



INSTALLATION GUIDE

TRANSIT VAN SAFARI RACK - 148" MID ROOF (DROP FRONT)

TR0110B



TOOLS REQUIRED (NOT INCLUDED)

- + MEASURING TAPE
- + QUICK CLAMPS
- + 3/8" WRENCH OR SOCKET
- + 7/16" WRENCH OR SOCKET
- + 9/16" WRENCH OR SOCKET
- + 5/32" ALLEN WRENCH
- + 7/32" ALLEN WRENCH

INSTALL INFO

TIME TO INSTALL THIS PRODUCT: 3-4 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.

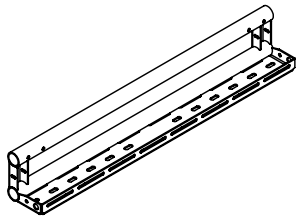
Contact us ASAP if anything is missing at:
support@flatlinevanco.com

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.

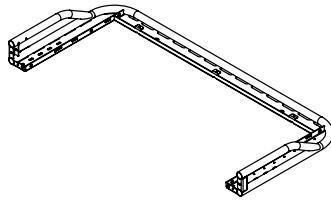


PACKAGE CONTENTS



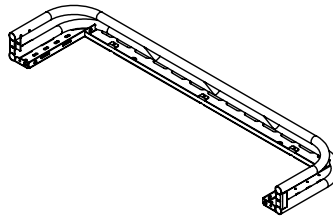
SIDE RAIL (34")

QTY: 6



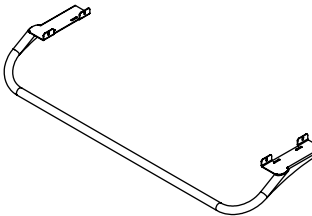
DROP FRONT BASKET

QTY: 1



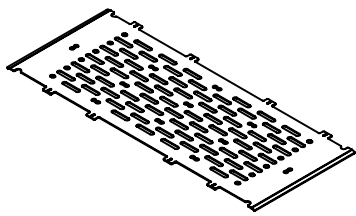
REAR BASKET

QTY: 1



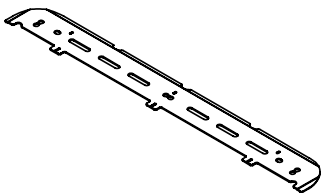
DROP DOWN WELDMENT

QTY: 1



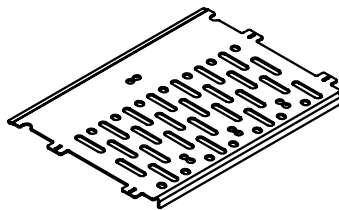
FLOOR SECTION 2

QTY: 1



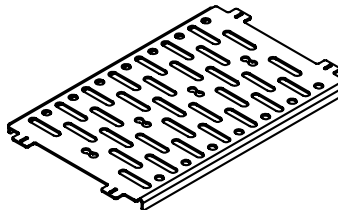
REAR FLOOR SECTION

QTY: 1



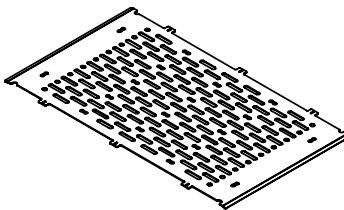
FLOOR SECTION FAN SIDE PANEL

QTY: 4



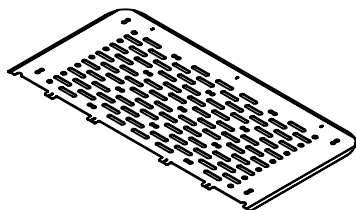
FLOOR SECTION FAN COVER

QTY: 2



FLOOR SECTION 1

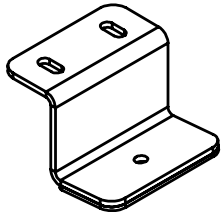
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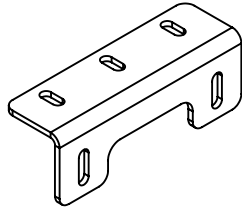
DROP FRONT FLOOR SECTION

QTY: 1

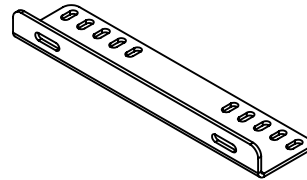
PACKAGE CONTENTS



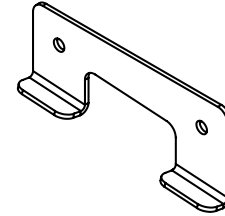
SAFARI FOOT BRACKET
QTY: 2



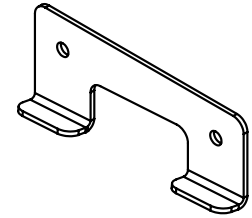
SUPPORT FOOT BRACKET
QTY: 2



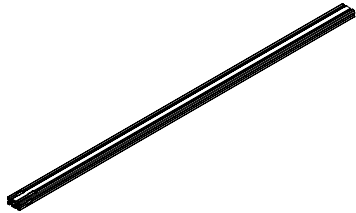
SIDE LADDER BRACKET
QTY: 1



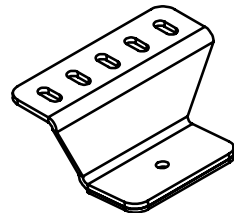
DRIVER SIDE SUPPORT
BRACKET
QTY: 1



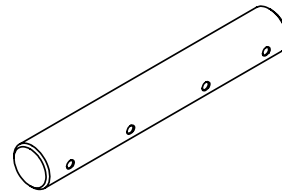
PASS SIDE SUPPORT BRACKET
QTY: 1



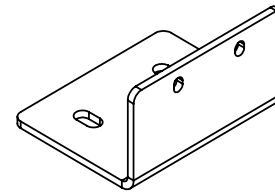
CROSSBAR
QTY: 5



MID ROOF FOOT BRACKET
QTY: 6

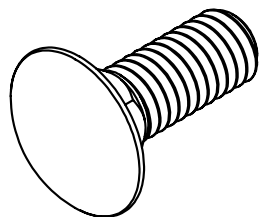


BAYONET
QTY: 8



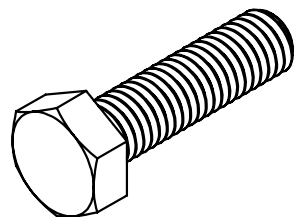
F45 AWNING BRACKETS
QTY: 3

HARDWARE



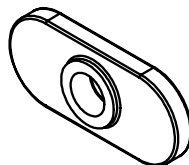
3/8-16 X1 CARRIAGE BOLT

QTY: 30



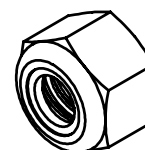
M8-1.25 HEX HEAD SCREW

QTY: 8



1/4-20 T-NUT

QTY: 44



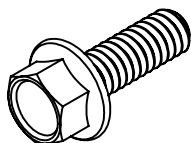
3/8-16 NYLON LOCKNUT

QTY: 34



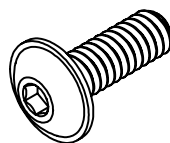
5/16" BONDED SEALING
WASHERS

QTY: 8



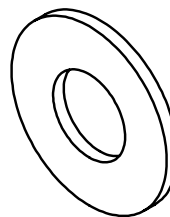
1/4-20 X 0.75 FLANGED HEX
HEAD SCREW

QTY: 38



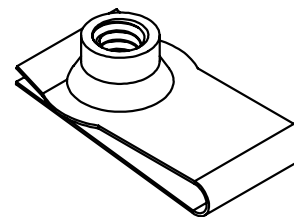
1/4-20 X 0.75 FLANGED BUTTON
HEAD HEX DRIVE SCREW

QTY: 38



3/8 SCREW FLAT WASHER

QTY: 38



1/4-20 CLIP NUT

QTY: 6



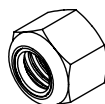
1/4-20 X 0.5 FLANGED BUTTON
HEAD HEX DRIVE SCREW

QTY: 44



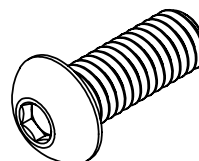
1/4 SCREW FLAT WASHER

QTY: 18



1/4-20 NYLON LOCKNUT

QTY: 18



3/8-16 X1 BUTTON HEAD
HEX DRIVE SCREW

QTY: 4

INSTALL

STEP | 01 LAYOUT AND INSTALL PREP

1.1 Remove Mounting Hole Caps: Use a heat gun on a low temperature setting to loosen up the adhesive that holds the mounting hole caps to the top of the van. There should be six total. Use a chisel or plastic pry tool to gently remove them from the mounting surface (FIG 1).

