

**PRODUCT WEIGHT**

22 LBS

**WIDTH x DEPTH x HEIGHT**

17" x 89" x 10"

**CAPACITY**

ONE 6' STEP LADDER

**COLOR**

GRAY/YELLOW

**CATALOG NUMBER**

LKPM118

**PRODUCT FEATURES**

**LADDER KEEPER FOR CARRYING STEP LADDERS SUSPENDED FROM THE CEILING INSIDE A VAN OR TRAILER. THIS UNIT IS DESIGNED FOR THE 118" WHEELBASE LOW ROOF DODGE PROMASTER VAN. HOLES NEED TO BE DRILLED AND PLUSNUTS SET IN ORDER TO INSTALL THIS UNIT.**

**SEE INSTRUCTIONS.**

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



**CATALOG NUMBER** LKPM118

***PRODUCT APPLICATION***

This product is designed to be installed IN 118" WHEELBASE, LOW ROOF DODGE PROMASTER VANS

***ACCESSORIES THAT WILL WORK WITH THIS PRODUCT***

<b><i>CATALOG NUMBER</i></b>	<b><i>DESCRIPTION</i></b>
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<b>N/A</b>	
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***SPECIAL APPLICATION NOTES***

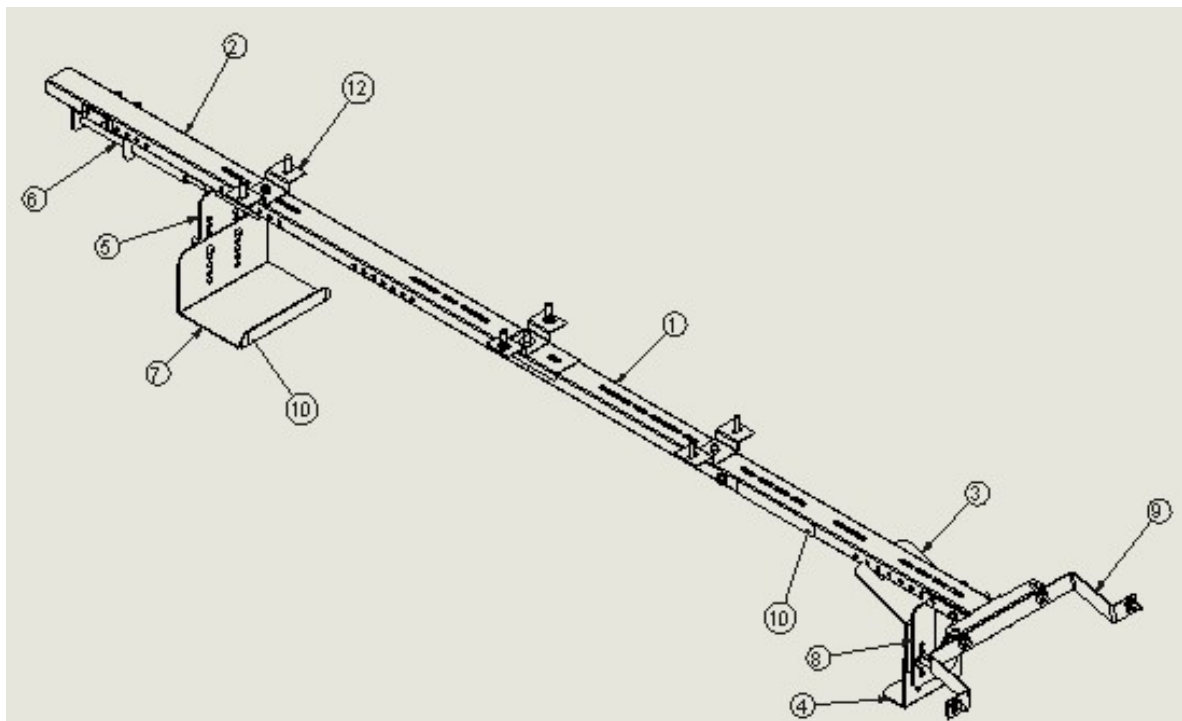
**Introduction / Comments:**

Ladder Keeper for 118" WB ProMaster Vans to carry Step Ladders inside van suspended from ceiling. Can accommodate up to a 6' Step Ladder.

