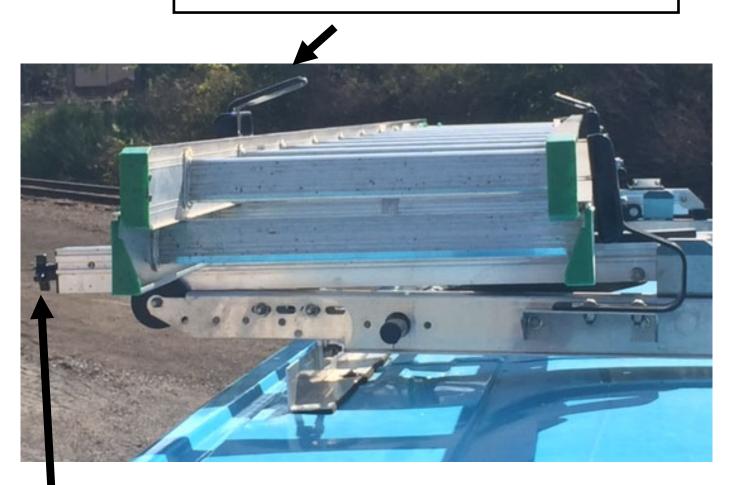




Above is the wrong way to clamp the ladder to the vehicle



FRONT CLAMP PAD MOVES TOWARDS STREET TO TIGHTEN LADDER TO RACK



TURN KNOB TO ADJUST TO YOUR LADDER.

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

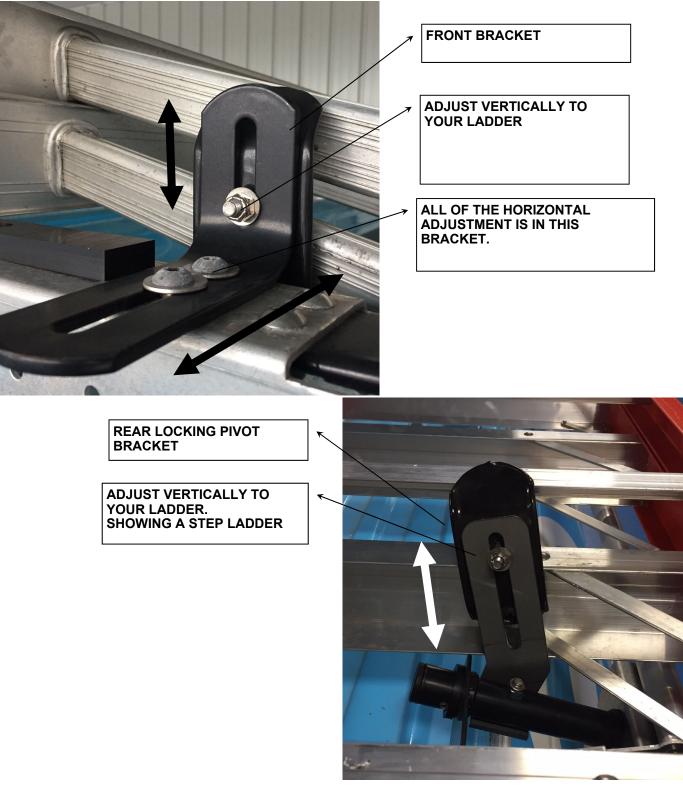


DDLR Series Final Adjustment Instruction (GMFSV / Ford Transit)

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STEP #10A: HOW TO ADJUST THE CLAMP PADS

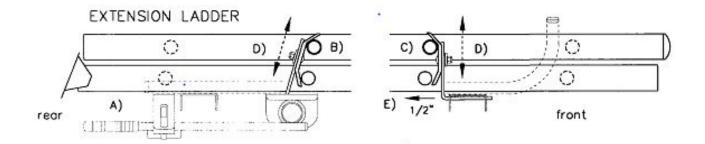


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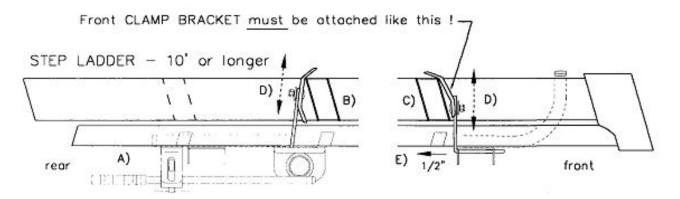
STEP #10B : HOW TO ADJUST THE CLAMP PADS

ADRIAN STEEL

- A) Load your ladder onto the ladder rack (see page 14) and latch the HANDLE BAR into the HANDLE LATCH.
- B) Now slide the ladder back towards the rear of the vehicle and slide the rear CLAMP BRACKET to fit snug over and against the top ladder rung. ** See bottom illustration for STEP LADDERS ! ** SEE ILLUSTRATION BELOW.
- C) Next slide the FRONT STOP POST at the front of the ladder rack back towards the rear of the vehicle and fit the front CLAMP BRACKET to the top ladder rung the same as the rear.
- D) Firmly tighten both front and rear CLAMP BRACKETS to their posts and tighten snug the FRONT STOP POST to the front CROSS SUPPORT.
- E) Now unlatch the HANDLE BAR and unload your ladder. Next loosen the FRONT STOP POST and slide it out towards the rear of the vehicle 1/2" and FIRMLY RETIGHTEN ! YOUR LADDER RACK SHOULD NOW BE ADJUSTED FOR YOUR LADDER.



CAUTION: Never clamp up the first step and the head of the STEP LADDER !



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!

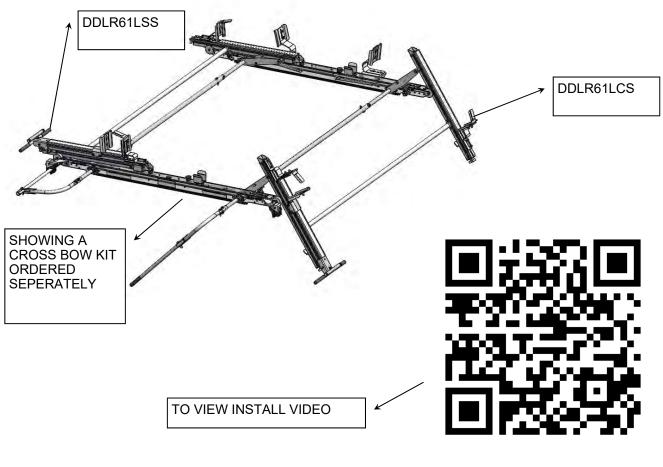


Introduction / Comments:

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Note:

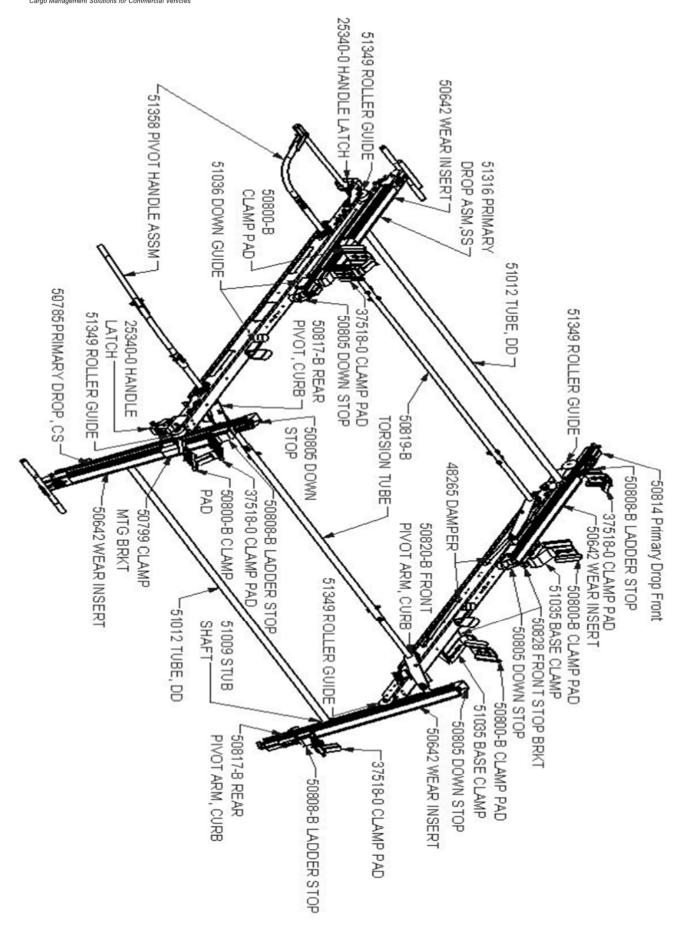
It is advised that all fasteners used in this assembly and installation of this Rack should be checked for tightness at the following intervals: @ 2-weeks and again @ 6-weeks of operation. This preventive maintenance step must be completed to ensure your package gives you long service life.



DDLR61FTL / DDLR63FTL DROP DOWN LADDER RACK, STREET, CURB VARIOUS LOW ROOF VANS

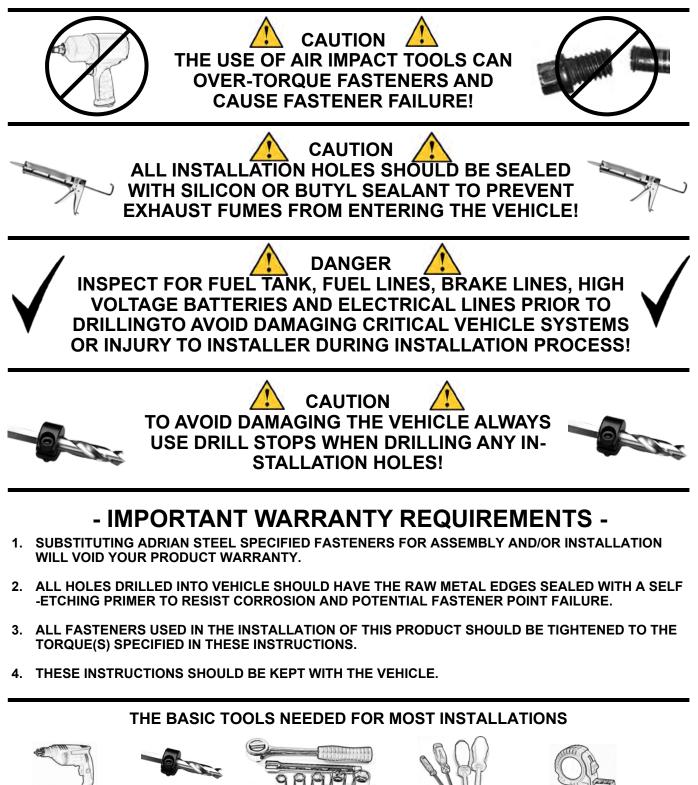


2





- PRECAUTIONS -



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

RATCHET, SOCKETS

AND/OR WRENCHES

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SCREWDRIVERS

DRILL

DRILL BIT WITH

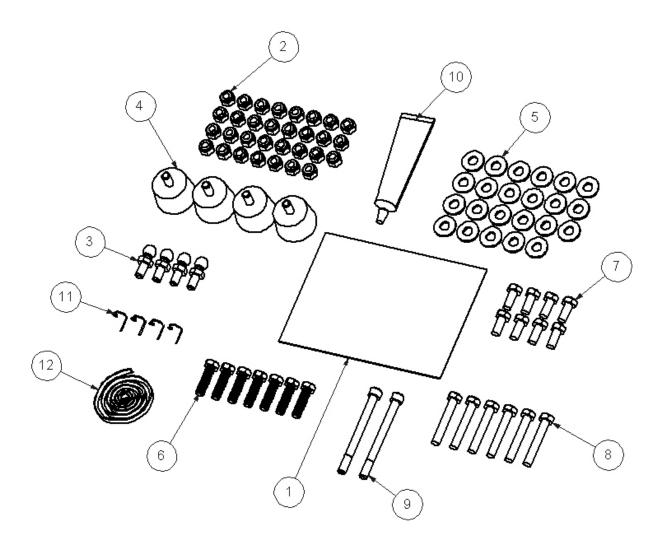
STOP

MEASURING TAPE



BAG51043 - DROP DOWN ASSEMBLY BAG

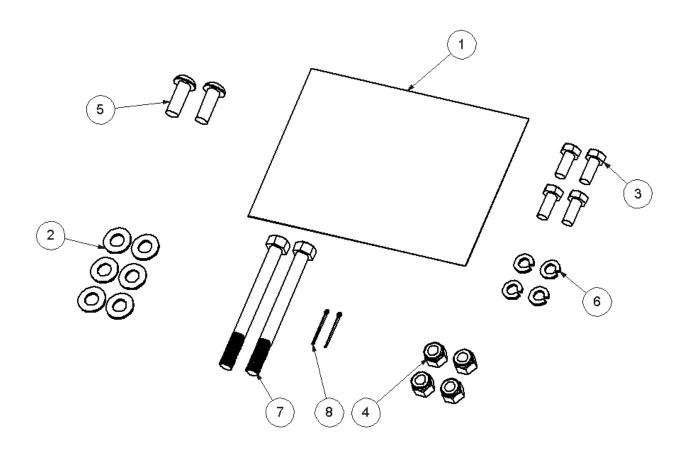
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0507-A	5" × 7" 3MIL AUTOBAG	1
2	FAS0248	Nut, Nylon Insert Lock, 5/16-18 SST	31
3	34927-0	Ball Stud, Damper	4
4	34924-0	Neoprene Bumper	4
5	FA\$0552	Washer, Flat, 5/16, SST	23
6	FA\$0830	Screw, Hex Hd, 5/16-18 X 1.25 SS	7
7	FAS0799	Screw, Hex Hd, 5/16-18x0.75 SS	8
8	FASO179	Screw, Hex Hd, 5/16-18x2.00 STAINLESS STEEL	6
9	FAS0811	SCREW,CAP, 5/16-18X3.50 SS	2
10	26618-0	Silicone Sealant	1
11	34928-0	Clip, Suspa P/N P68-00019	4
12	05586-0	Butyl Tape, T224 -1/2"X 1' Roll	1





