



INSTALLATION GUIDE

PROMASTER VAN SIDE STEPS - 159"

PM1108B



TOOLS REQUIRED (NOT INCLUDED)

- | | |
|--------------------|------------------|
| + IMPACT DRIVER | + RIVET NUT TOOL |
| + DRILL | + 9/16" SOCKET |
| + 3/8" DRIVER BIT | + 7/16" SOCKET |
| + 3/16" DRILL BIT | + RATCHET |
| + 17/32" DRILL BIT | + BLUE LOCTITE |
| + 7/32" ALLEN KEY | + TAPE MEASURE |
| + 5/32" ALLEN KEY | + MARKER |

INSTALL INFO

TIME TO INSTALL THIS PRODUCT: 2 HOURS

Additional help is suggested for a few of the install steps.

BEFORE YOU START

Please inspect the product and packaging upon delivery to ensure there are no issues and that all parts and hardware are accounted for.

Contact us ASAP if anything is missing at:

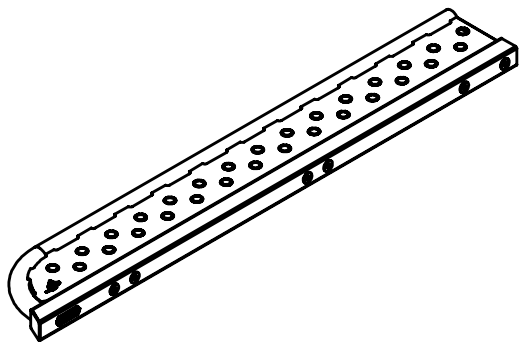
support@flatlinevanco.com

BEFORE YOU START

All Flatline Van Co products must be properly assembled and secured before attaching to your vehicle. Improper attachment could result in an automobile accident, and could cause serious bodily injury or death to you or to others involved. You are responsible for assembling and securing Flatline Van Co products to your vehicle, checking the mounting points and attachments prior to use, and regularly inspecting the products for wear and or damage. We always recommend you use a professional to install any aftermarket accessories to your vehicle. If you have no mechanical experience and are not thoroughly familiar with the installation procedures, you must have the product installed by a professional installer or other qualified persons. The responsibility is yours and must be taken seriously for everyone's safety.

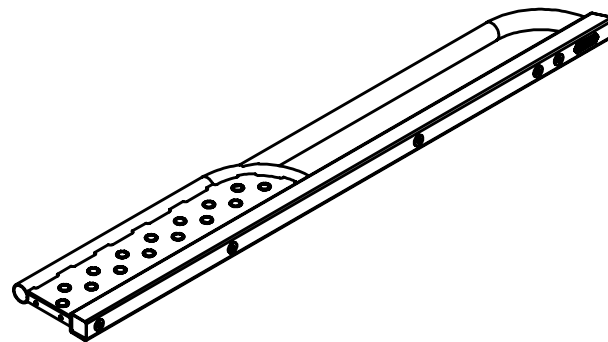


PACKAGE CONTENTS



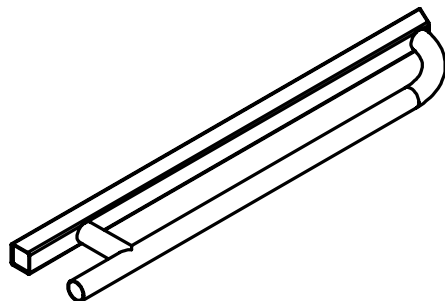
PASSENGER STEP
WELDMENT - FRONT

QTY: 1



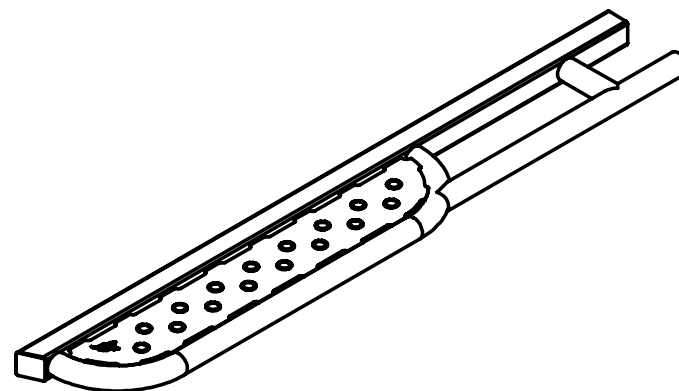
PASSENGER STEP
WELDMENT - BACK

QTY: 1



DRIVER STEP WELDMENT -
BACK

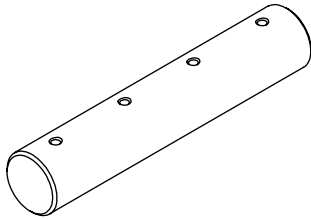
QTY: 1



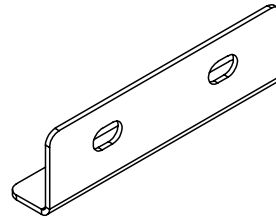
DRIVER STEP WELDMENT -
FRONT

QTY: 1

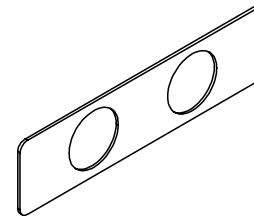
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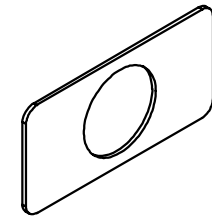
BAYONET
QTY: 2