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

ITEM NO.	PART NUMBER	DESCRIPTION	LKPM118/QTY.
1	40375-G	BASE RAIL WELDMENT, PAINTED	1
2	49688-G	FRONT RAIL, 118 PM	1
3	30253-0	LADDER SNUBBER	1
4	30254-0	LADDER STOP	1
5	30241-0	KEEPER ASSEMBLY	1
6	30261-0	GAS SPRING ASSEMBLY	1
7	30244-0	LADDER KEEPER	1
8	30263-0	STOP WELDMENT	1
9	49687-G	Rear Mtg Brkt, PM	1
10	65358	LABEL-L.R. & FOLD SHELIVING	2
11	BAGLK8FT	Fas Bag, LK8FT	1
12	49689-G	MOUNTING BRACKET 118 PM	3



**LKPM118  
Ladder Keeper, 118" WB ProMaster**

## - PRECAUTIONS -





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





 **CAUTION**   
**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  
DRILLING TO 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!  
ADRIAN AVAILABLE PART #'S 31121-0 (1/2" DEEP),  
31122-0 (3/4" DEEP)**



## - 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.

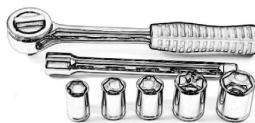
### THE BASIC TOOLS NEEDED FOR MOST INSTALLATIONS



DRILL



DRILL BIT WITH  
STOP



RATCHET, SOCKETS  
AND/OR WRENCHES



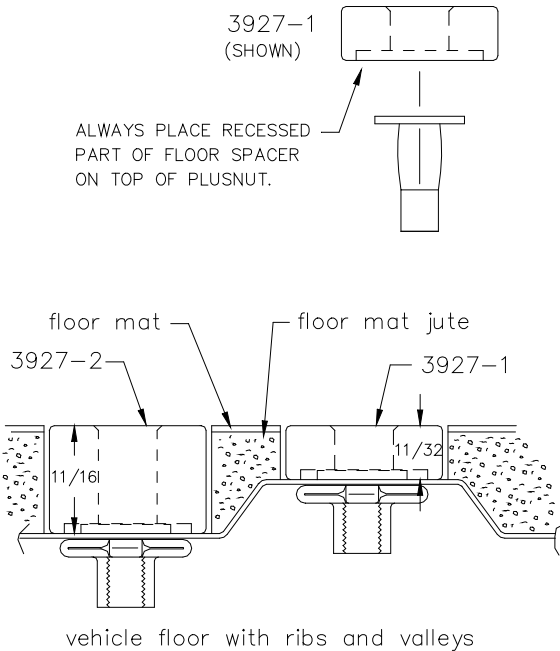
SCREWDRIVERS



MEASURING TAPE

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

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 you 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.



A PLUSNUT (RIVNUT) SETTING TOOL IS REQUIRED FOR PLUSNUT (RIVNUT) INSTALLATION AND IS SUPPLIED WITH THIS KIT. OR USE AN AIR POWERED PLUSNUT SETTING GUN.

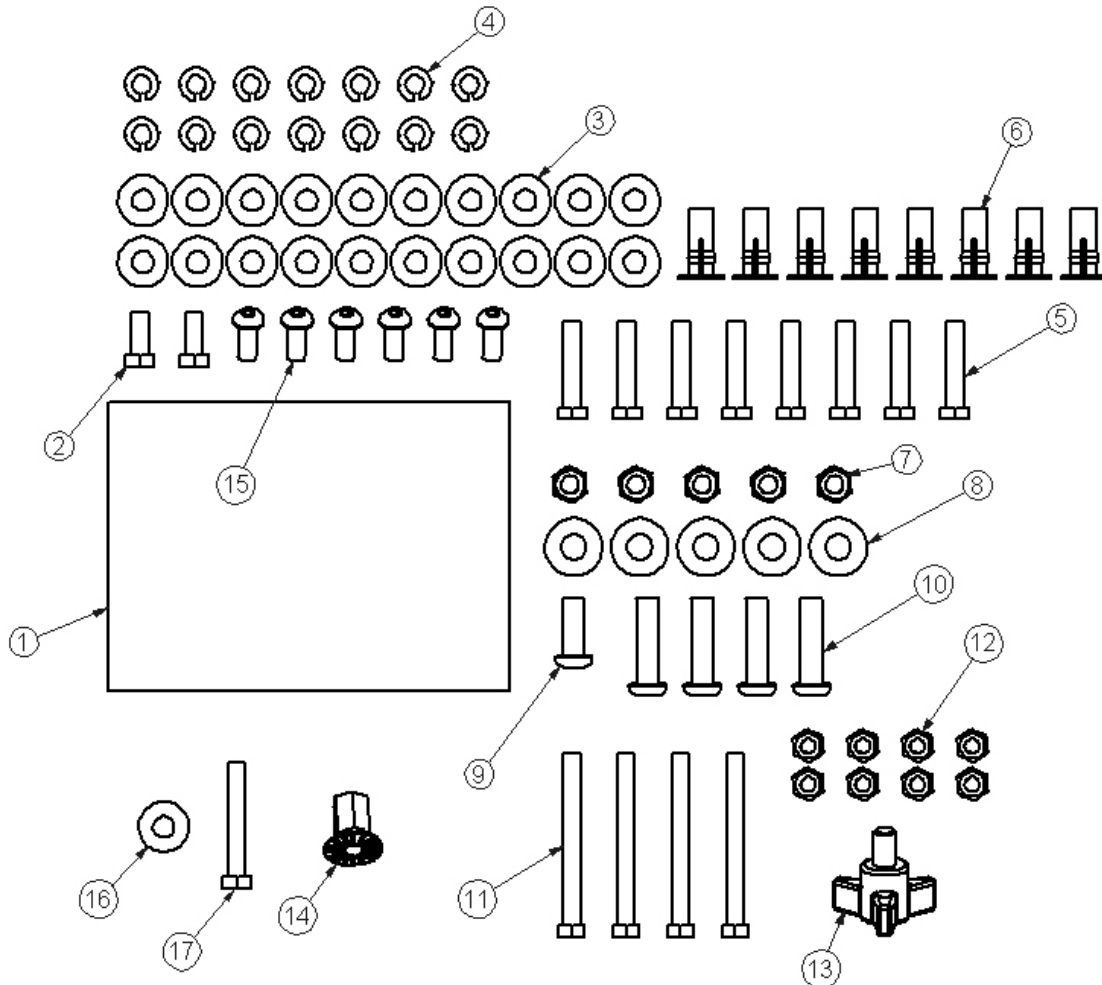
1/4-20UNC Plusnut (FAS0052) Use 3/8" dia. drill w/stop  
 FAS0080 SCREW, HXHD, 1/4-20UNCx2.00", G8  
 FAS0067 WASHER, FLAT, 1/4"ID  
 22200-0 PLUSNUT TOOL

