



# INSTALLATION GUIDE

## TRANSIT VAN SAFARI RACK - 148" HIGH ROOF (BASKET FRONT)

TR0105B



### 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

### 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.

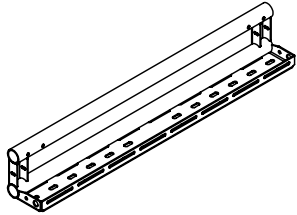
Contact us ASAP if anything is missing at:  
[support@flatlinevanco.com](mailto:support@flatlinevanco.com)

# 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.

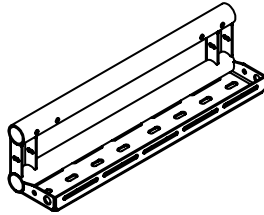


# PACKAGE CONTENTS



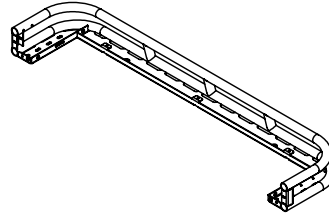
SIDE RAIL (34")

QTY: 4



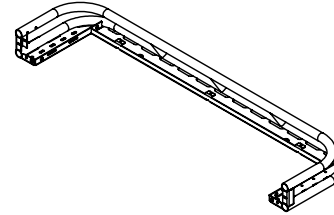
SIDE RAIL (20.5")

QTY: 2



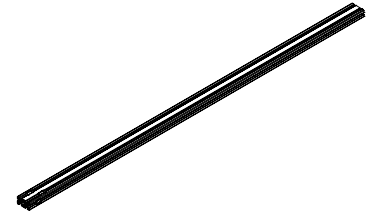
FRONT BASKET

QTY: 1



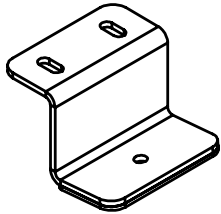
REAR BASKET

QTY: 1



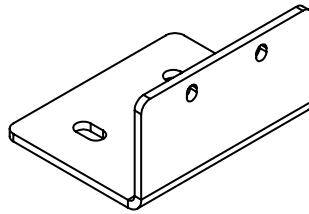
CROSSBAR

QTY: 4



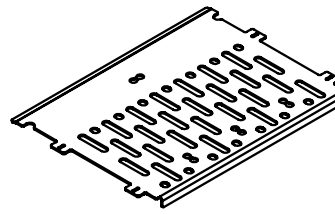
SAFARI FOOT BRACKET

QTY: 8



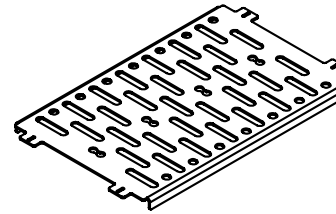
F45 AWNING BRACKET

QTY: 3



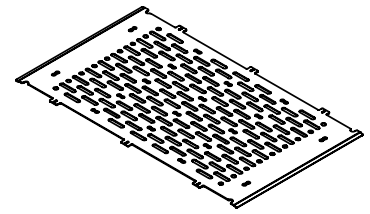
FLOOR SECTION FAN SIDE PANEL

QTY: 4



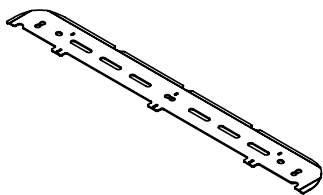
FLOOR SECTION FAN COVER

QTY: 2



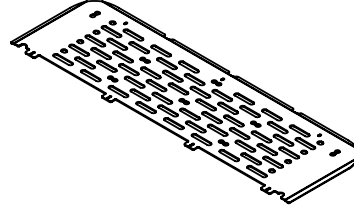
FLOOR SECTION 1

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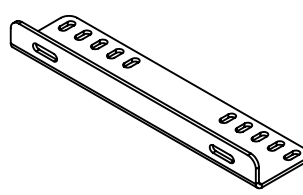
REAR FLOOR SECTION

QTY: 1



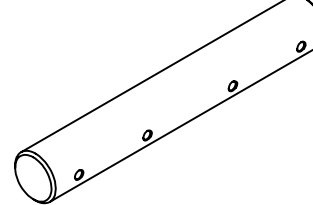
BASKET FRONT FLOOR SECTION

QTY: 1



SIDE LADDER BRACKET

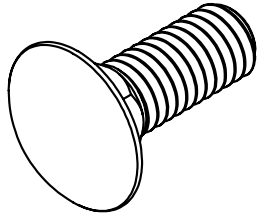
QTY: 1



BAYONET

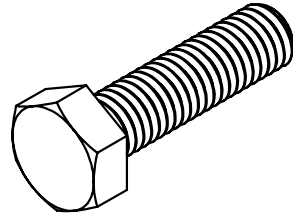
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# HARDWARE



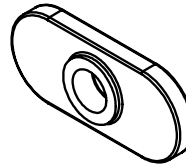
3/8-16 X 1 CARRIAGE BOLT

QTY: 26



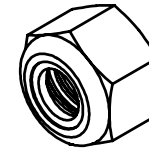
M8-1.25 HEX HEAD SCREW

QTY: 8



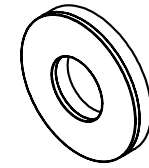
1/4-20 T-NUT

QTY: 37



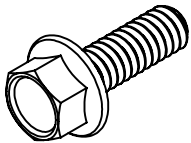
3/8-16 NYLON LOCKNUT

QTY: 26



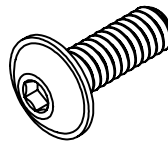
5/16" BONDED SEALING  
WASHERS

QTY: 8



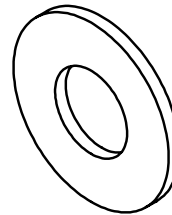
1/4-20 X 0.75 FLANGED HEX  
HEAD SCREW

QTY: 24



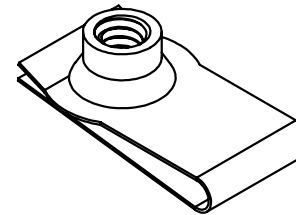
1/4-20 X 0.75 FLANGED BUTTON  
HEAD HEX DRIVE SCREW

QTY: 38



3/8 SCREW FLAT WASHER

QTY: 26



1/4-20 CLIP NUT

QTY: 6



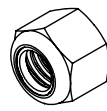
1/4-20 X 0.5 FLANGED BUTTON  
HEAD HEX DRIVE SCREW

QTY: 37



1/4 SCREW FLAT WASHER

QTY: 8



1/4-20 NYLON LOCKNUT

QTY: 8



# INSTALL

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

## 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).



FIG 1



FIG 2



FIG 3

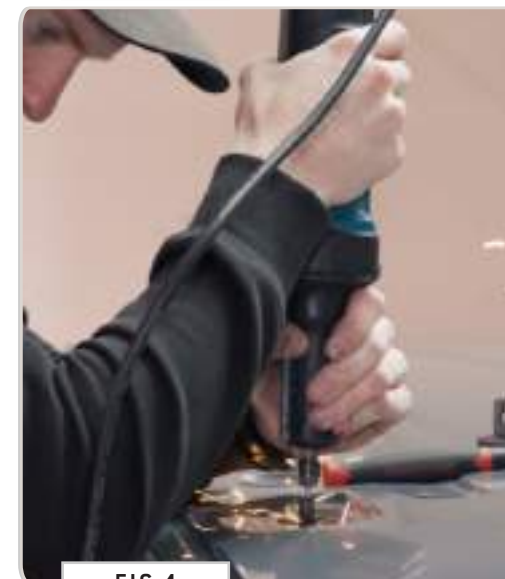


FIG 4

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

## 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)**.

**2.2 Apply Sealant:** Apply a small bead of exterior waterproof sealant around the outside of each landing pad (**FIG 7**).



FIG 5



FIG 6

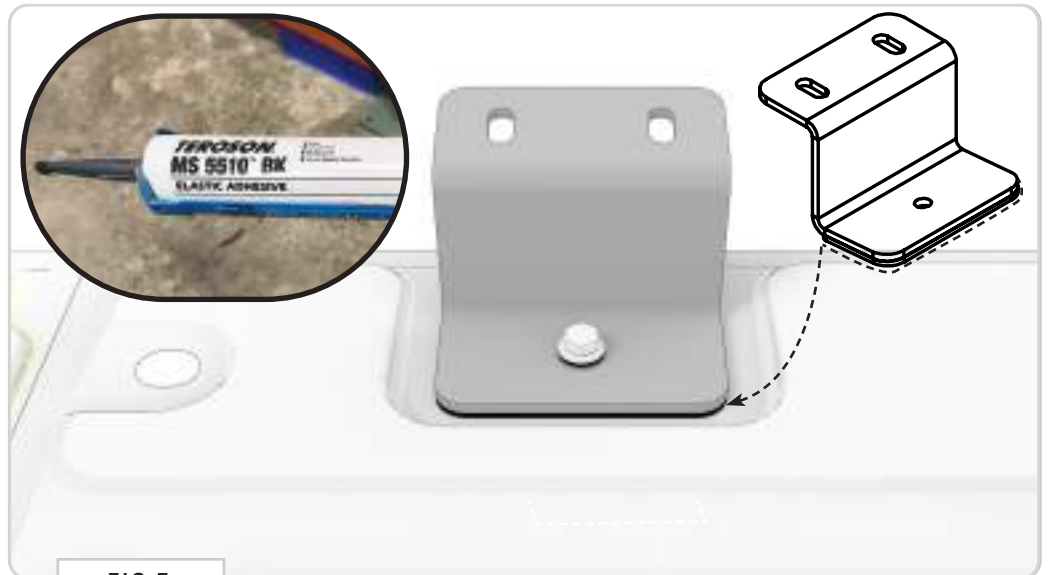


FIG 7

## STEP | 03 SIDE RAIL ASSEMBLY

**3.1 Assemble Side Rails:** Insert a **Bayonet** into the end of a **34" Side Rail (FIG 8+9)** 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 **34" Side Rail** piece to the protruding end of the **Bayonet** and repeat the process on the other side with a **20.5" Side Rail**. See **FIG 8** for layout of components.

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

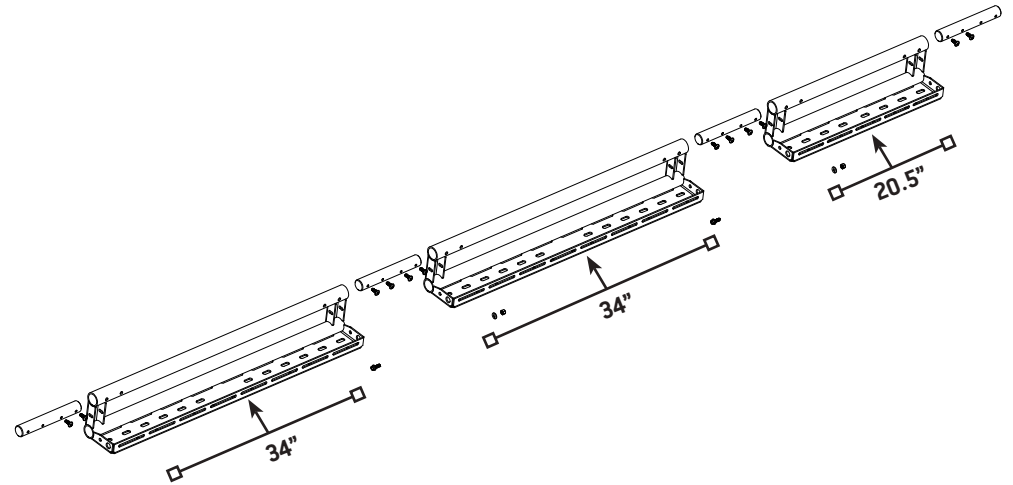


FIG 8



FIG 9

## 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 10**).

**NOTE** - Use clamps to ensure the seams are tight while you tighten the bolts (**FIG 11**).

**TOOLS REQUIRED FOR THIS STEP:**

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



FIG 10



FIG 11

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 12+13.

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

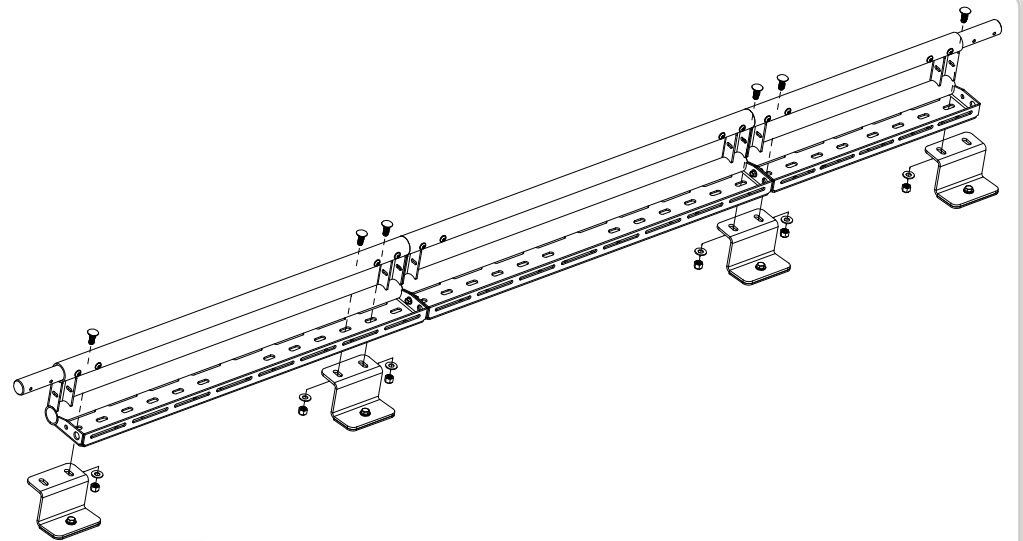


FIG 12

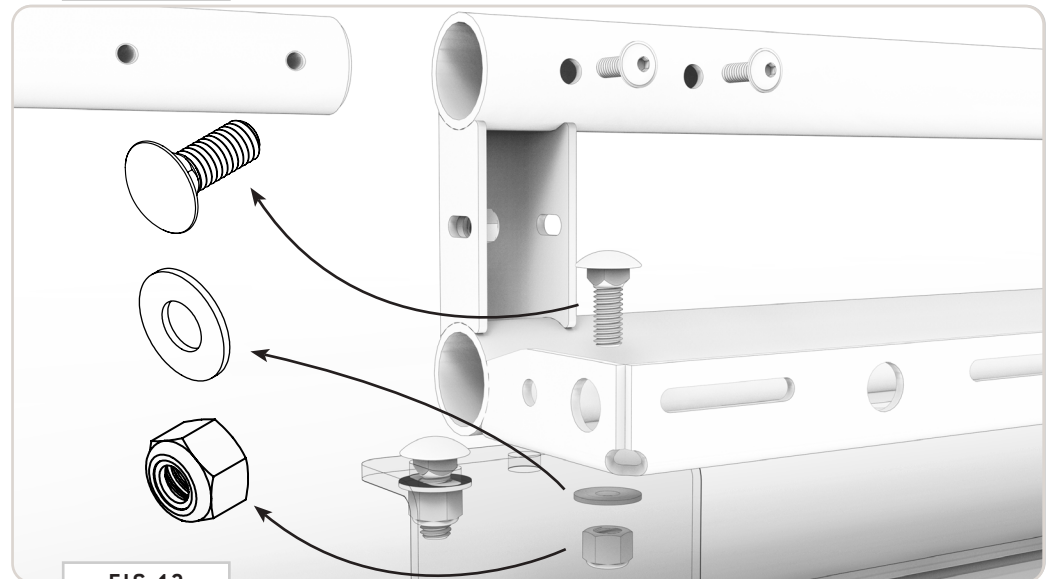


FIG 13

## 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 15**).

### TOOLS REQUIRED FOR THIS STEP:

- + 5/32" ALLEN WRENCH
- + QWICK CLAMPS
- + 3/8" WRENCH OR SOCKET
- + 7/16" WRENCH OR SOCKET



FIG 14



FIG 15



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

## STEP | 07 INSTALL AWNING BRACKETS

**7.1 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 17 for locations.



FIG 16

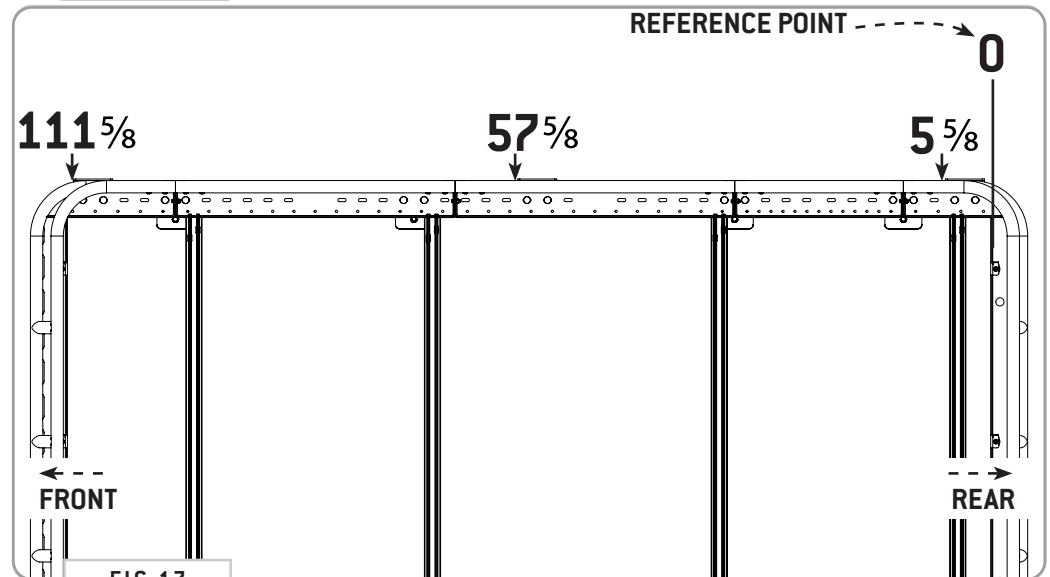


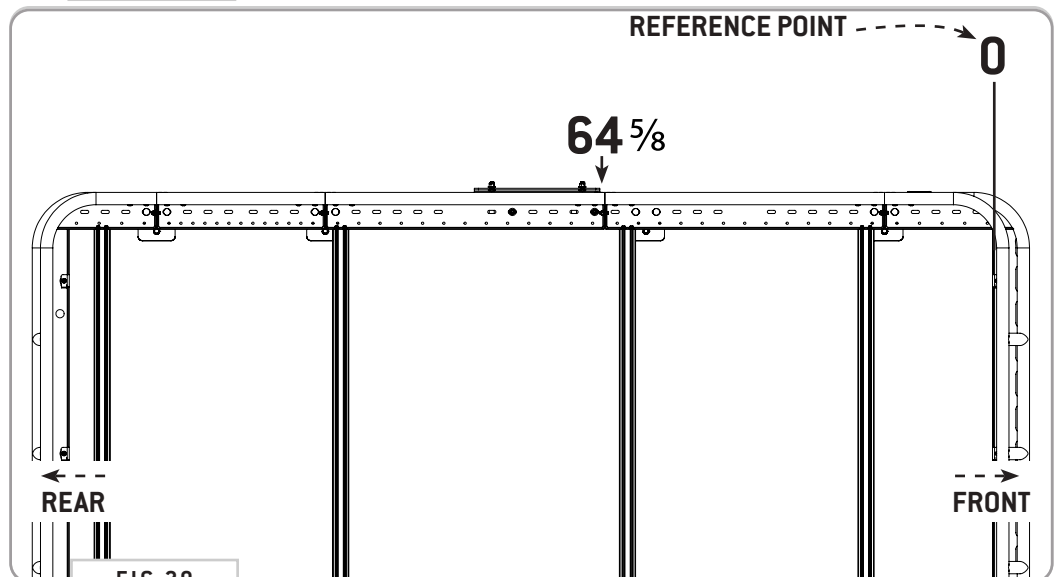
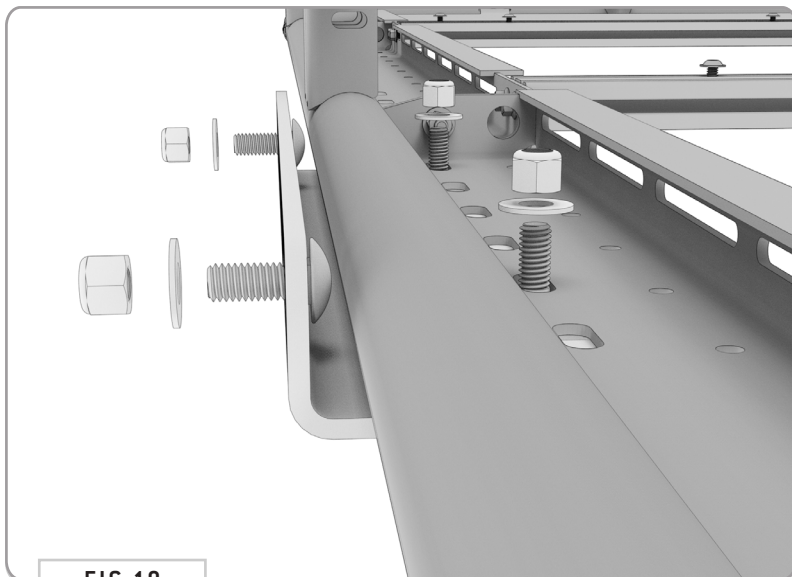
FIG 17

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

## STEP | 08 INSTALL LADDER BRACKET

**8.1 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 18+19** 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.





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

## STEP | 09 INSTALL CROSSBARS

**9.1 Attach Crossbars:** Using [4ea] 1/4-20 Flanged Hex Bolts with Loctite (FIG 21), attach Crossbars to the rack in the locations shown in FIG 22. Be sure to measure both sides to ensure that the crossbars are square.

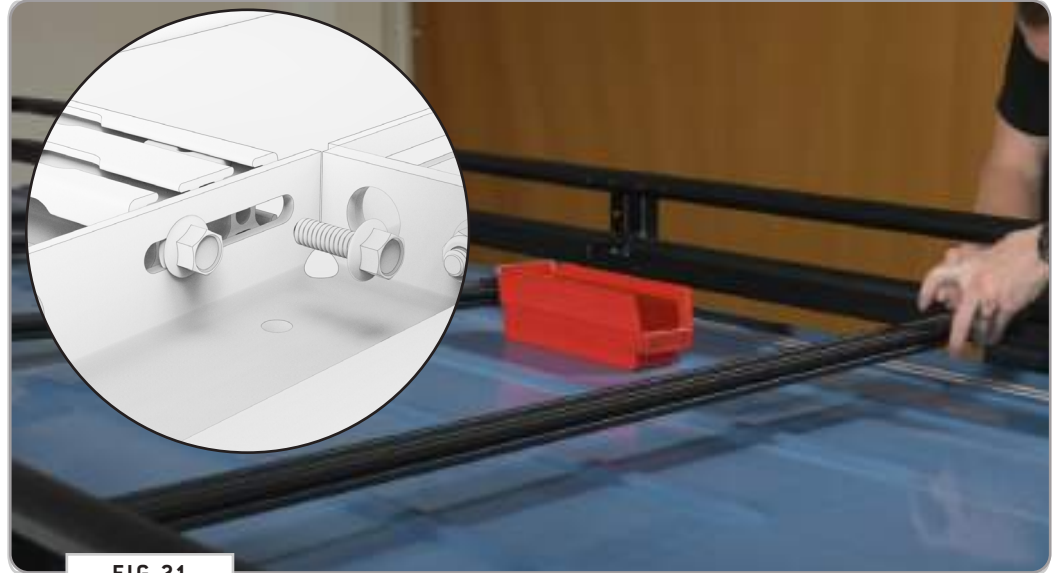


FIG 21

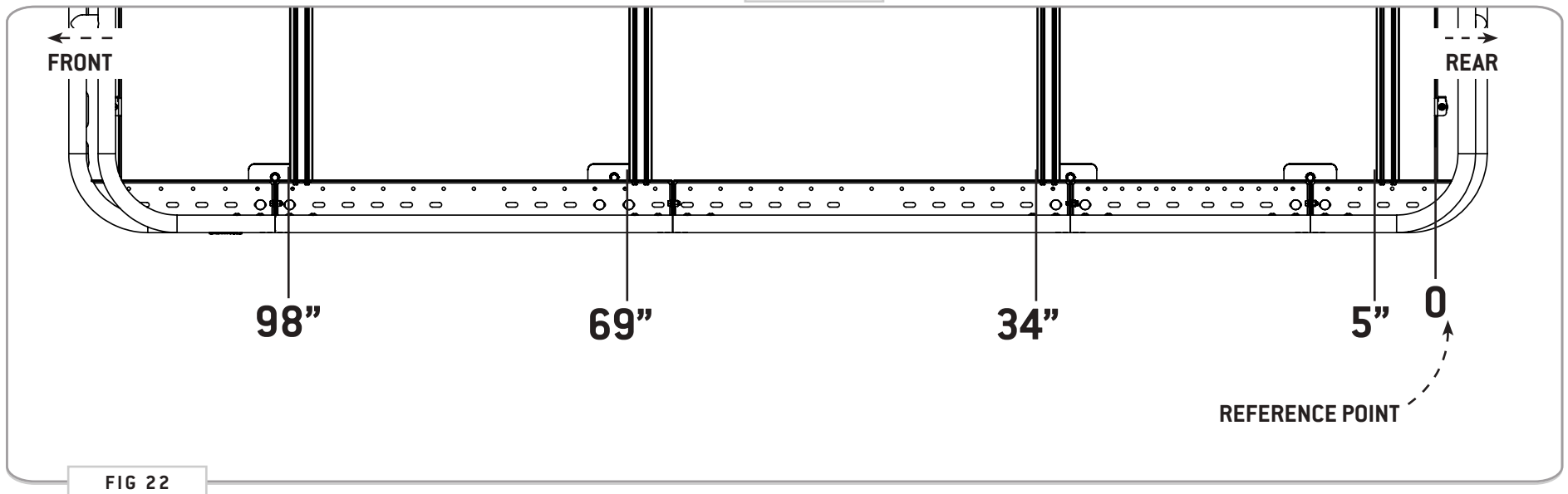


FIG 22

## STEP | 10 PREP FOR PANELS

**10.1 Attach Clip Nuts to Baskets:** Install the **Clip Nuts** to the **Front and Rear Basket** locations as shown in FIG 23.