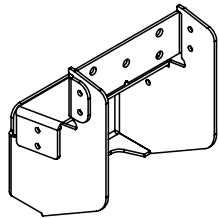
JOINING BRACKET
QTY: 2



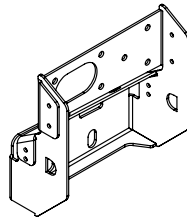
BRACKET SPACER - DOUBLE
QTY: 5



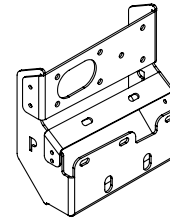
BRACKET SPACER - SINGLE
QTY: 6



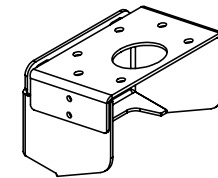
PASSENGER REAR BRACKET
QTY: 1



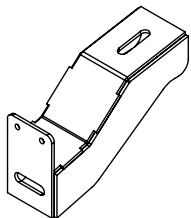
DRIVER FRONT BRACKET
QTY: 1



PASSENGER FRONT BRACKET
QTY: 1

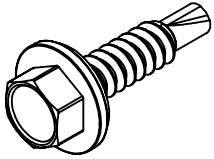


SHORT BRACKET
QTY: 2



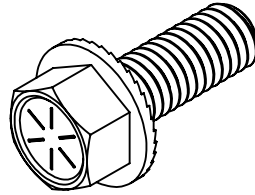
HANGAR BRACE
QTY: 6

HARDWARE



1/4-20 x 1 HEX HEAD
DRILLING SCREW

QTY: 61



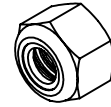
3/8 x 1 SERRATED FLANGED
HEX HEAD SCREW

QTY: 26



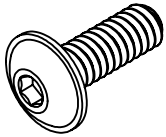
3/8-16 x 0.027-0.15 HEAVY
DUTY RIVET NUT

QTY: 6



1/4-20 NYLON INSERT
LOCKNUT

QTY: 2



1/4-20 x 0.75 FLANGED
BUTTON HEAD HEX SCREW

QTY: 10



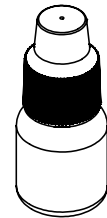
1/4 FLAT WASHER

QTY: 2



3/8 FLAT WASHER

QTY: 26



THREADLOCKER

QTY: 1

INSTALL

STEP | 01 WELDMENT ASSEMBLY

1.1 Assemble Driver's Side Step: Insert a **Bayonet** into the tubing of the **Front Driver Side Step Weldment (FIG 2)**. Align the first two holes of the **Bayonet** to the holes of the weldment and attach using (2) **1/4 x 0.75 Flanged Button Head Screws** with **Loctite**. Slide the **Rear Driver Step Weldment** onto the protruding **Bayonet** and attach using the same hardware and method (**FIG 3**).

1.2 Install Joining Bracket: Attach the **Joining Bracket** across from the bayonet joint using (2) **3/8-16 X 1 Flanged Hex Head Screws** with **Loctite (FIG 4+5)**.

1.3 Assemble Rear Passenger's Step: Repeat **Steps 1.1 and 1.2** for the Passenger Step using the same hardware and method.

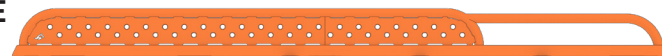
1.4 Tighten All Step Screws: Once aligned, fully tighten all fasteners.

NOTE - The **Joining Bracket** is used to help with alignment of the two weldments and can be clamped in place while tightening to ensure alignment.

TOOLS REQUIRED FOR THIS STEP:

- + 5/32" ALLEN WRENCH
- + 9/16" SOCKET
- + RATCHET
- + LOCTITE

PASSENGER SIDE



DRIVER SIDE



FIG 1

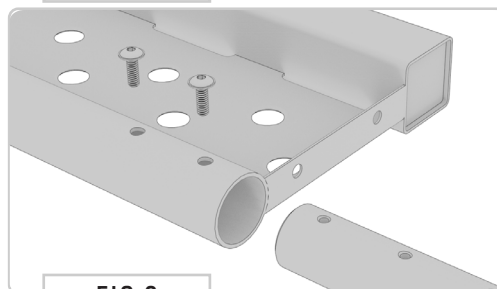


FIG 2

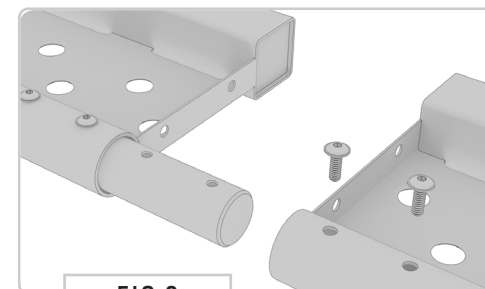


FIG 3

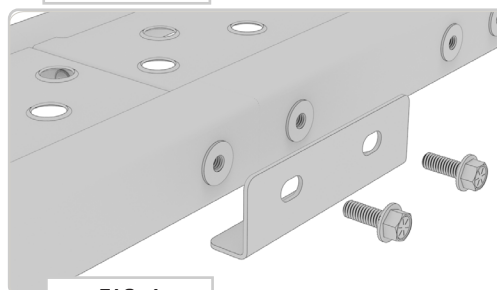


FIG 4

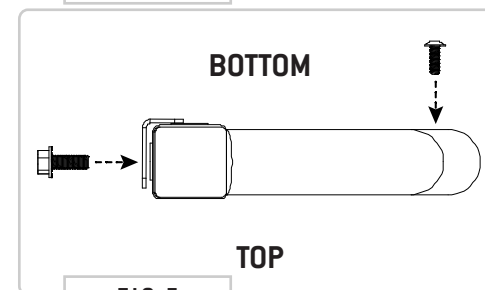
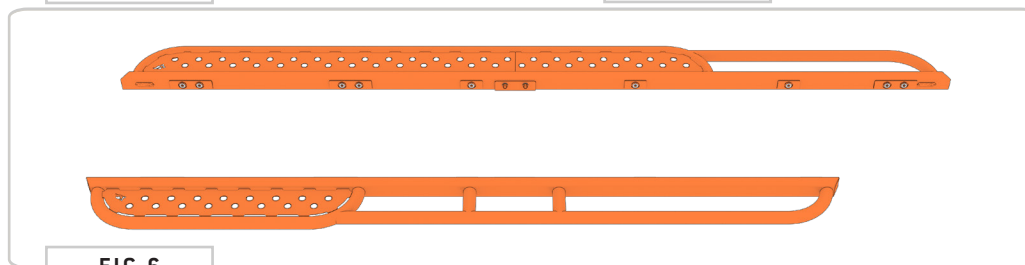


FIG 5

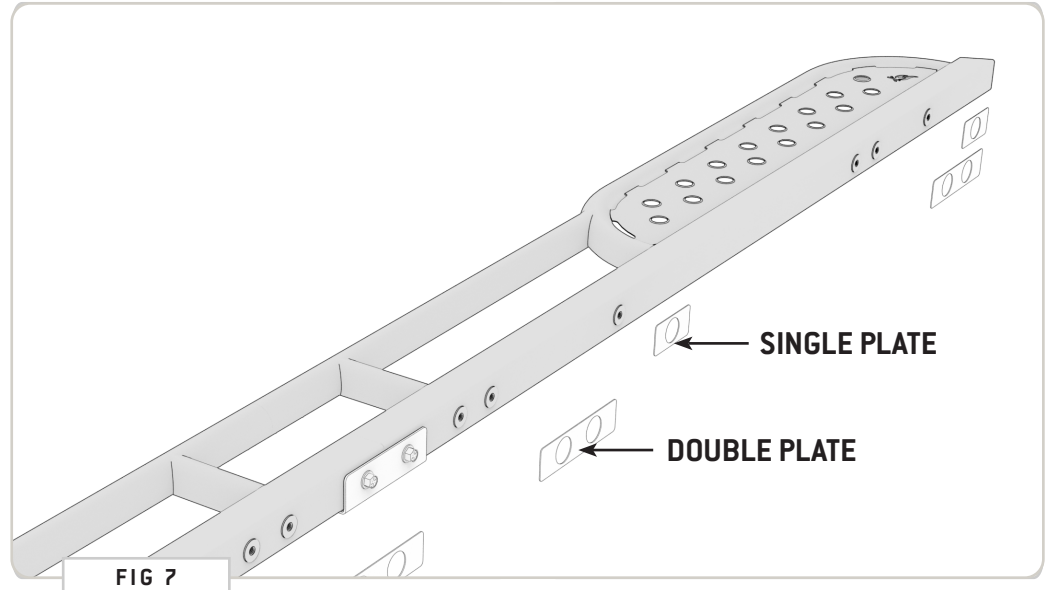
FIG 6



TOOLS REQUIRED FOR THIS STEP: + MASKING TAPE

STEP | 02 ASSEMBLE SIDE STEPS

2.1 Attach Sandwich Plates to Steps: Position the **Double and Single Sandwich Plates** to the **Side Step Weldments** in the locations shown in **FIG 7** using masking tape (**FIG 8**). This will make installing the **Hangar Brackets** and **Side Step Braces** easier in the next steps.