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

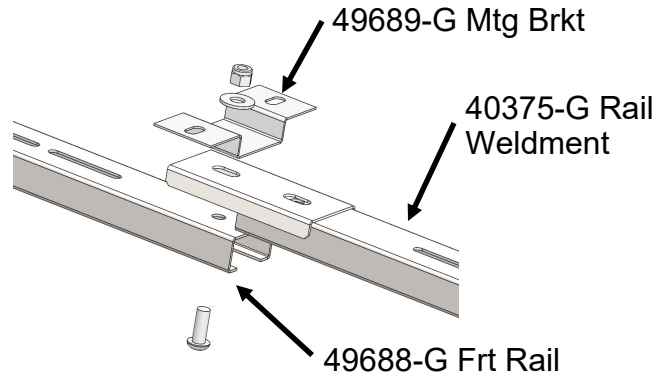
Place barrel of the plusnut body in sheet metal thru hole until flange is flush with sheet metal. Using a 9/16" combination wrench of plusnut tool body and a second hand wrench, ratchet, or air tool, rotate the hex bolt head CW to draw plus nut flanges up (set the plusnut).

**Installation and/or Assembly Fasteners**  
**BAGLK8FT**

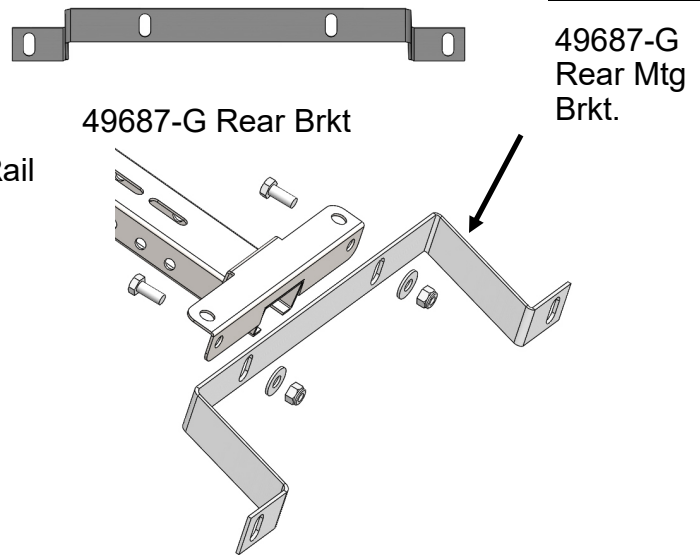
ITEM NO.	PART NUMBER	DESCRIPTION	BAGLK8FT/QT.Y.
1	BAG0507-A	5" x 7" 3MIL AUTOBAG	1
2	FAS0081	Screw, Hex Hd, 5/16-18x0.75 Zn Plate	2
3	FAS0112	Washer, Flat, 5/16, NI ZN	20
4	FAS0098	Washer, Lock, Split, 5/16, Zinc Plate	14
5	FAS0129	Screw, HH 5/16-18X1.5 Zn-Ni, G8	8
6	FAS0091	Plusnut, 5/16	8
7	FAS0110	Nut, Hex Nylok 3/8-16 SS W	5
8	FAS0104	Washer, Flat, 3/8, NI ZN	5
9	FAS0572	Screw, Button Hd Hex Soc, 3/8-16x1.00 NI-ZN	1
10	FAS0577	Screw, Button Hd Hex Soc, 3/8-16x1.50 NI-ZN	4
11	FAS 0244	Screw, Hex Hd, 5/16-18x3.00 Stainless Steel, Grade 5	4
12	FAS0090	Nut, Nylon Insert Lock, 5/16-18, Zi	8
13	16274-0	HAND KNOB	1
14	22200-0	Plus Nut tool	1
15	FAS0668	Screw, Button Hd Hex Soc, 5/16-18X.75, SS	6
16	FAS0086	WASHER, FLAT USS 5/16 ZP	1
17	FAS0095	Screw, Hex Hd, 5/16-18x2.00, Grade 8	1