**NOTE** - The flat side of the **Clip Nut** should be facing upwards (FIG 24)

TOOLS REQUIRED FOR THIS STEP:

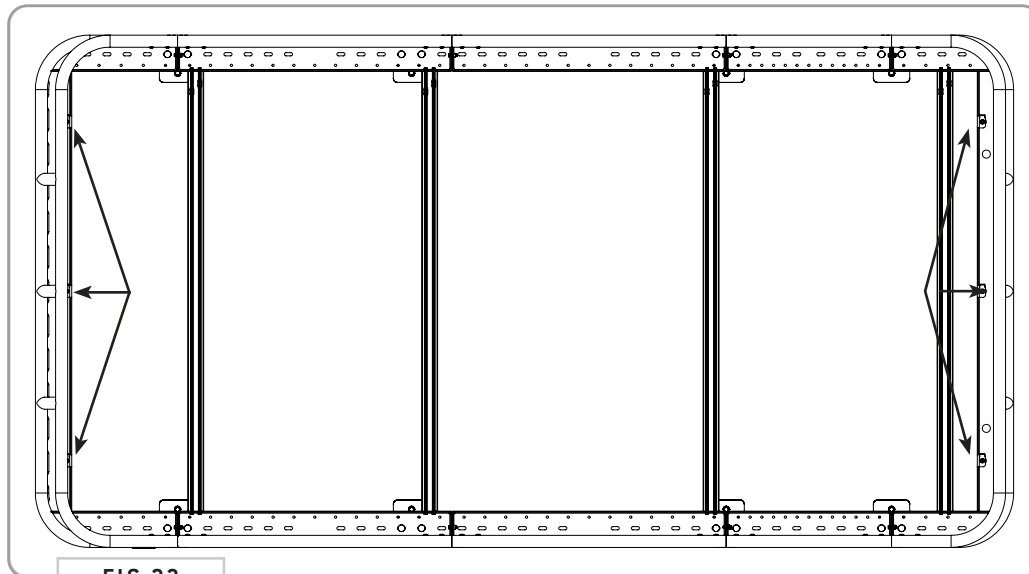


FIG 23

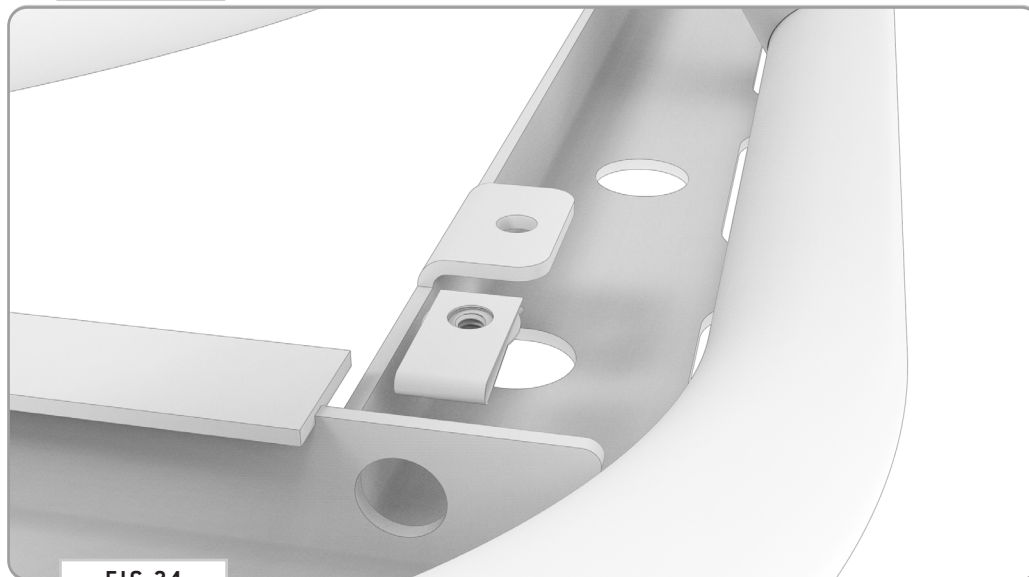


FIG 24

## STEP | 10 PREP FOR PANELS

**10.2 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 25**. See **FIG 26** 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**.

### TOOLS REQUIRED FOR THIS STEP:



FIG 25

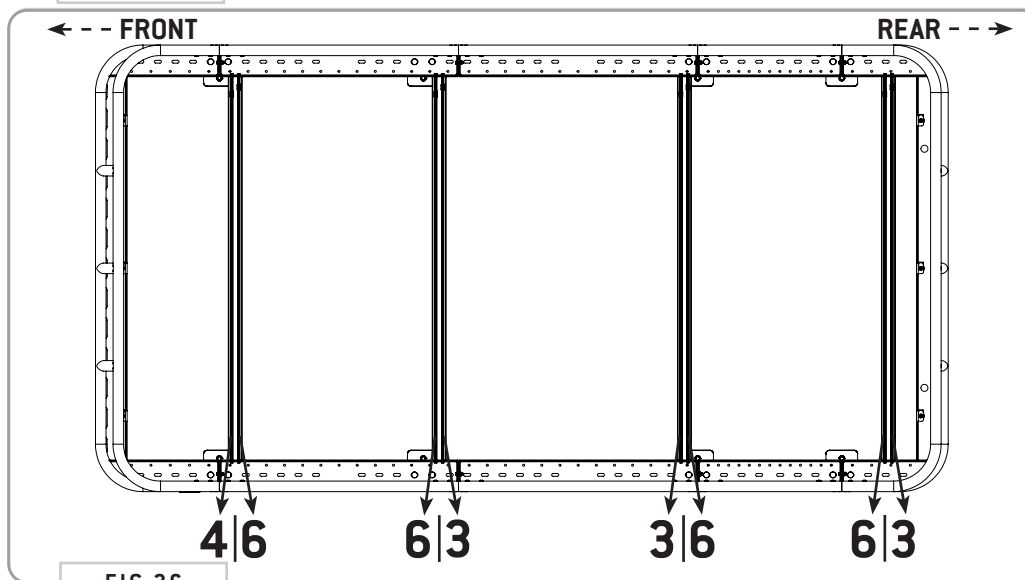
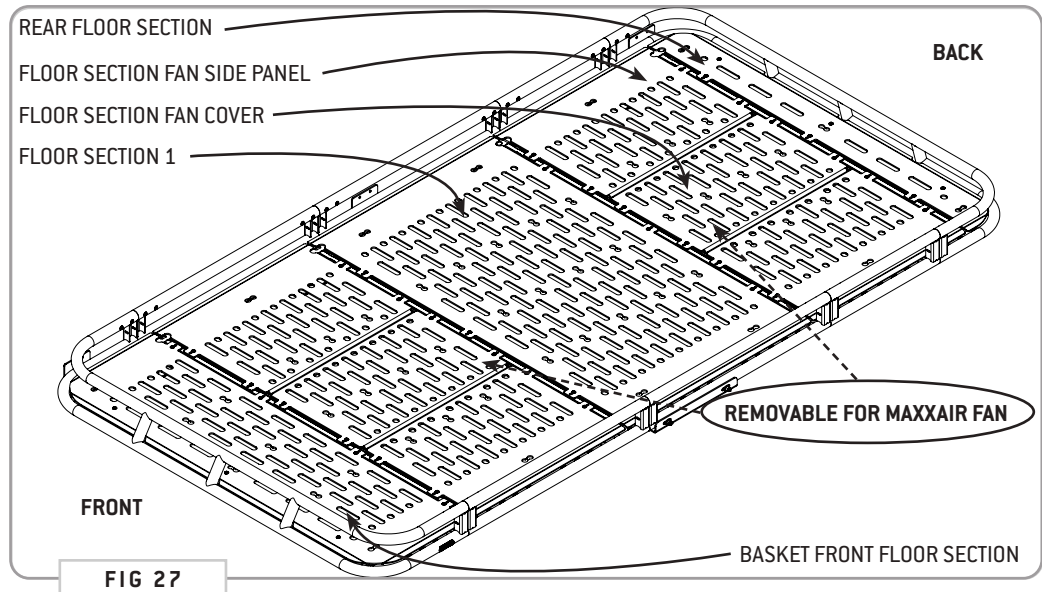


FIG 26

## STEP | 11 INSTALL FLOOR PANELS

**11.1 Install Floor Panels:** Begin to layout your **Decking Panels** along the locations shown in **FIG 27**. Adjust the **T-Nuts** as necessary to line up with the available pill slots of the **Decking Panels** (**FIG 28**).

### TOOLS REQUIRED FOR THIS STEP:



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

## STEP | 11 INSTALL FLOOR PANELS

**11.2 Install Floor Panels:** Note that the front and rear-most panels have pill slots for attaching to the **Clip Nuts** installed earlier (FIG 29). 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 30).



FIG 29

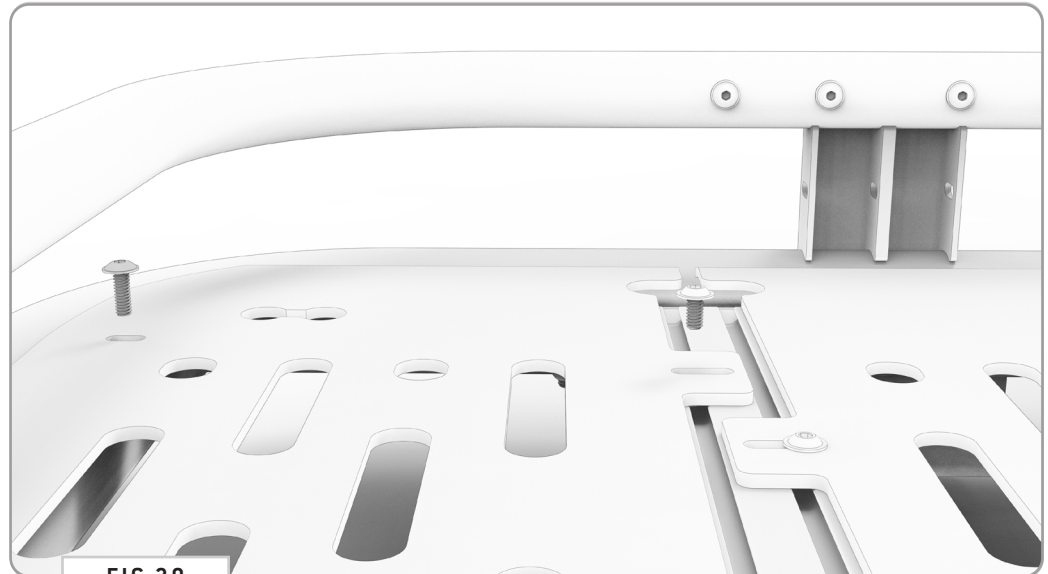


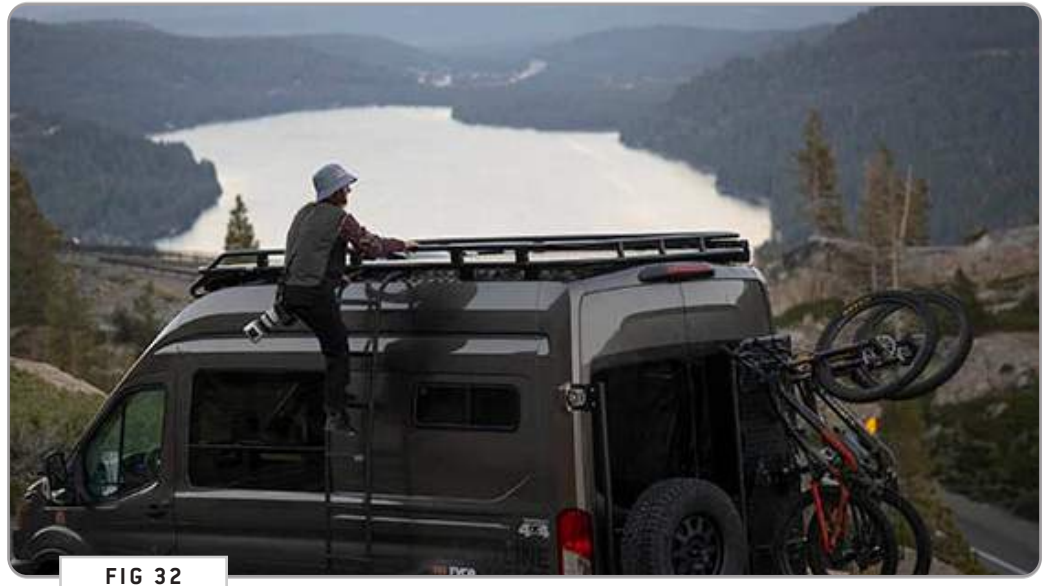
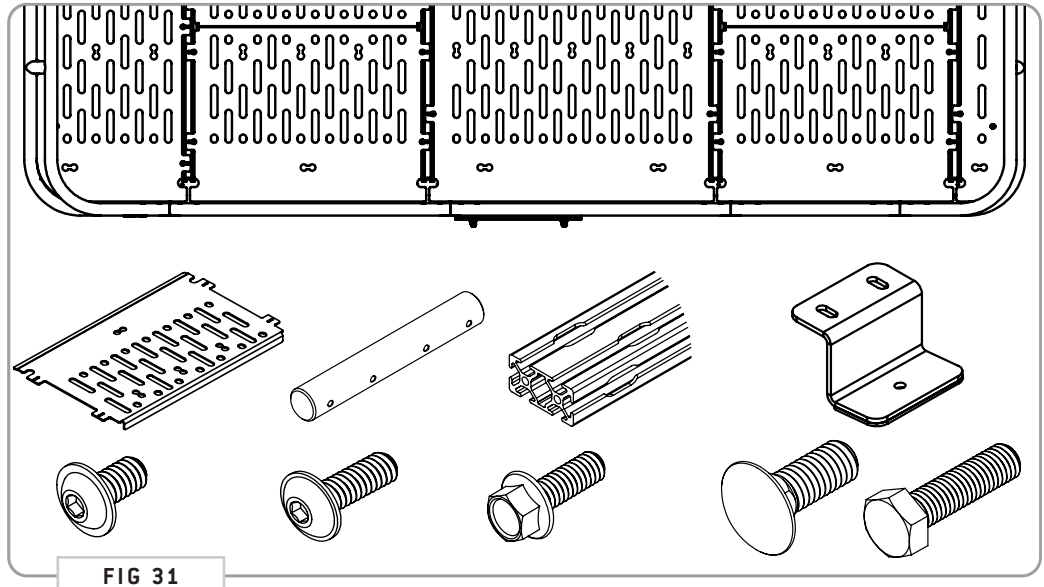
FIG 30

## STEP | 12 FINAL ADJUSTMENTS

**12.1 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



# GET OUT AND EXPLORE!

## + LEAVE US A REVIEW

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## + SHARE YOUR PICS

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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?

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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





# INSTALLATION GUIDE

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

TR0106B



### 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.

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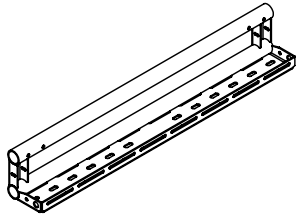


# BEFORE YOU START

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.

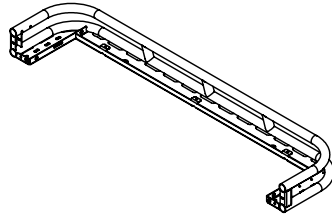


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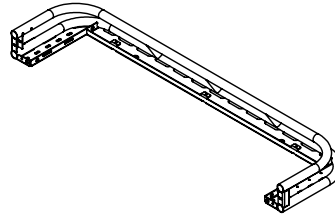
SIDE RAIL (34")

QTY: 6



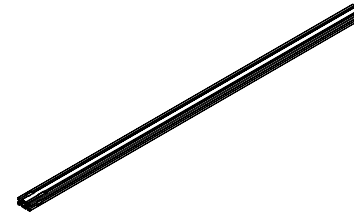
FRONT BASKET

QTY: 1



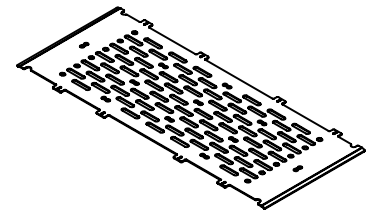
REAR BASKET

QTY: 1



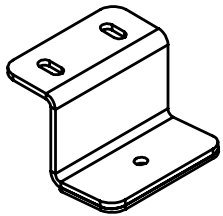
CROSSBAR

QTY: 5



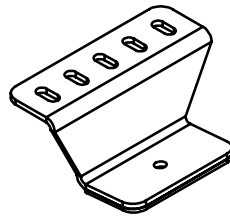
FLOOR SECTION 2

QTY: 1



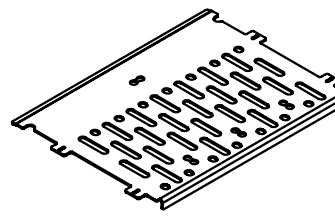
SAFARI FOOT BRACKET

QTY: 2



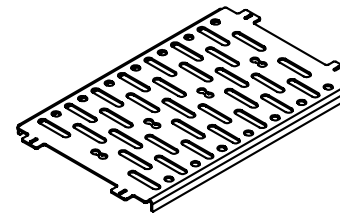
MID ROOF FOOT BRACKET

QTY: 6



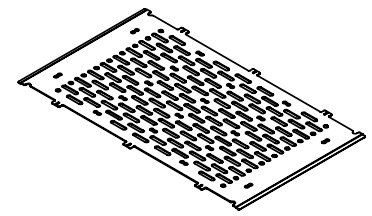
FLOOR SECTION FAN SIDE PANEL

QTY: 4



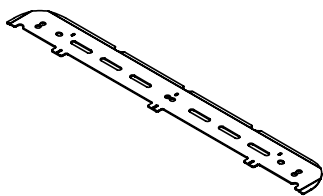
FLOOR SECTION FAN COVER

QTY: 2



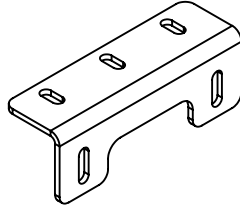
FLOOR SECTION 1

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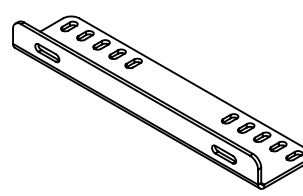
FRONT/REAR FLOOR  
SECTION

QTY: 2



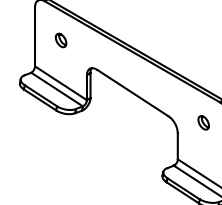
SUPPORT FOOT BRACKET

QTY: 2



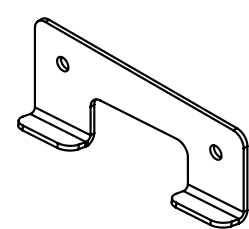
SIDE LADDER BRACKET

QTY: 1



DRIVER SIDE SUPPORT  
BRACKET

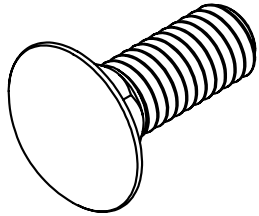
QTY: 1



PASS SIDE SUPPORT BRACKET

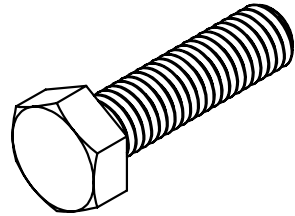
QTY: 1

# HARDWARE



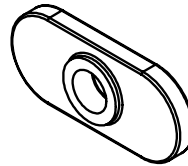
3/8-16 X 1 CARRIAGE BOLT

QTY: 30



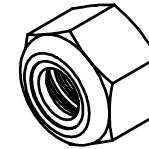
M8-1.25 HEX HEAD SCREW

QTY: 8



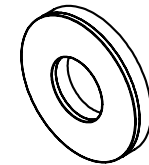
1/4-20 T-NUT

QTY: 44



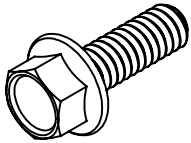
3/8-16 NYLON LOCKNUT

QTY: 34



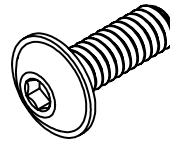
5/16" BONDING SEALING WASHERS

QTY: 8



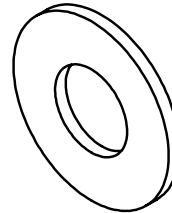
1/4-20 X 0.75 FLANGED HEX HEAD SCREW

QTY: 28



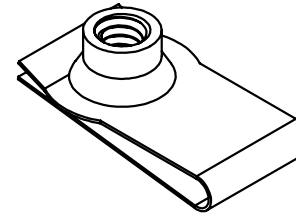
1/4-20 X 0.75 FLANGED BUTTON HEAD HEX DRIVE SCREW

QTY: 38



3/8 SCREW FLAT WASHER

QTY: 38



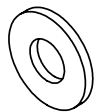
1/4-20 CLIP NUT

QTY: 6



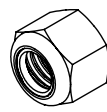
1/4-20 X 0.5 FLANGED BUTTON HEAD HEX DRIVE SCREW

QTY: 44



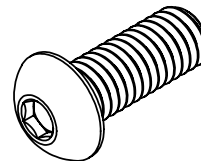
1/4 SCREW FLAT WASHER

QTY: 8



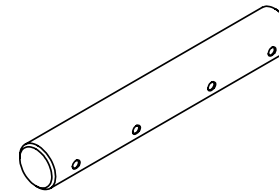
1/4-20 NYLON LOCKNUT

QTY: 8



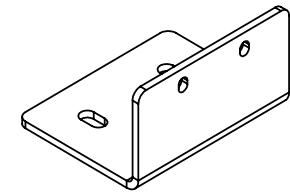
3/8-16 X 1 BUTTON HEAD HEX DRIVE SCREW

QTY: 4



BAYONET

QTY: 8



F45 AWNING BRACKETS

QTY: 3

# INSTALL

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

## 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).



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.



FIG 5



FIG 6

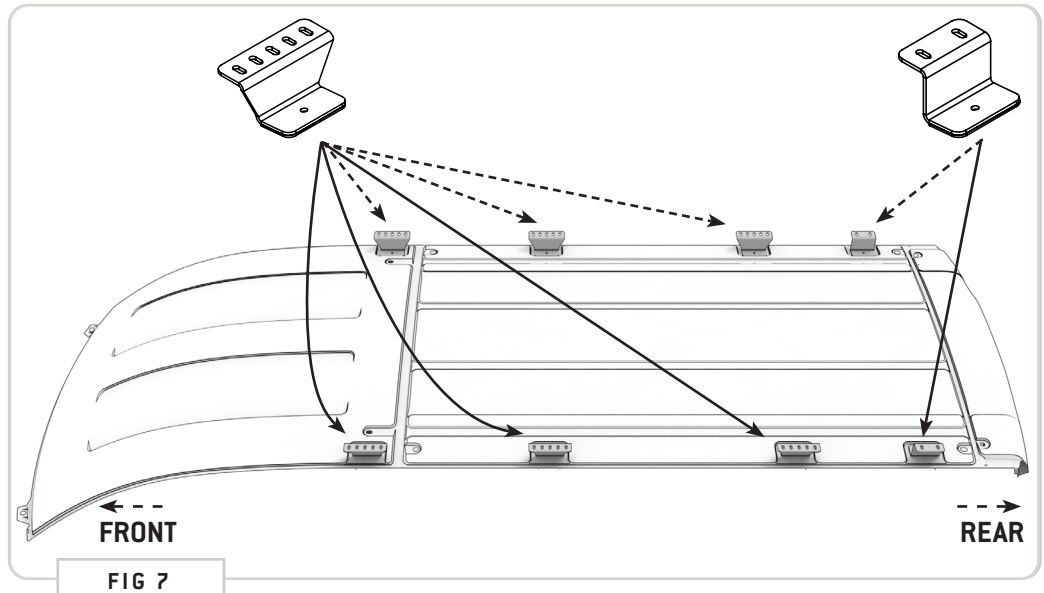


FIG 7

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**).

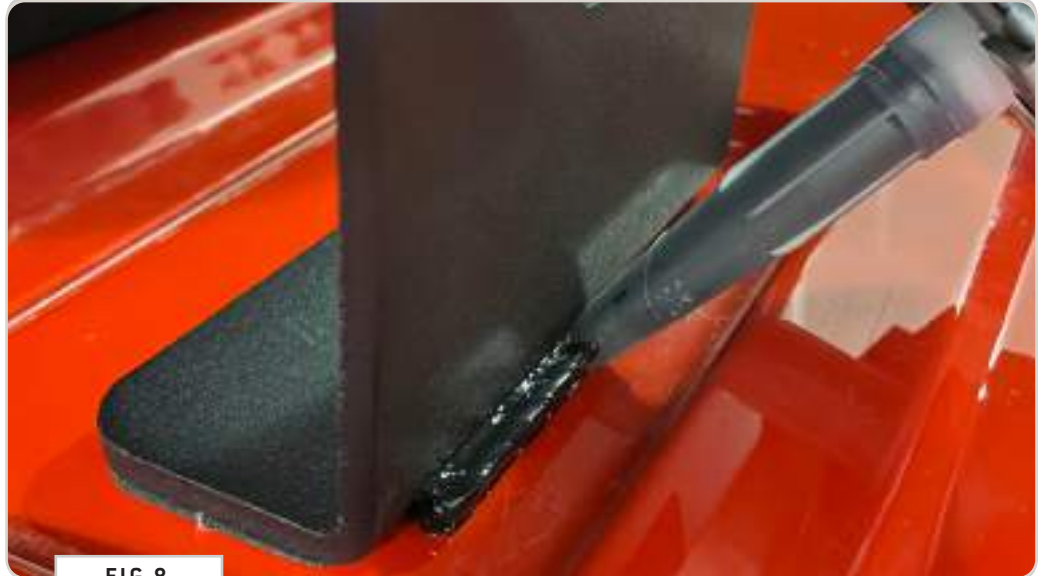


FIG 8

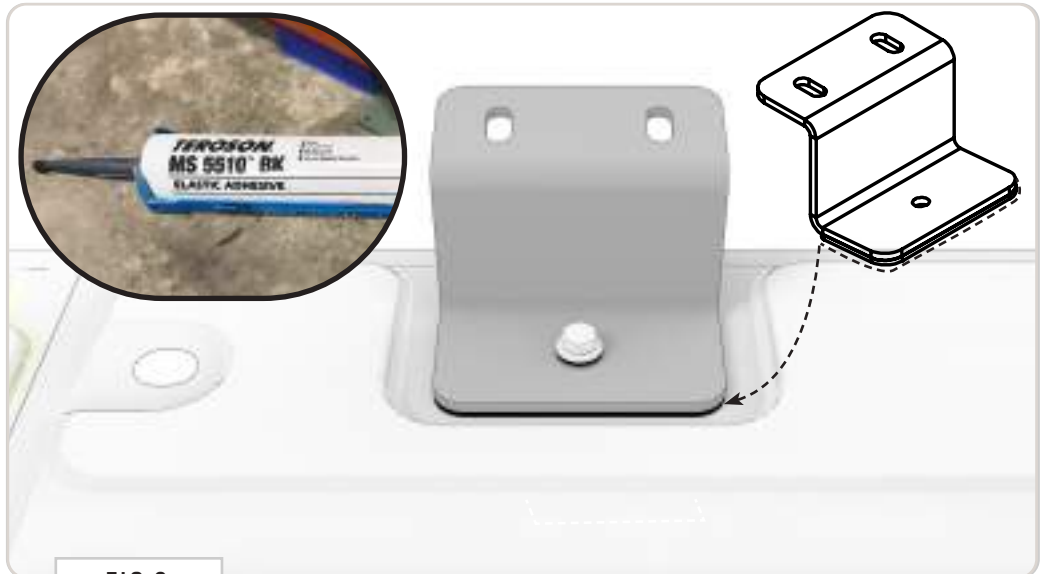


FIG 9

## 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.

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

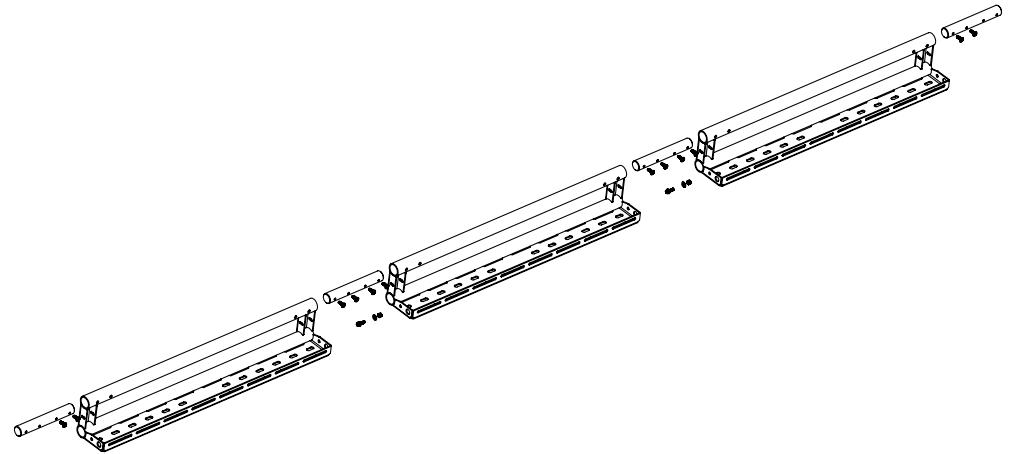


FIG 10



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:**

- + QWICK 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.