1.2 Clean Mounting Surface: Clean the area using goo-gone and denatured alcohol to thoroughly remove any adhesive residue (FIG 2).

1.3 Ensure Bolt Clearance: Dry fit the landing pads onto the mounting surface and ensure that bolts can pass through to the factory threaded slots (FIG 3). If there are clearance issues, use a die grinder to carefully enlarge the holes for access to threaded mounting holes (FIG 4).

TOOLS REQUIRED FOR THIS STEP: + CHISEL
+ DIE GRINDER OR METAL FILE



FIG 1



FIG 2

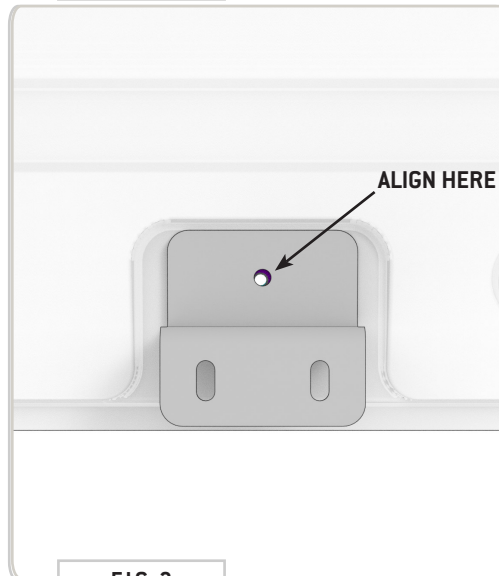


FIG 3

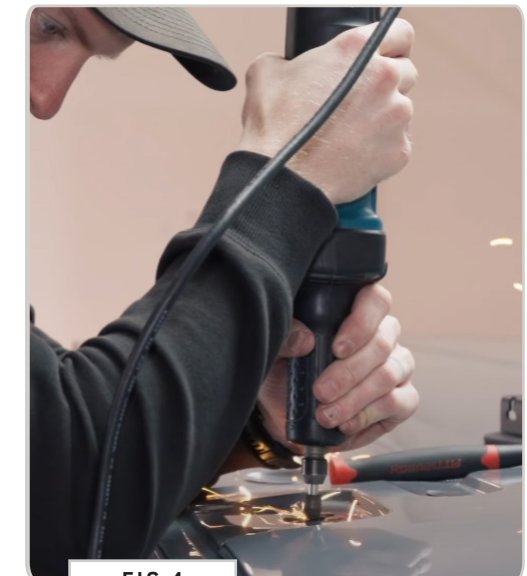
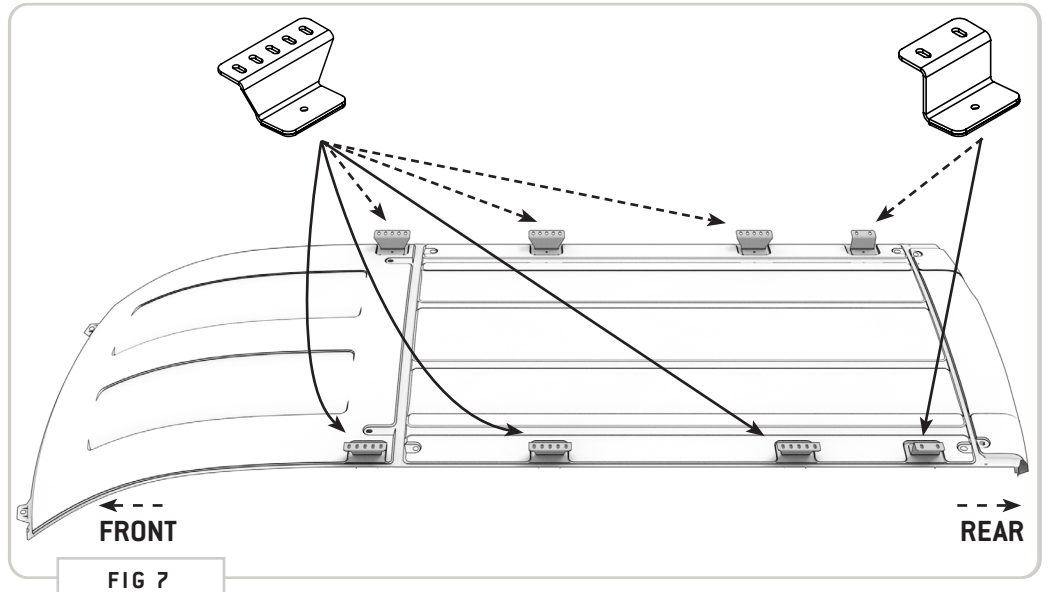
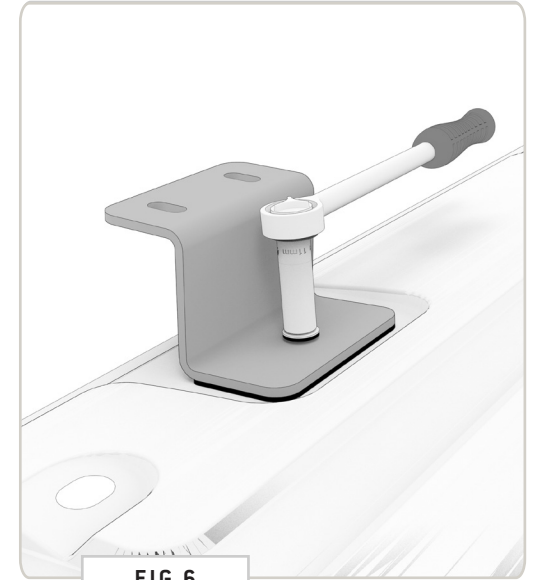


FIG 4

TOOLS REQUIRED FOR THIS STEP: + 13MM BOX WRENCH OR SOCKET

STEP | 02 FOOT BRACKET INSTALL

2.1 Install Foot Brackets: Secure the Foot Brackets to the roof by tightening down M8 Bolts with loctite and 5/16" Bonded Sealing Washers (FIG 5+6). See FIG 7 for the layout of Foot Brackets by type.



TOOLS REQUIRED FOR THIS STEP: + CAULKING GUN

STEP | 02 FOOT BRACKET INSTALL

2.2 Apply Sealant: Apply a small bead of exterior waterproof sealant around the outside of each landing pad (**FIG 8+9**).