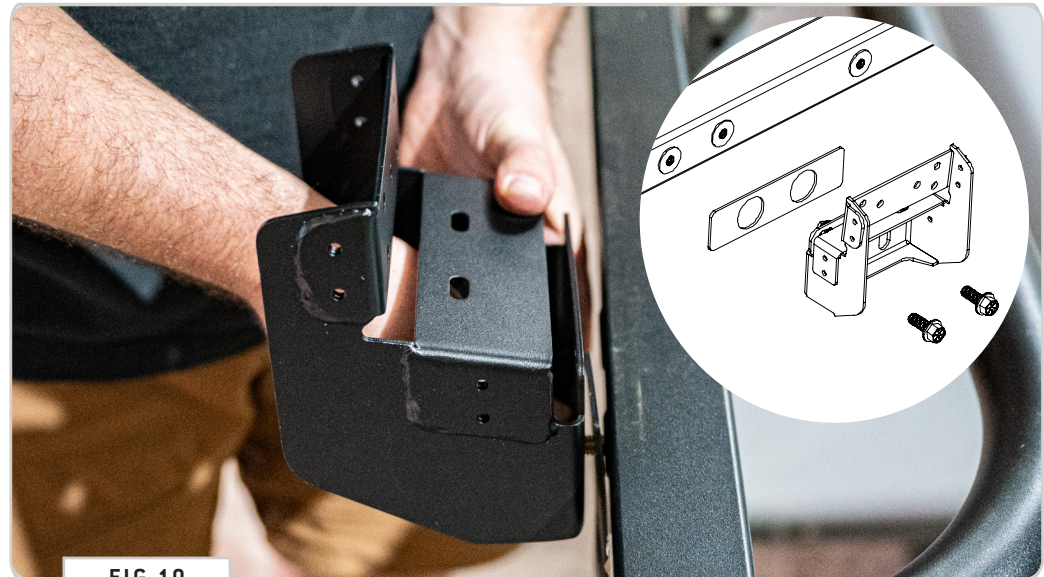
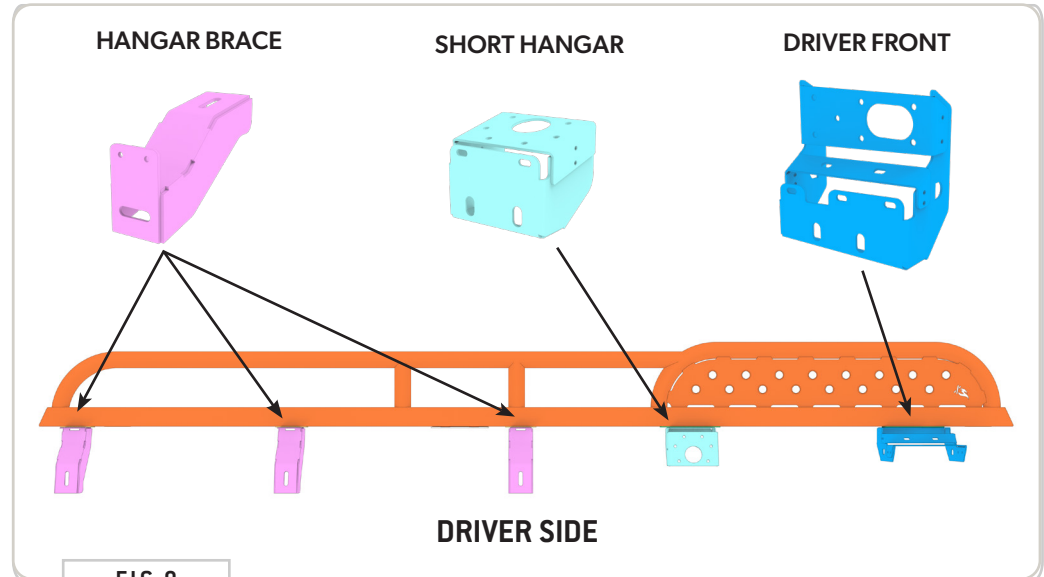
TOOLS REQUIRED FOR THIS STEP: + 9/16" WRENCH/SOCKET

STEP | 02 ASSEMBLE SIDE STEPS

2.2 Identify Driver Bracket Types: The Driver Side Step features (1) Driver Front Bracket, (1) Short Hangar Bracket and (3) Hangar Braces (FIG 9).

NOTE - The *Driver Front Bracket* has a "D" cutout to indicate which side it's for.

2.3 Attach Hangar Brackets to Steps: Attach Hangar Brackets to the locations shown using the supplied 3/8-16 x 1 Flanged Hex Head Screws with Loctite (FIG 10).



TOOLS REQUIRED FOR THIS STEP: + 9/16" WRENCH/SOCKET

STEP | 02 ASSEMBLE SIDE STEPS

2.4 Identify Passenger Bracket Types: The **Passenger Side Step** features (1) **Passenger Front Bracket**, (1) **Short Hangar Bracket**, (3) **Hangar Braces** and (1) **Passenger Rear Bracket** (FIG 11).