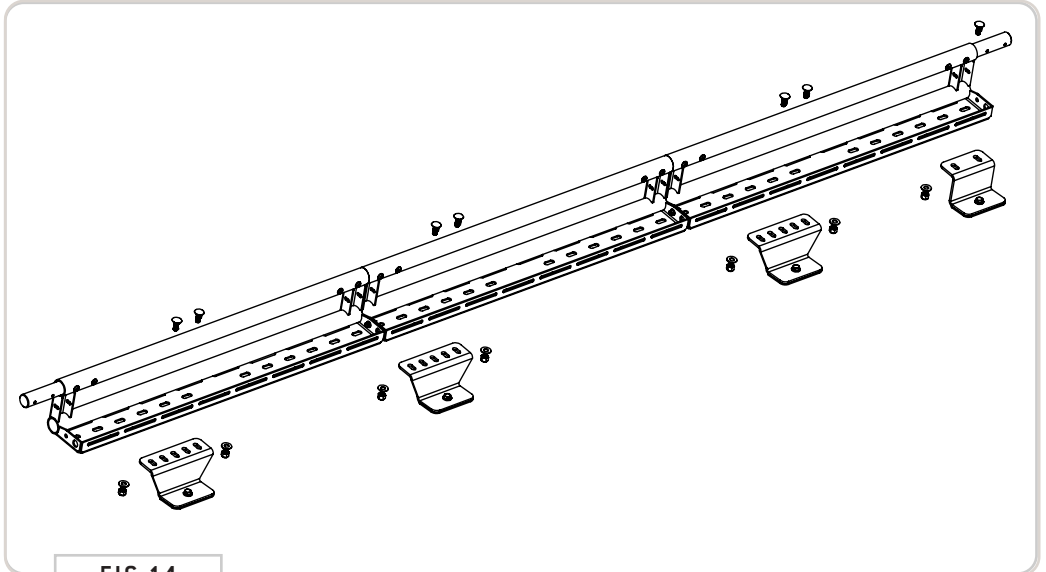


FIG 14

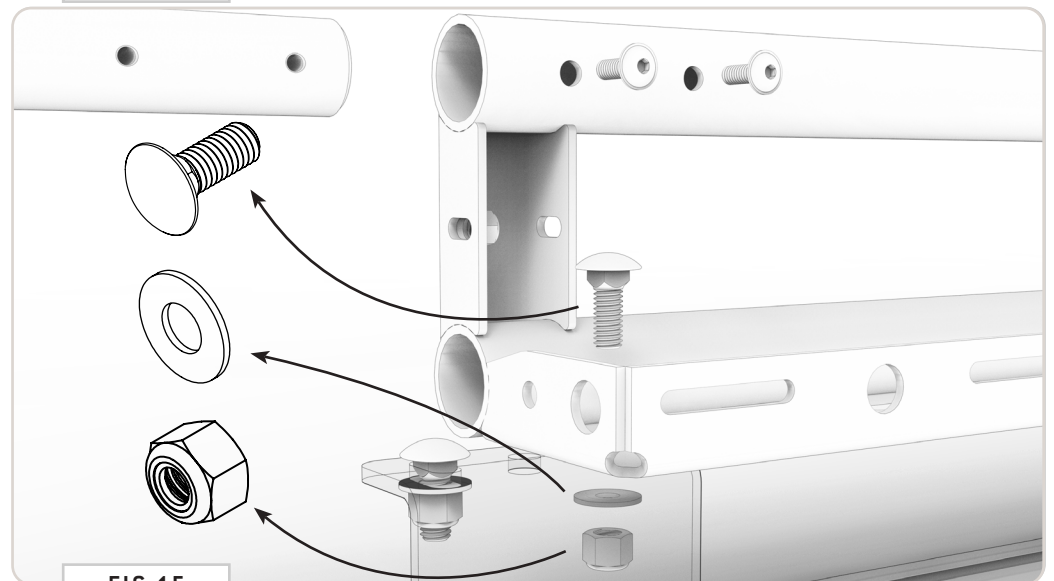


FIG 15

## 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 INSTALL AWNING BRACKETS

**7.1 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 19 for locations.

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



FIG 18

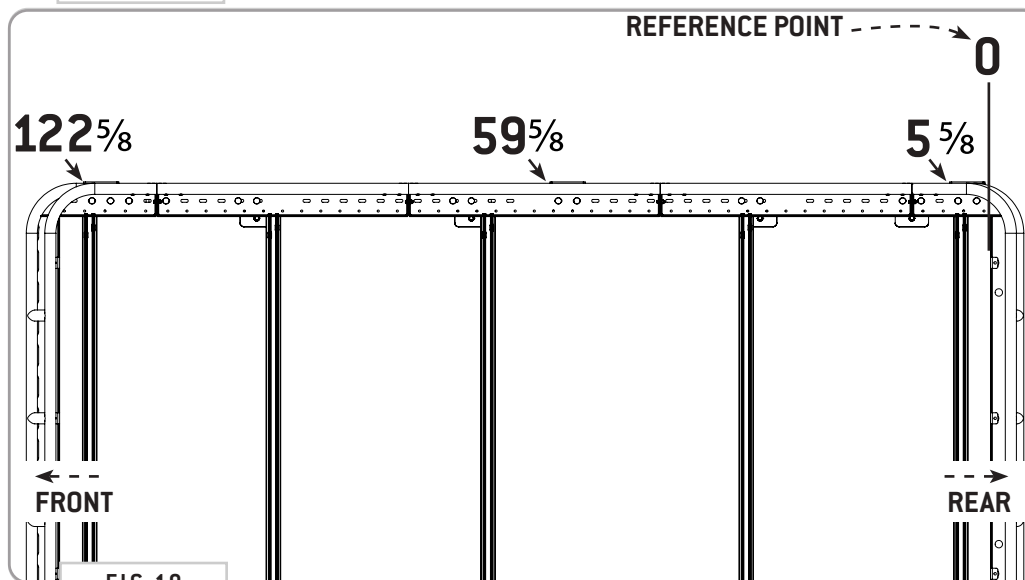


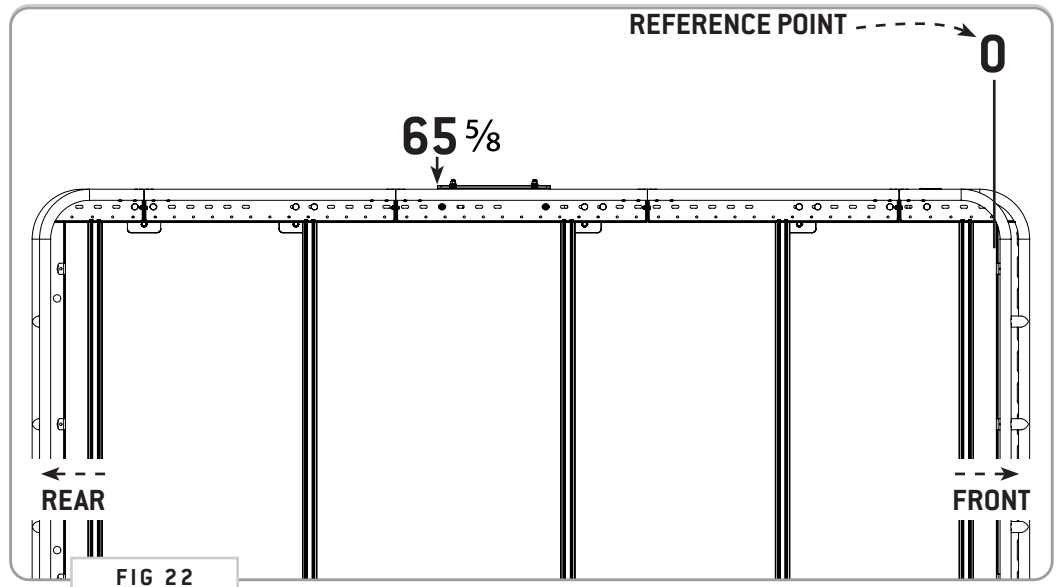
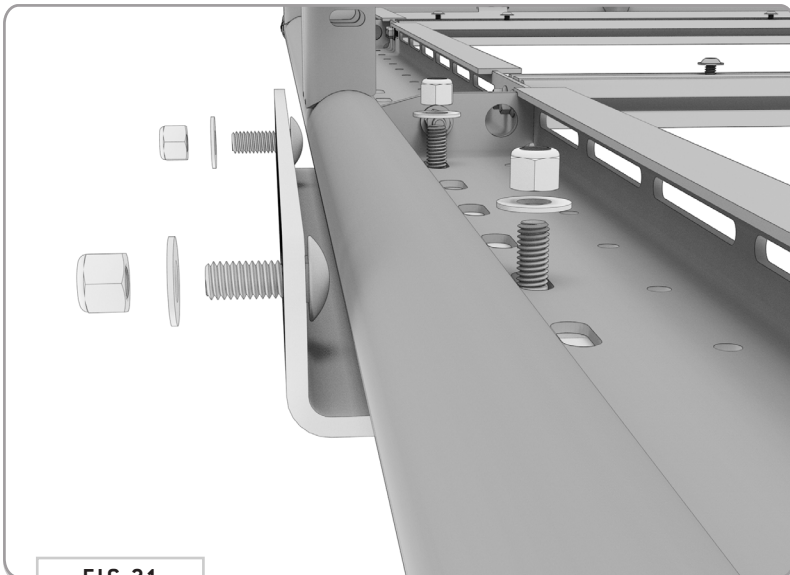
FIG 19

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

## STEP | 08 INSTALL LADDER BRACKET

**8.1 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 20+21** 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.



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

## STEP | 09 INSTALL CROSSBARS

**9.1 Attach Crossbars:** Using (4ea) 1/4-20 Flanged Hex Bolts with Loctite (FIG 23), attach Crossbars to the rack in the locations shown in FIG 24. Be sure to measure both sides to ensure that the crossbars are square.

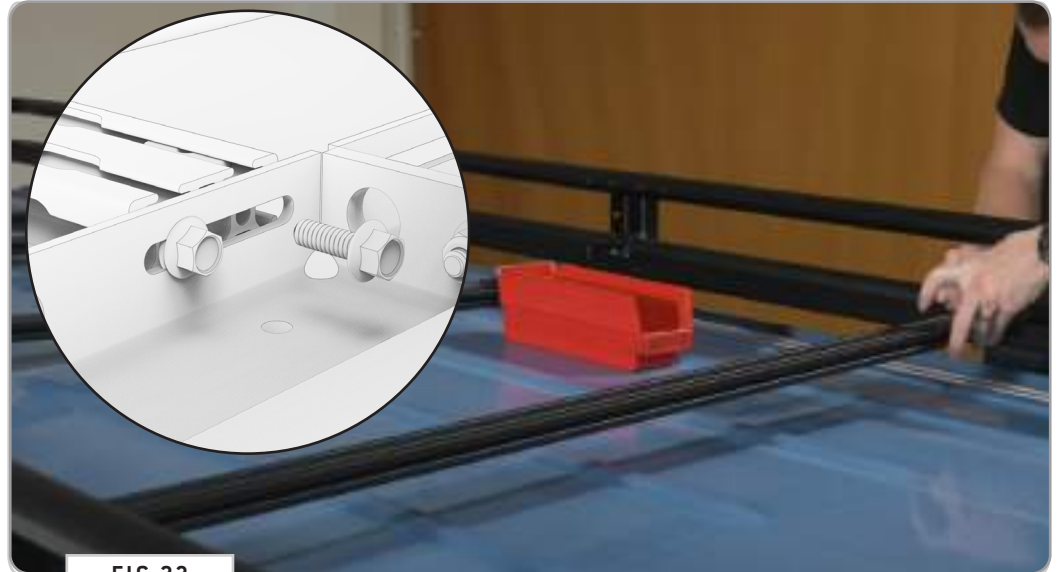
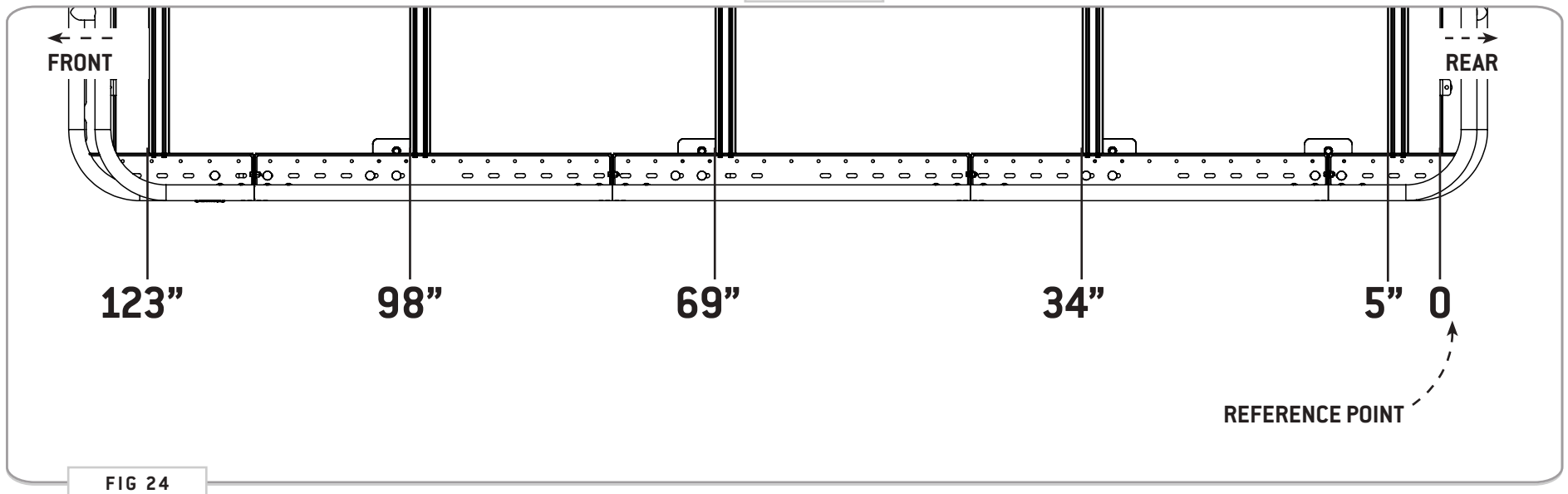


FIG 23



## STEP | 10 PREP FOR PANELS

**10.1 Attach Clip Nuts to Baskets:** Install the **Clip Nuts** to the **Front and Rear Basket** locations as shown in FIG 25.

**NOTE** - The flat side of the **Clip Nut** should be facing upwards (FIG 26)

TOOLS REQUIRED FOR THIS STEP:

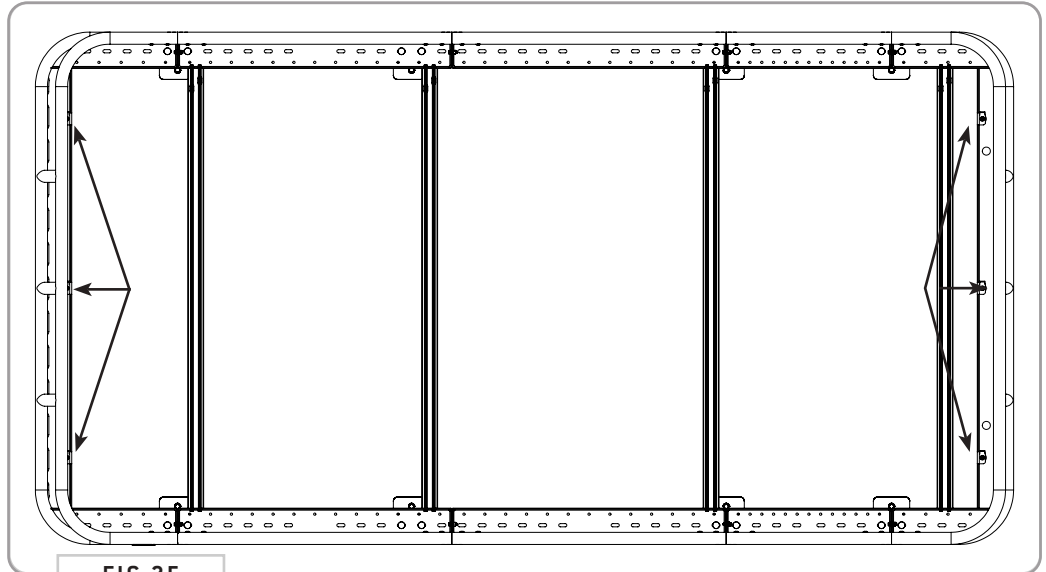


FIG 25

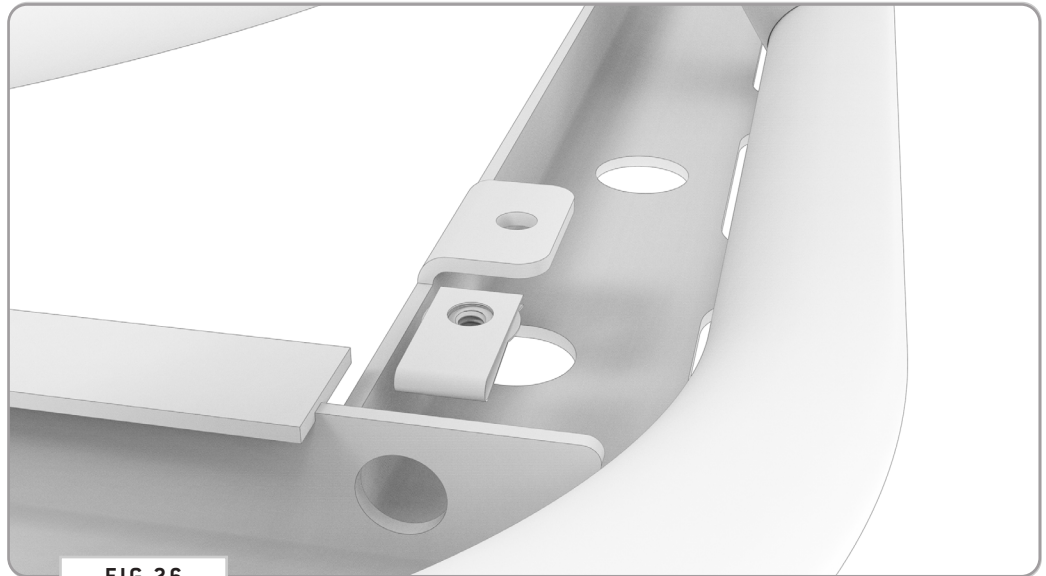


FIG 26

## STEP | 10 PREP FOR PANELS

**10.2 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 27**. See **FIG 28** 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**.

### TOOLS REQUIRED FOR THIS STEP:



FIG 27

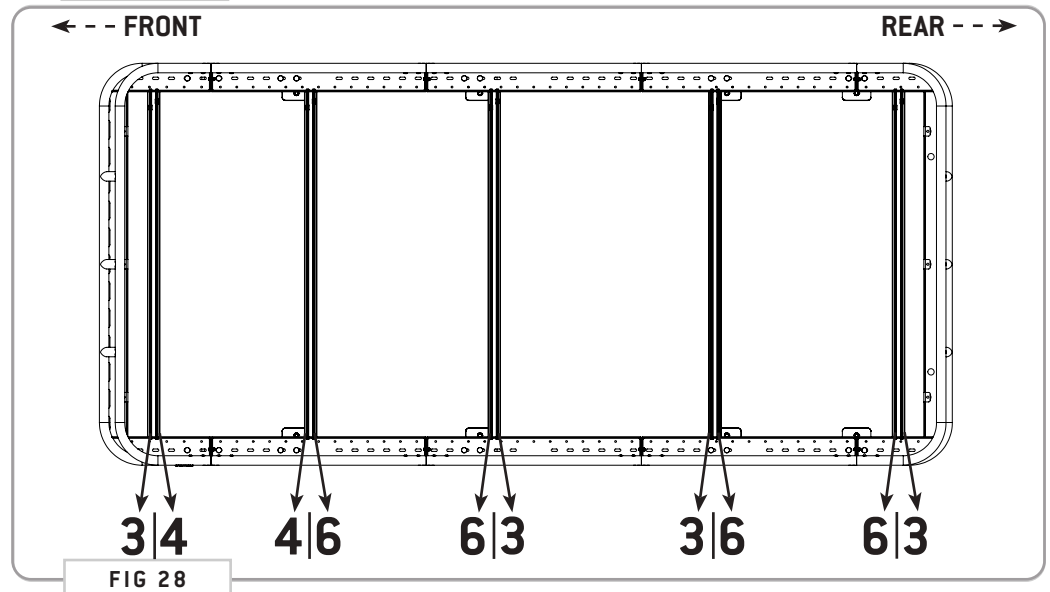


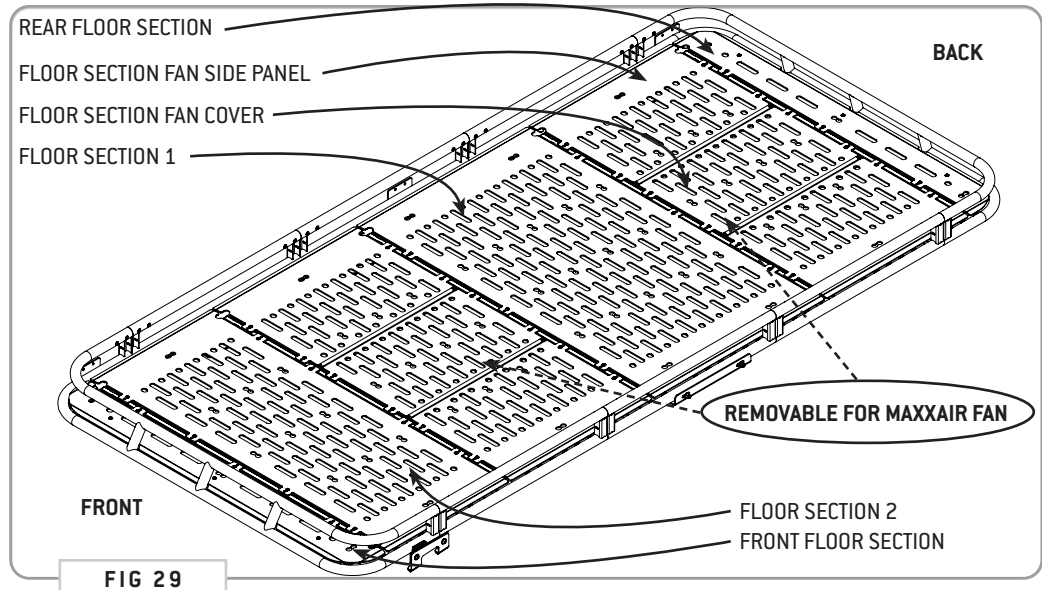
FIG 28



## STEP | 11 INSTALL FLOOR PANELS

**11.1 Install Floor Panels:** Begin to layout your **Decking Panels** along the locations shown in **FIG 29**. Adjust the **T-Nuts** as necessary to line up with the available pill slots of the **Decking Panels** (**FIG 30**).

### TOOLS REQUIRED FOR THIS STEP:





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

## STEP | 11 INSTALL FLOOR PANELS

**11.2 Install Floor Panels:** Note that the front and rear-most panels have pill slots for attaching to the **Clip Nuts** installed earlier (**FIG 31**). 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 32**).



FIG 31

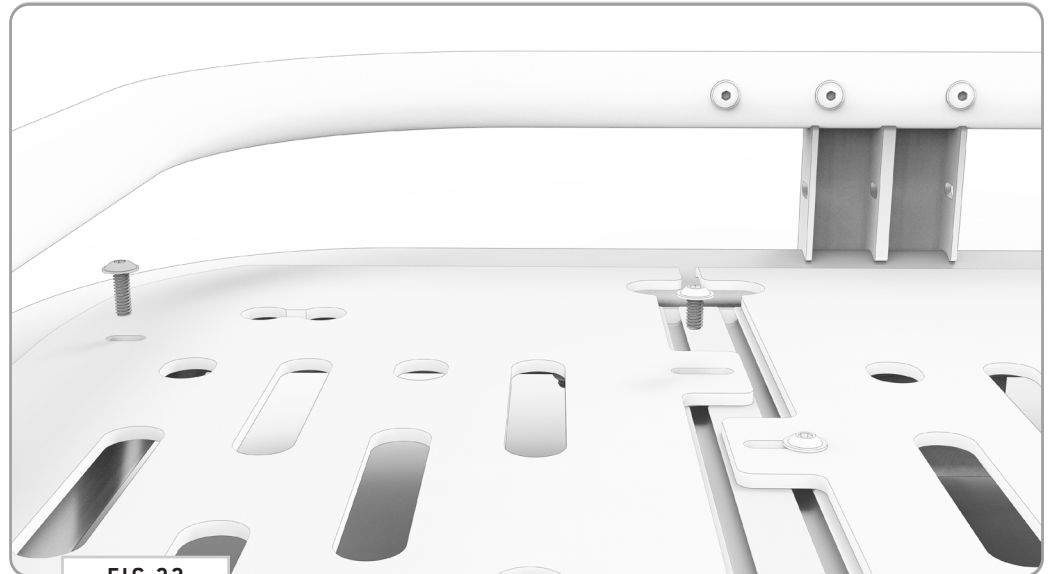


FIG 32

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

## STEP | 12 INSTALL SUPPORT BRACKETS

**12.1 Assemble Support Brackets:** Attach the **Passenger** and **Driver Side Support Brackets** to the **Support Foot Brackets** (FIG 33) 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.

**12.2 Attach Support Bracket Assemblies to Rack:** Mount the **Support Bracket Assemblies** to the **Safari Rack** in the location shown in FIG 34 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.