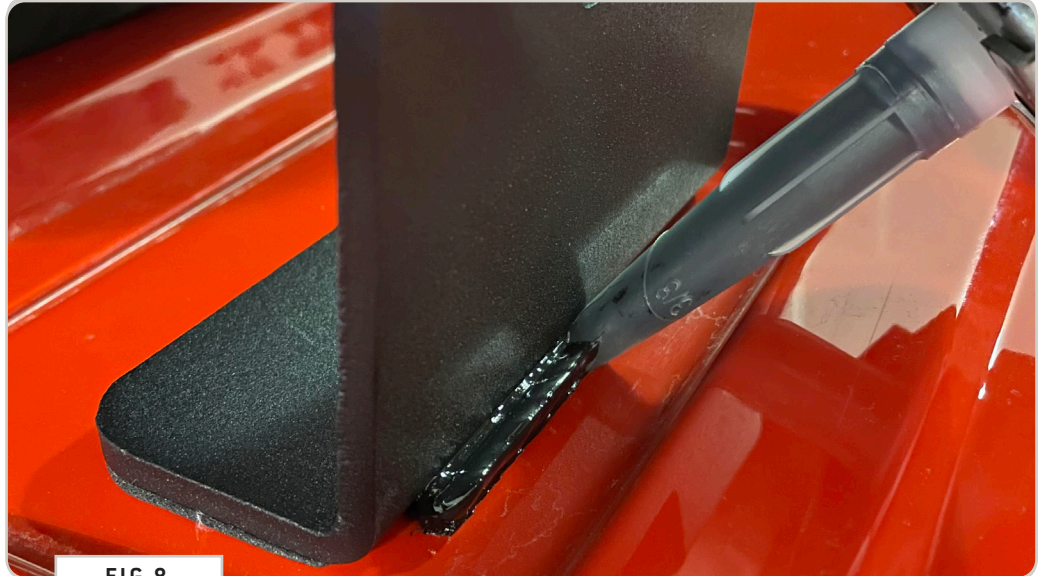


FIG 8

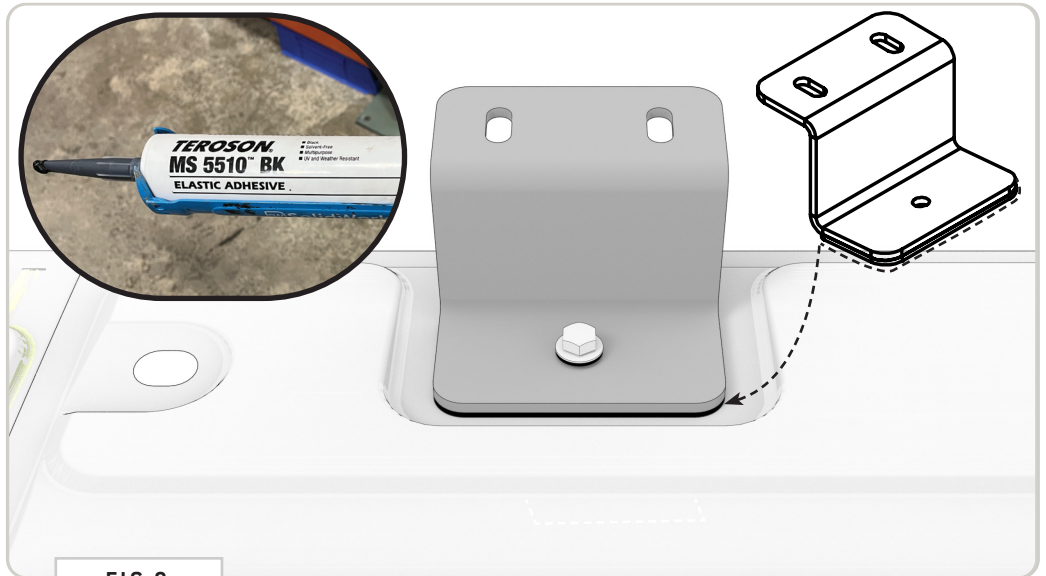


FIG 9

TOOLS REQUIRED FOR THIS STEP: + 5/32" ALLEN WRENCH

STEP | 03 SIDE RAIL ASSEMBLY

3.1 Assemble Side Rails: Insert a **Bayonet** into the end of a **Side Rail** (FIG 10+11) and use (2) **1/4-20 x 0.75 Flanged Button Head Screws** (not the shorter ones) to loosely secure the **Bayonet** in place.

3.2 Assemble Side Rails: Attach another **Side Rail** piece to the protruding end of the **Bayonet** and repeat the process on the other side. See FIG 10 for layout of components.

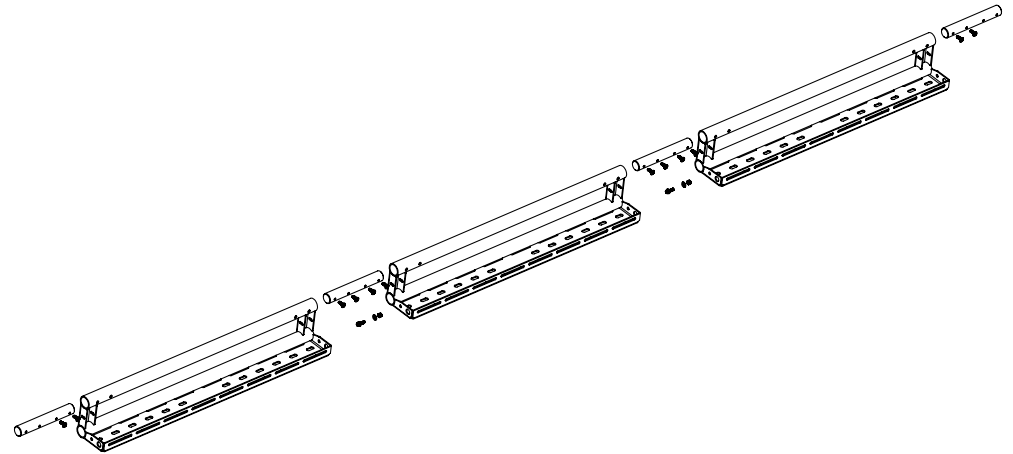


FIG 10



FIG 11

STEP | 04 SIDE RAIL ASSEMBLY

4.1 Fasten Side Rails Together: Secure the connection with a **1/4-20 Flanged Hex Bolt, Washer and Nylon Locknut**. Insert the bolt through the smaller hole inside the larger wire pass-through hole (**FIG 12**).

NOTE - Use clamps to ensure the seams are tight while you tighten the bolts (**FIG 13**).

TOOLS REQUIRED FOR THIS STEP:

- + QUICK CLAMPS
- + 3/8" WRENCH OR SOCKET
- + 7/16" WRENCH OR SOCKET



FIG 12



FIG 13

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

STEP | 05 SIDE RAIL INSTALL

5.1 Mount Side Rails to Van Rails: With assistance, lift the **Side Rail Assembly** onto the roof. Align the **Side Rail Assembly** with the mounting holes of the **Foot Brackets** and secure loosely using **3/8-16" Carriage Bolts, Flat Washers and Nylon Locknuts** as shown in FIG 14+15.

NOTE - Leave these bolts loose; we'll come back and tighten them at a later step.