BAG51041—FINAL ASSEMBLY FASTENER BAG

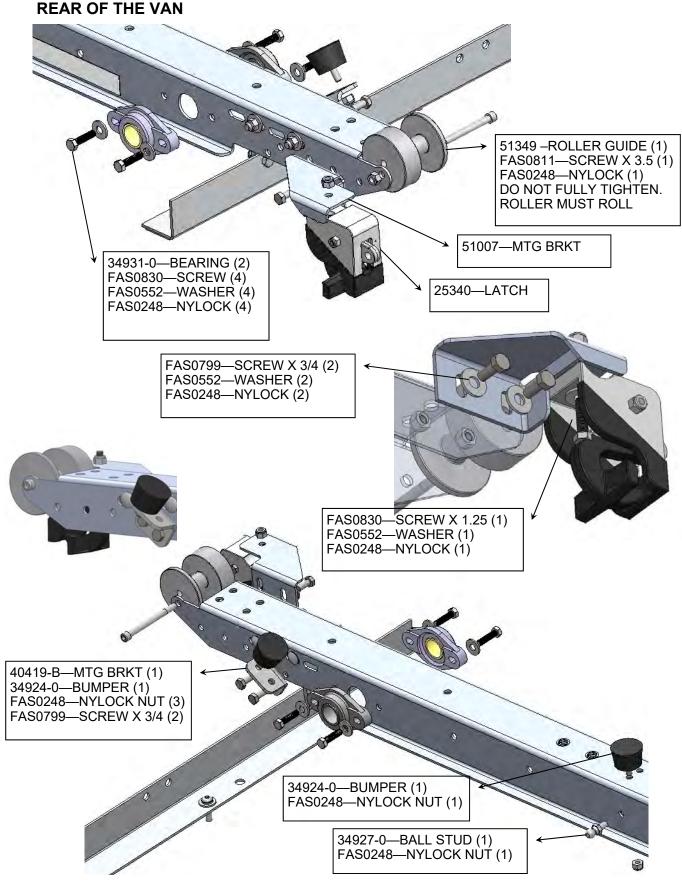
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0507-A	5" x 7" 3MIL AUTOBAG	1
2	FAS0246	Washer, Flat, 3/8, HRD, ZN	6
3	FAS0799	Screw, Hex Hd, 5/16-18x0.75 SS	4
4	FAS0110	Nut,Hex Nylk 3/8-16 SS W	4
5	FAS0572	Screw, Button Hd Hex Soc, 3/8-16x1.00 NI-ZN	2
6	FAS0588	Washer, Lock, Split, 5/16, SS	4
7	FAS0286	SCREW, HHCS, 3/8-16x4, SS	2
8	FAS0287	COTTER PIN, 1/16DIA X 1"LG, SS	2

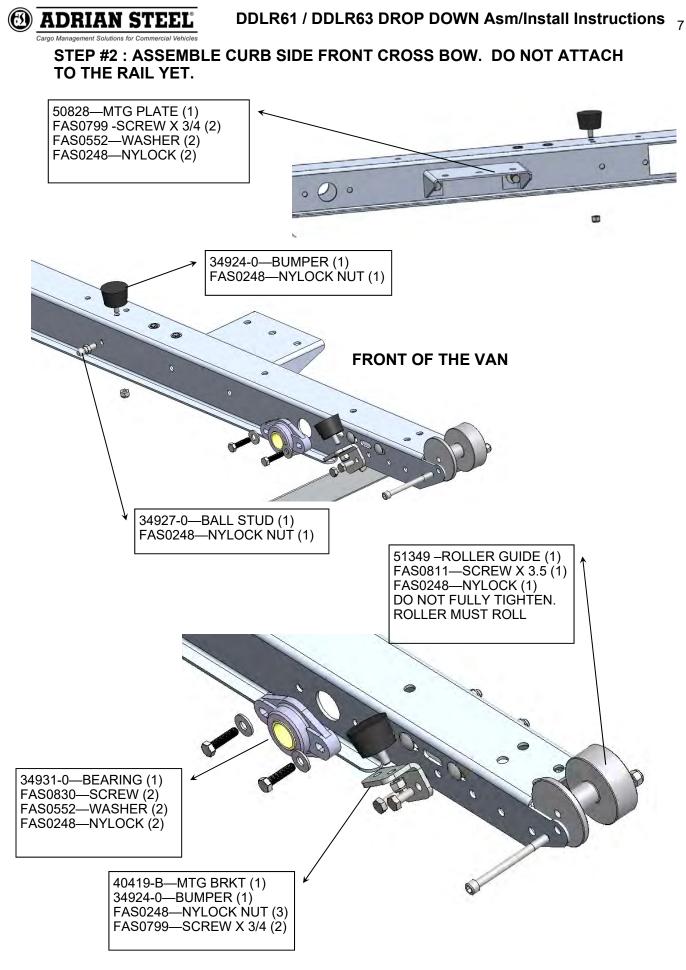




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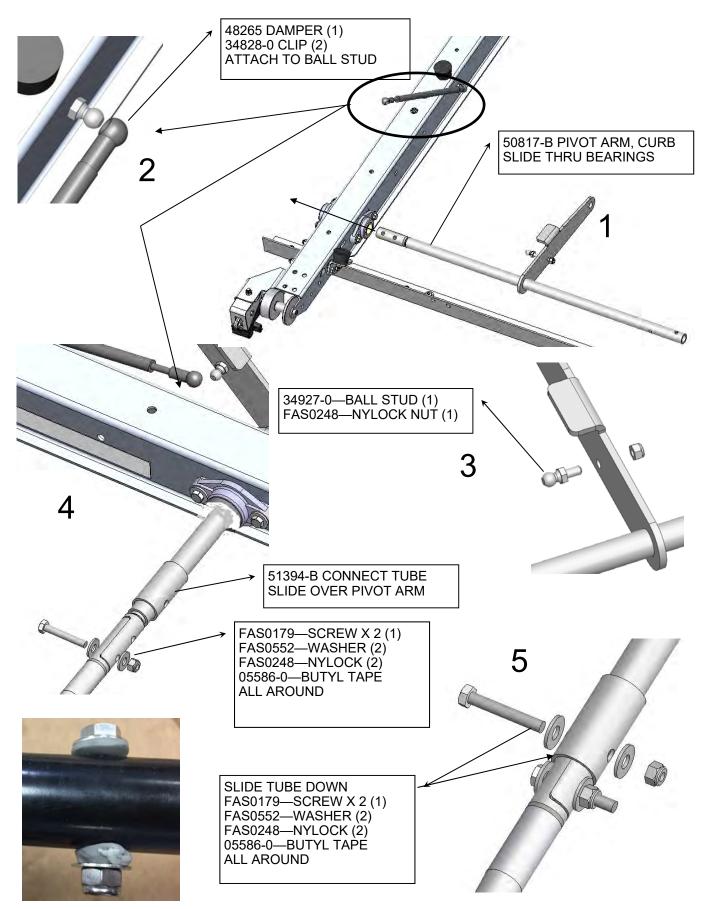
STEP #1 : ASSEMBLE CURB SIDE REAR CROSS BOW