**12.2 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 35).

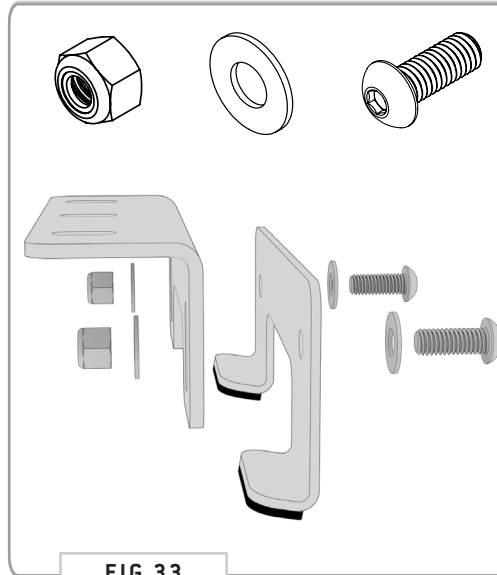


FIG 33

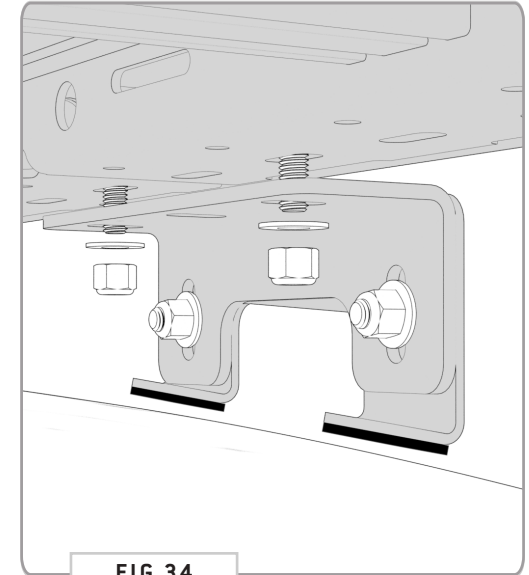


FIG 34

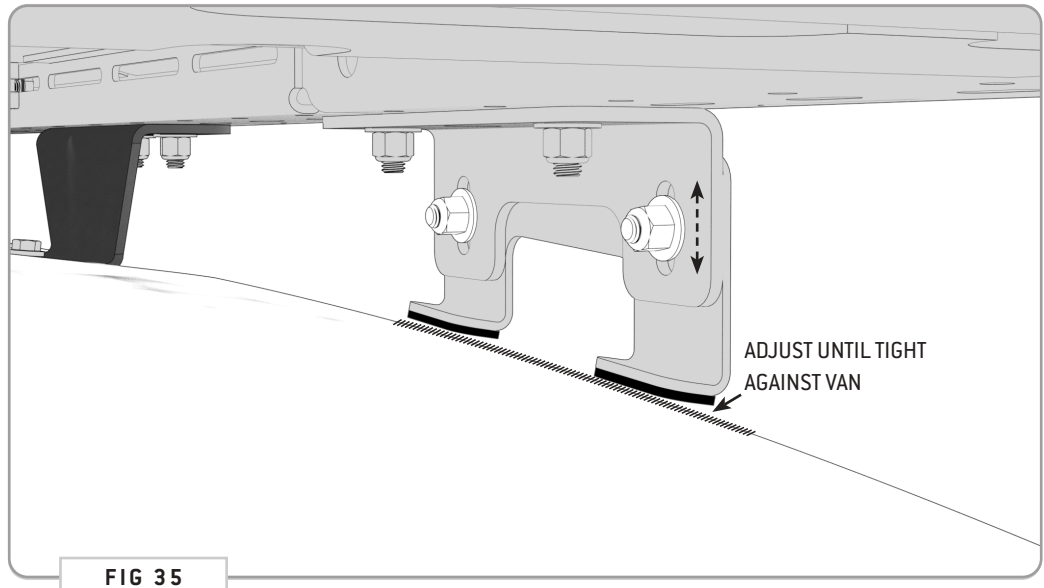


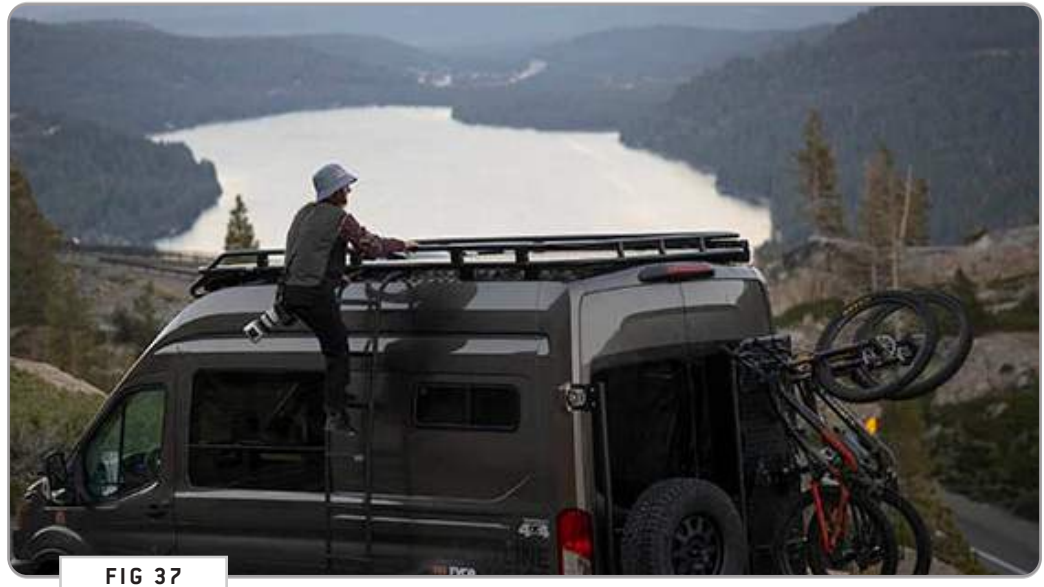
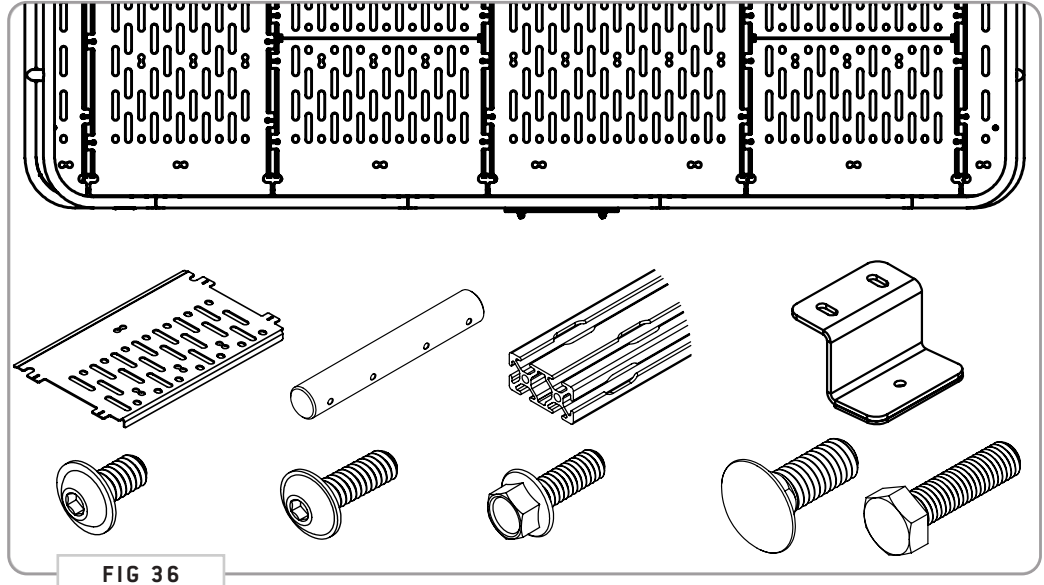
FIG 35

## STEP | 13 FINAL ADJUSTMENTS

**13.1 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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# INSTALLATION GUIDE

## TRANSIT VAN SAFARI RACK - 148" HIGH ROOF EXT (BASKET FRONT)

TR0107B



### TOOLS REQUIRED (NOT INCLUDED)

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

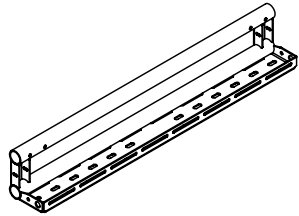
Contact us ASAP if anything is missing at:  
[support@flatlinevanco.com](mailto:support@flatlinevanco.com)

# 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.

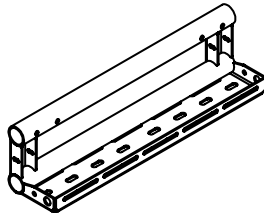


# PACKAGE CONTENTS



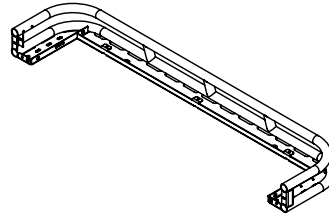
SIDE RAIL (34")

QTY: 4



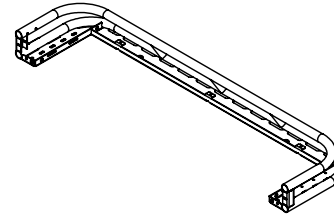
SIDE RAIL (20.5")

QTY: 4



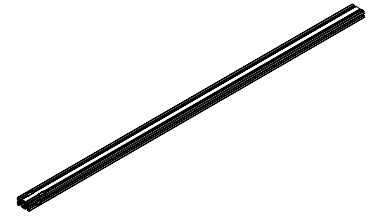
FRONT BASKET

QTY: 1



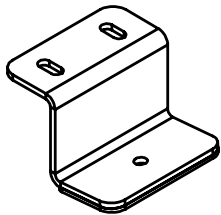
REAR BASKET

QTY: 1



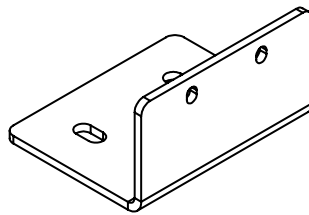
CROSSBAR

QTY: 5



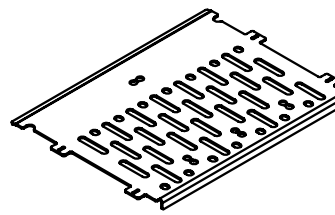
SAFARI FOOT BRACKET

QTY: 10



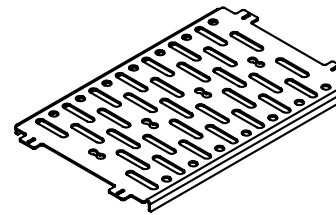
F45 AWNING BRACKET

QTY: 3



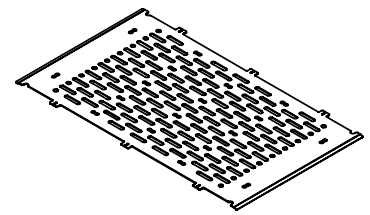
FLOOR SECTION FAN SIDE PANEL

QTY: 4



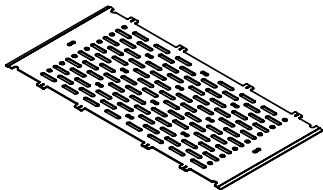
FLOOR SECTION FAN COVER

QTY: 2



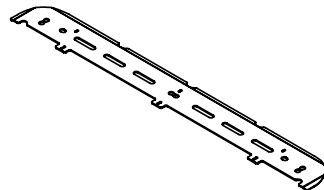
FLOOR SECTION 1

QTY: 1



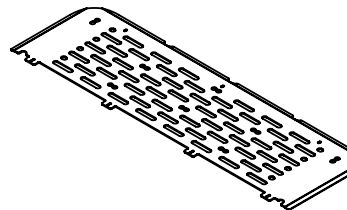
FLOOR SECTION 5

QTY: 1



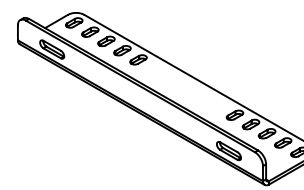
REAR FLOOR SECTION

QTY: 1



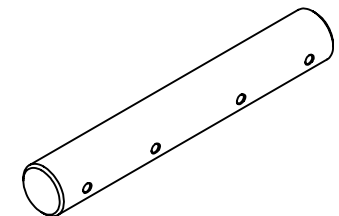
BASKET FRONT FLOOR SECTION

QTY: 1



SIDE LADDER BRACKET

QTY: 1

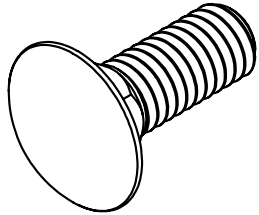


BAYONET

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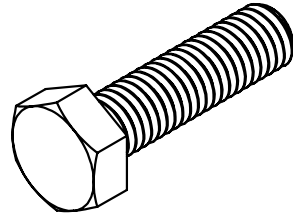


# HARDWARE



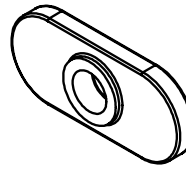
3/8-16 X 1 CARRIAGE BOLT

QTY: 30



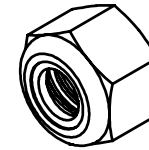
M8-1.25 HEX HEAD SCREW

QTY: 10



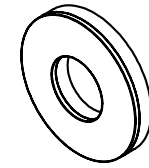
1/4-20 T-NUT

QTY: 45



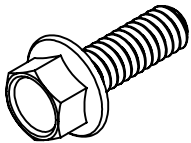
3/8-16 NYLON LOCKNUT

QTY: 30



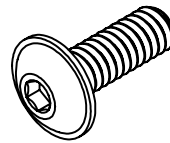
5/16" BONDED SEALING  
WASHERS

QTY: 10



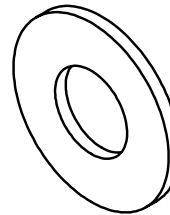
1/4-20 X 0.75 FLANGED HEX  
HEAD SCREW

QTY: 32



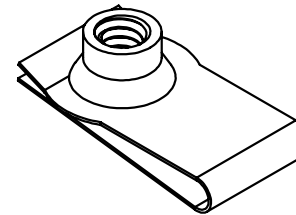
1/4-20 X 0.75 FLANGED BUTTON  
HEAD HEX DRIVE SCREW

QTY: 46



3/8 SCREW FLAT WASHER

QTY: 30



1/4-20 CLIP NUT

QTY: 6



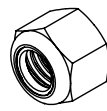
1/4-20 X 0.5 FLANGED BUTTON  
HEAD HEX DRIVE SCREW

QTY: 45



1/4 SCREW FLAT WASHER

QTY: 12



1/4-20 NYLON LOCKNUT

QTY: 12

# INSTALL

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

## 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).

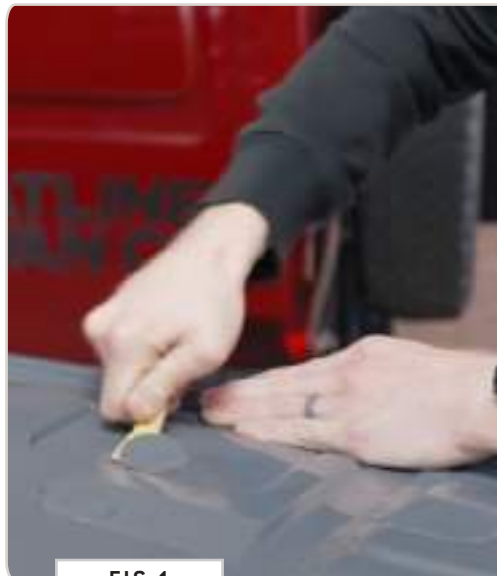


FIG 1



FIG 2



FIG 3

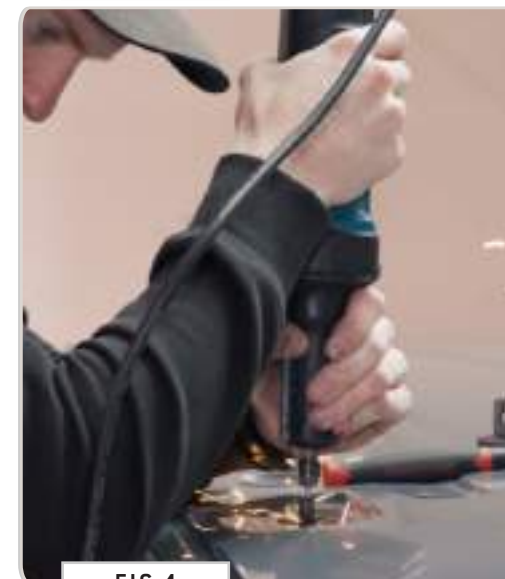


FIG 4

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

## 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)**.

**2.2 Apply Sealant:** Apply a small bead of exterior waterproof sealant around the outside of each landing pad (**FIG 7**).



FIG 5



FIG 6

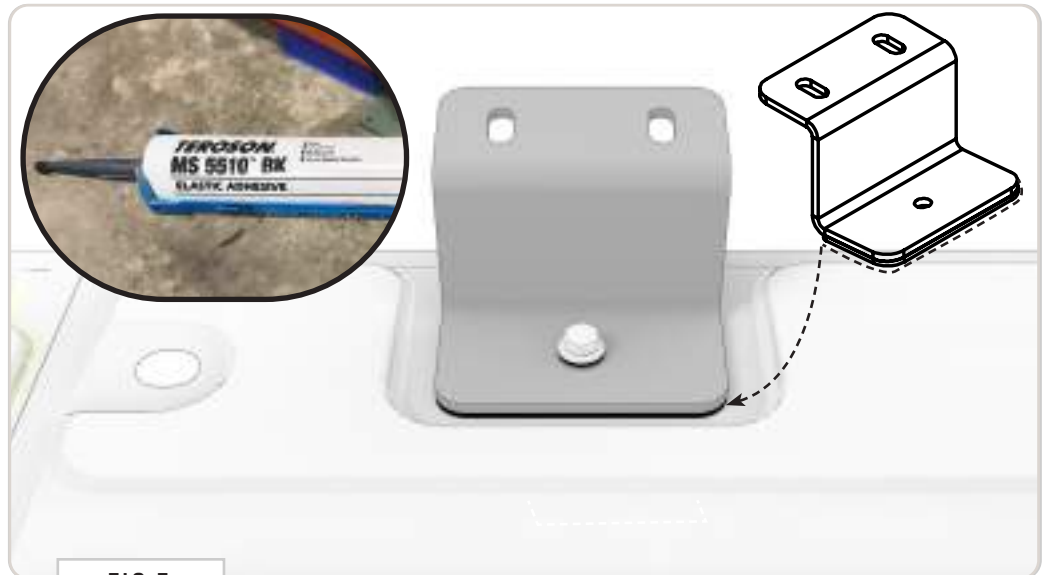


FIG 7

## STEP | 03 SIDE RAIL ASSEMBLY

**3.1 Assemble Side Rails:** Insert a **Bayonet** into the end of a **34" Side Rail (FIG 8+9)** 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 **34" Side Rail** piece to the protruding end of the **Bayonet** and repeat the process on the other side with two **20.5" Side Rails**. See **FIG 8** for layout of components.

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

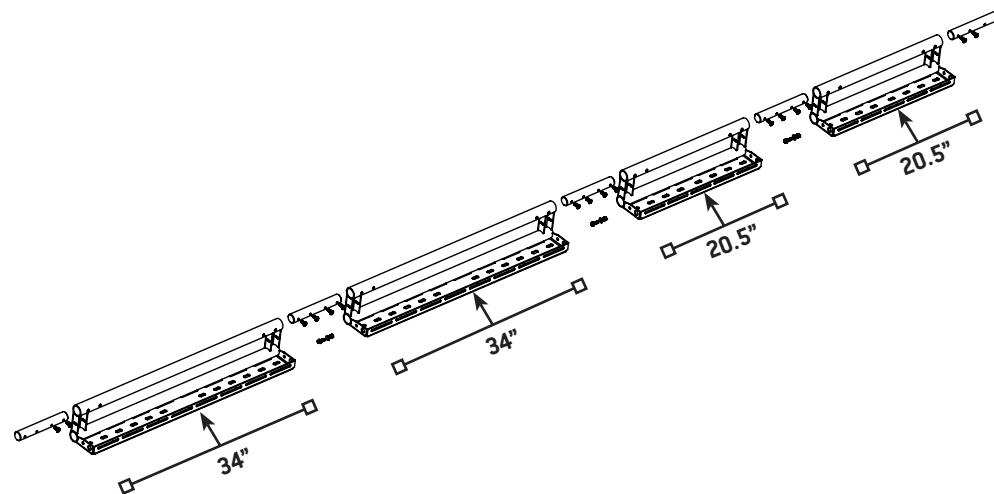


FIG 8



FIG 9

## 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 10**).

**NOTE** - Use clamps to ensure the seams are tight while you tighten the bolts (**FIG 11**).

**TOOLS REQUIRED FOR THIS STEP:**

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



FIG 10



FIG 11

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 12+13.

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

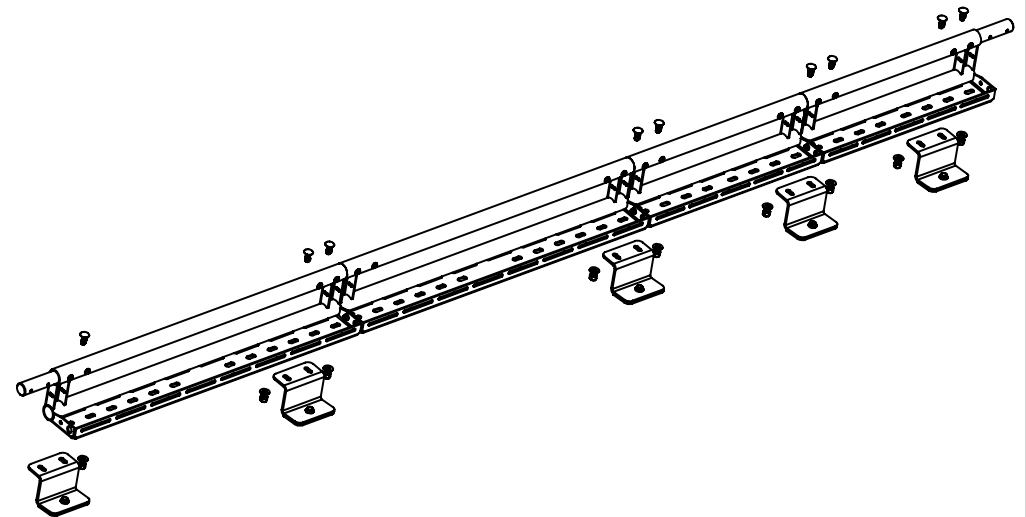


FIG 12

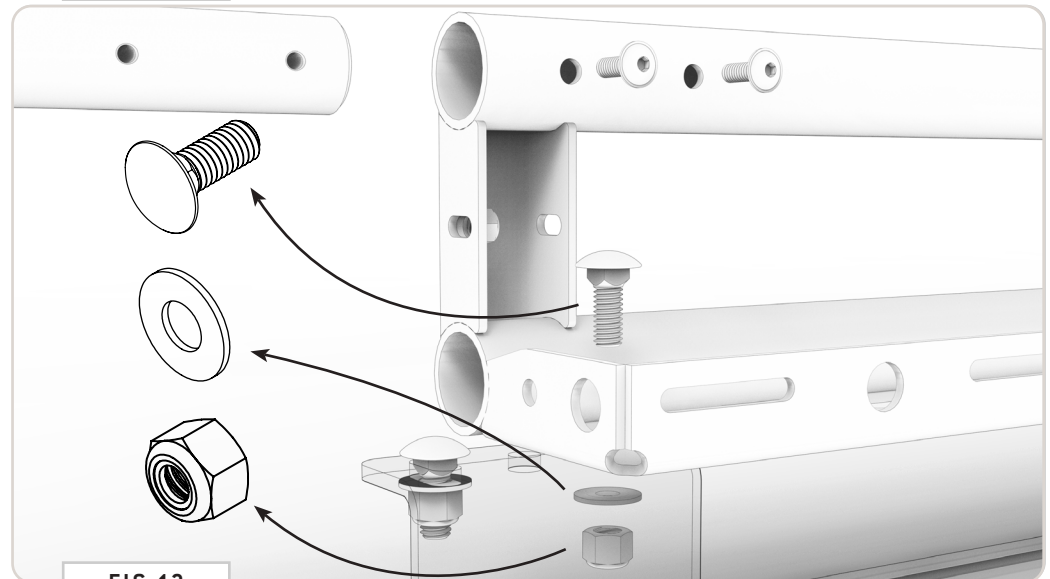


FIG 13

## 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 15**).

### TOOLS REQUIRED FOR THIS STEP:

- + 5/32" ALLEN WRENCH
- + QWICK CLAMPS
- + 3/8" WRENCH OR SOCKET
- + 7/16" WRENCH OR SOCKET



FIG 14



FIG 15



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

## STEP | 07 INSTALL AWNING BRACKETS

**7.1 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 17 for locations.



FIG 16

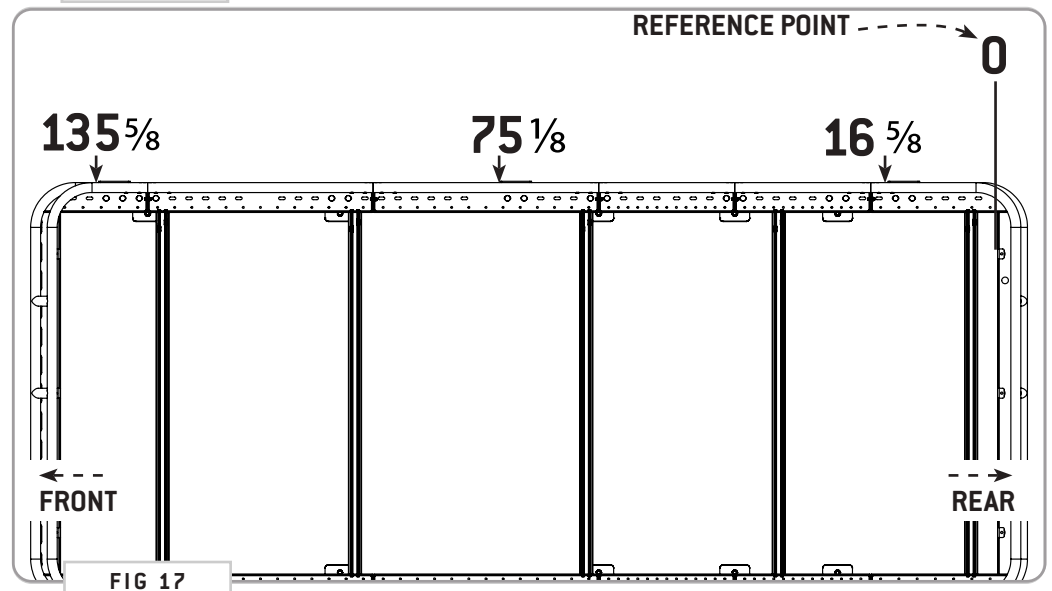


FIG 17

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

## STEP | 08 INSTALL LADDER BRACKET

**8.1 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 18+19** 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 18

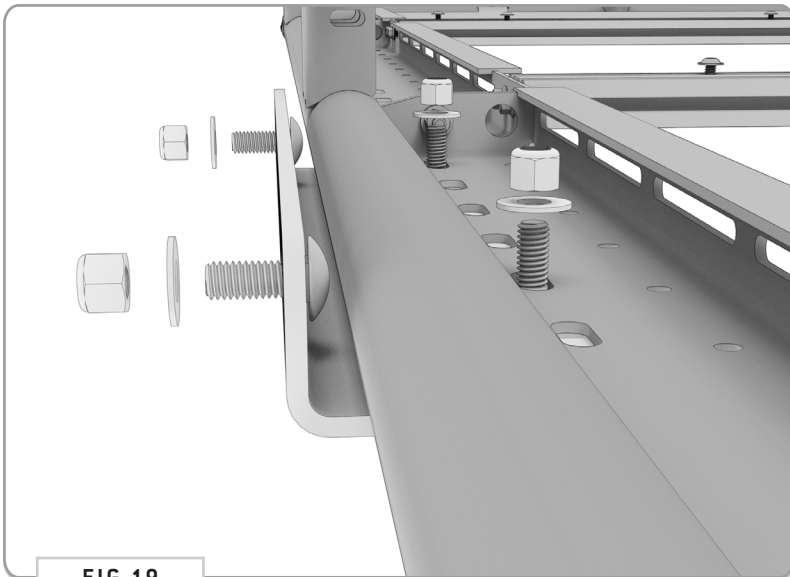


FIG 19

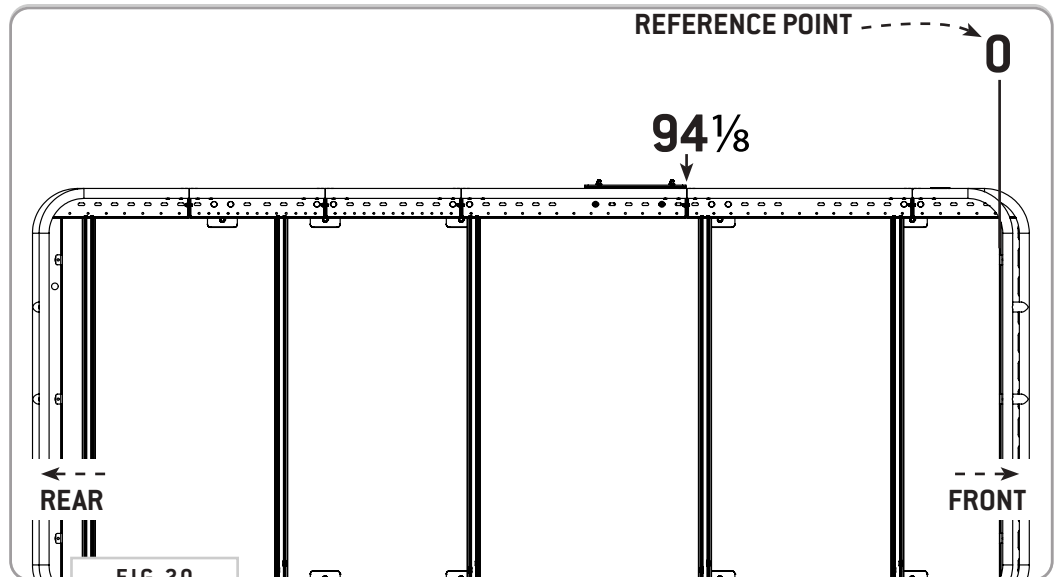


FIG 20

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

## STEP | 09 INSTALL CROSSBARS

**9.1 Attach Crossbars:** Using (4ea) 1/4-20 Flanged Hex Bolts with Loctite (FIG 21), attach Crossbars to the rack in the locations shown in FIG 22. Be sure to measure both sides to ensure that the crossbars are square.