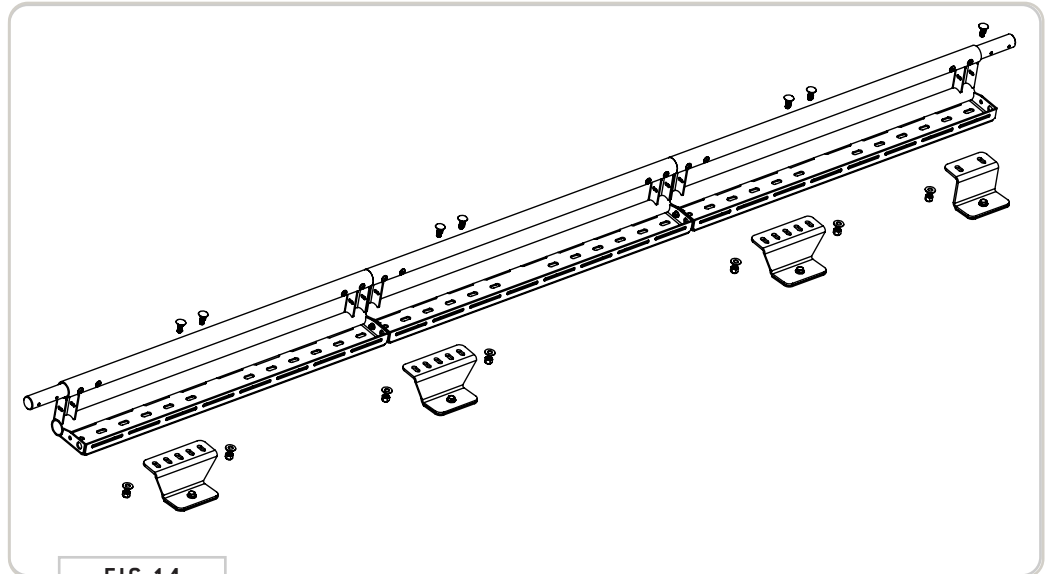


FIG 14

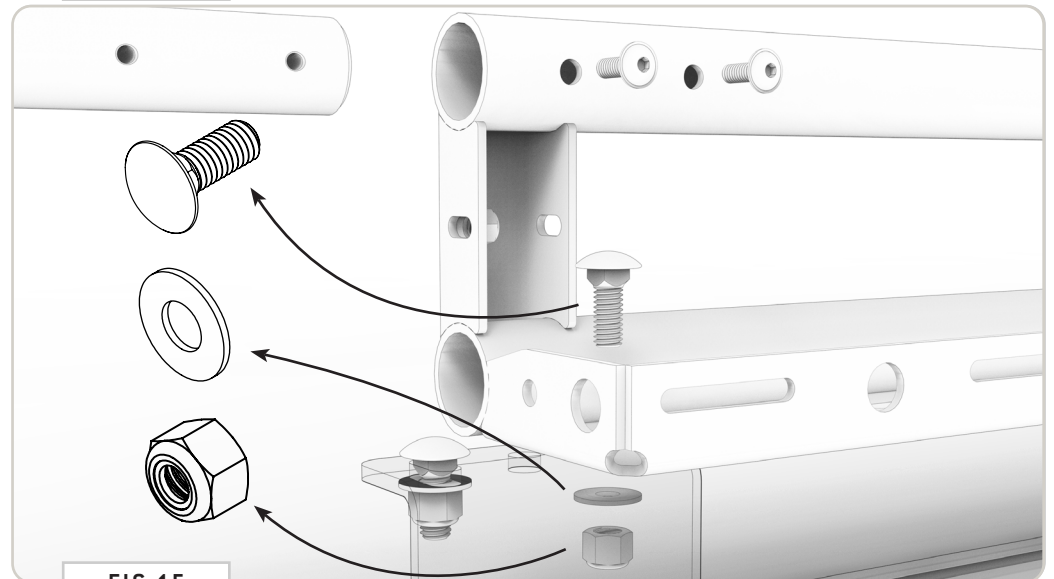


FIG 15

STEP | 06 ATTACH BASKETS TO RAILS

6.1 Attach Front and Rear Baskets: With help, carefully attach the **Front Basket** to the protruding **Bayonets** and secure the connections using **(2) 1/4-20 x 0.75 Flanged Button Head Screws** (not the shorter ones) for the **Bayonets** and a **1/4-20 Flanged Hex Bolt, Washer and Nylon Locknut** for the **Side Rail** connection.

NOTE - Use clamps to ensure the seams are tight while you tighten the bolts (**FIG 17**).

TOOLS REQUIRED FOR THIS STEP: + 5/32" ALLEN WRENCH
+ QWICK CLAMPS
+ 3/8" WRENCH OR SOCKET
+ 7/16" WRENCH OR SOCKET

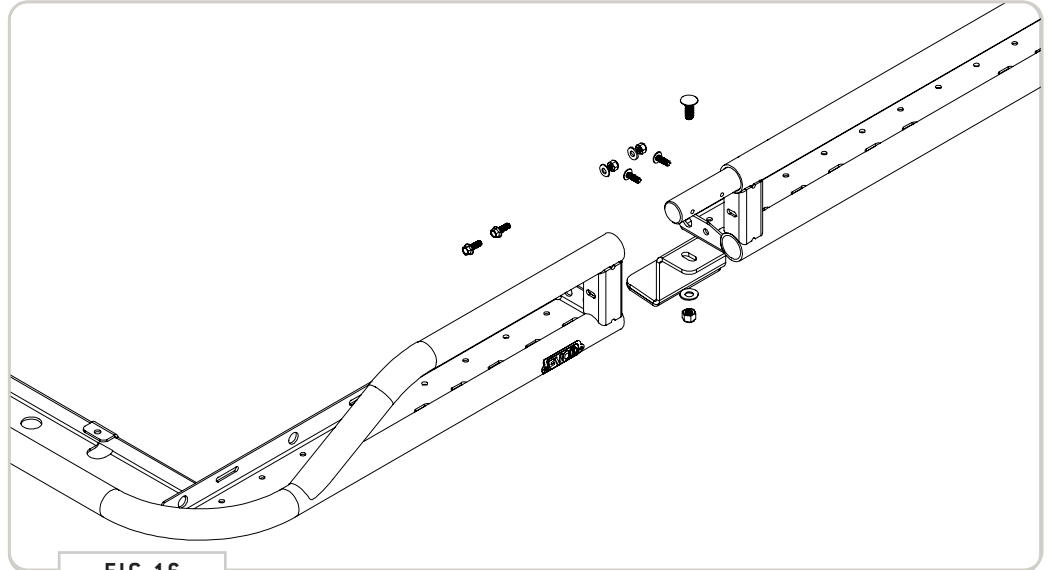


FIG 16



FIG 17

STEP | 07 ATTACH DROP FRONT

7.1 Attach Drop Front: The Drop Front mounts to the underside tray of the Front Basket Weldment. You will need to maneuver it around your antenna to get it in place, so having a second person helps immensely for this step. FIG 19 and 20 details how the Drop Front fastens to the Front Basket. Use a **1/4-20 Flanged Hex Bolt, Washer and Nylon Locknut** in the locations shown.

NOTE - We recommend installing your lighting setup to the Drop Front weldment prior to installing it on the rack. This makes adjustments and placement a bit easier.

TOOLS REQUIRED FOR THIS STEP:

- + 3/8" WRENCH OR SOCKET
- + 7/16" WRENCH OR SOCKET

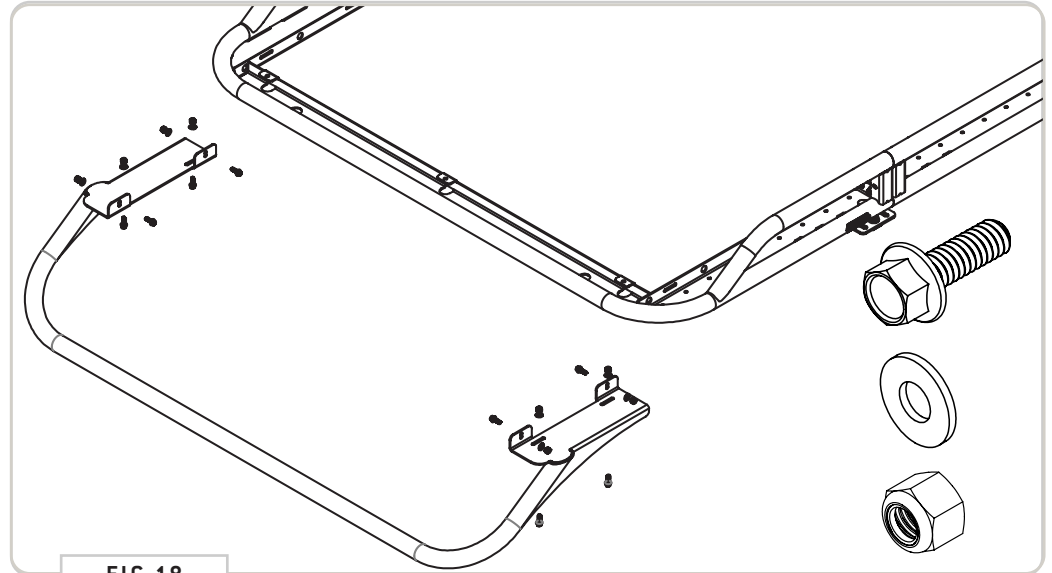


FIG 18

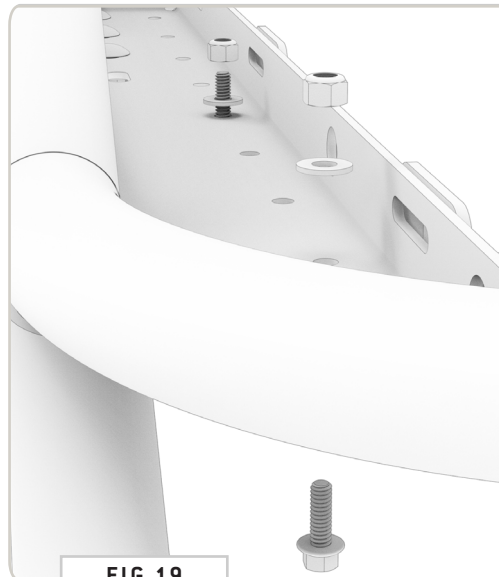


FIG 19



FIG 20

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

STEP | 08 INSTALL AWNING BRACKETS

8.1 F45 Awning Brackets (optional): If you purchased a Fiamma F45 Awning with your rack, install the (3) Awning Brackets at this time using (2ea) 3/8-16" Carriage Bolts, Flat Washers and Nylon Locknuts. See FIG 22 for locations.