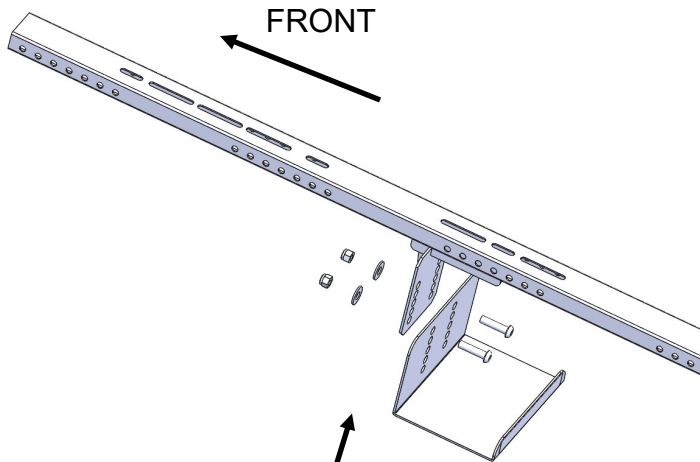
**Step 01 Assemble Rail**



Attach Base Rail Weldment and Front Rail using :  
FAS0572 Screw, BHCS, 3/8-16X1"  
FAS0104 Washer  
FAS0110 Locknut, 3/8-16  
Torque to 18 Ft Lbs +/- 2

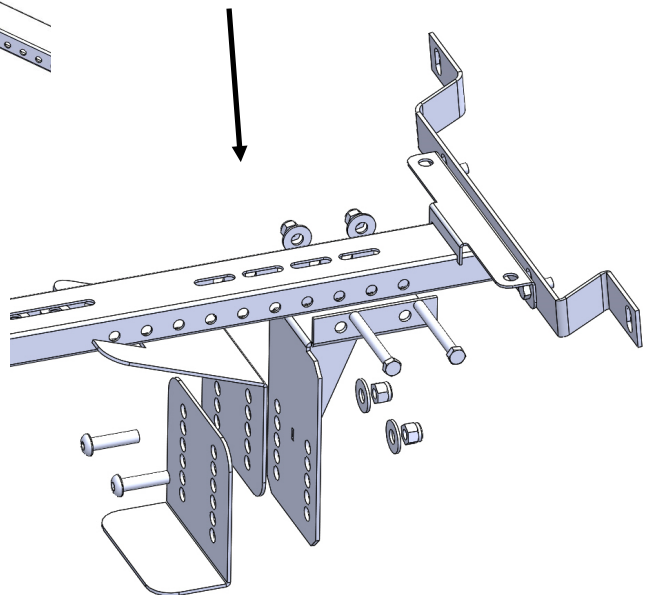


Attach Rear Mtg Brkt using :  
FAS0081 Screw, Hex, 5/16-18X3/4  
FAS0090 Locknut, 5/16-18  
FAS0112 Washer  
Leave fasteners loose for now,  
Torque to 11 Ft Lbs +/- 2 at install.