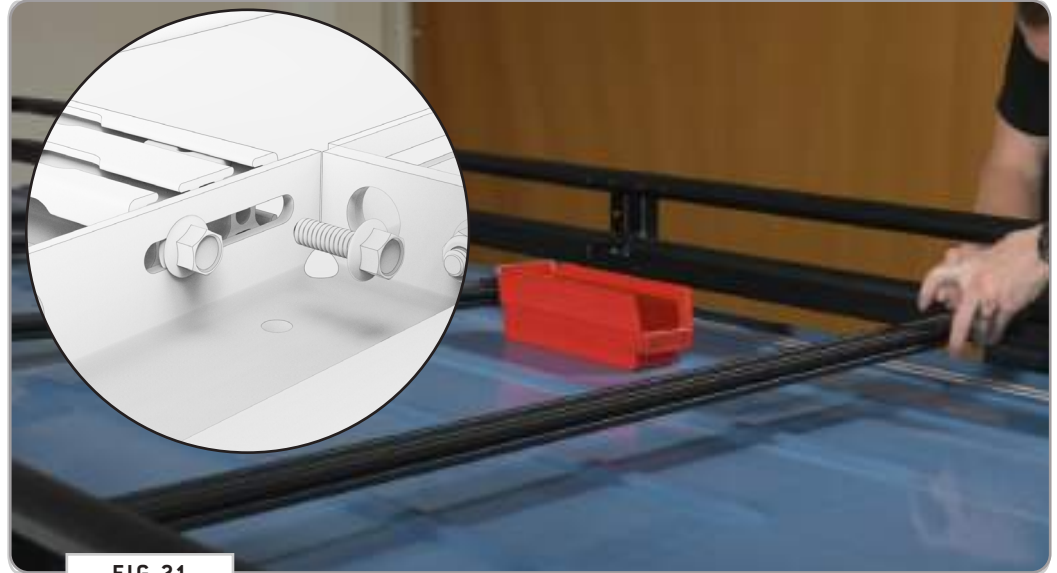


FIG 21

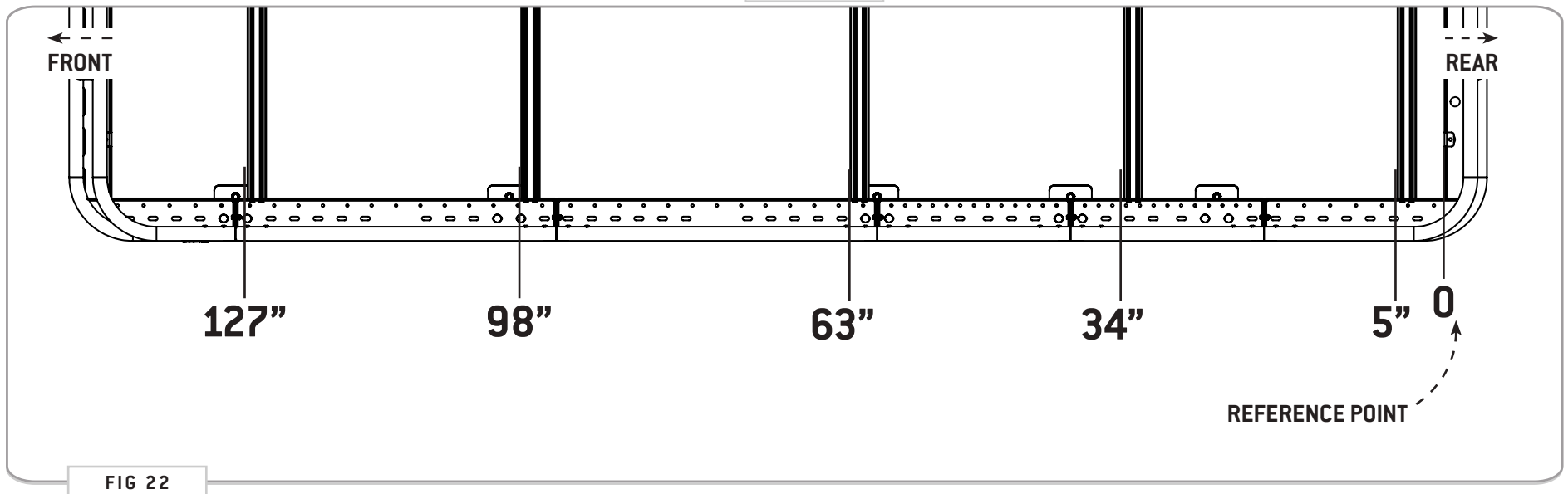


FIG 22

## STEP | 10 PREP FOR PANELS

**10.1 Attach Clip Nuts to Baskets:** Install the **Clip Nuts** to the **Front and Rear Basket** locations as shown in FIG 23.

**NOTE** - The flat side of the **Clip Nut** should be facing upwards (FIG 24)

TOOLS REQUIRED FOR THIS STEP:

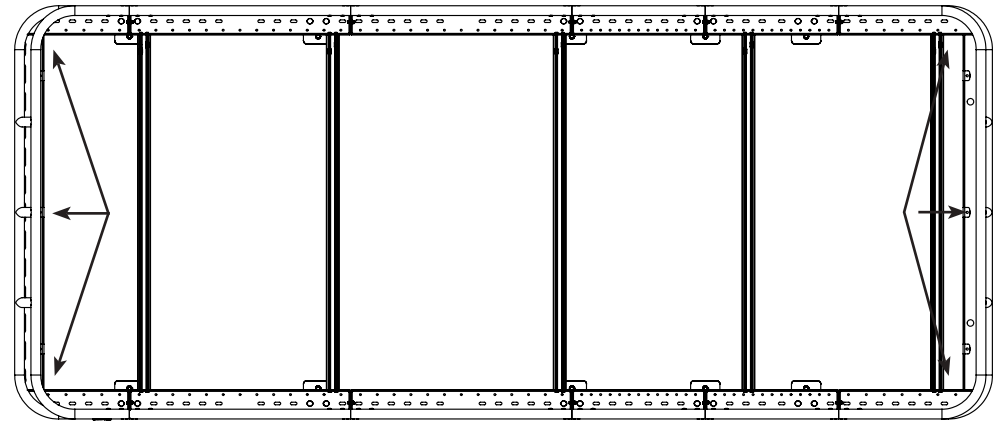


FIG 23

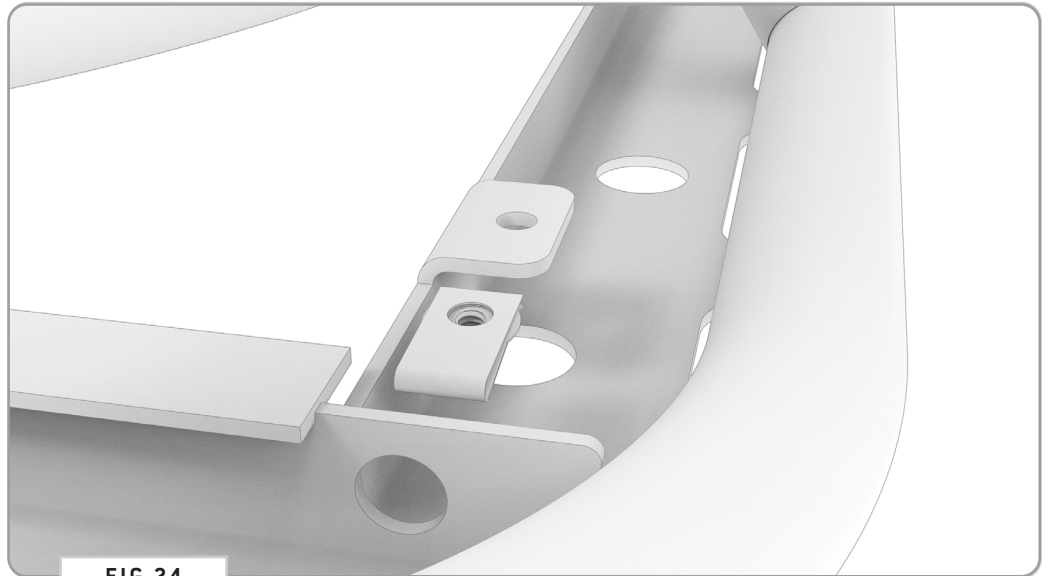


FIG 24

## STEP | 10 PREP FOR PANELS

**10.2 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 25**. See **FIG 26** 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**.

### TOOLS REQUIRED FOR THIS STEP:



FIG 25

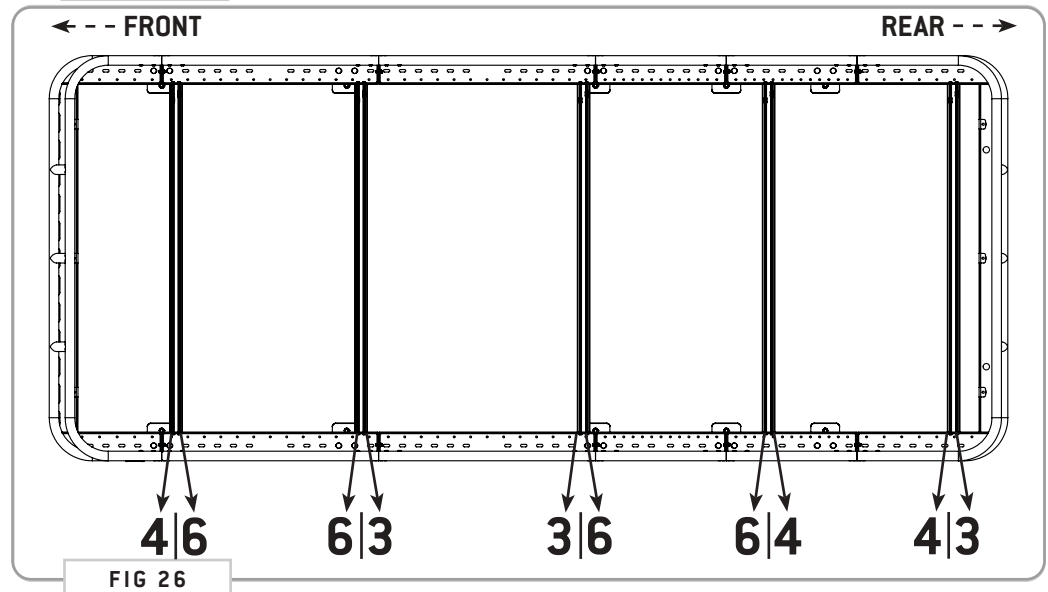


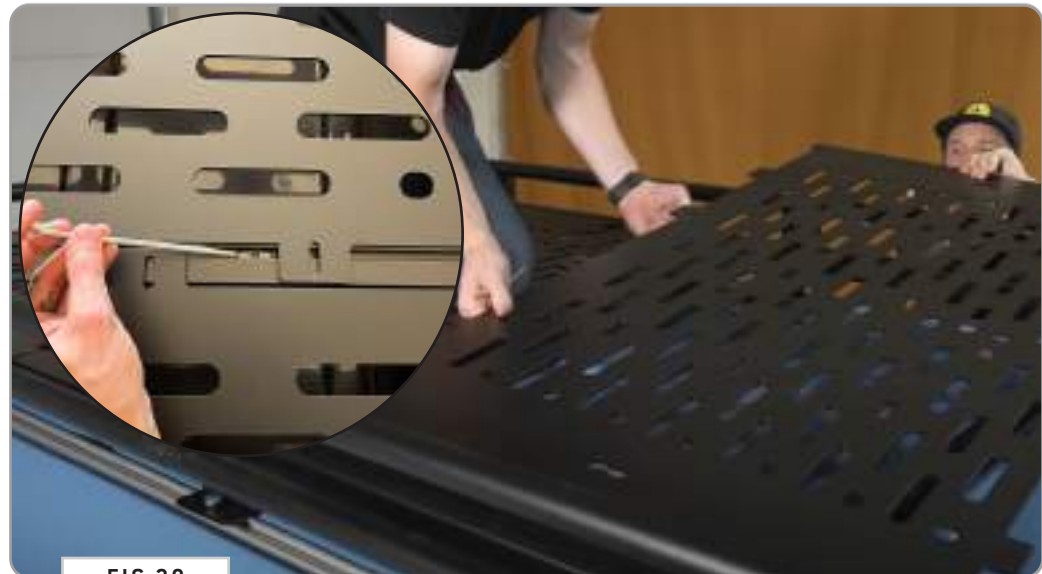
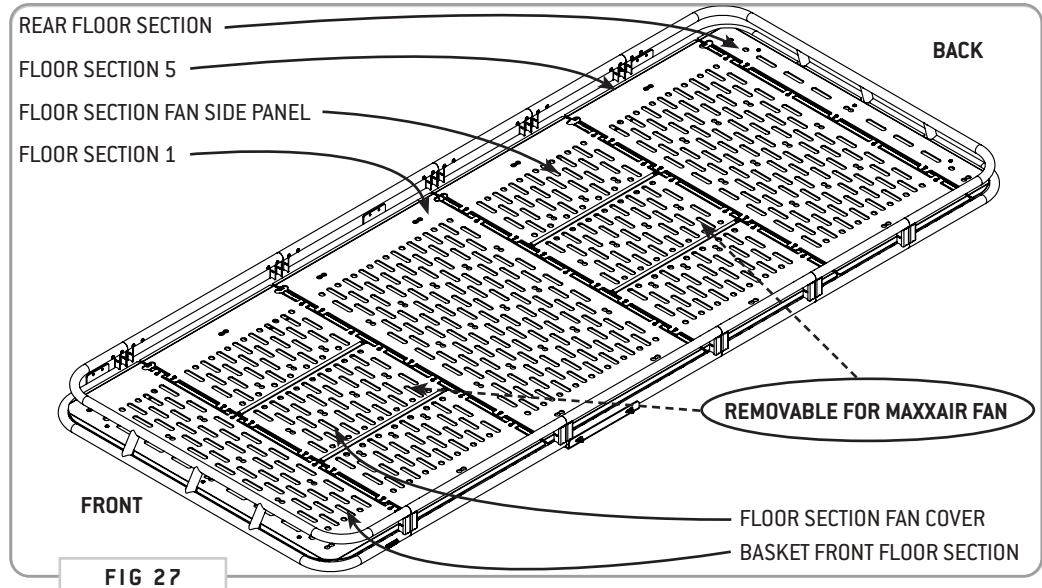
FIG 26

## STEP | 11 INSTALL FLOOR PANELS

**11.1 Install Floor Panels:** Begin to layout your **Decking Panels** along the locations shown in **FIG 27**. Adjust the **T-Nuts** as necessary to line up with the available pill slots of the **Decking Panels** (**FIG 28**).

**NOTE** - "Rear Floor Section 5" is interchangeable with any of the fan panel locations to accommodate varying fan locations on the high roof ext van.

### TOOLS REQUIRED FOR THIS STEP:



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

## STEP | 11 INSTALL FLOOR PANELS

**11.2 Install Floor Panels:** Note that the front and rear-most panels have pill slots for attaching to the **Clip Nuts** installed earlier (FIG 29). 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 30).



FIG 29

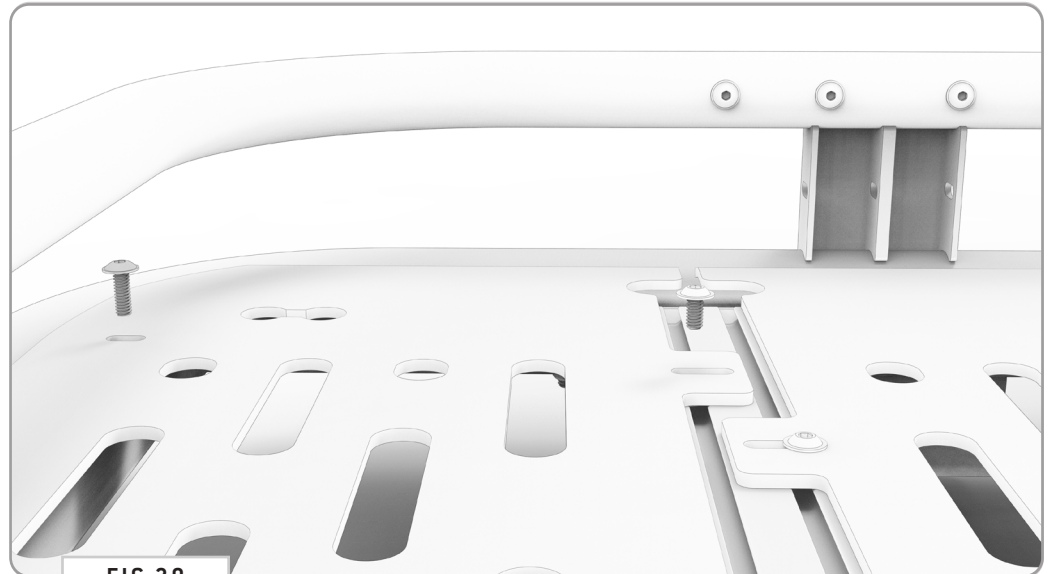


FIG 30

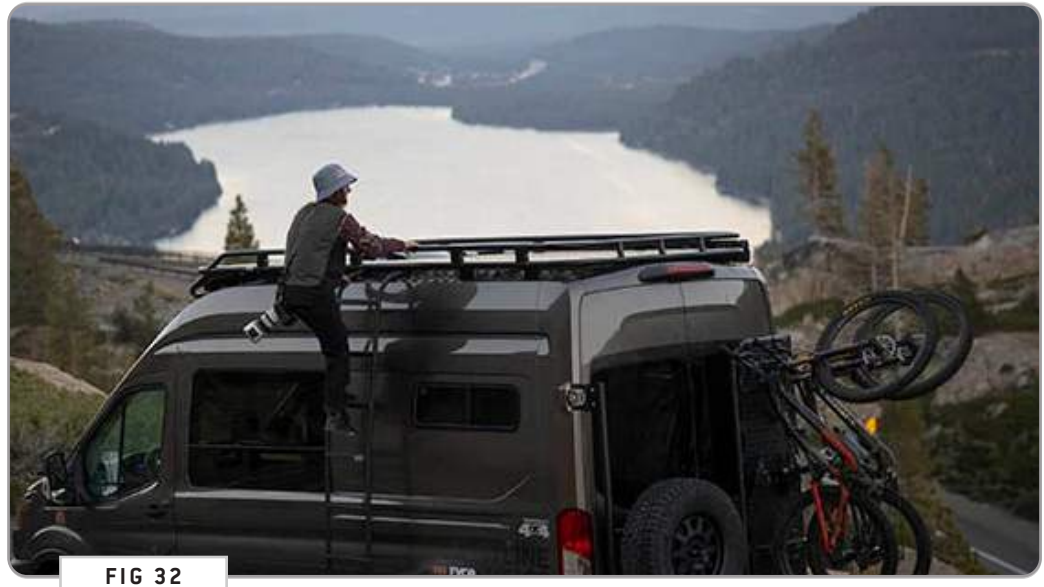
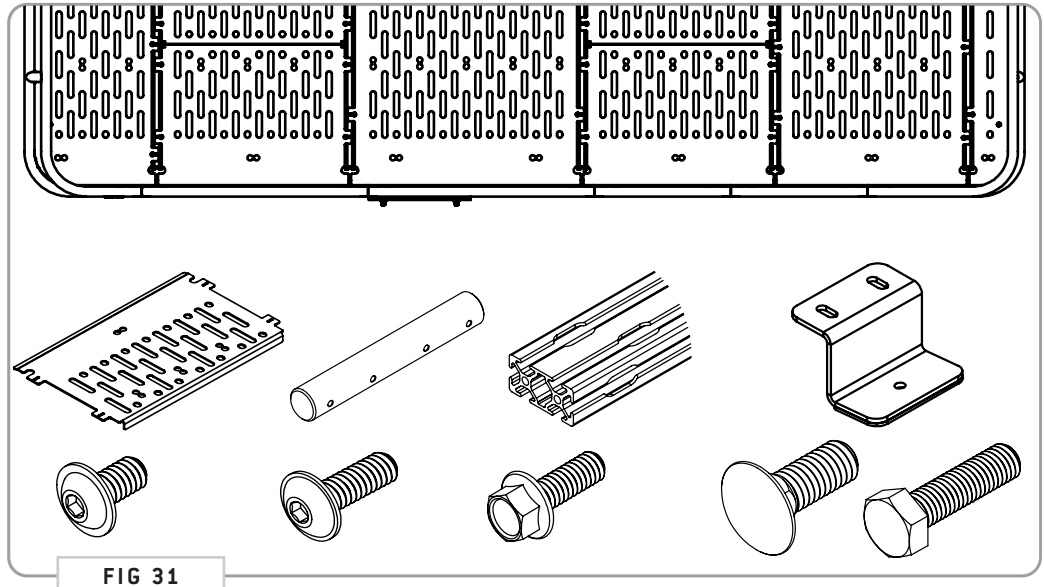


## STEP | 12 FINAL ADJUSTMENTS

**12.1 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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# INSTALLATION GUIDE

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

TR0109B



### 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

### 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.

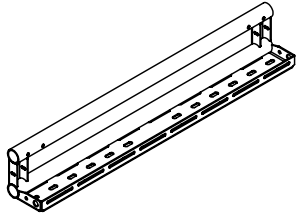
Contact us ASAP if anything is missing at:  
[support@flatlinevanco.com](mailto:support@flatlinevanco.com)

# 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.

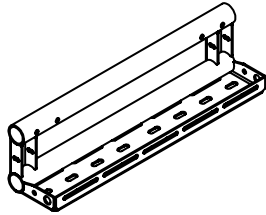


# PACKAGE CONTENTS



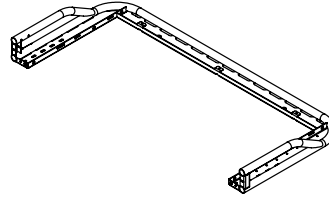
SIDE RAIL (34")

QTY: 4



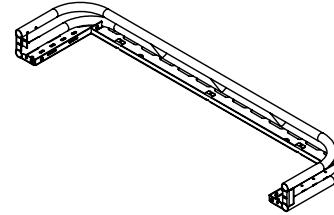
SIDE RAIL (20.5")