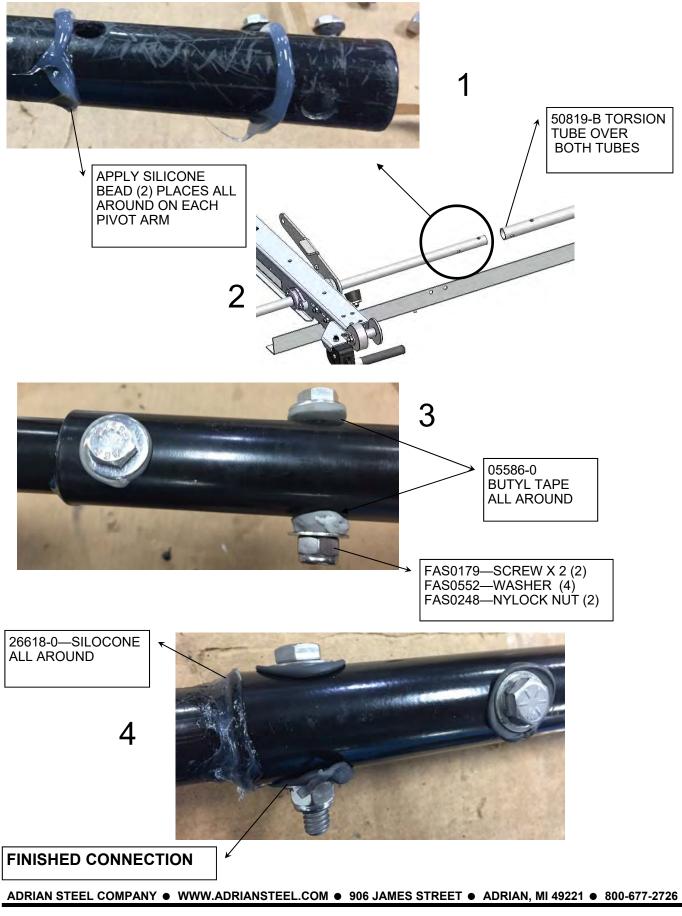


STEP #3 : ASSEMBLE CURB SIDE PIVOT DRIVE TO THE CROSS BOWS



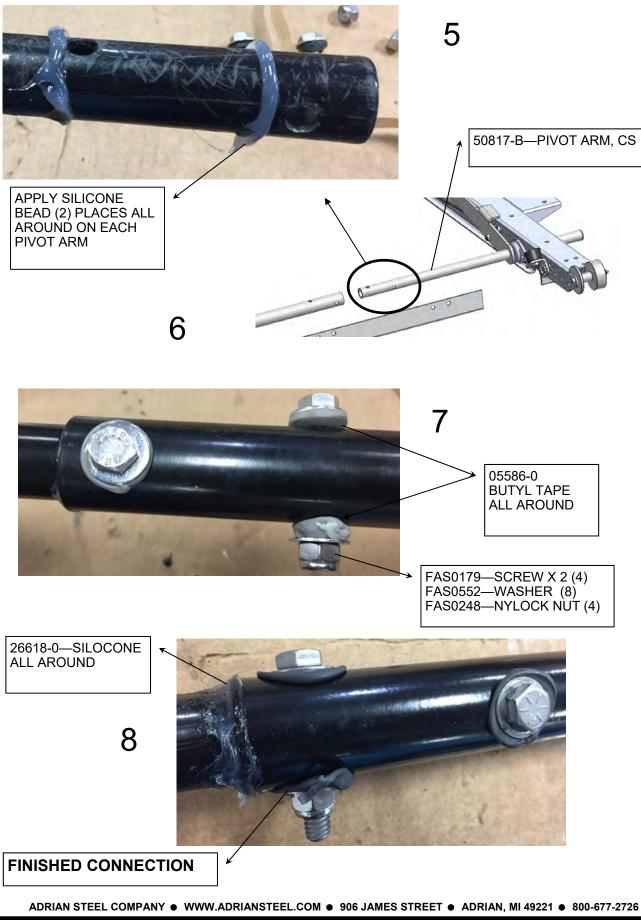


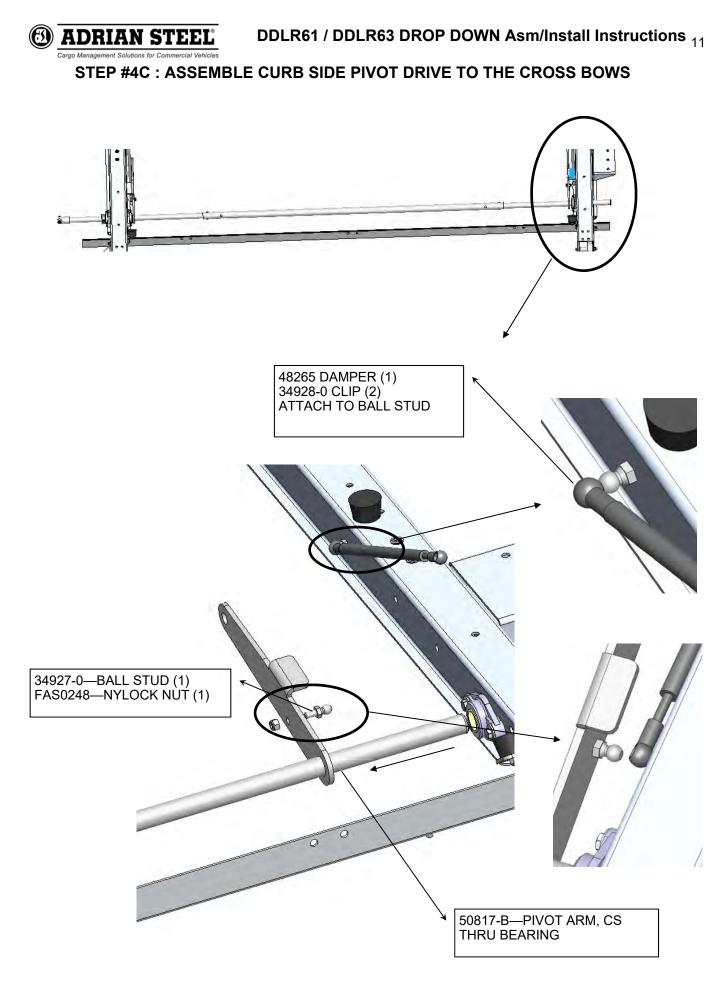
STEP #4A : ASSEMBLE CURB SIDE PIVOT DRIVE AT REAR OF VEHICLE.





STEP #4B : ASSEMBLE CURB SIDE PIVOT DRIVE AT FRONT OF VEHICLE

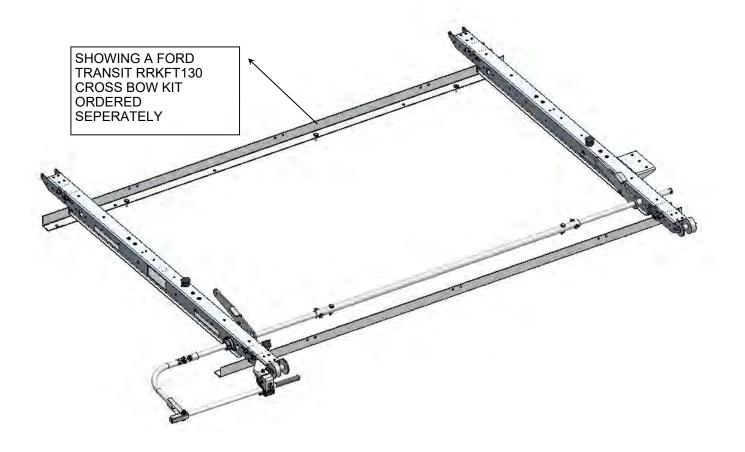






12

STEP #5 : THIS IS THE FINISHED CURB SIDE PIVOT DRIVE -CONTINUE TO STEP #11 FOR A COMPLETE ASSEMBLY / INSTALL -CONTINUE TO STEP #6 FOR THE STREET SIDE PIVOT DRIVE.