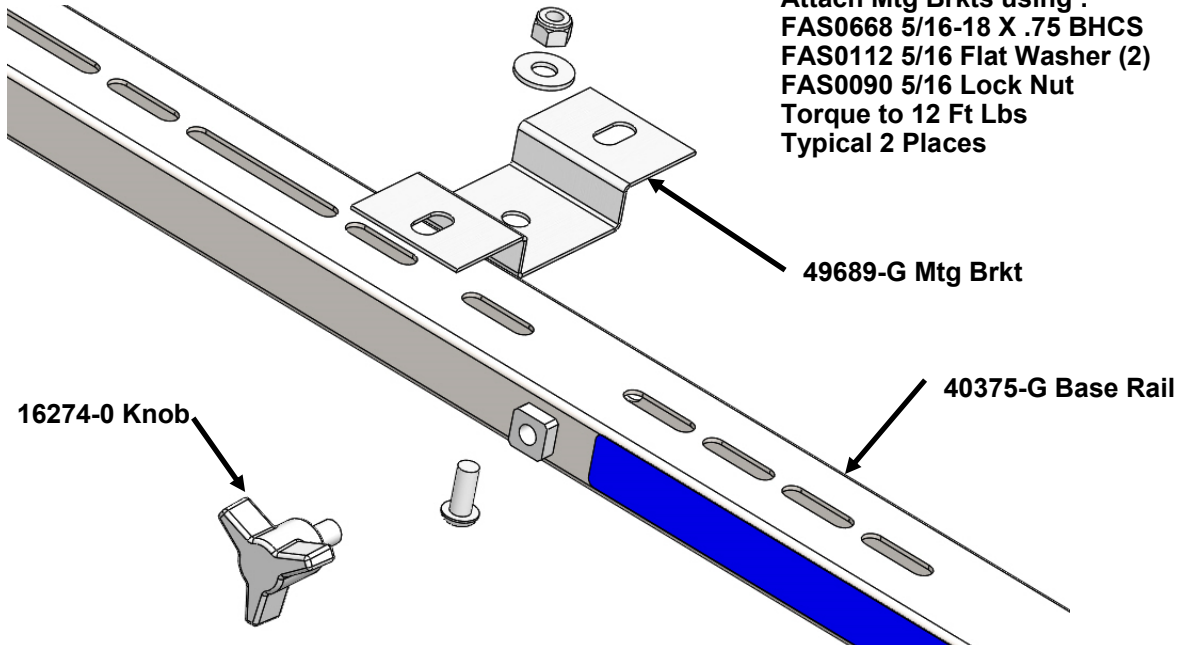


Insert Sliding Keeper Asm, 30241-0 into Rail. Attach Snubber 30244-0 with 2 each  
FAS0577 BHCS, 3/8-16X1.5  
FAS0104 Washer  
FAS0110 Locknut, 3/8-16

Attach Stop Asm 30263-0 to Rail using 2 ea  
FAS0244 Screw, Hex, 5/16-18X3  
FAS0112 Washer  
FAS0090 Locknut, 5/16-18 in rearmost holes. Attach Snubber 30244-0 & Stop, 30254-0 to Assembly with 2 each  
FAS0577 BHCS, 3/8-16X1.5  
FAS0104 Washer  
FAS0110 Locknut, 3/8-16

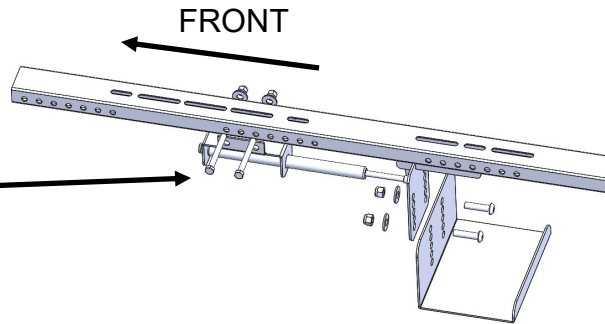


**STEP 02 Attach remaining Mtg Brkts**

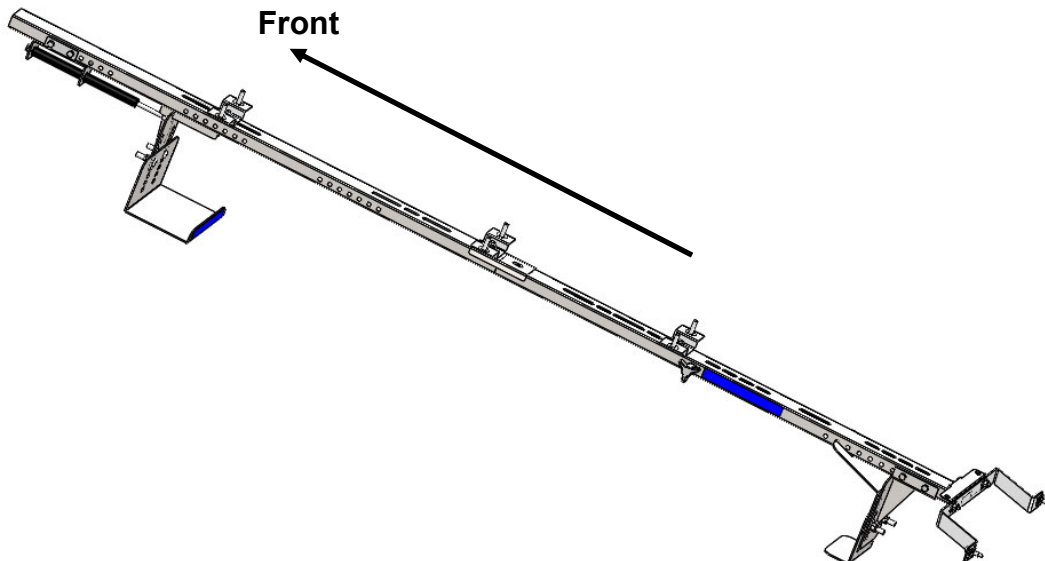


**Attach Gas Spring Asm**

Attach Gas Spring & Brkt with  
 FAS0244 Screws, Hex, 5/16-18X3  
 FAS0112 Washers  
 FAS0090 Locknuts, 5/16-18