QTY: 2



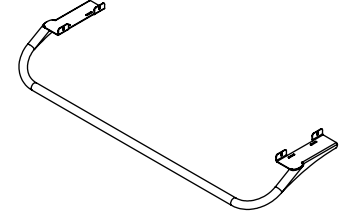
DROP FRONT BASKET

QTY: 1



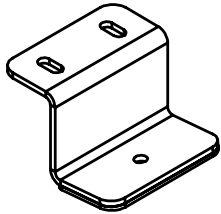
REAR BASKET

QTY: 1



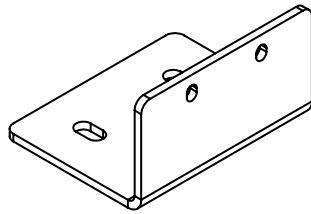
DROP DOWN WELDMENT

QTY: 1



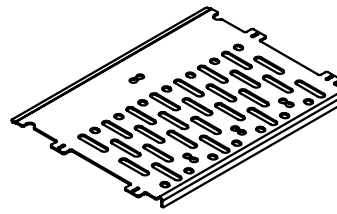
SAFARI FOOT BRACKET

QTY: 8



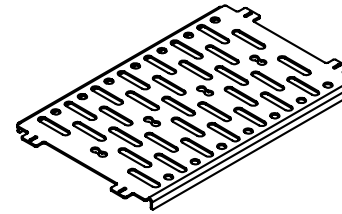
F45 AWNING BRACKET

QTY: 3



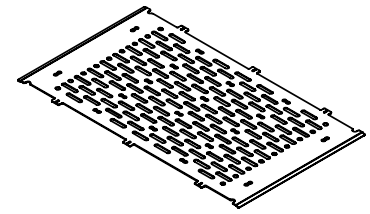
FLOOR SECTION FAN SIDE PANEL

QTY: 4



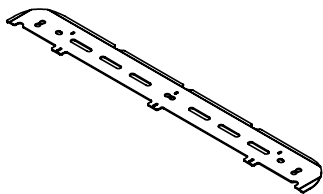
FLOOR SECTION FAN COVER

QTY: 2



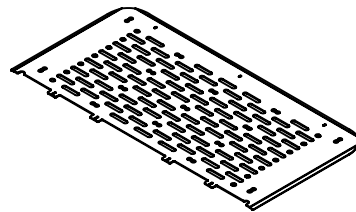
FLOOR SECTION 1

QTY: 1



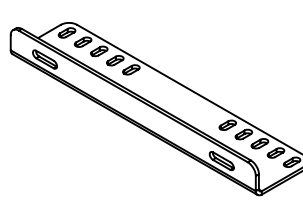
REAR FLOOR SECTION

QTY: 1



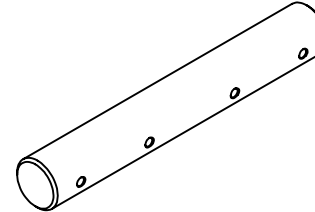
DROP FRONT FLOOR SECTION

QTY: 1



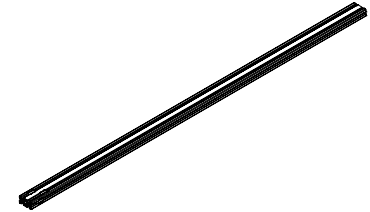
SIDE LADDER BRACKET

QTY: 1



BAYONET

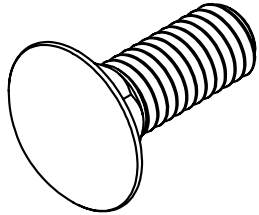
QTY: 8



CROSSBAR

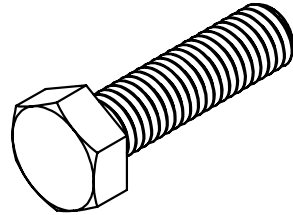
QTY: 4

# HARDWARE



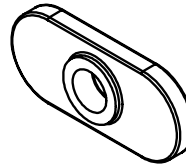
3/8-16 X 1 CARRIAGE BOLT

QTY: 26



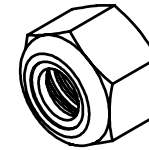
M8-1.25 HEX HEAD SCREW

QTY: 8



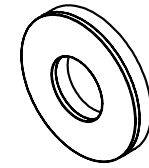
1/4-20 T-NUT

QTY: 37



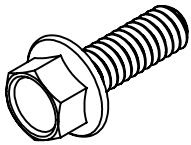
3/8-16 NYLON LOCKNUT

QTY: 26



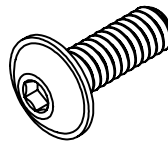
5/16" BONDED SEALING  
WASHERS

QTY: 8



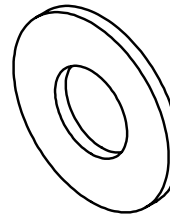
1/4-20 X 0.75 FLANGED HEX  
HEAD SCREW

QTY: 34



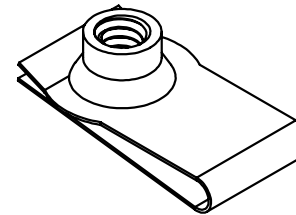
1/4-20 X 0.75 FLANGED BUTTON  
HEAD HEX DRIVE SCREW

QTY: 38



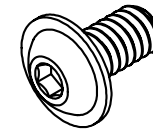
3/8 SCREW FLAT WASHER

QTY: 26



1/4-20 CLIP NUT

QTY: 6



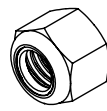
1/4-20 X 0.5 FLANGED BUTTON  
HEAD HEX DRIVE SCREW

QTY: 37



1/4 SCREW FLAT WASHER

QTY: 18



1/4-20 NYLON LOCKNUT

QTY: 18

# INSTALL

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

## 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).

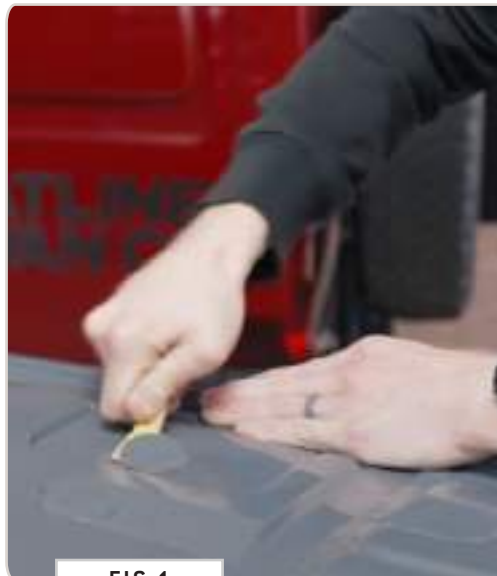


FIG 1



FIG 2



FIG 3

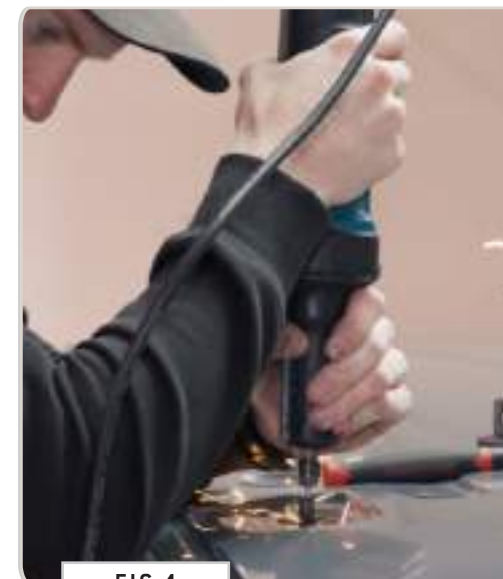


FIG 4



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

## 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)**.

**2.2 Apply Sealant:** Apply a small bead of exterior waterproof sealant around the outside of each landing pad (**FIG 7**).



FIG 5



FIG 6

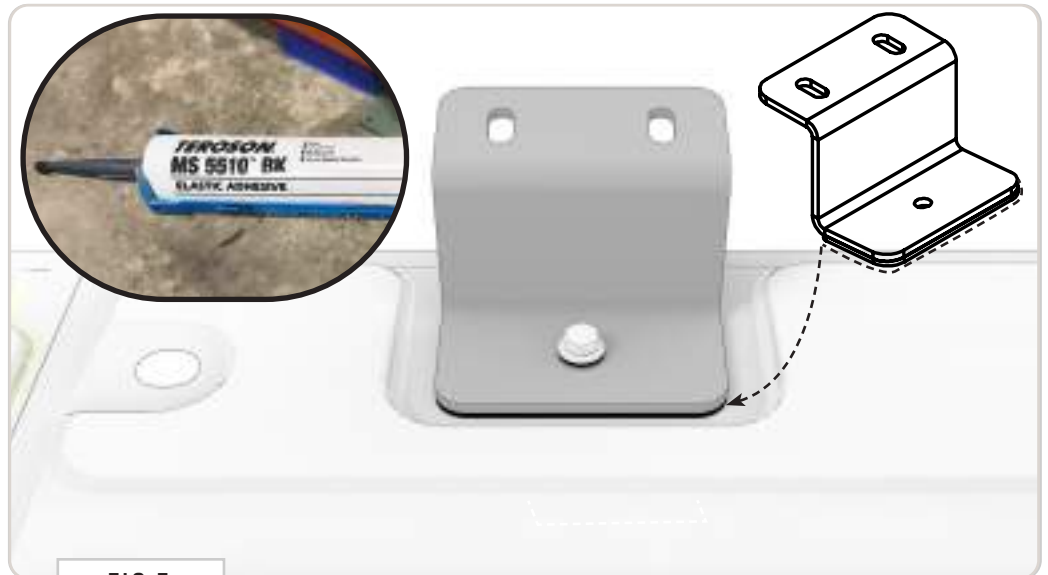


FIG 7

## STEP | 03 SIDE RAIL ASSEMBLY

**3.1 Assemble Side Rails:** Insert a **Bayonet** into the end of a **34" Side Rail (FIG 8+9)** 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 **34" Side Rail** piece to the protruding end of the **Bayonet** and repeat the process on the other side with a **20.5" Side Rail**. See **FIG 8** for layout of components.

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

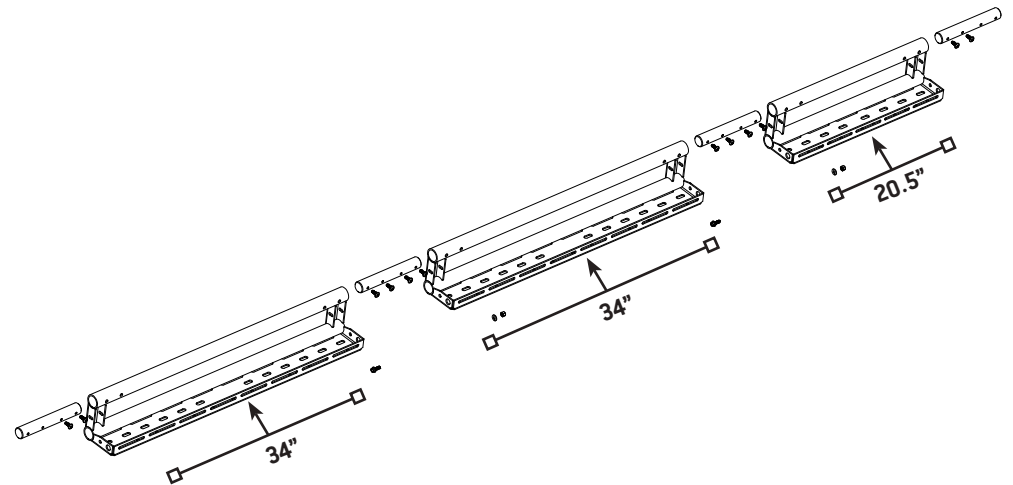


FIG 8



FIG 9

## 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 10**).

**NOTE** - Use clamps to ensure the seams are tight while you tighten the bolts (**FIG 11**).

**TOOLS REQUIRED FOR THIS STEP:**

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



FIG 10



FIG 11

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 12+13.

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

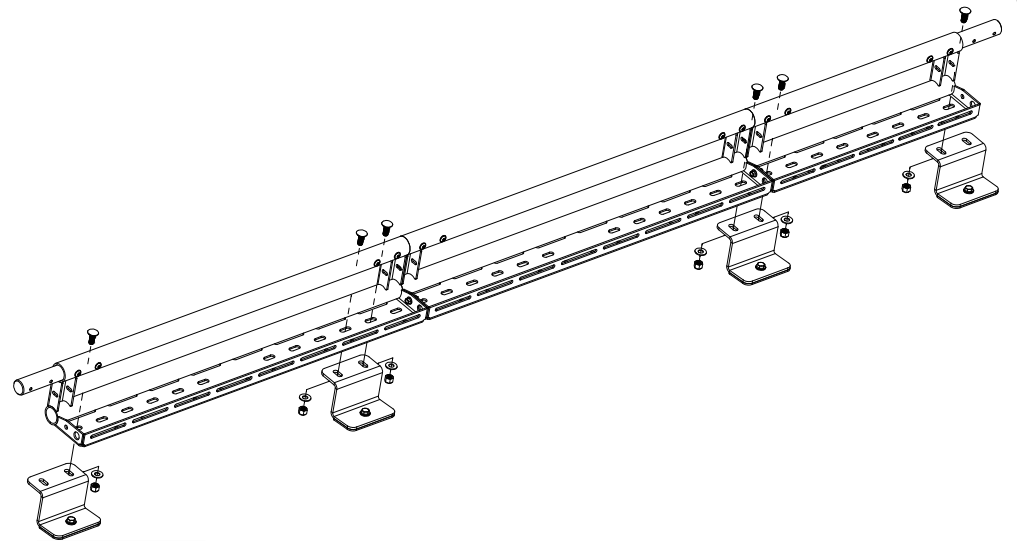


FIG 12

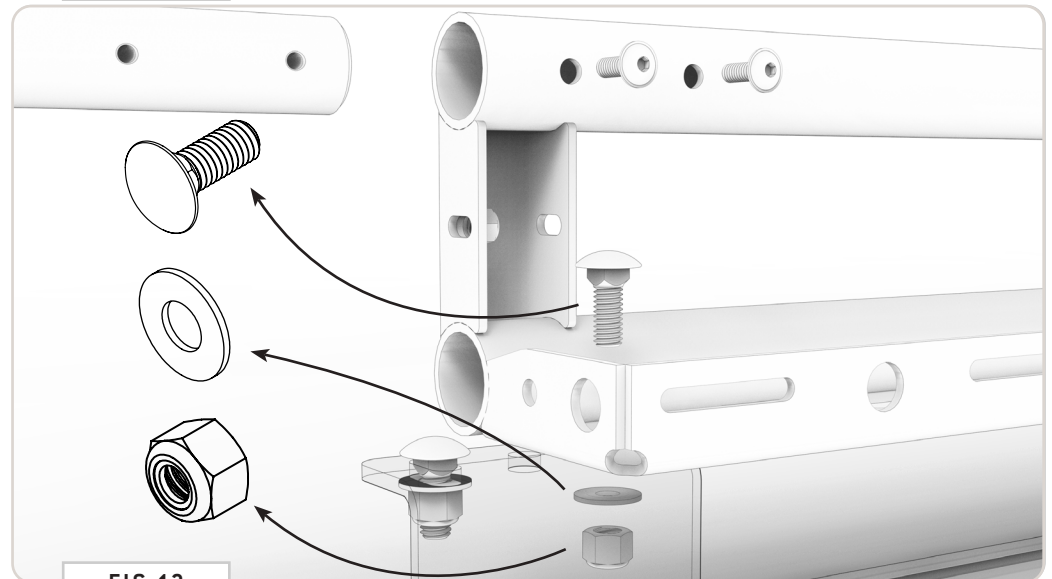


FIG 13

## 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 15).

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

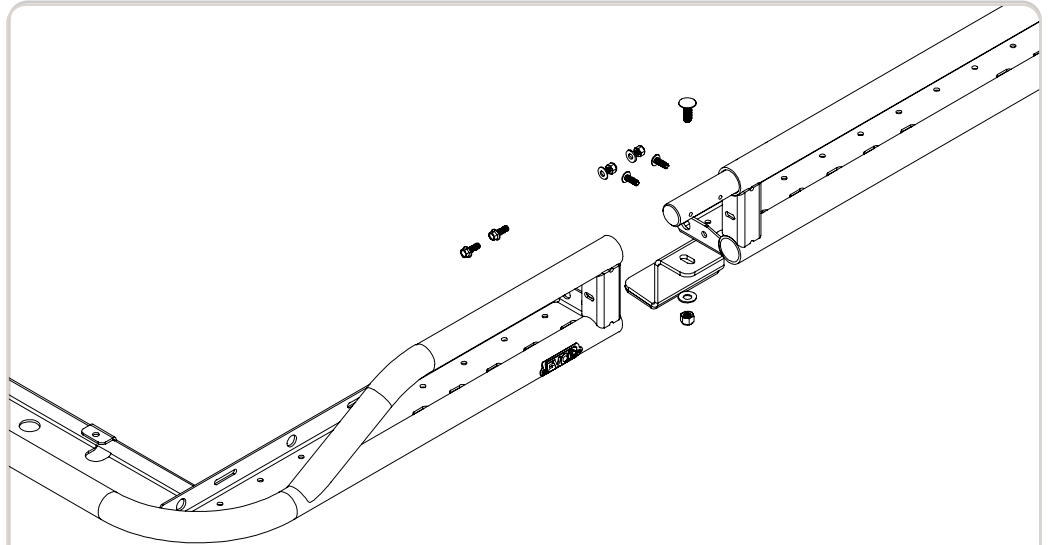


FIG 14



FIG 15

## 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 17 and 18** 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

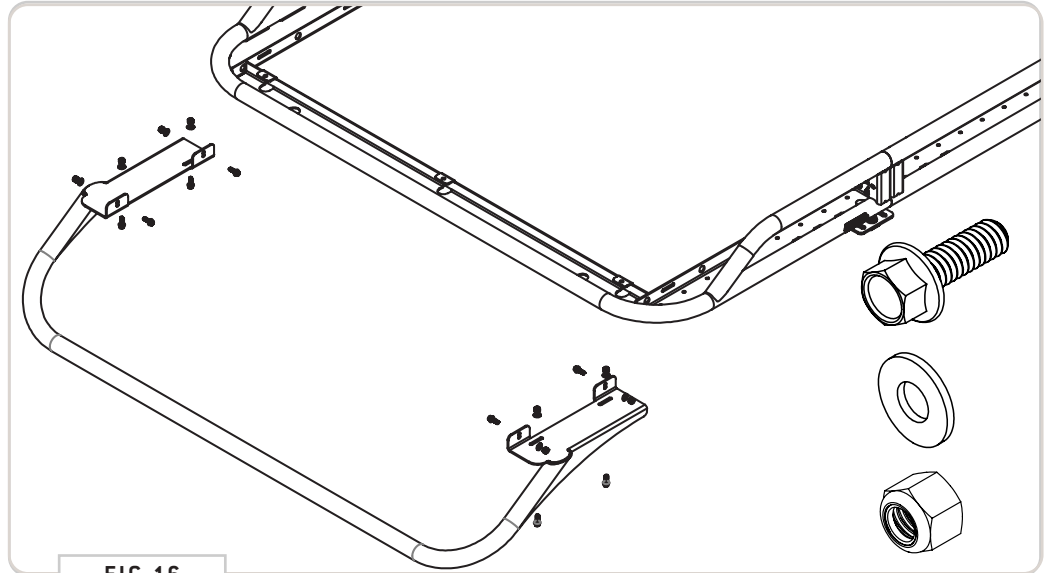


FIG 16

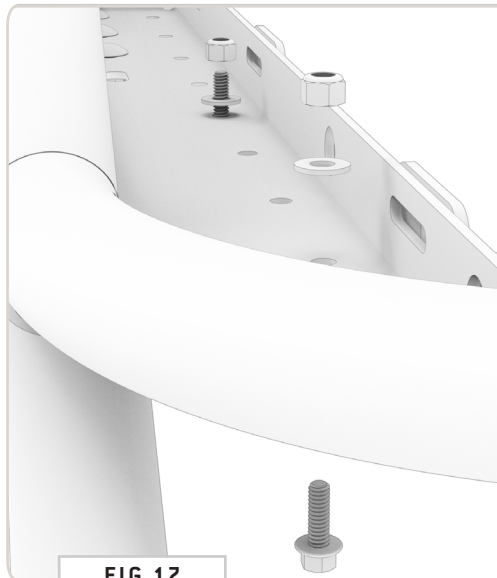


FIG 17



FIG 18

## 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 20 for locations.

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



FIG 19

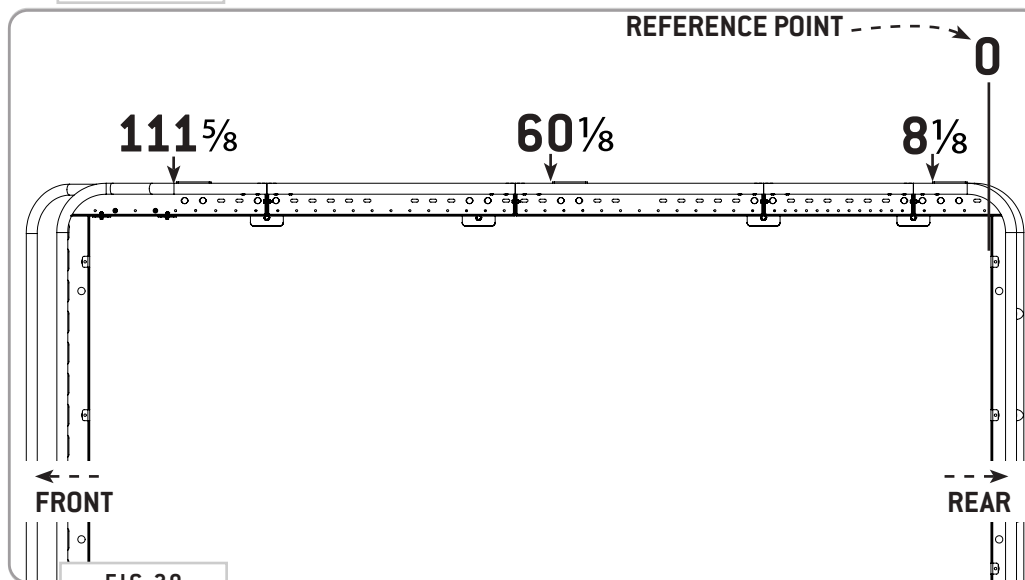


FIG 20



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 21+22** 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 21

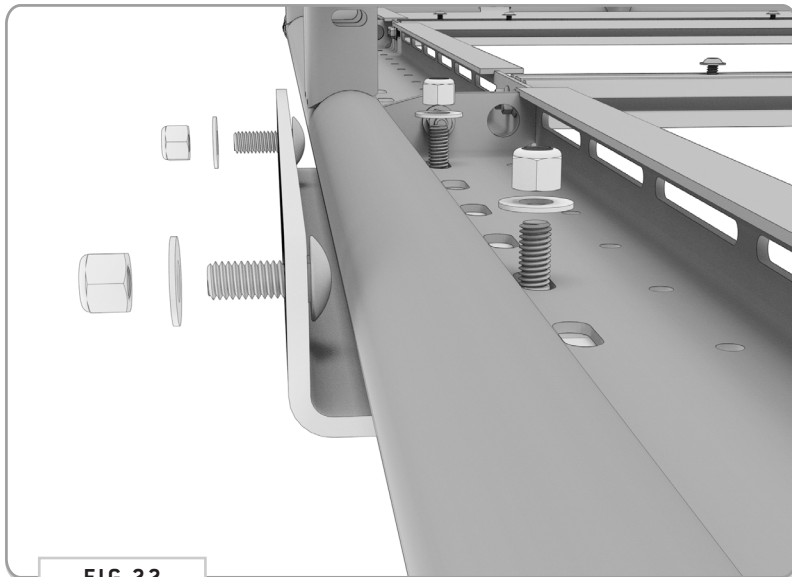


FIG 22

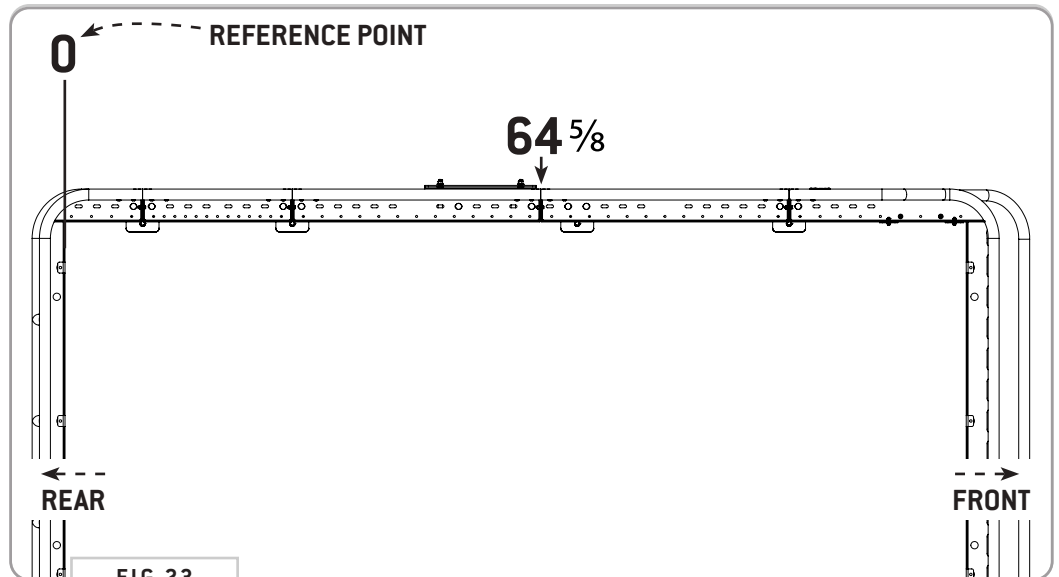


FIG 23

**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 24), attach Crossbars to the rack in the locations shown in FIG 25. Be sure to measure both sides to ensure that the crossbars are square.