FIG 21

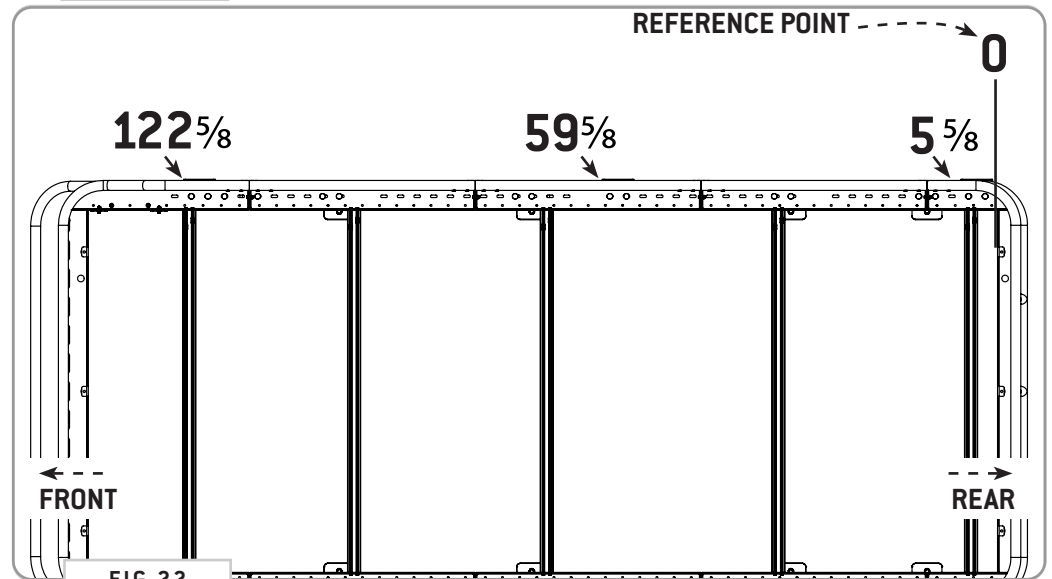


FIG 22

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

STEP | 09 INSTALL LADDER BRACKET

9.1 Side Ladder Bracket (optional): If you purchased a **Side Ladder** with your rack, install the **Side Ladder Bracket** at this time using **(2ea) 3/8-16" Carriage Bolts, Flat Washers and Nylon Locknuts**. See **FIG 23+24** for available locations. Notice that there are multiple slots available to choose from that allow for adjustability.

NOTE - If you haven't purchased your ladder yet, or intend on installing at a different time, you should install the bracket now and attach the hardware. This will save you time later.



FIG 23

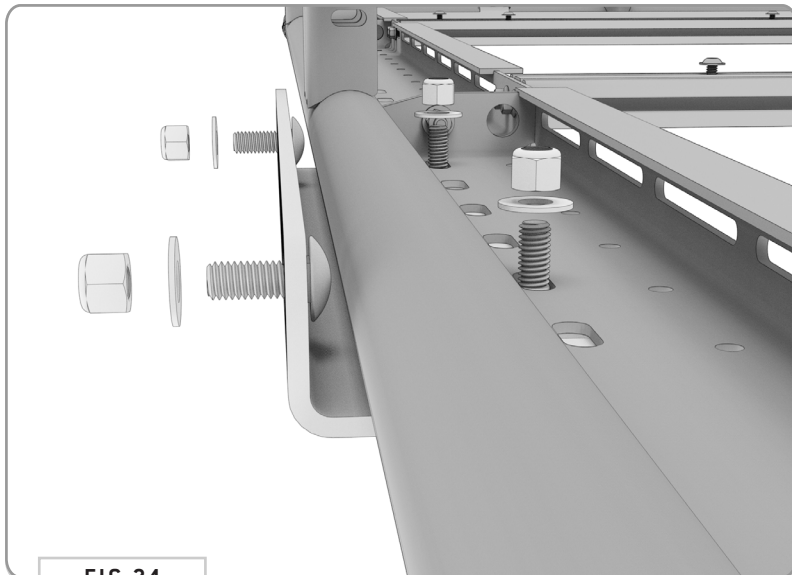


FIG 24

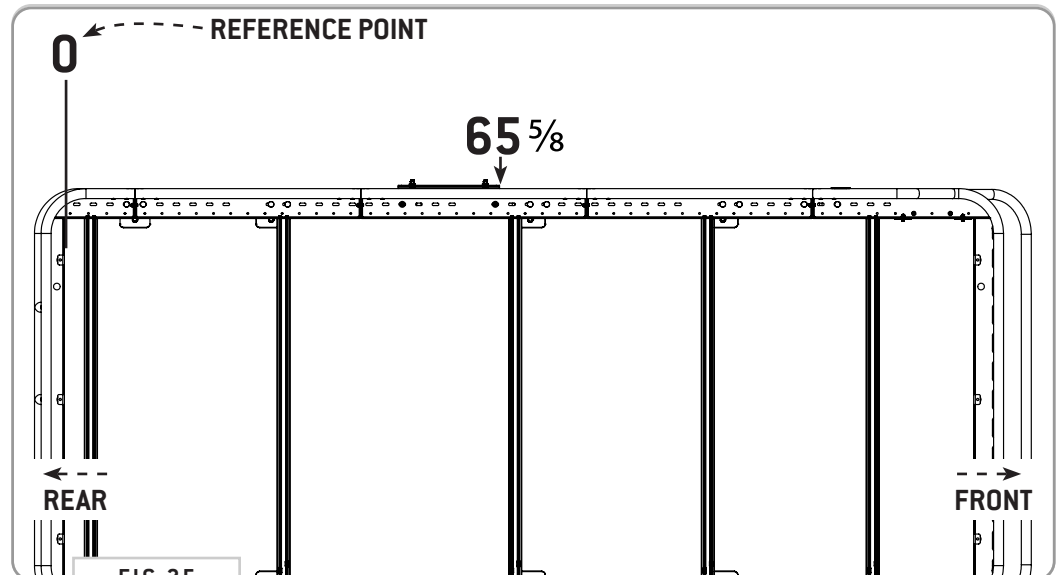


FIG 25

TOOLS REQUIRED FOR THIS STEP: + MEASURING TAPE
+ 7/16" WRENCH OR SOCKET

STEP | 10 INSTALL CROSSBARS

10.1 Attach Crossbars: Using (4ea) 1/4-20 Flanged Hex Bolts with Loctite (FIG 26), attach Crossbars to the rack in the locations shown in FIG 27. Be sure to measure both sides to ensure that the crossbars are square.

