



INSTALLATION GUIDE

SPRINTER VAN ALUMINUM SIDE STEPS - 170"

SP1149B



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:

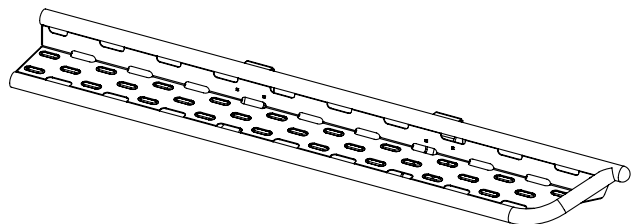
support@flatlinevanco.com

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.

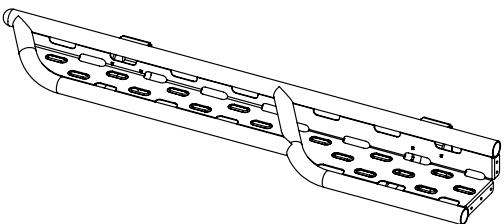


PACKAGE CONTENTS



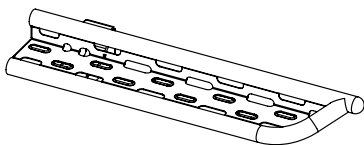
PASSENGER STEP
WELDMENT - FRONT

QTY: 1



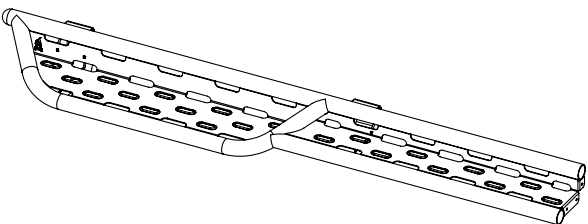
PASSENGER STEP
WELDMENT - BACK

QTY: 1



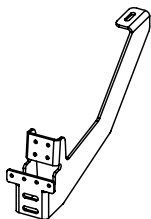
DRIVER STEP WELDMENT -
BACK

QTY: 1



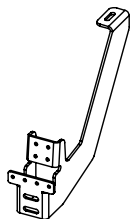
DRIVER STEP WELDMENT -
FRONT

QTY: 1



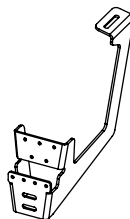
PASSENGER BRACKET 1

QTY: 1



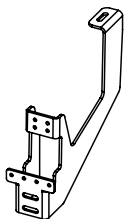
PASSENGER BRACKET 2

QTY: 2



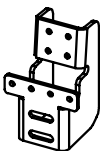
DRIVER FRONT BRACKET

QTY: 1



DRIVER BRACKET 2

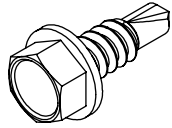
QTY: 2



PASSENGER BRACKET 3

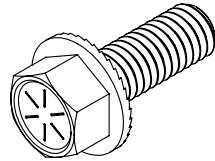
QTY: 1

HARDWARE



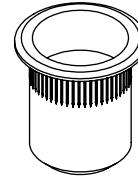
1/4-20 x 1 HEX HEAD
DRILLING SCREW

QTY: 49



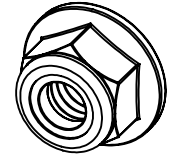
3/8 x 1 SERRATED FLANGED
HEX HEAD SCREW

QTY: 18



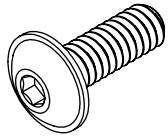
3/8-16 x 0.027-0.15 HEAVY
DUTY RIVET NUT

QTY: 6



3/8-16 FLANGED NYLON
INSERT LOCKNUT

QTY: 12



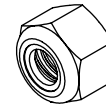
1/4-20 x 0.75 FLANGED
BUTTON HEAD HEX SCREW

QTY: 24



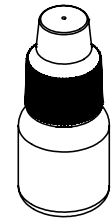
1/4 FLAT WASHER

QTY: 8



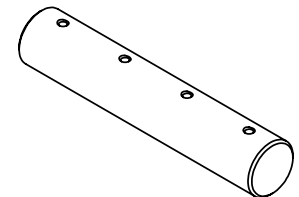
1/4 NYLON LOCKNUT

QTY: 8



THREADLOCKER

QTY: 1



SIDE STEP BAYONET

QTY: 2

INSTALL

STEP | 01 ASSEMBLE SIDE STEPS

1.1a Assemble Driver's Side Step: Insert a **Bayonet** into the tubing of the **Front Driver Side Step Weldment** (**FIG 1**).

b) Align the first two holes of the **Bayonet** to the holes of the weldment and loosely attach using **(2) 1/4 x 0.75 Flanged Button Head Screws** with **Loctite**.

c) Slide the **Rear Driver Step Weldment** onto the protruding **Bayonet** and attach using the same hardware and method, leaving the hardware loose for now (**FIG 2**).