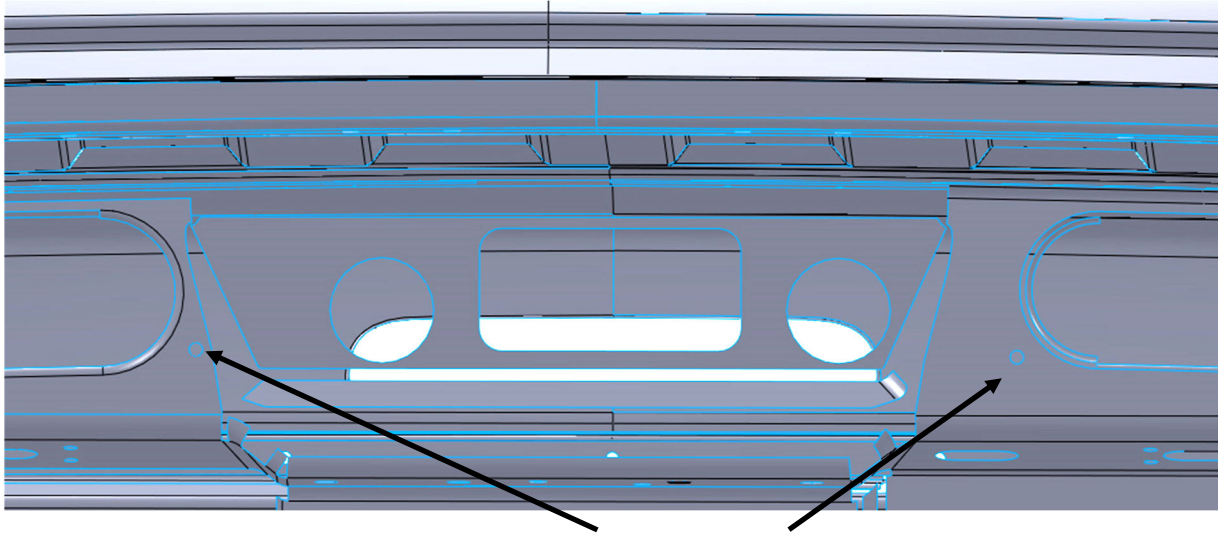
Below is view of Ladder Keeper showing all mounting brackets and fasteners.





**Step 03 Drill mounting holes and set Plusnuts.**

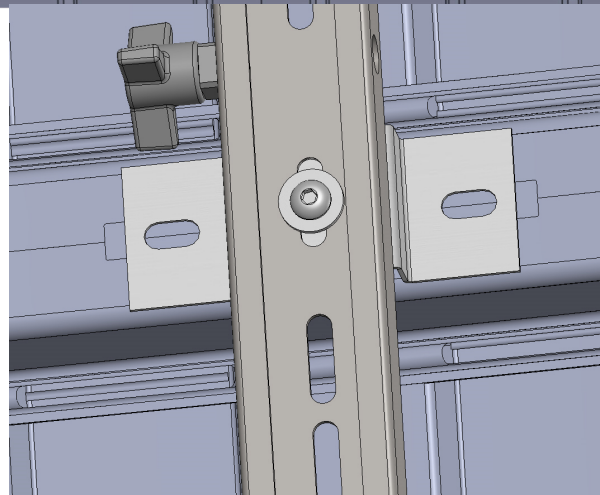
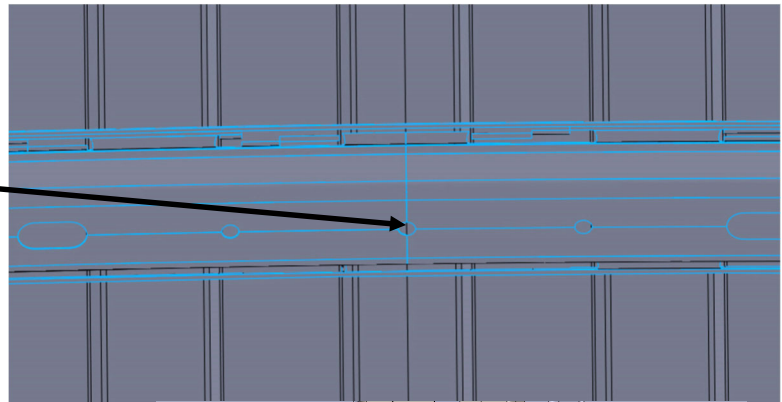
View of center section rear door header from inside van. **Be careful** with wiring (not shown).