NOTE - The **Passenger Front Bracket** has a "P" cutout to indicate which side it's for.

2.5 Attach Hangar Brackets to Steps: Attach **Hangar Brackets** to the locations shown using the supplied **3/8-16 x 1 Flanged Hex Head Screws** with Loctite (FIG 12).

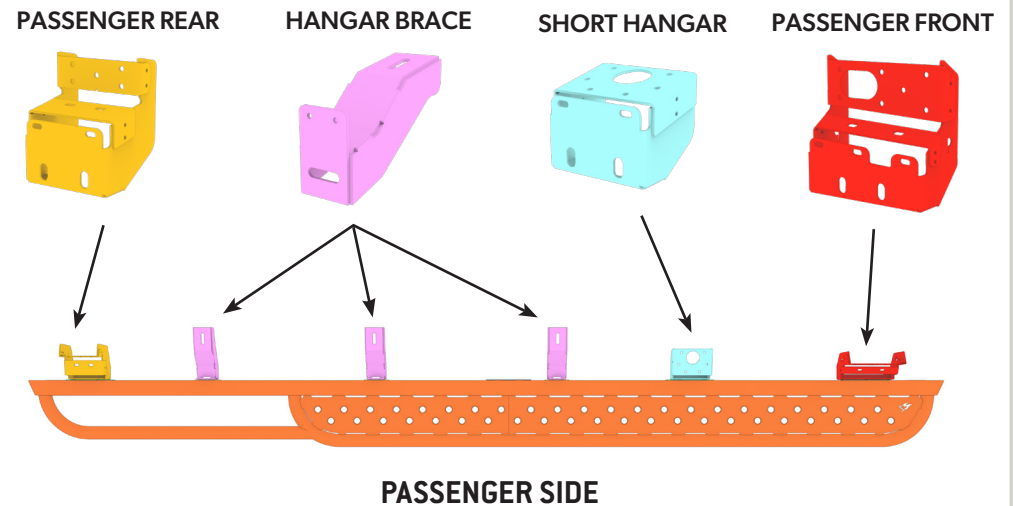


FIG 11

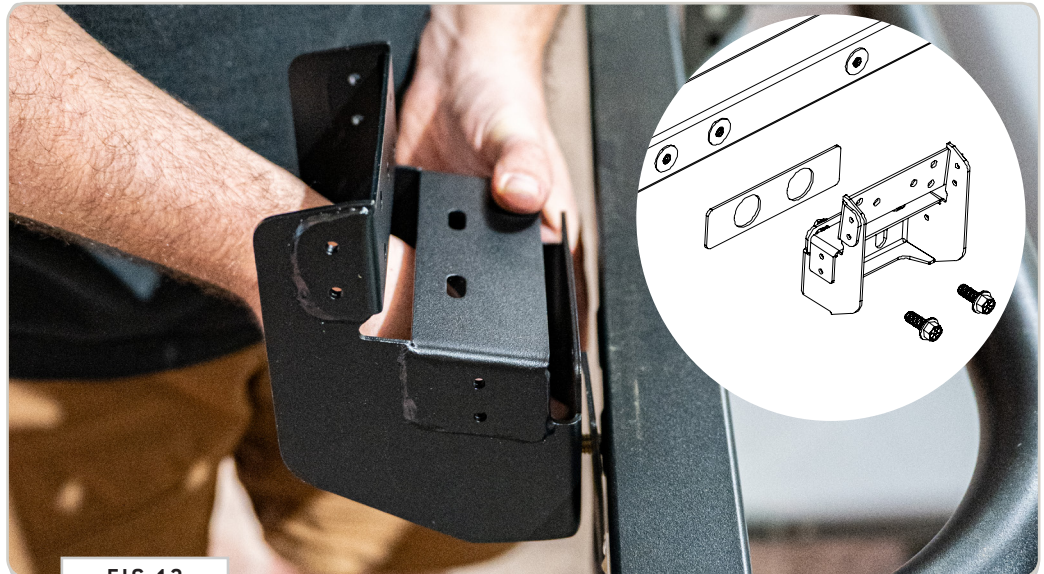


FIG 12

TOOLS REQUIRED FOR THIS STEP:

STEP | 03 INSTALL SIDE STEPS

3.1 Position Step Under Van: Carefully lift up your **Side Step Assembly** with a floor jack or helper (**FIG 13**). Ensure the **Pinch Weld** slips into the gap in the **Hangar Bracket/Brace** (**FIG 14**).