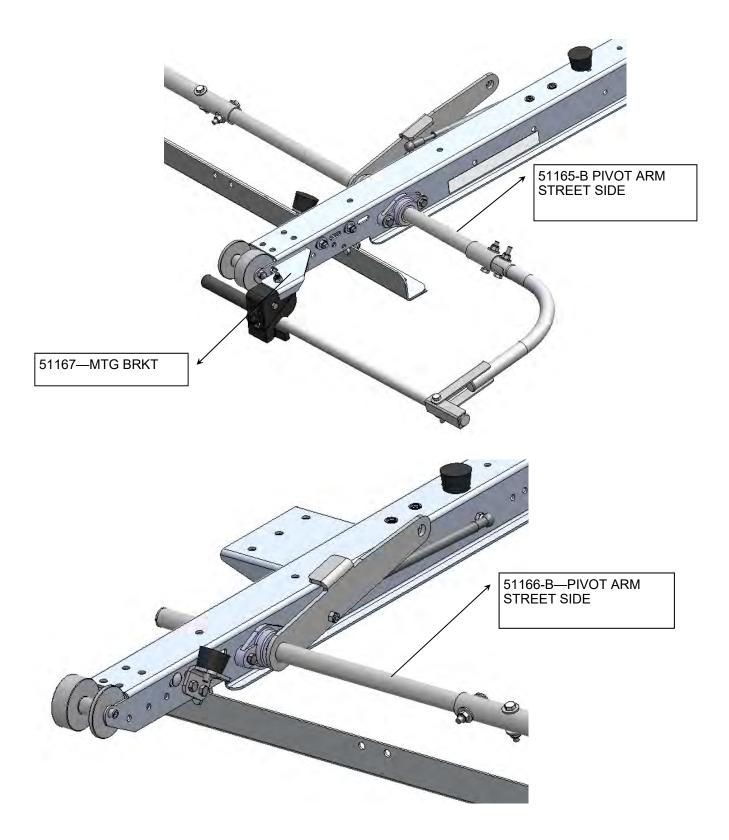


STEP #6 : THIS IS THE FINISHED CURB SIDE PIVOT DRIVE. -CONTINUE TO STEP #7 FOR A COMPLETE ASSEMBLY / INSTALL -CONTINUE TO STEP #9 FOR THE STREET SIDE PIVOT DRIVE



STEP #6 THRU #9: ASSEMBLE STREET SIDE REAR CROSS BOW

USE STEPS #1 THRU #4 AS YOUR GUIDE—FINAL SHIP THRU STREET SIDE ASSEMBLY SHOWN BELOW





14

STEP #10 : THIS IS THE FINISHED CURB AND STREET SIDE PIVOT DRIVE -CONTINUE TO STEP #11 FOR A COMPLETE ASSEMBLY / INSTALL

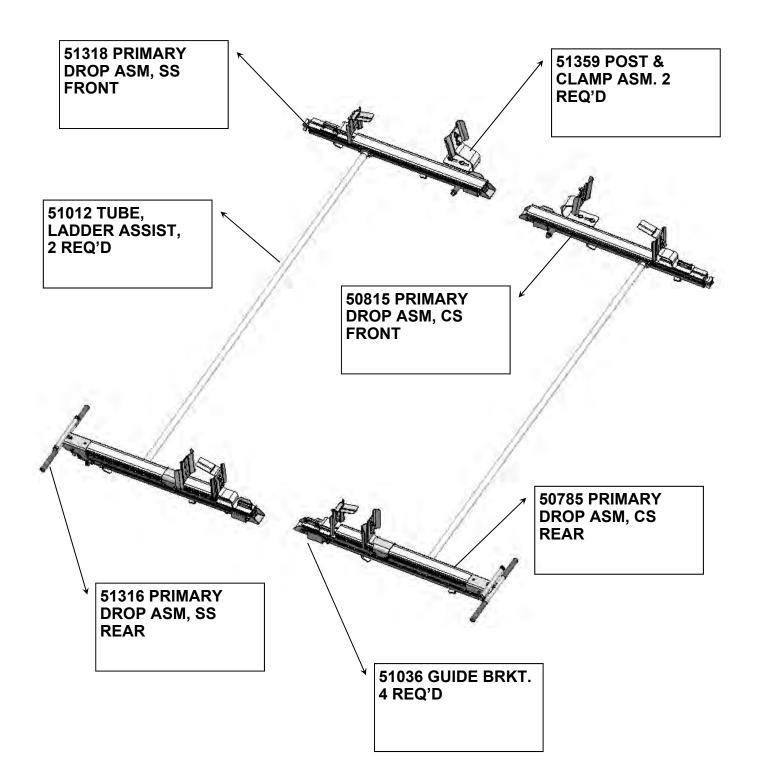


STEP #10 : THIS IS THE FINISHED CURB AND STREET SIDE PIVOT DRIVE. -CONTINUE TO STEP #11 FOR A COMPLETE ASSEMBLY / INSTALL



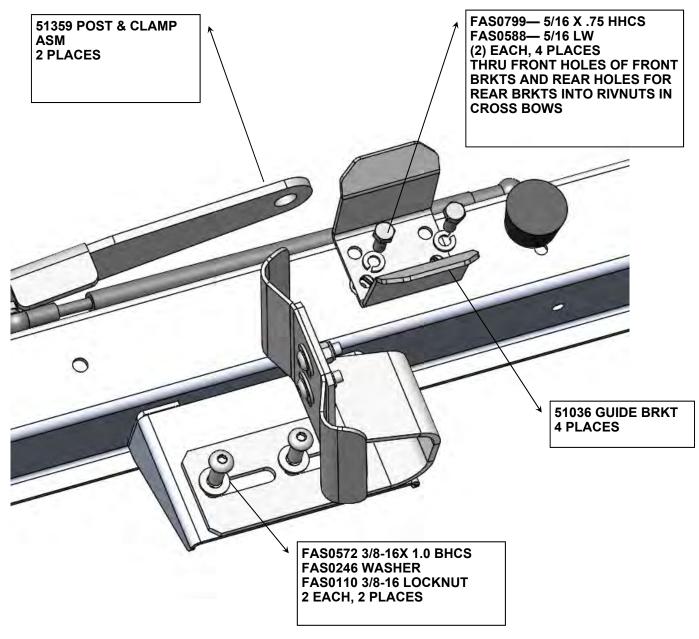
Cargo Management Solutions for Commercial Vehicles

STEP #11 - THIS IS THE FINAL ASSEMBLY, SHOWING THE CURB AND STREET SIDE DROP DOWN COMPONENTS

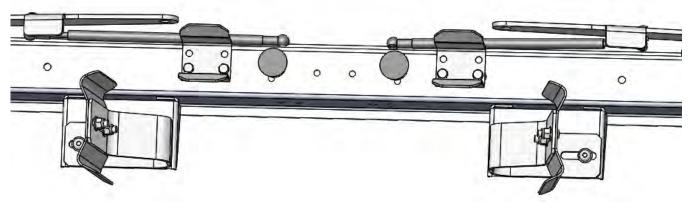




STEP 12 : ASSEMBLE BRACKETS TO THE FRONT CROSS BOW



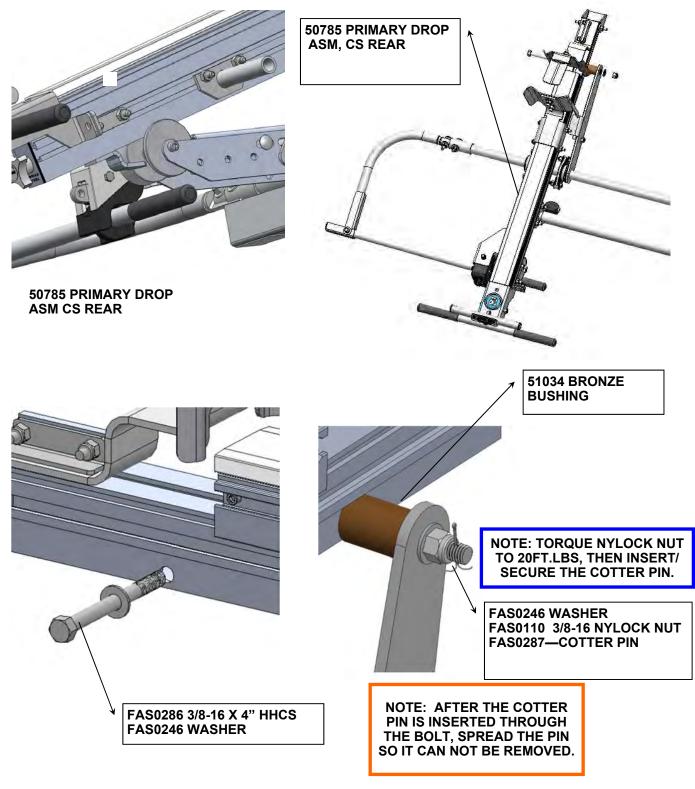
STEP 12 : COMPLETED VIEW OF THE FRONT CROSS BOW