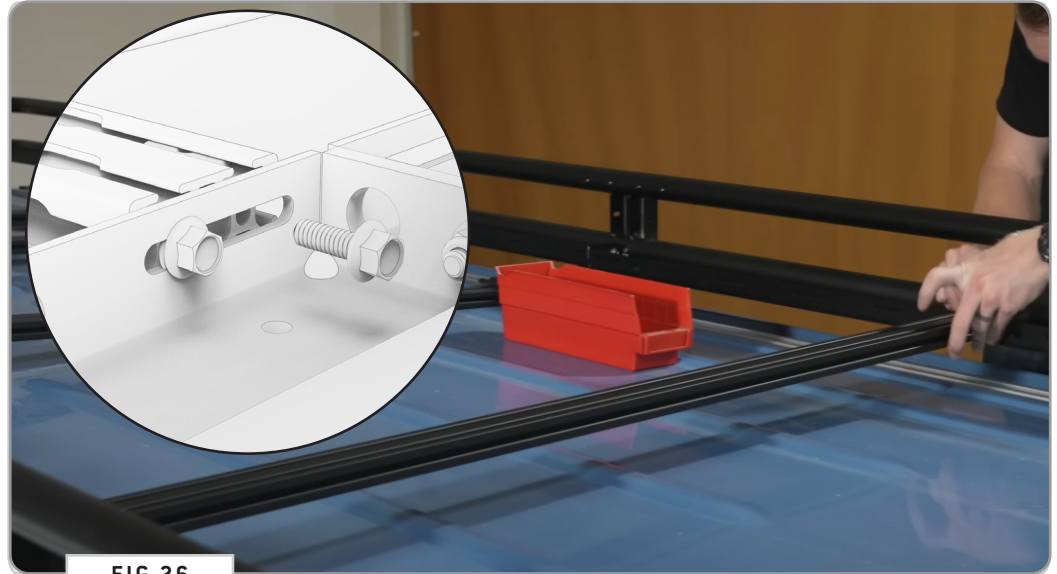


FIG 26

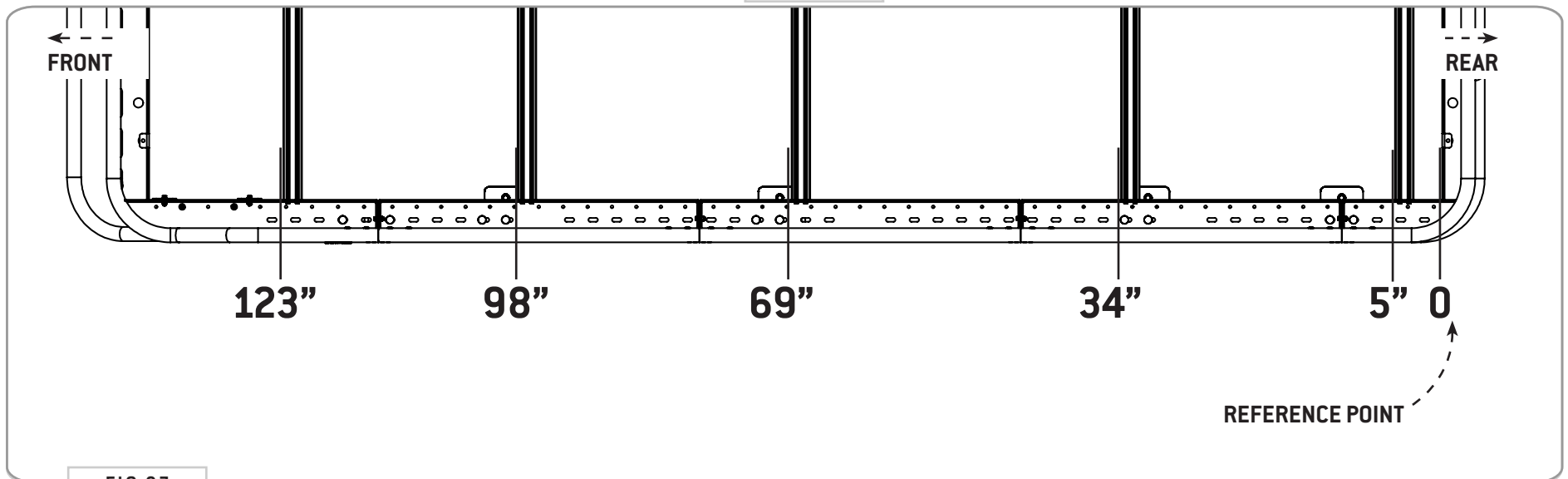


FIG 27

STEP | 11 PREP FOR PANELS

11.1 Attach Clip Nuts to Baskets: Install the **Clip Nuts** to the **Front and Rear Basket** locations as shown in **FIG 28**.

NOTE - *The flat side of the **Clip Nut** should be facing upwards (FIG 29)*

TOOLS REQUIRED FOR THIS STEP:

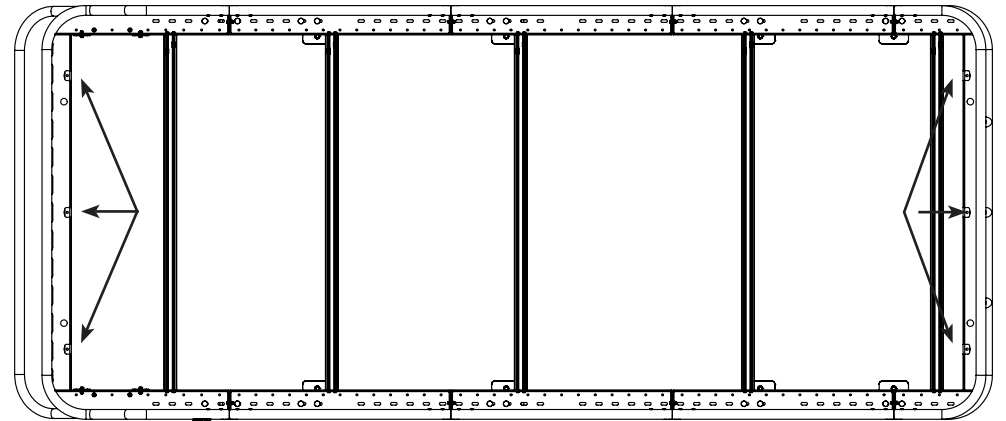


FIG 28

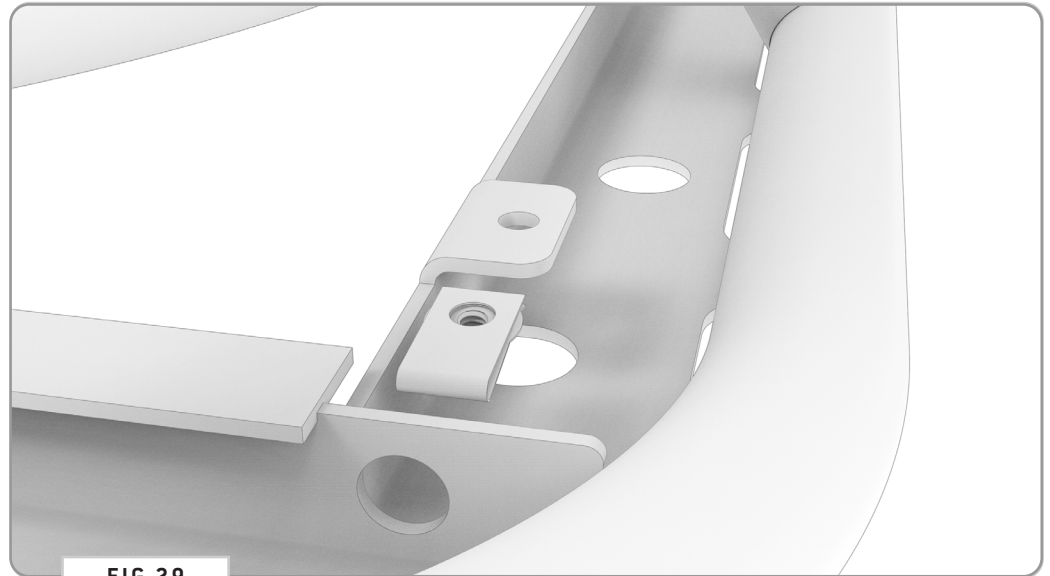


FIG 29

TOOLS REQUIRED FOR THIS STEP:

STEP | 11 PREP FOR PANELS

11.2 Layout T-Nuts: Consider the layout plan of your roof accessories and install T-Nuts into the available slots of the Crossbars as shown in **FIG 30**. See **FIG 31** for amounts of T-Nuts needed per slot if using exclusively decking panels.

NOTE - The flat side of the **T-Nuts** should be facing upwards when installing to **Crossbar**.