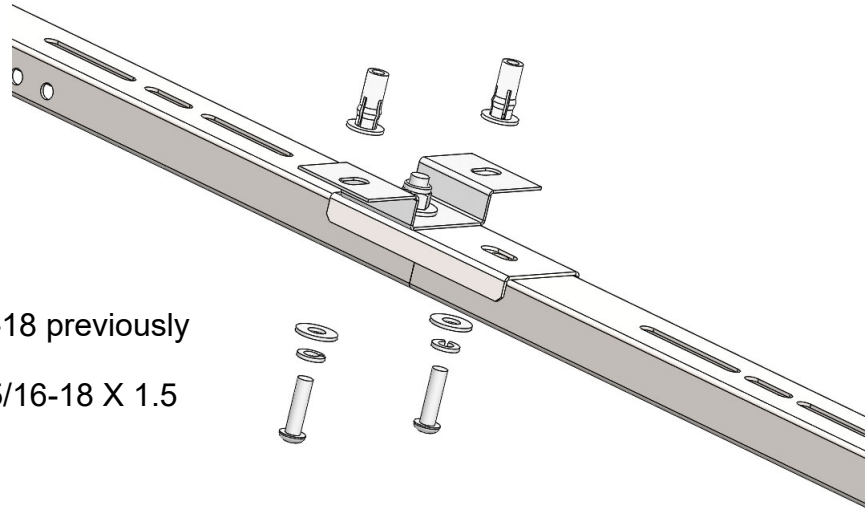
Push out the Wire Retainers in these 2 holes, move wire harnesses out of the way, making sure they are laying on bottom and **drill bit and Plusnuts will clear them.**

**Using 1/2" drill bit with stop**, drill out these 2 holes and set 2 FAS0091 5/16" Plusnuts in them. This is where the Rear Mounting Brkt, 492687-G will attach.

At right is view of center roof support bow. Drill out center hole to 3/4" for bolt clearance. Lower view is typical of the rear and forward bows with Ladder Keeper shown. Mark mounting hole locations on all 3 bows and **drill using 1/2" bit with stop**. Set FAS0091 Plusnuts in each hole, 6 total. **Make sure there is no wiring in areas before drilling.**



**Step 04** Attach each of 3 49074-G Mounting Brackets to the Bows.

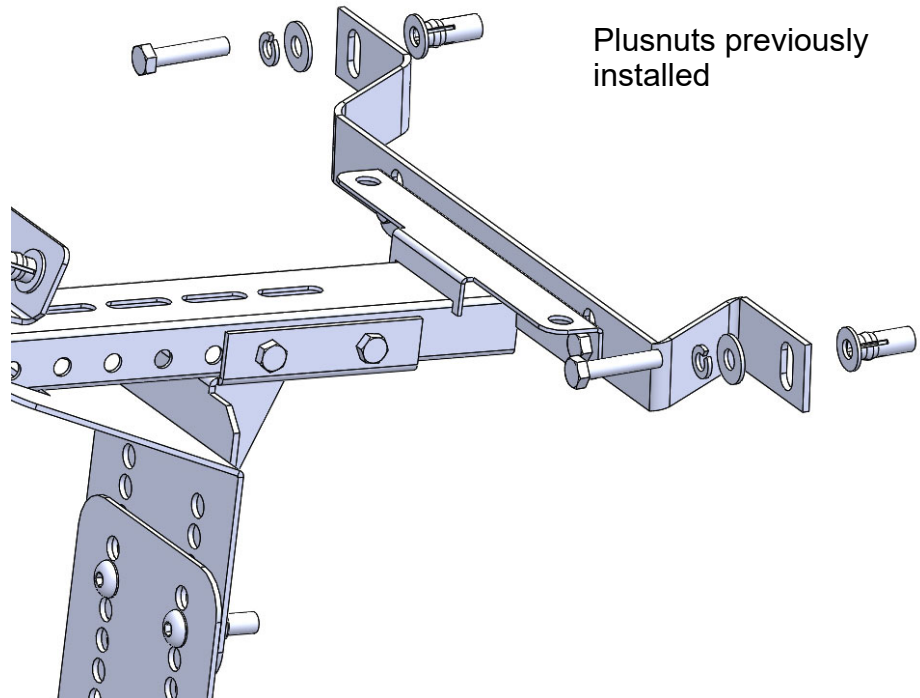


FAS0091 Plusnut, 5/16-18 previously installed  
FAS0129 Screw, Hex, 5/16-18 X 1.5  
FAS0112 Flat Washer  
FAS0098 Lockwasher

Torque fasteners to 11 Ft Lbs.