STEP 13 : ASSEMBLE REAR CURB SIDE PRIMARY DROP TO RACK

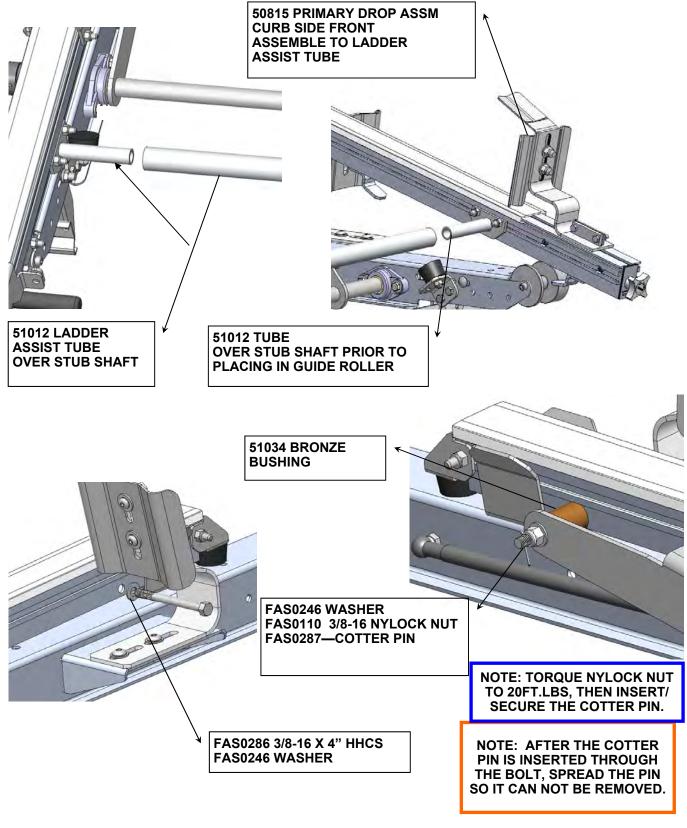
SET 50785 PRIMARY DROP ASM, REAR CS IN PLACE ON REAR CROSS BOW. USE GUIDE ROLLER





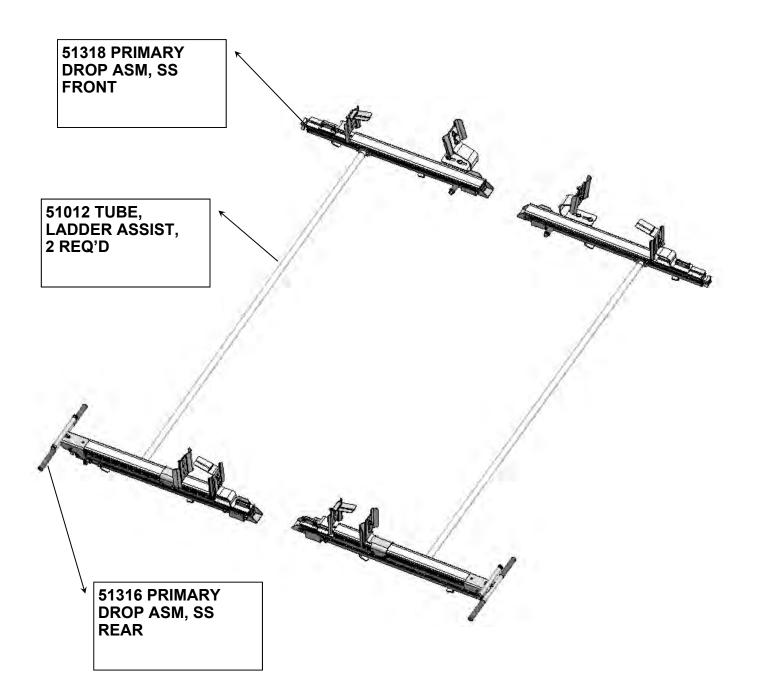
STEP 14 : ASSEMBLE FRONT SIDE PRIMARY DROP TO RACK

SET 50815 PRIMARY DROP ASM, FRONT CS IN PLACE ON FRONT CROSS BOW. USE GUIDE ROLLER AFTER LADDER ASSIST TUBE IS ON BOTH STUB SHAFTS





STEP #15 : FOR A DOUBLE DROP DOWN, INSTALL STREET SIDE USING STEPS #13 & 14 AS YOUR GUIDE.



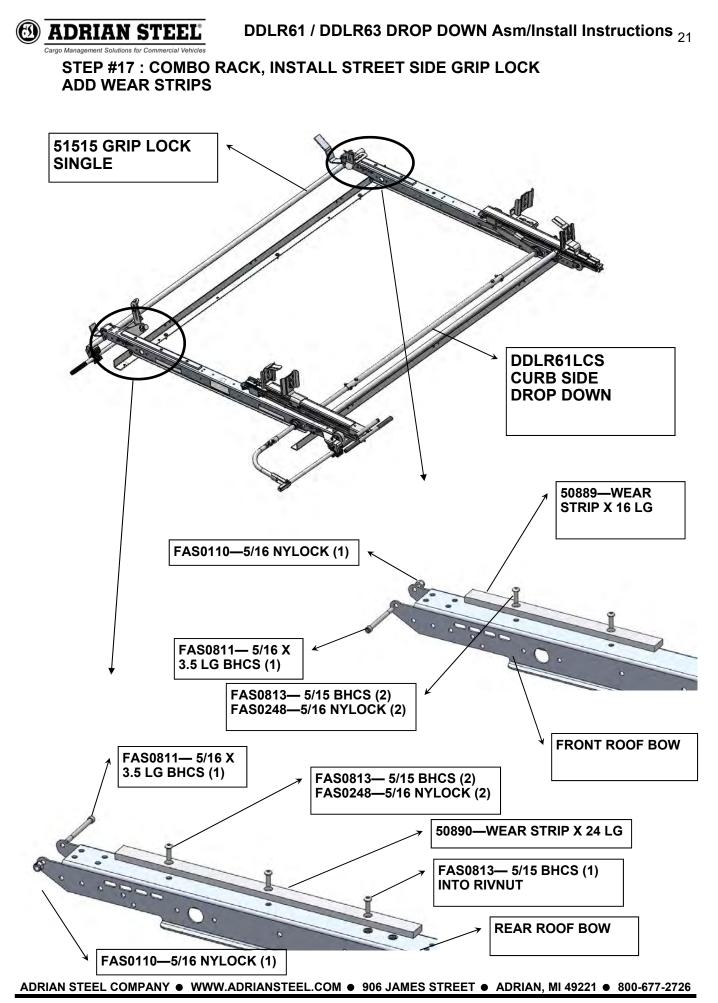
DOUBLE CHECK ALL FASTENERS LOCATIONS TO BE SURE THAT ALL FASTENERS ARE TIGHTENED TO SPECIFICATIONS. YOUR INSTALLATION IS NOW COMPLETE! STOW THIS COPY IN THE VEHICLE FOR FUTURE REFERENCES!