FIG 30

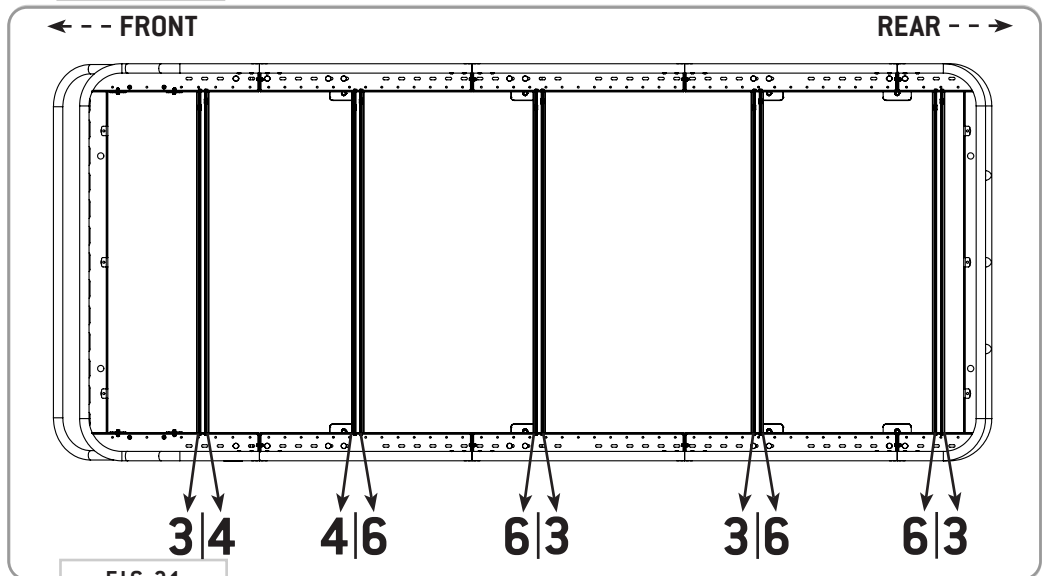


FIG 31

STEP | 12 INSTALL FLOOR PANELS

12.1 Install Floor Panels: Begin to layout your **Decking Panels** along the locations shown in **FIG 32**. Adjust the **T-Nuts** as necessary to line up with the available pill slots of the **Decking Panels** (**FIG 33**).

TOOLS REQUIRED FOR THIS STEP:

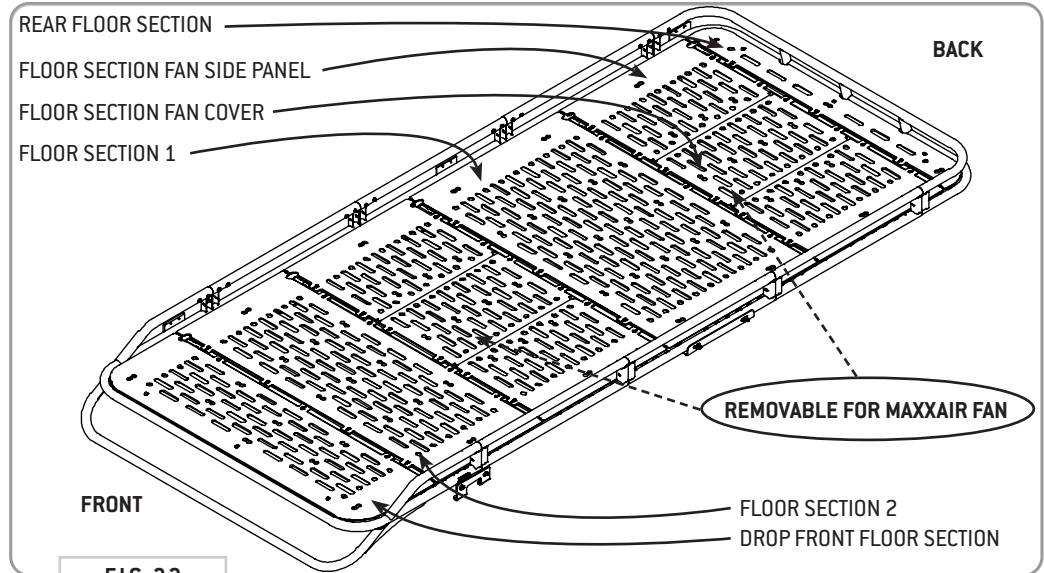


FIG 32

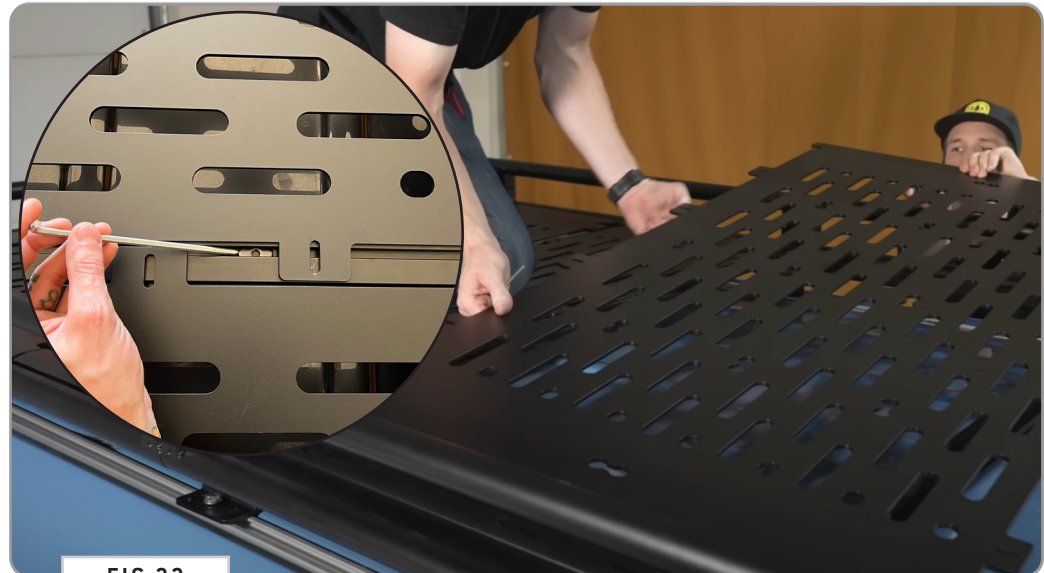


FIG 33

TOOLS REQUIRED FOR THIS STEP: + 5/32" ALLEN WRENCH

STEP | 12 INSTALL FLOOR PANELS

12.2 Install Floor Panels: Note that the front and rear-most panels have pill slots for attaching to the **Clip Nuts** installed earlier (FIG 34). Use the **1/4-20 x 0.5" Flanged Button Head Screws** for the **Decking Panels** that attach to **Crossbars**, and the longer **0.75" Screws** for the ones that attach to the **Clip Nuts** (FIG 35).