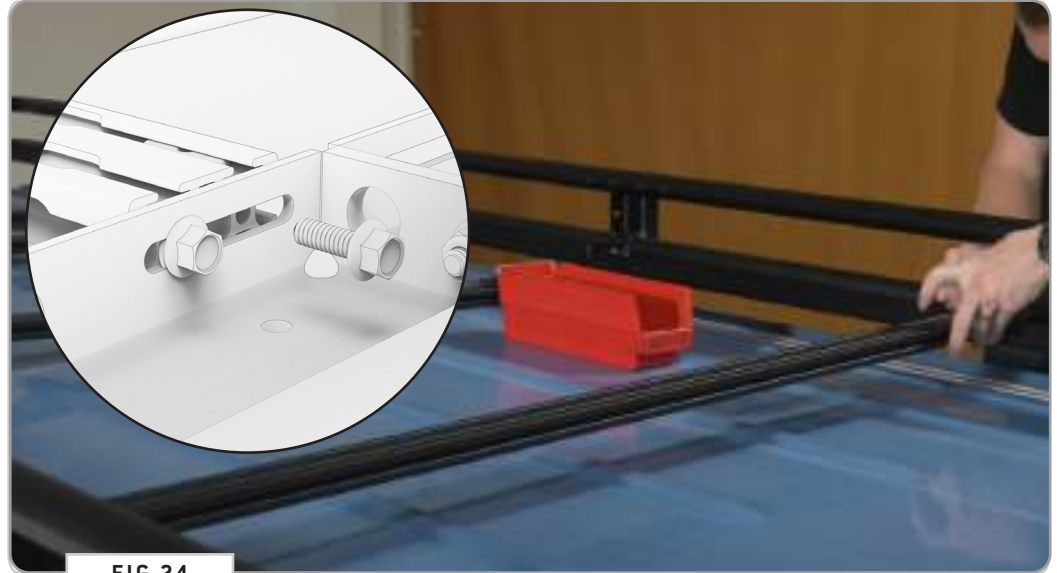


FIG 24

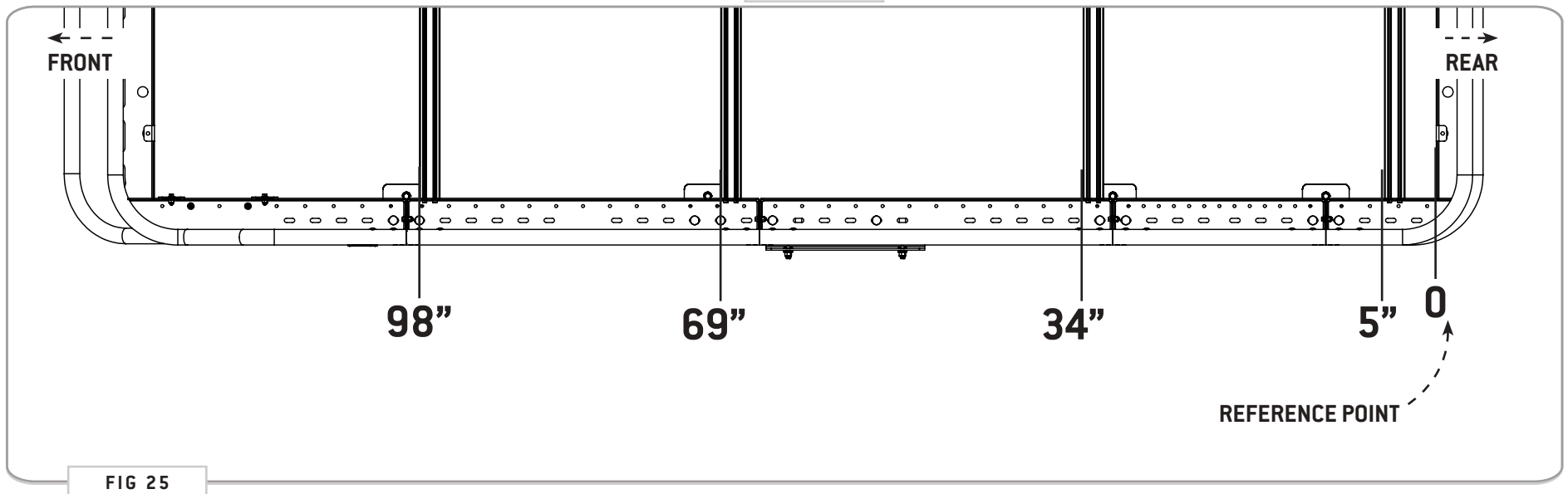


FIG 25

## 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 26.

**NOTE** - The flat side of the **Clip Nut** should be facing upwards (FIG 27)

TOOLS REQUIRED FOR THIS STEP:

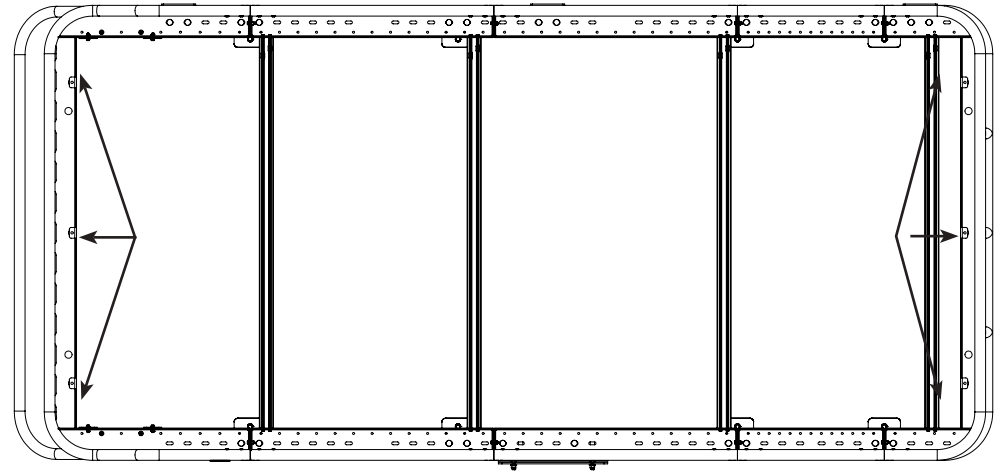


FIG 26

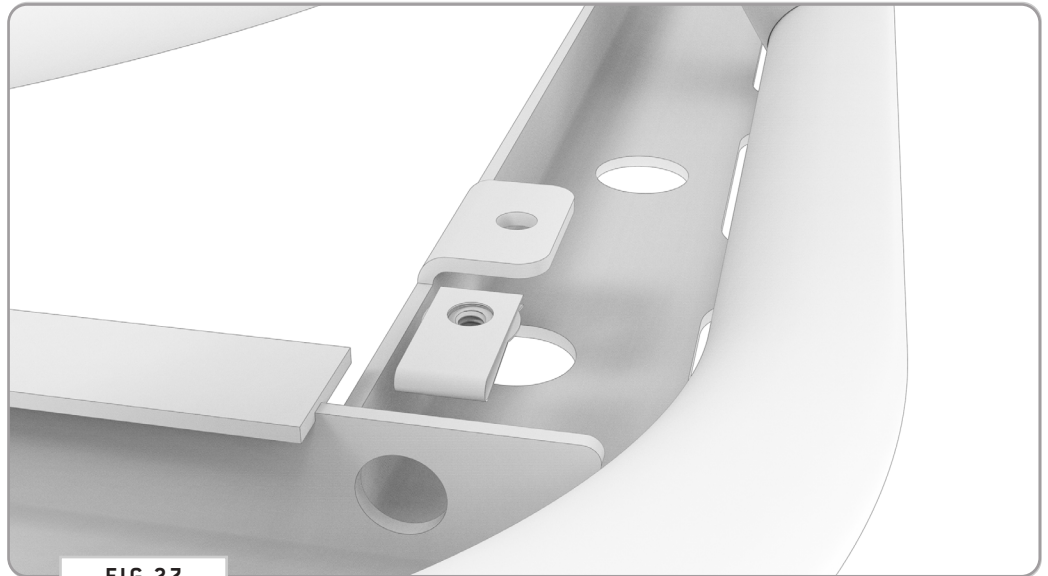


FIG 27

## 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 28**. See **FIG 29** 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**.

### TOOLS REQUIRED FOR THIS STEP:



FIG 28

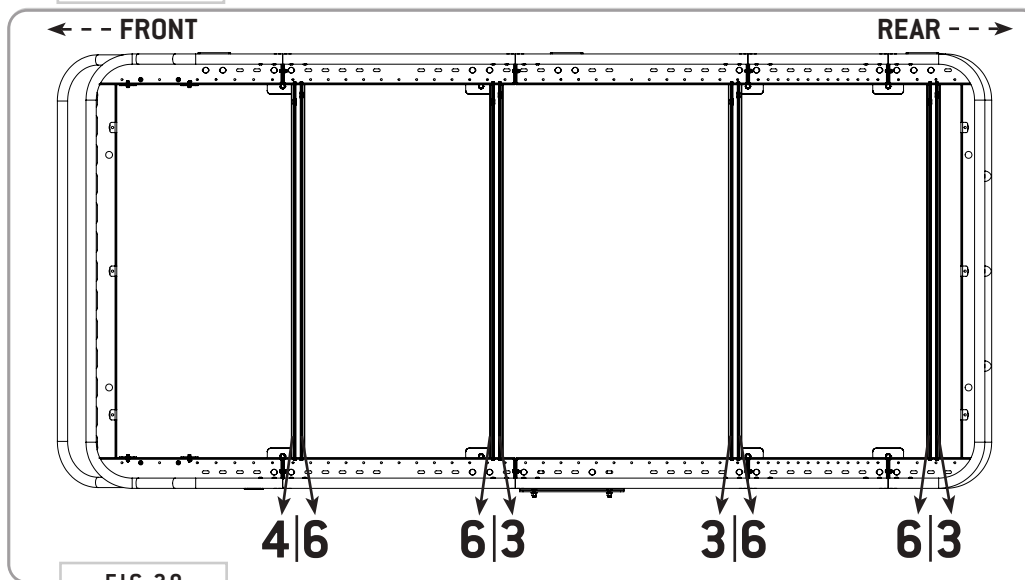
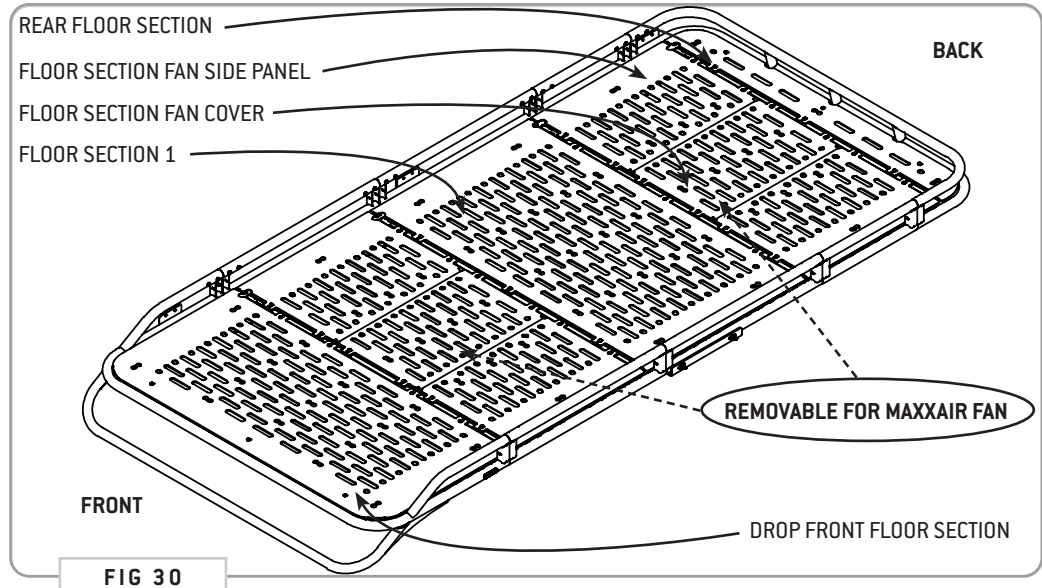


FIG 29

## STEP | 12 INSTALL FLOOR PANELS

**12.1 Install Floor Panels:** Begin to layout your **Decking Panels** along the locations shown in **FIG 30**. Adjust the **T-Nuts** as necessary to line up with the available pill slots of the **Decking Panels** (**FIG 31**).

### TOOLS REQUIRED FOR THIS STEP:



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 32). 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 33).



FIG 32

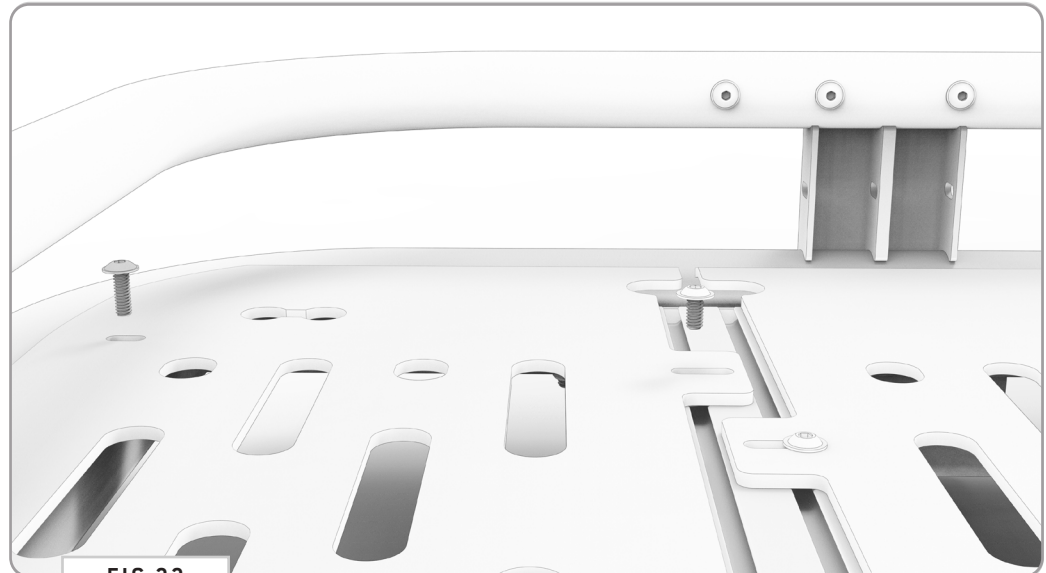


FIG 33

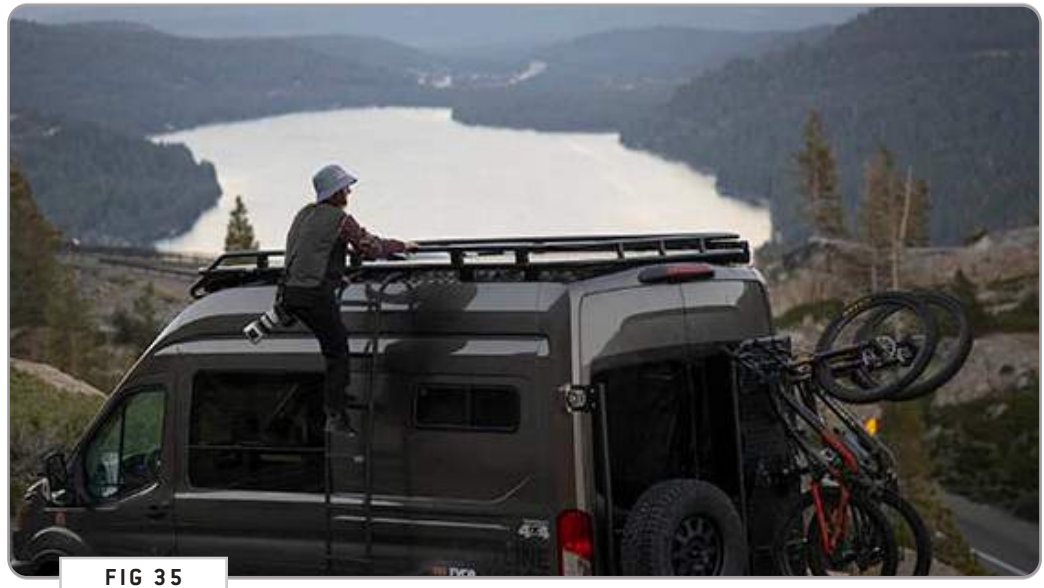
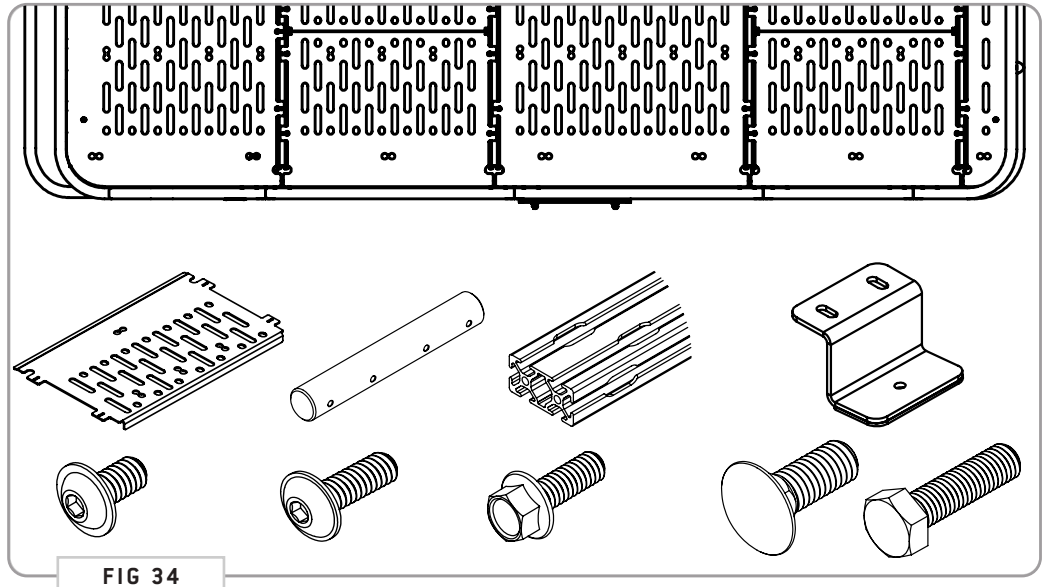


## STEP | 13 FINAL ADJUSTMENTS

**13.1 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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@FLATLINEVANCO



# 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.

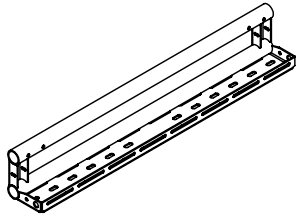
Contact us ASAP if anything is missing at:  
[support@flatlinevanco.com](mailto:support@flatlinevanco.com)

# 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.

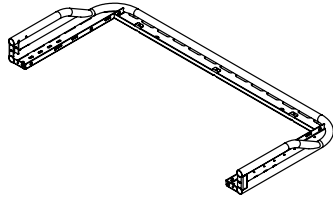


# PACKAGE CONTENTS



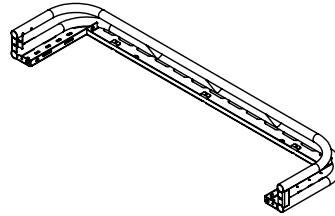
SIDE RAIL (34")

QTY: 6



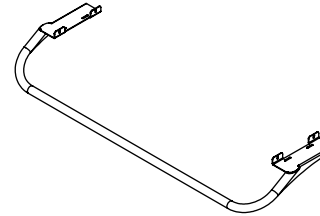
DROP FRONT BASKET

QTY: 1



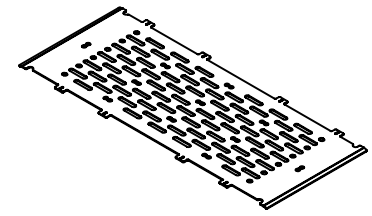
REAR BASKET

QTY: 1



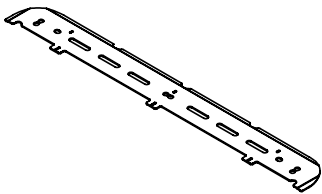
DROP DOWN WELDMENT

QTY: 1



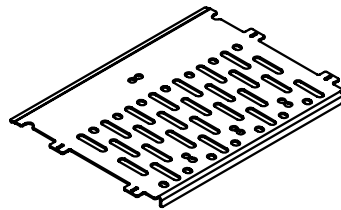
FLOOR SECTION 2

QTY: 1



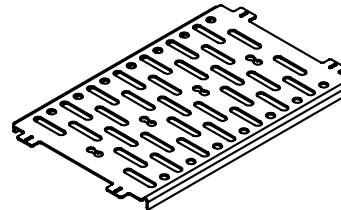
REAR FLOOR SECTION

QTY: 1



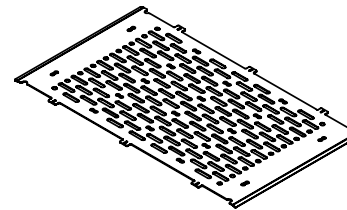
FLOOR SECTION FAN SIDE PANEL

QTY: 4



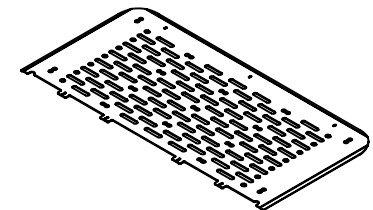
FLOOR SECTION FAN COVER

QTY: 2



FLOOR SECTION 1

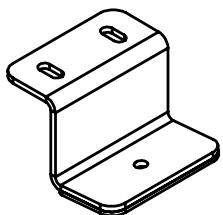
QTY: 1



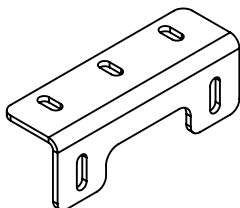
DROP FRONT FLOOR SECTION

QTY: 1

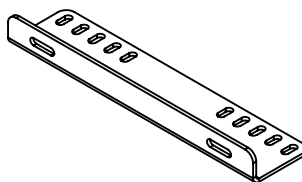
# PACKAGE CONTENTS



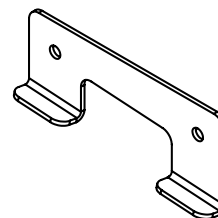
SAFARI FOOT BRACKET  
QTY: 2



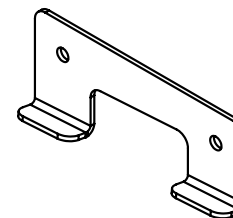
SUPPORT FOOT BRACKET  
QTY: 2



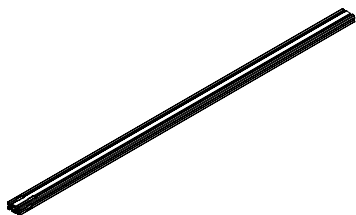
SIDE LADDER BRACKET  
QTY: 1



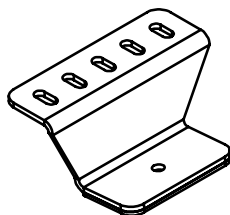
DRIVER SIDE SUPPORT  
BRACKET  
QTY: 1



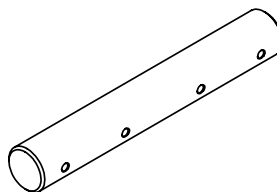
PASS SIDE SUPPORT BRACKET  
QTY: 1



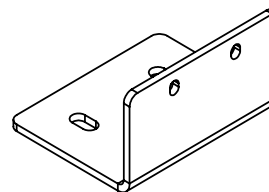
CROSSBAR  
QTY: 5



MID ROOF FOOT BRACKET  
QTY: 6

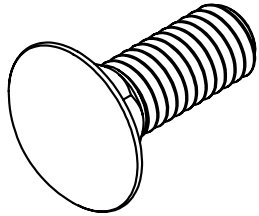


BAYONET  
QTY: 8



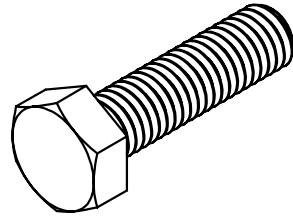
F45 AWNING BRACKETS  
QTY: 3

# HARDWARE



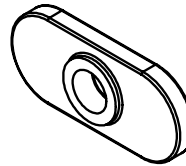
3/8-16 X 1 CARRIAGE BOLT

QTY: 30



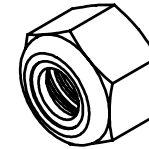
M8-1.25 HEX HEAD SCREW

QTY: 8



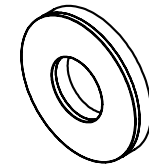
1/4-20 T-NUT

QTY: 44



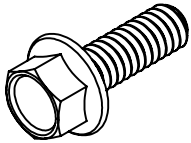
3/8-16 NYLON LOCKNUT

QTY: 34



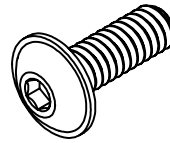
5/16" BONDED SEALING  
WASHERS

QTY: 8



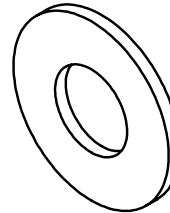
1/4-20 X 0.75 FLANGED HEX  
HEAD SCREW

QTY: 38



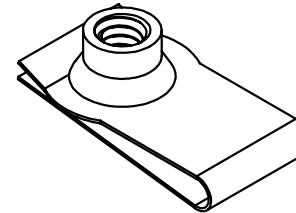
1/4-20 X 0.75 FLANGED BUTTON  
HEAD HEX DRIVE SCREW

QTY: 38



3/8 SCREW FLAT WASHER

QTY: 38



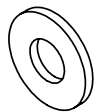
1/4-20 CLIP NUT

QTY: 6



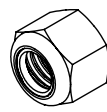
1/4-20 X 0.5 FLANGED BUTTON  
HEAD HEX DRIVE SCREW

QTY: 44



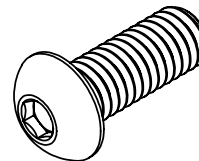
1/4 SCREW FLAT WASHER

QTY: 18



1/4-20 NYLON LOCKNUT

QTY: 18



3/8-16 X 1 BUTTON HEAD  
HEX DRIVE SCREW

QTY: 4

# INSTALL

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

## 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).

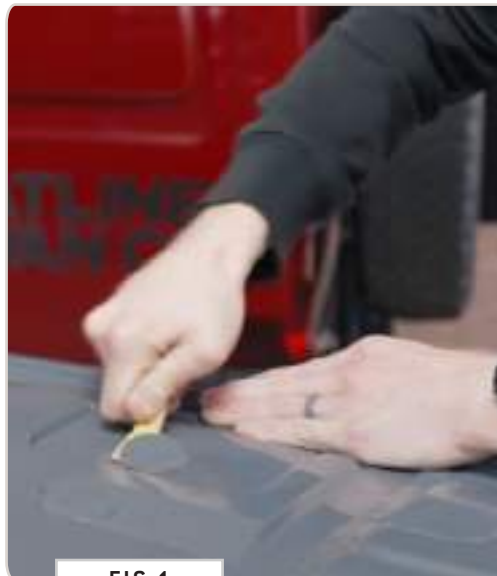


FIG 1



FIG 2



FIG 3

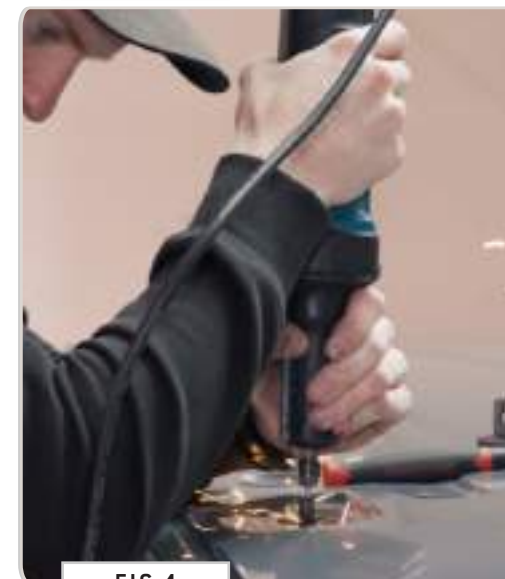


FIG 4



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.



FIG 5



FIG 6

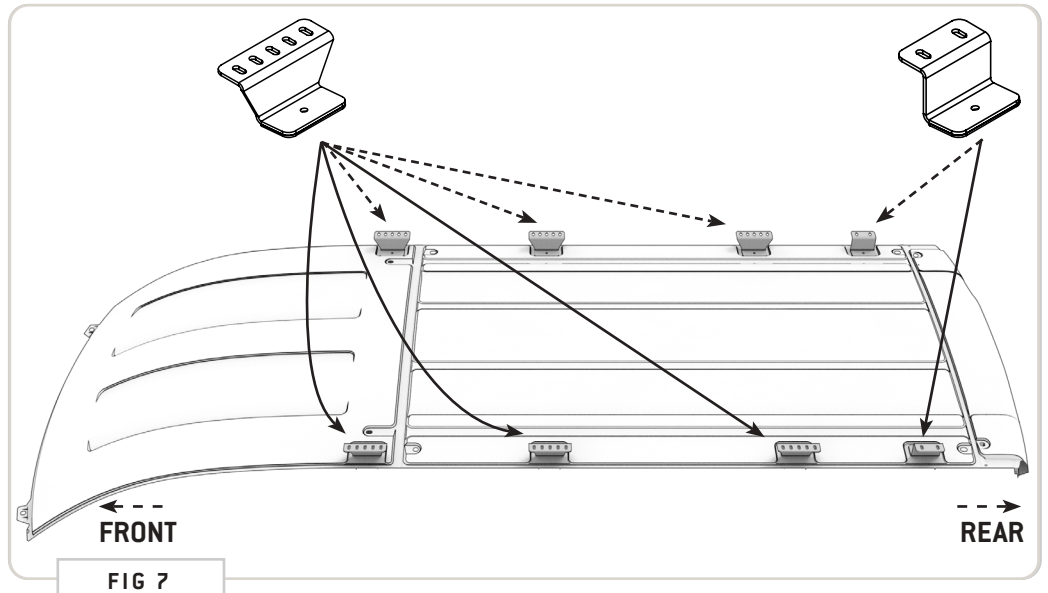


FIG 7

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**).