STEP #16 : YOUR DOUBLE DROP DOWN INSTALLATION IS NOW COMPLETE GO TO STEP 17 FOR A COMBO RACK

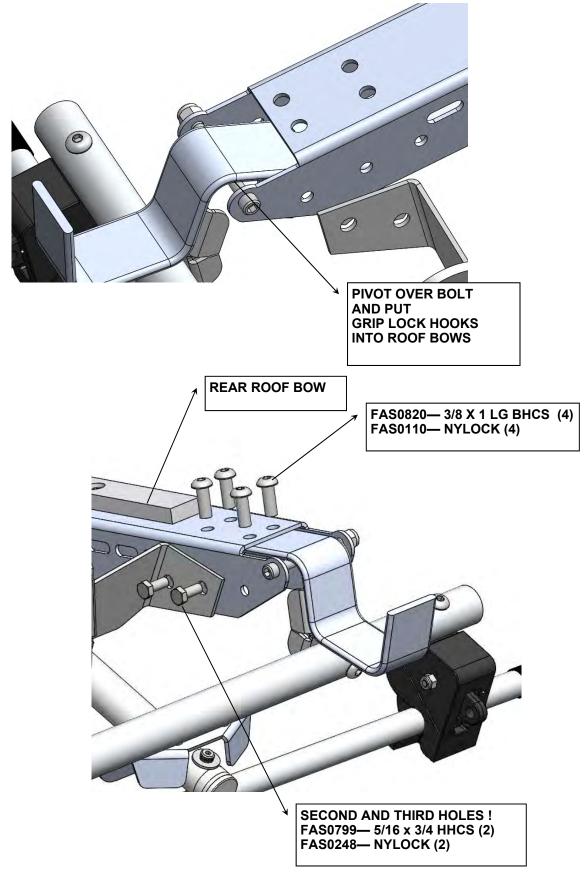


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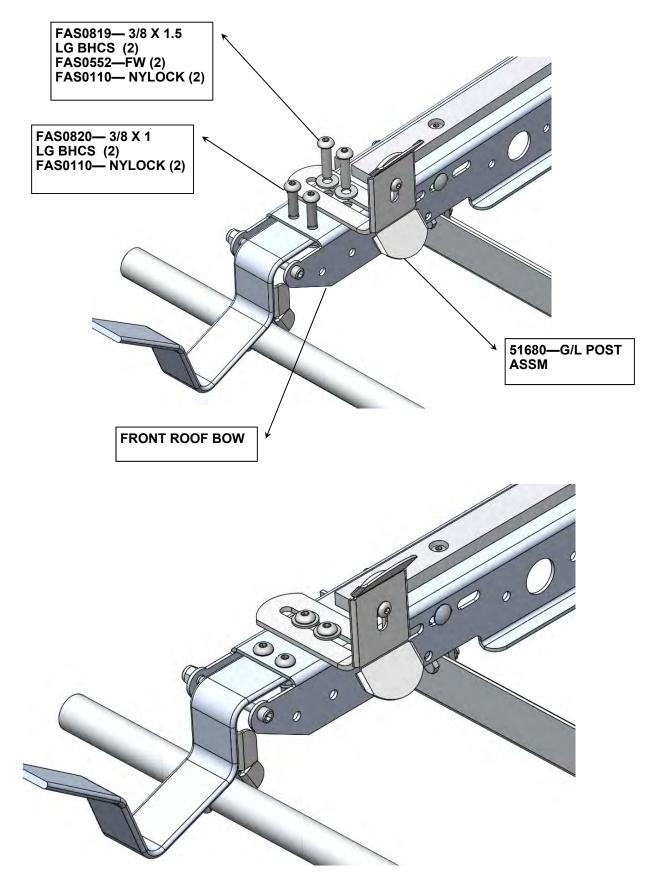


STEP #18 : COMBO RACK, INSTALL STREET SIDE GRIP LOCK





STEP #19: FRONT ROOF BOW ASSEMBLY -STREET SIDE





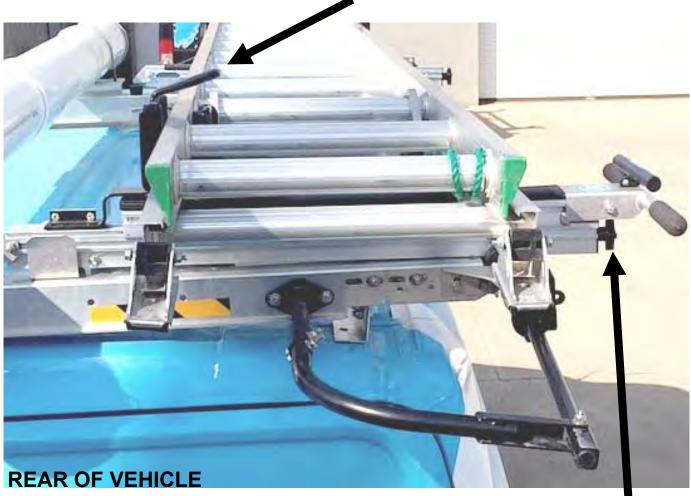
STEP #23 : YOUR DROP DOWN COMBO INSTALLATION IS NOW COMPLETE



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REAR CLAMP PAD MOVES TOWARDS CURB TO TIGHTEN LADDER TO RACK





TURN KNOB TO ADJUST TO YOUR LADDER.

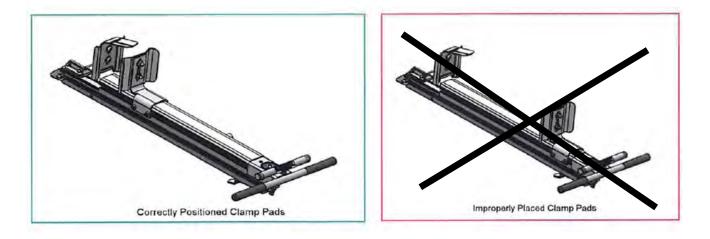
DO NOT OVER TIGHTEN! CLAMP PAD SHOULD JUST TOUCH THE LADDER.



Proper Clamp Pad Locations

Below is the proper way to clamp the ladder to the vehicle (highlighted in green)

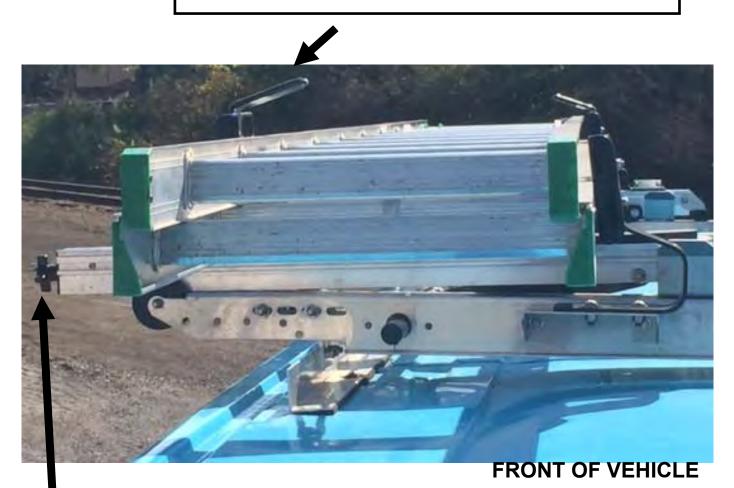
How to inspect for this: Properly placed clamp pads should be in close proximity to each other to allow the clamp pads to securely retain the ladder from side to side motion and front to back motion.