FIG 34

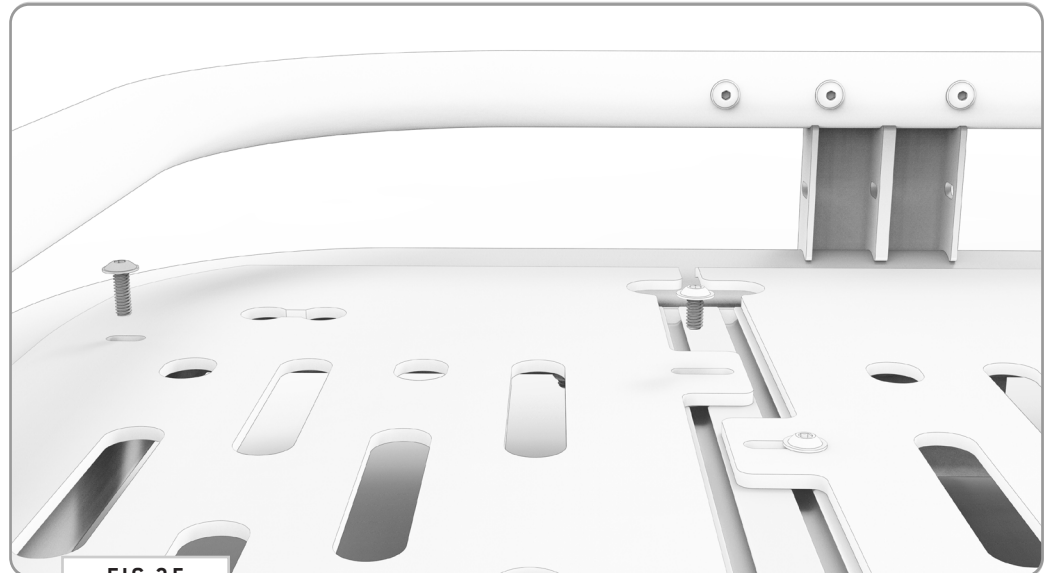


FIG 35

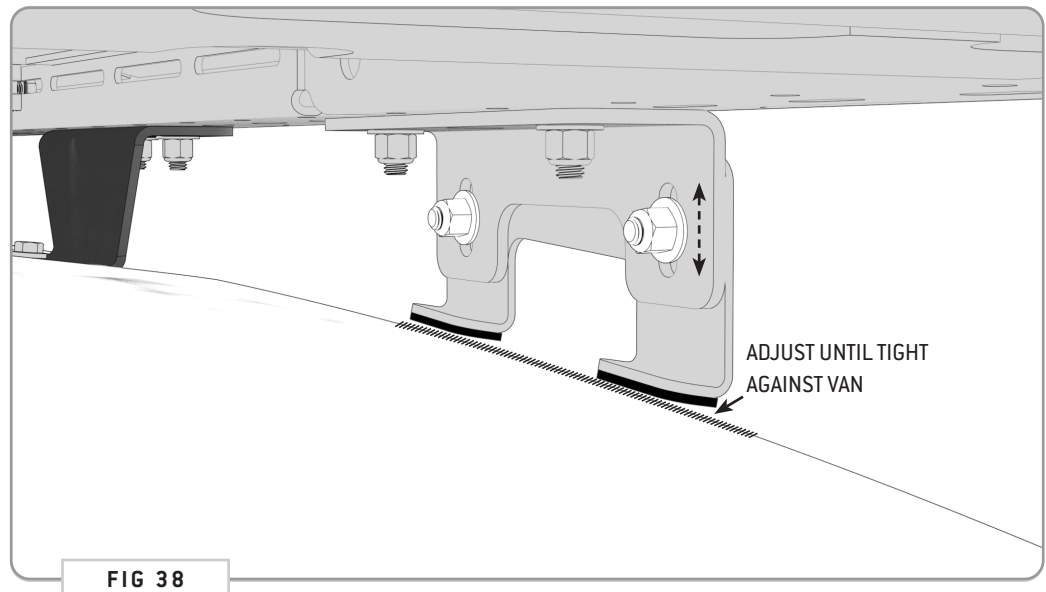
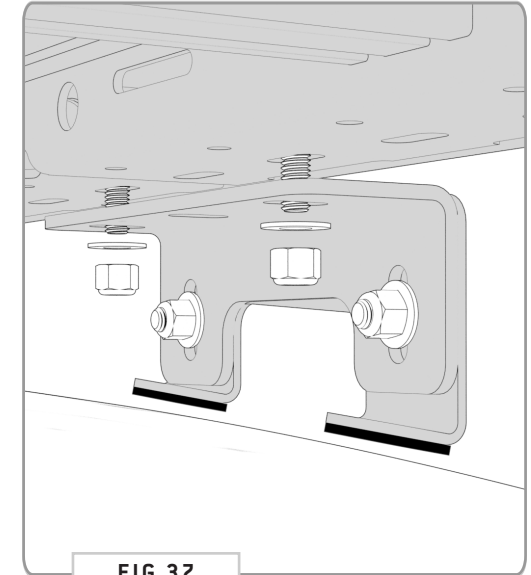
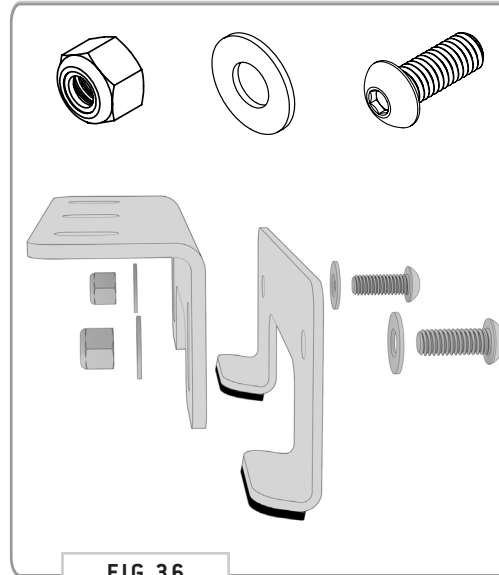
TOOLS REQUIRED FOR THIS STEP: + 7/32" ALLEN WRENCH
+ 9/16" WRENCH OR SOCKET

STEP | 13 INSTALL SUPPORT BRACKETS

13.1 Assemble Support Brackets: Attach the **Passenger and Driver Side Support Brackets** to the **Support Foot Brackets** (FIG 36) using (2ea) **3/8-16 X 1 Button Head Hex Drive Screws**, **3/8 Screw Flat Washers** and **3/8-16 Nylon Locknuts**, leaving the hardware loose enough to slide the two pieces for adjustment.

13.2 Attach Support Bracket Assemblies to Rack: Mount the **Support Bracket Assemblies** to the **Safari Rack** in the location shown in FIG 37 using (2ea) **3/8-16 X 1 Button Head Hex Drive Screws**, **3/8 Screw Flat Washers** and **3/8-16 Nylon Locknuts**. Note that the **Support Foot Bracket** just overlaps onto the **Side Rail** enough to catch one hole.

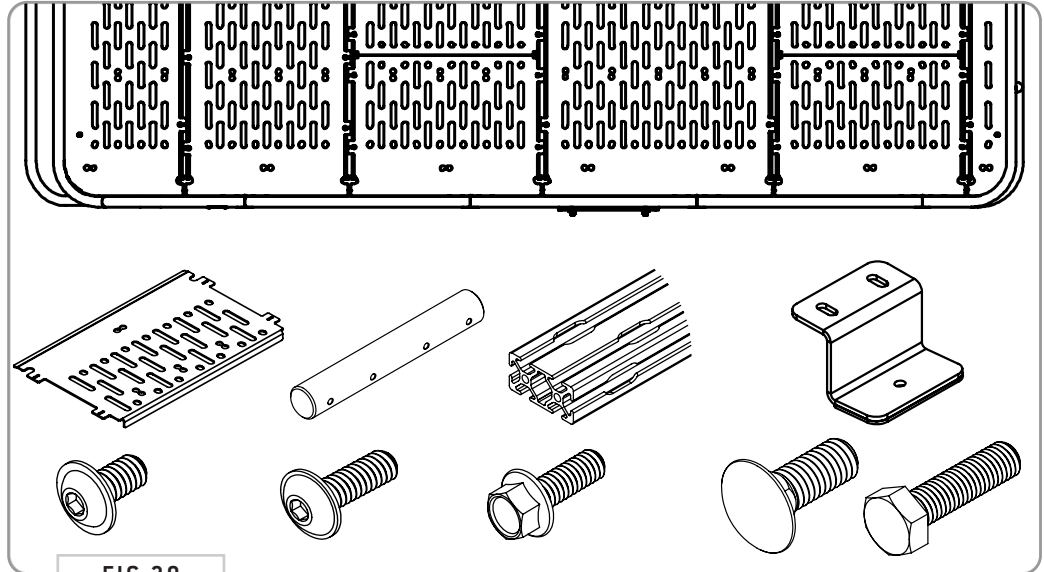
13.2 Tighten Support Bracket Assembly Fasteners: Once you tightened down the hardware attaching them to the **Safari Rack**; adjust the **Support Bracket Assembly** so that it is tight against the roof of your van (FIG 38).



STEP | 14 FINAL ADJUSTMENTS

14.1 Tighten Fasteners: Once you've got all of the floor sections bolted down, do a once-over of all fasteners on the rack to ensure they are tight and secure. Install is now complete, and you're ready for adventure!

- TOOLS REQUIRED FOR THIS STEP:**
- + 3/8" WRENCH OR SOCKET
 - + 7/16" WRENCH OR SOCKET
 - + 9/16" WRENCH OR SOCKET
 - + 5/32" ALLEN WRENCH



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