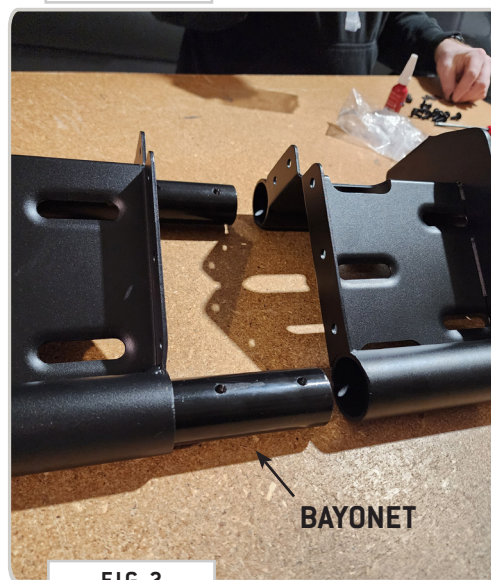
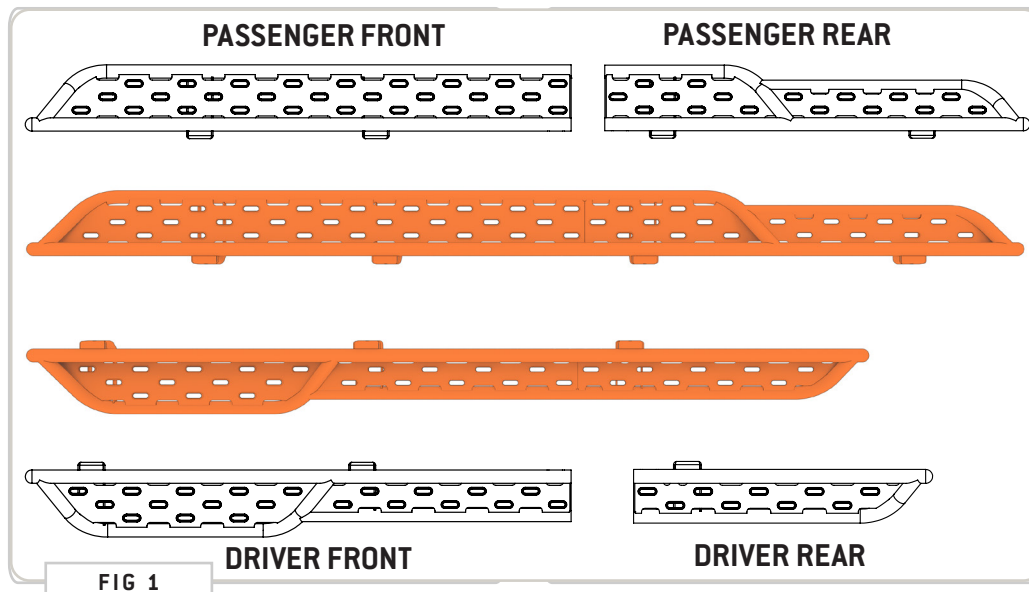
d) Finish by joining the step weldments together using **(5ea) 1/4-20 x 0.75 Flanged Button Head Screws, Flat Washers and Nylon Locknuts** (**FIG 3**)

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

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

TOOLS REQUIRED FOR THIS STEP:

- + 5/32" ALLEN WRENCH
- + 3/16" ALLEN WRENCH
- + 7/16" SOCKET OR WRENCH
- + LOCTITE



STEP | 01 ASSEMBLE SIDE STEPS

1.4 Identify Bracket Types: Figures 4 and 5 show the **Hangar Brackets** by type. Identify which bracket is which and set them aside them for assembly to the **Side Step Assemblies**.

TOOLS REQUIRED FOR THIS STEP:

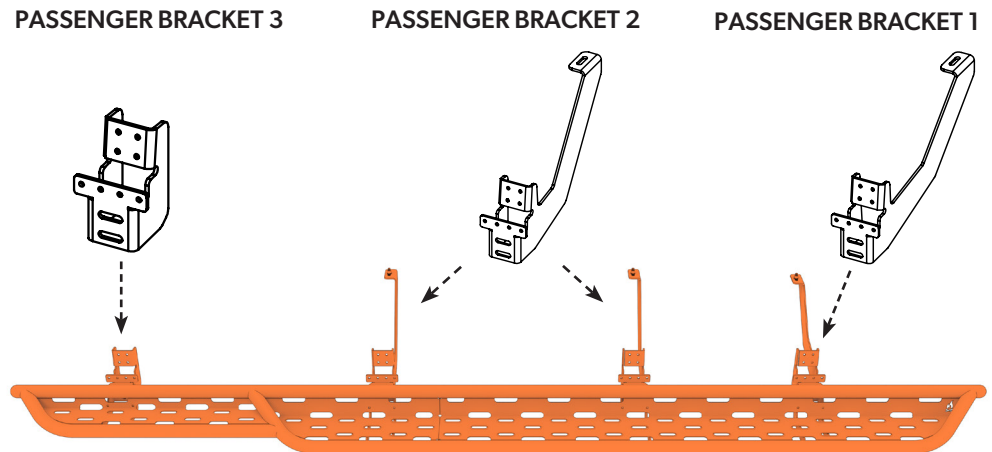


FIG 4

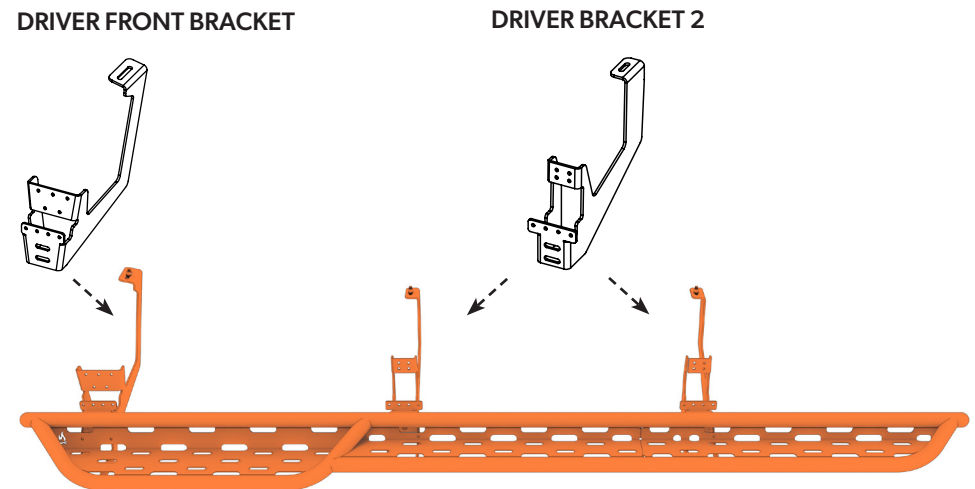


FIG 5

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

STEP | 01 ASSEMBLE SIDE STEPS

1.5 Attach Hangar Brackets to Steps: Attach Hangar Brackets to their prescribed locations using (2) 3/8-16 x 1 Flanged Hex Head Screws and Flanged Nylon Locknuts (FIG 6-8).



FIG 6



FIG 7



FIG 8

STEP | 02 INSTALL SIDE STEPS

2.1 Position Step Under Van: Carefully lift up your **Side Step Assembly** with a floor jack or helper (**FIG 9**). Ensure the **Pinch Weld** slips into the gap in the **Hangar Bracket** (**FIG 10**).

TOOLS REQUIRED FOR THIS STEP:



FIG 9



FIG 10

STEP | 02 INSTALL SIDE STEPS

2.2 Mark Brace Mounting Locations: Locate the structural crossmember of the van's undercarriage that the **Hangar Bracket** will be attached to (**FIG 11**). Use a Marker to mark hole positions under each brace, lower your **Step Assembly**, and proceed to drill out mounting holes.

2.3 Drill Mounting Holes: Drill a pilot hole using a **3/16" Drill Bit** (**FIG 12**) and expand using a **17/32" Drill Bit** (**FIG 13**). Clean up the drill hole using a file or countersink.

2.4 Install Rivet Nut: Using a **Rivet Nut Tool**, install your **Rivet Nut** into the drilled hole (**FIG 14**).

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.

2.5 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 11



FIG 12



FIG 13



FIG 14

STEP | 02 INSTALL SIDE STEPS

2.6 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 (FIG 15).

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.

2.7 Secure Hangar Brackets: Drive 1/4-20 x 0.75 Hex Drive Self Tapping Screws through the *upper mounting surface* of the Hangar Bracket to secure them to the van (FIG 16).

TOOLS REQUIRED FOR THIS STEP:

- + 3/8" WRENCH/SOCKET
- + 9/16" WRENCH/SOCKET



FIG 15



FIG 16

TOOLS REQUIRED FOR THIS STEP: + 3/8" SOCKET
+ 1/4" DRIVE EXTENSION

STEP | 02 INSTALL SIDE STEPS

2.8 Secure Hangar Brackets: Move to the outside of the van and drive (4ea) 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 17-18).

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



FIG 17



FIG 18

STEP | 02 INSTALL SIDE STEPS

2.9 Final Side Step Alignment: Check to make sure you are happy with the alignment of your Side Step at this time.

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

TOOLS REQUIRED FOR THIS STEP:

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



FIG 19



FIG 20

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!



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