FIG 13

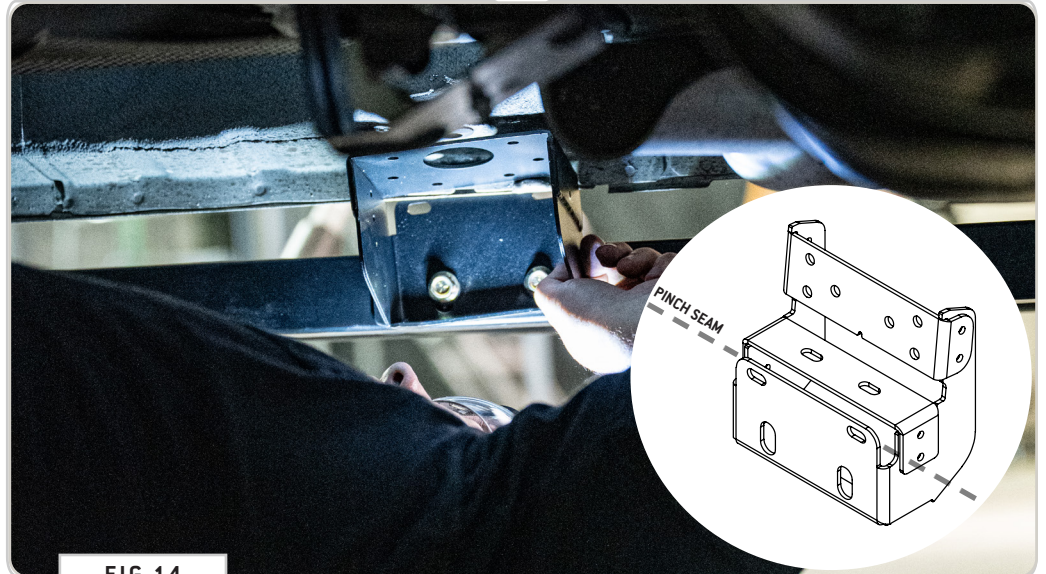


FIG 14

STEP | 03 INSTALL SIDE STEPS

Undercarriage Overview: Shown in FIG A is an overview of the undercarriage to illustrate precisely where each bracket and bracket should be located on the chassis at this point for reference.

TOOLS REQUIRED FOR THIS STEP:

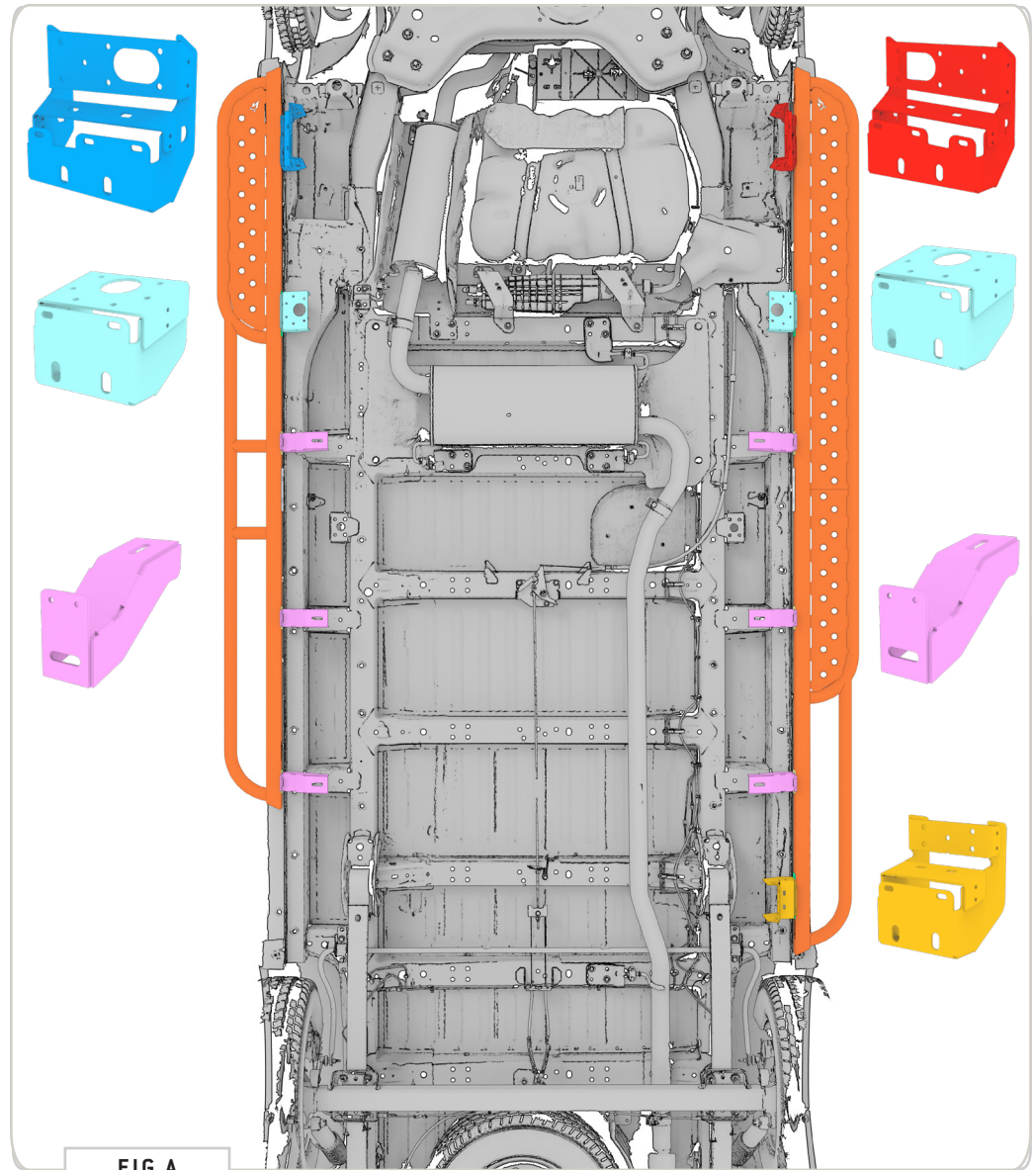


FIG A

STEP | 03 INSTALL SIDE STEPS

3.2 Mark Brace Mounting Locations: Use a Marker to mark hole positions under each brace (FIG 15-16). Lower your Step and proceed to drill out mounting holes.

3.3 Drill Mounting Holes: Drill a pilot hole using a **3/16" Drill Bit** and expand using a **17/32" Drill Bit** (FIG 17). Clean up the drill hole using a file or countersink.

3.4 Install Rivet Nut: Using a **Rivet Nut Tool**, install your **Rivet Nut** into the drilled hole (FIG 18).

NOTE - We recommend using a pneumatic or electric drill adapter rivet nut tool for this, although a manual rivet nut tool can work if you have enough ground clearance. We like the Astro Tools ADN38 XL model for a drill adapter.

3.5 Repeat for All Mounting Holes: Repeat this process for all mounting holes.

TOOLS REQUIRED FOR THIS STEP:

- + POWER DRILL
- + 3/16" DRILL BIT
- + 17/32" DRILL BIT
- + IMPACT DRIVER
- + RIVET NUT TOOL



FIG 15

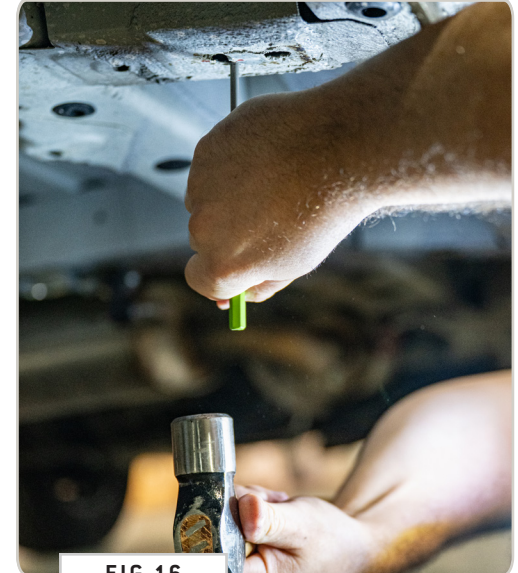


FIG 16



FIG 17



FIG 18

STEP | 03 INSTALL SIDE STEPS

3.6 Lift Step Back into Place and Hand-Tighten: Attach each **Brace** to the Van using **(1ea) 3/8-16 x 1 Flanged Hex Head Screw** with Loctite **(FIG 19)**.

NOTE - Check to make sure you are happy with the alignment of your Side Step at this time. At this point, you should still have *back-and-forth and left-to-right* adjustment.

3.7 Secure Hangar Brackets: Drive **1/4-20 x 0.75 Hex Drive Self Tapping Screws** through the *lower mounting surfaces* of each **Hangar Bracket** to secure them to the van **(FIG 20)**.

TOOLS REQUIRED FOR THIS STEP:

- + 3/4" WRENCH/SOCKET
- + 9/16" WRENCH/SOCKET
- + 3/8" SOCKET
- + IMPACT DRILL

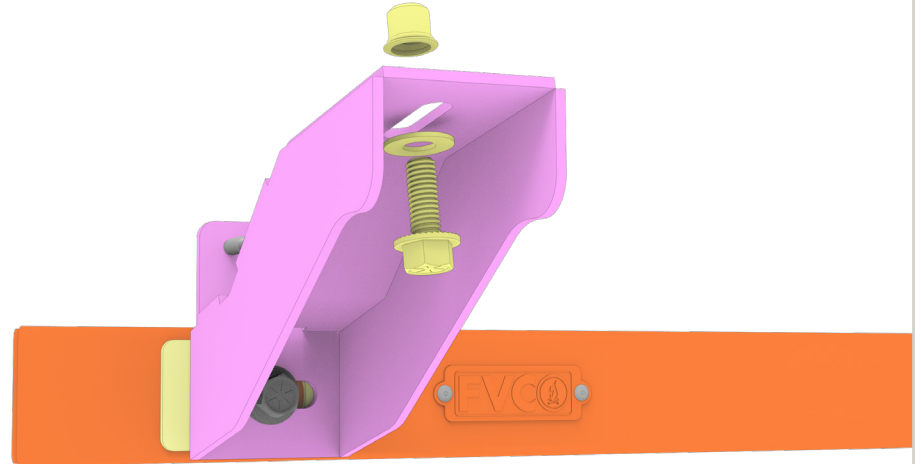


FIG 19



FIG 20

STEP | 03 INSTALL SIDE STEPS

3.8 Secure Hangar Brackets: Move to the outside of the van and drive (2ea) 1/4-20 x 0.75 Hex Drive Self Tapping Screws through the *exterior mounting surface* of the Hangar Bracket to further secure them to the van (FIG 21).

NOTE - You'll need an extension to reach this area of the van.

3.9 Secure Hangar Brackets: Back under the van, drive *at least three* 1/4-20 x 0.75 Hex Drive Self Tapping Screws through the *upper mounting surface* of the Hangar Brackets to finish the install of the Hangar Brackets (FIG 22).

NOTE - Due to the cramped space, you'll need a *Right Angle Drill Adapter* (FIG 22) to reach these upper mounting locations.

TOOLS REQUIRED FOR THIS STEP:

- + 3/4" WRENCH/SOCKET
- + 9/16" WRENCH/SOCKET
- + 3/8" SOCKET
- + IMPACT DRILL
- + RIGHT ANGLE DRILL ADAPTER



FIG 21



FIG 22

STEP | 03 INSTALL SIDE STEPS

3.10 Final Side Step Alignment: Check to make sure you are happy with the alignment of your Side Step at this time. At this point, you should still have *up-and-down* adjustment.

3.11 Tighten All Fasteners: Go back through and tighten all fasteners.

3.12 Attach Step Weldments Together: Finalize the install by joining the Passenger Rear and Front Step together using (2) 1/4-20 x0.75 Flanged Button Head Screws, 1/4" Flat Washers and Locknuts (FIG 24).

TOOLS REQUIRED FOR THIS STEP:

- + 3/4" WRENCH/SOCKET
- + 9/16" WRENCH/SOCKET



FIG 23

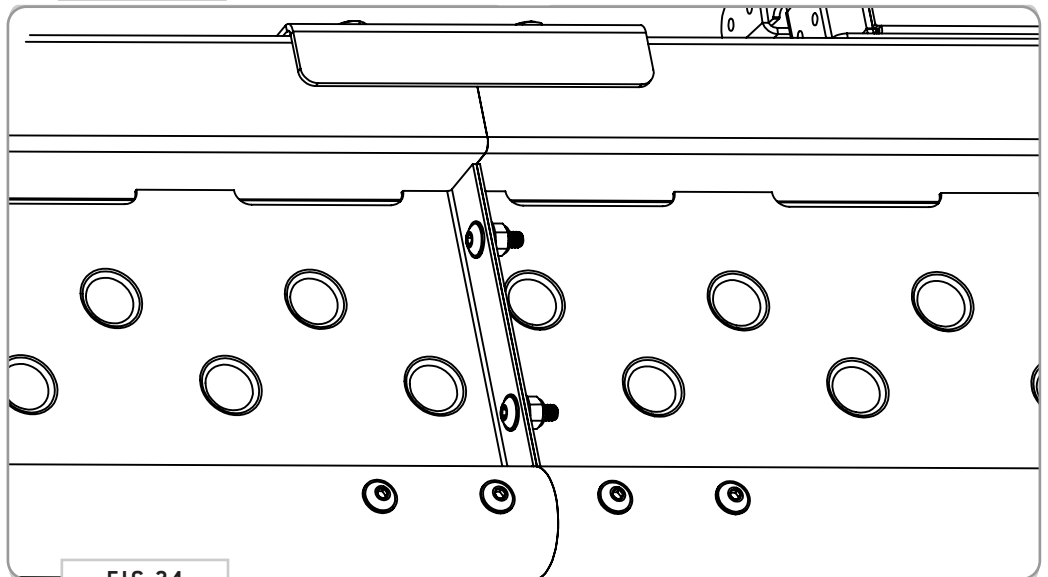


FIG 24

GET OUT AND EXPLORE!

+ LEAVE US A REVIEW

Happy with your new FVC product? We would love to hear (and see) from you! Head to the product page and click "Leave Review." Add a short review and upload a few photos to be showcased on the product page.

+ SHARE YOUR PICS

We love seeing how our customers use their FVC products and following along with your adventures. Tag us in your photos with: @flatlinevanco or send them to us via email. We love posting customer pictures in our feed!

+ NEED ANY HELP?

If you are having any issues with your product, please reach out, and we will make it right. FVC is a company of van and outdoor enthusiasts that design and use our own products, so we want you to be as stoked on your new parts as we are!



@FLATLINEVANCO