Above is the wrong way to clamp the ladder to the vehicle



FRONT CLAMP PAD MOVES TOWARDS STREET TO TIGHTEN LADDER TO RACK



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Revision Level: I



Introduction / Comments:

THIS ROOF RAIL AND CROSS BOW KIT IS DESIGNED FOR THE NISSAN LOW ROOF VAN. IT IS THE BASE UNIT FOR ALL OF THE LADDER RACK COMBINATIONS FOR THIS VEHICLE.

Note:

It is advised that all fasteners used in this assembly and installation of this Rack 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 package gives you long service life.



NISSAN LOW ROOF VAN



- PRECAUTIONS -



- 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.

STOP

THE BASIC TOOLS NEEDED FOR MOST INSTALLATIONS DRILL BIT WITH RATCHET, SOCKETS DRILL SCREWDRIVERS MEASURING TAPE

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

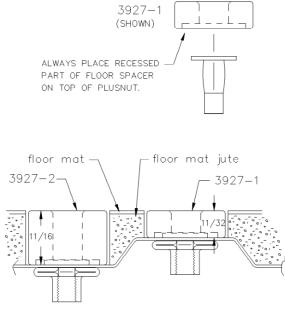
AND/OR WRENCHES



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

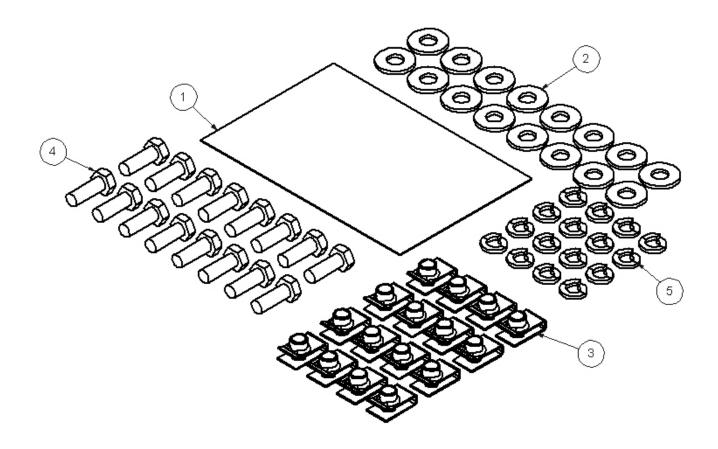
 <u>5/16-18UNC Plusnut (FAS0091) Use 1/2" dia. drill w/stop</u> FAS0095 SCREW, HXHD, 5/16-18UNCx2.00", G8 FAS0086 WASHER, FLAT, 5/16"ID 22200-0 PLUSNUT TOOL

 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).



BAG52539 - FASTENER BAG, ROOF RAIL KIT

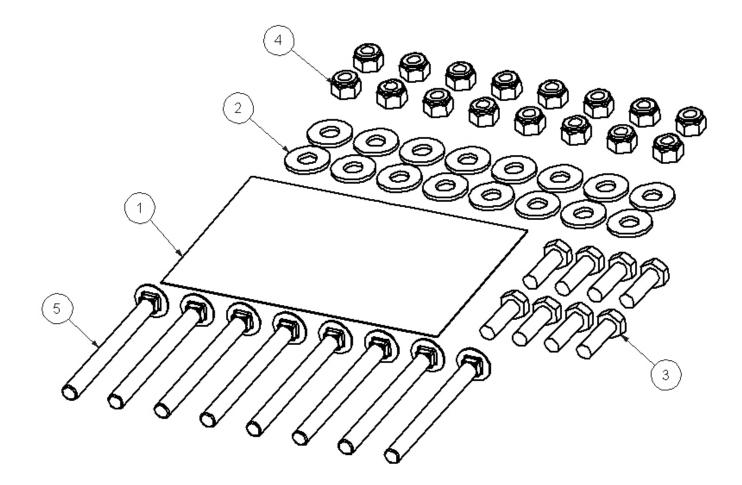
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BAG0406-A	4" x 6" 3MIL AUTOBAG	1
2	FAS0552	Washer, Flat, 5/16, SST	16
3	FAS0759	5/16-18 U-NUT	16
4	FAS0283	Screw, Hex Hd, 5/16-18 x.875 SST	16
5	FAS0588	Washer, Lock, Split, 5/16, ISS	16





BAG50896 - FASTENER BAG, ROOF RAIL

ITEM NO.	PART NUMBER	DESCRIPTION	BAG50896/QTY.
1	BAG0406-A	4" x 6" 3MIL AU TOBAG	1
2	FAS0552	Washer, Flat, 5/16, SST	16
3	FAS0597	Screw, Hex Hd, 5/16-18x 1.00 SST	8
4	FAS0248	Nut, Nylon Insert Lock, 5/16-18 SST	16
5	FAS0808	Bolt, Carriage, 5/16-18x3 1/2	8



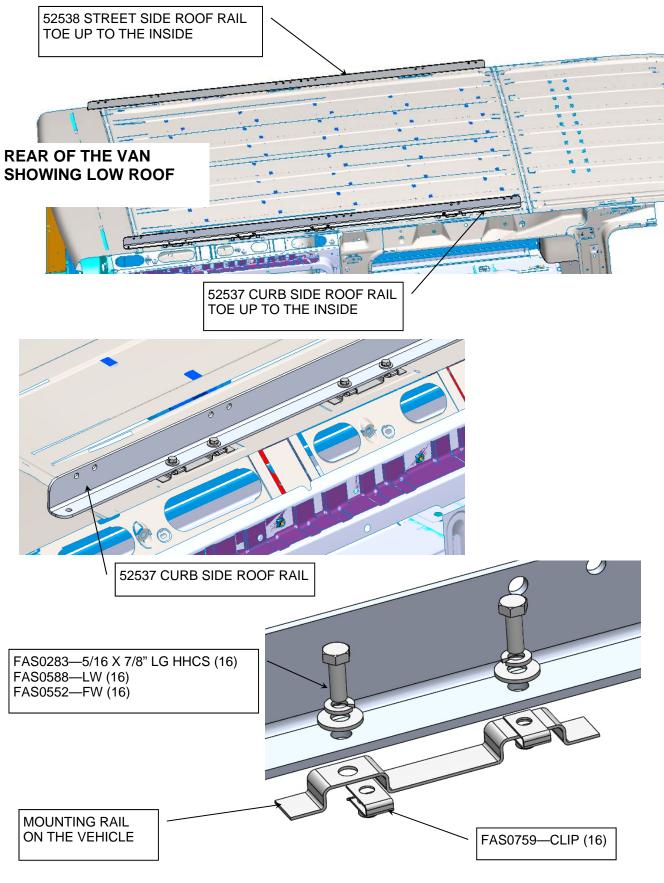


STEP #1 : FOLLOWING THE DROP DOWN OR GRIP LOCK INSTRUCTIONS, ASSEMBLE WHAT YOU CAN PRIOR TO INSTALLING ON THE VEHICLE. BELOW ARE A FEW EXAMPLES.





STEP #2 : PREP ROOF RAILS—NISSAN LOW ROOF





STEP #3 : ASSEMBLE REAR CROSS BOW TO THE ROOF RAILS