**Step 05** Mount Ladder Keeper in van.

Attach rear of Keeper Asm to Rear Door Header and then attach Rails to Bow mounting



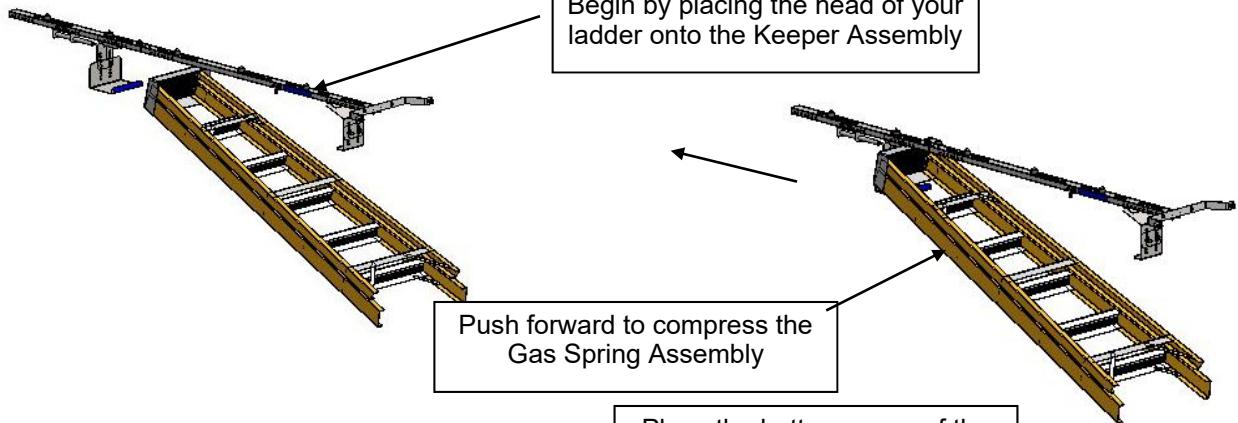
Rear attachment utilizes  
FAS0129 Hex Screws  
FAS0112 Washers  
FAS0098 Lockwashers

Plusnuts previously installed

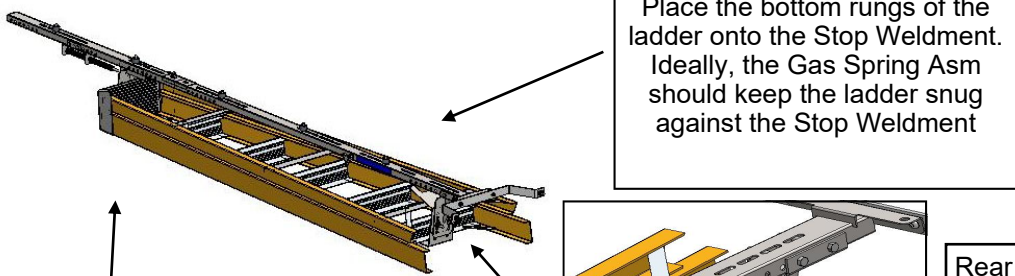
Torque to 11 Ft Lbs after torquing Rails to Bow brackets as shown in next step.

After adjusting to accommodate the Ladder you will be carrying, go back and torque all fasteners. Use 10-12 ft Lbs for 5/16" fasteners and 16-18 Ft Lbs for 3/8" fasteners. See last page for adjustment instructions.

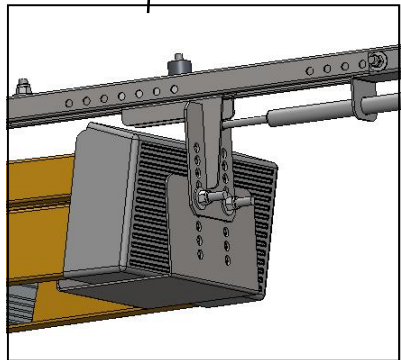
## Step 06 Adjust your Ladder Keeper to Accommodate your Ladder



Push forward to compress the Gas Spring Assembly

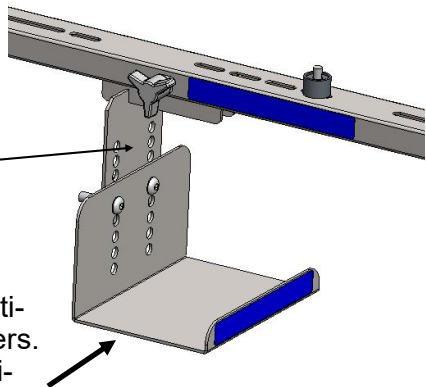


Rear Holder Asm can be adjusted fore/aft by removing Screws & Nuts and moving to desired location within rear hole pattern, then re-fastening.



Gas Spring & Brkt Asm can be repositioned and adjusted fore/aft to accommodate different sizes of Ladders by removing Screws and Nuts that hold it to Rail and moving to desired location within the hole patterns, then re-fastening. Rearmost group of holes is for 4' ladders & forward most for 7' ladders.

When no Ladder is being held, a hand knob is provided to prevent Slide from moving fore/aft during vehicle operation. Slide Keeper rearward to position shown and tighten knob to secure it.



Front & Rear Keeper Brkts adjust vertically to accommodate different Ladders. Remove Screws and Nuts and reposition to hold Ladder Firmly, yet still allow for ease of placement and removal of 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!**