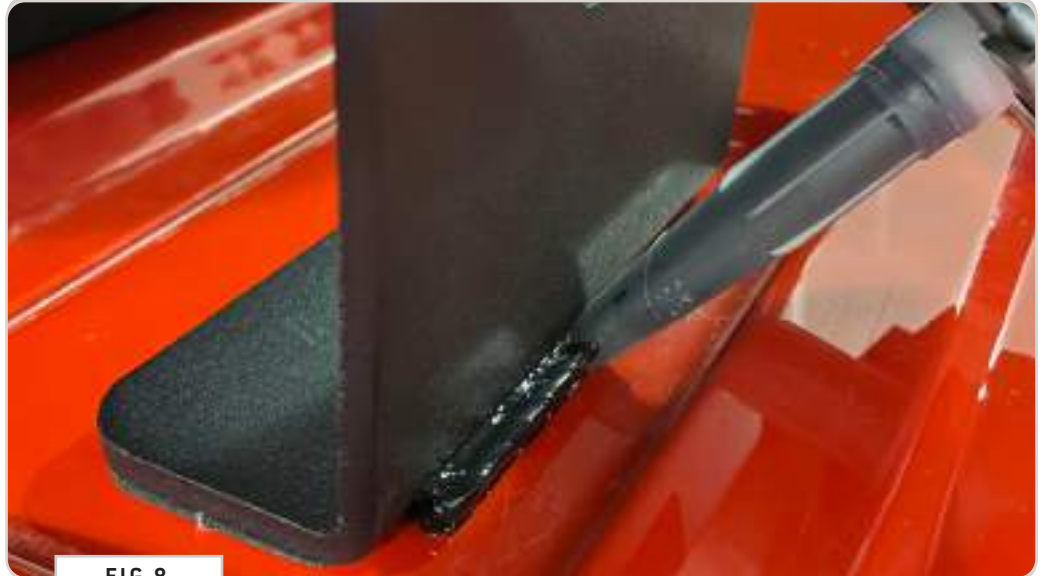


FIG 8

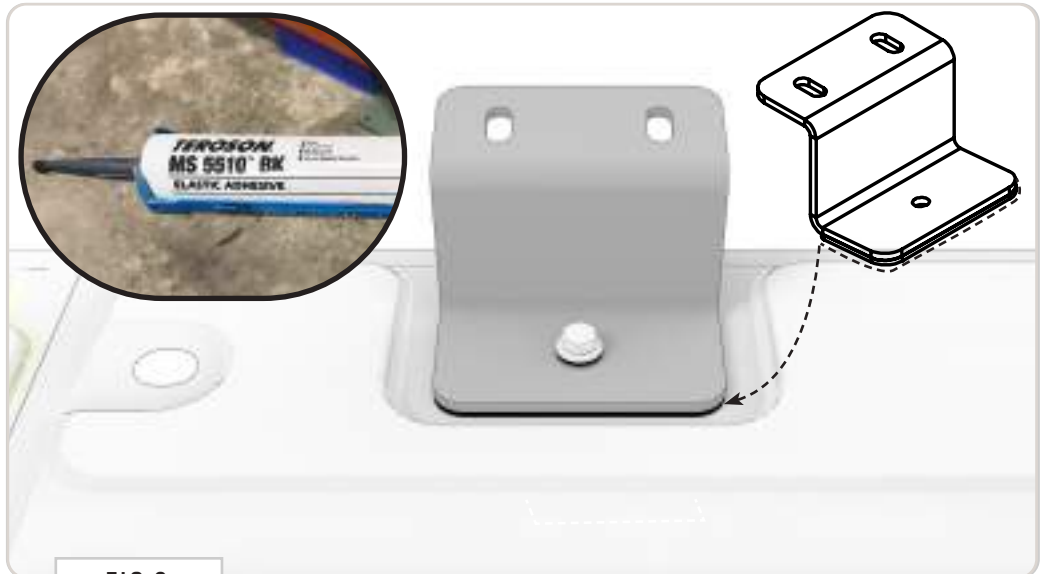


FIG 9

## 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.

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

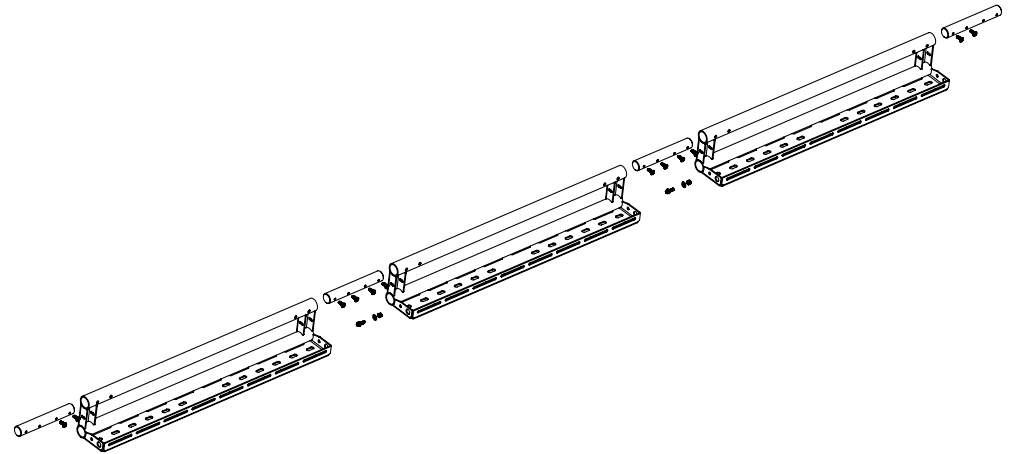


FIG 10



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:**

- + QWICK 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.

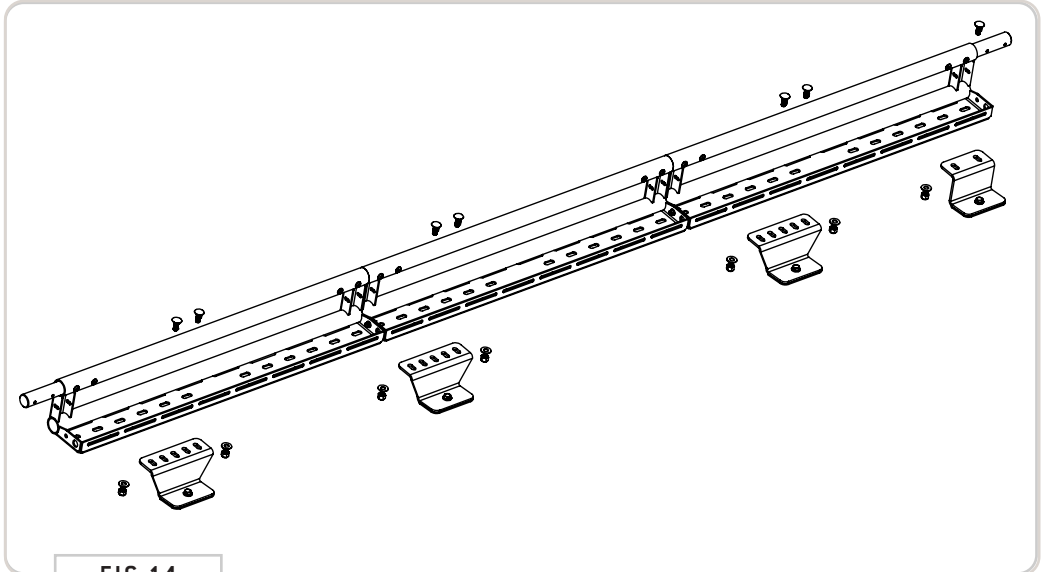


FIG 14

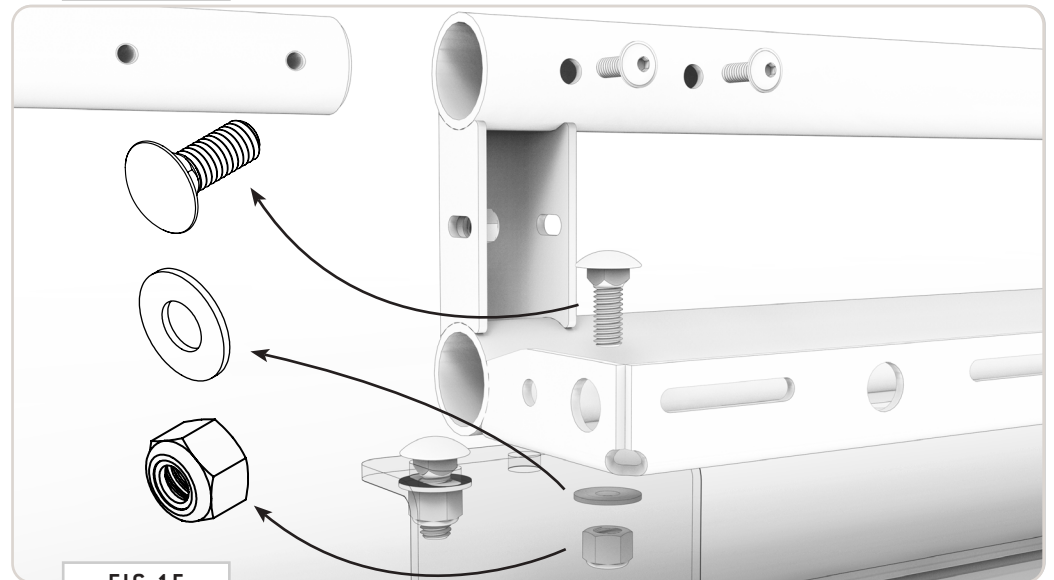


FIG 15

## 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

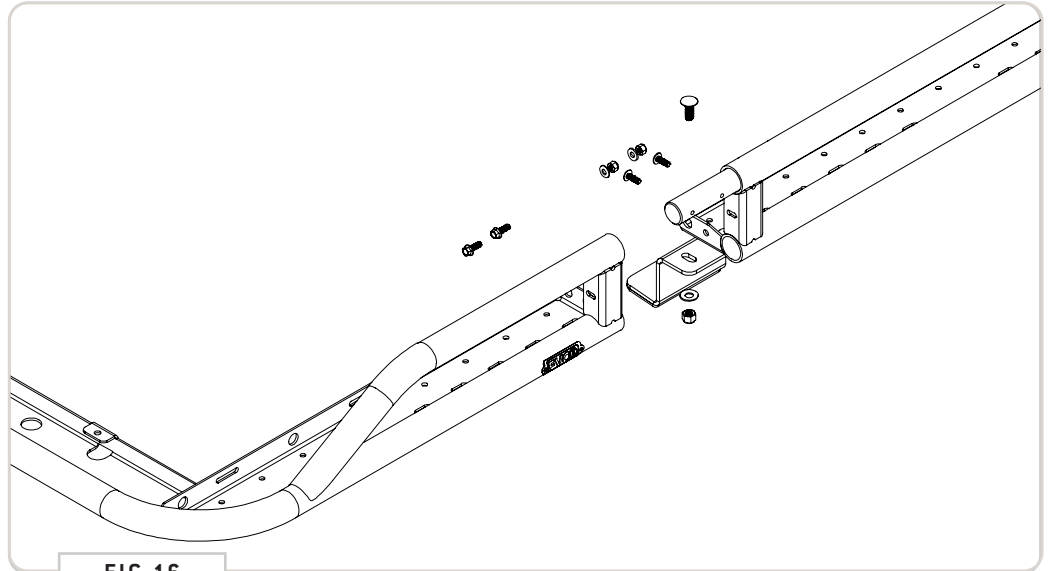


FIG 16



FIG 17

**TOOLS REQUIRED FOR THIS STEP:** + 3/8" WRENCH OR SOCKET  
+ 7/16" WRENCH OR SOCKET

## 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.

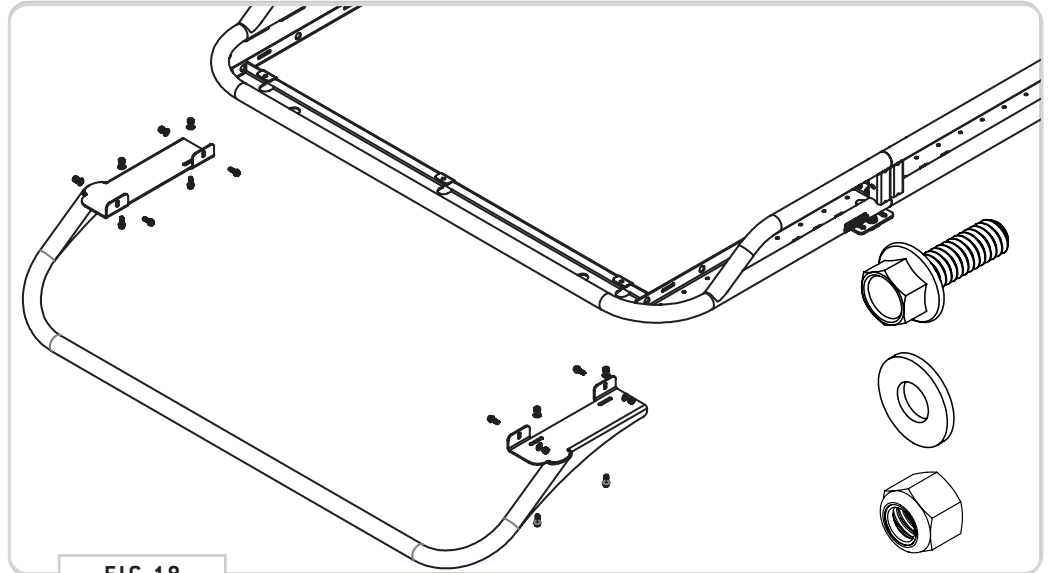


FIG 18

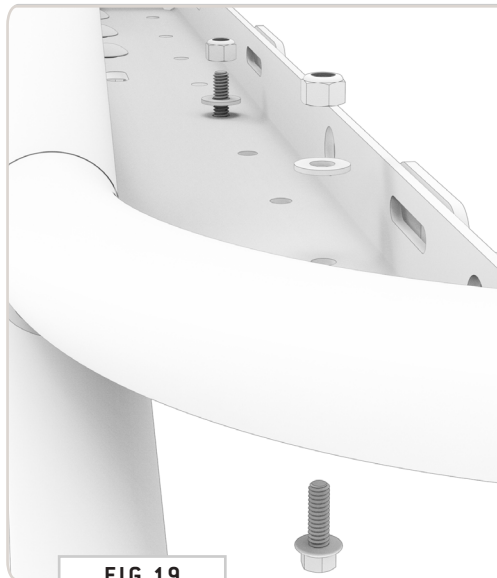


FIG 19



FIG 20



## 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.

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

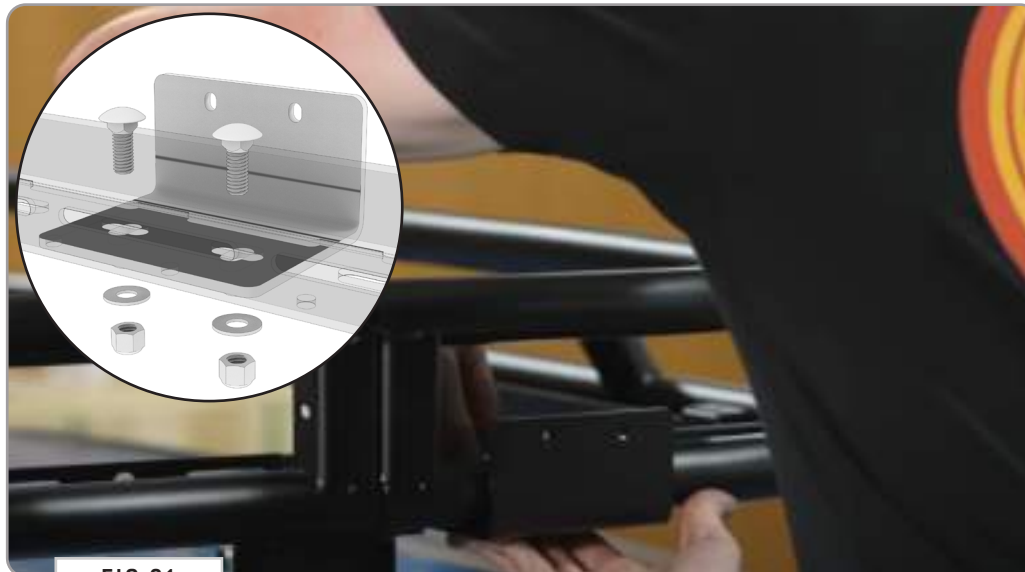


FIG 21

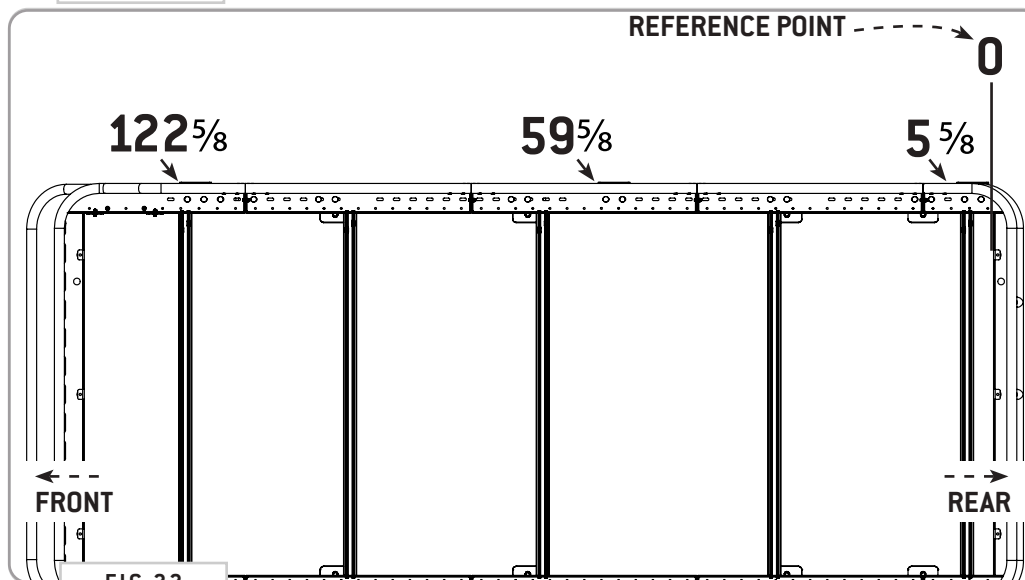


FIG 22

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

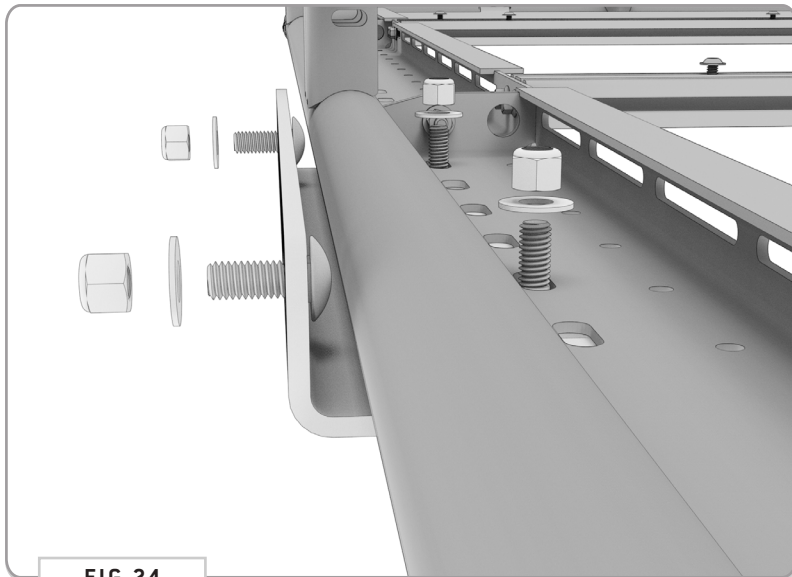


FIG 24

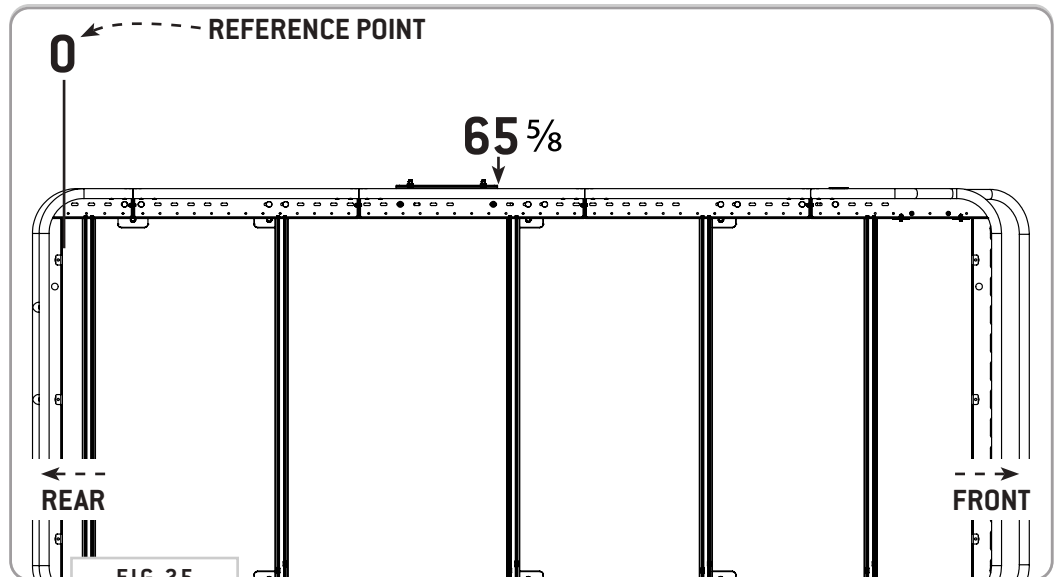


FIG 25

**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.

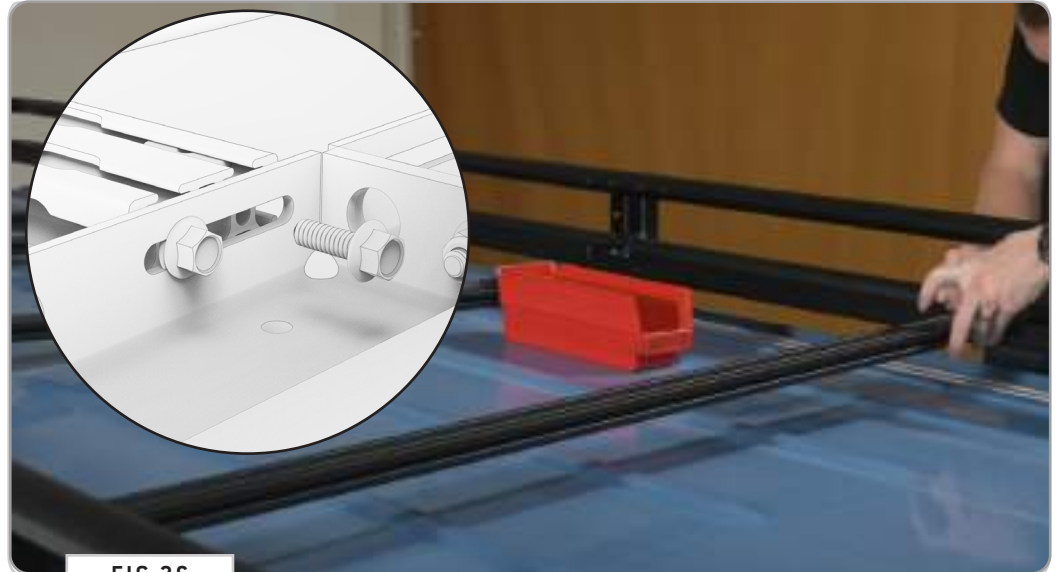


FIG 26

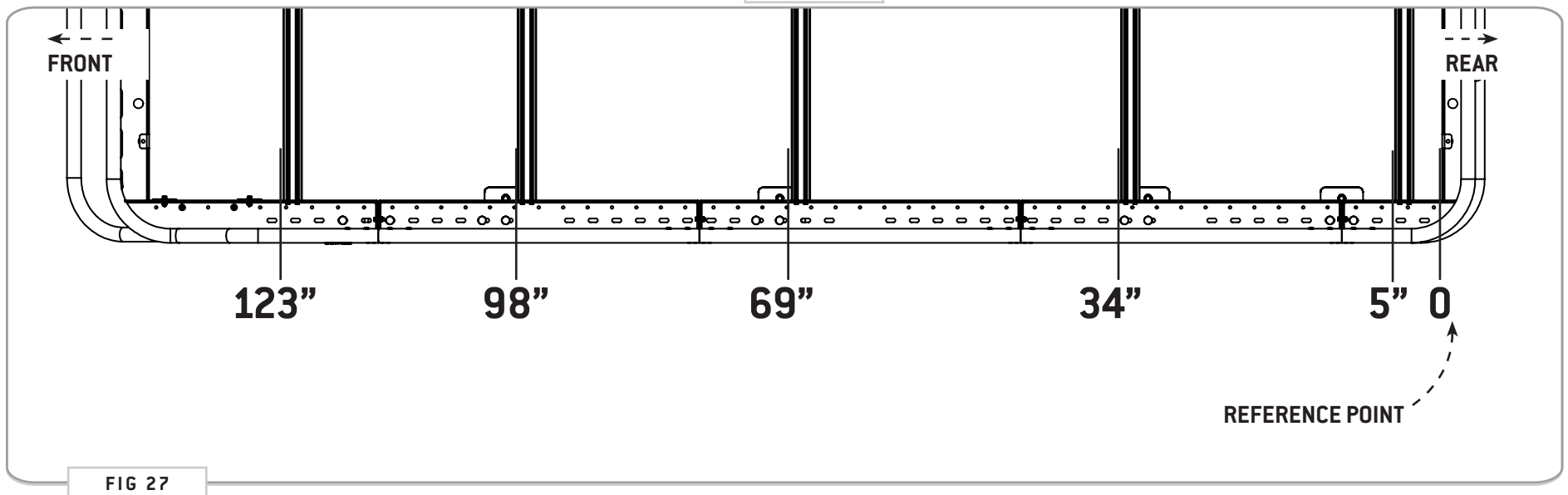


FIG 27

## 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:

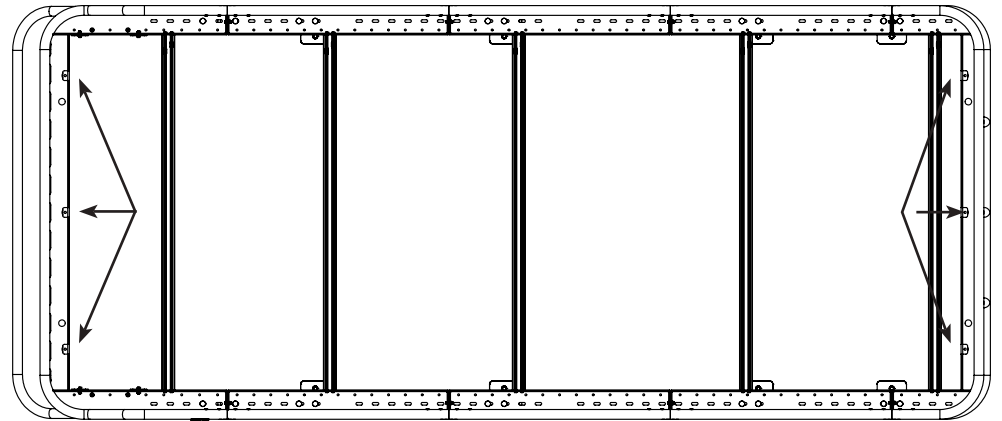


FIG 28

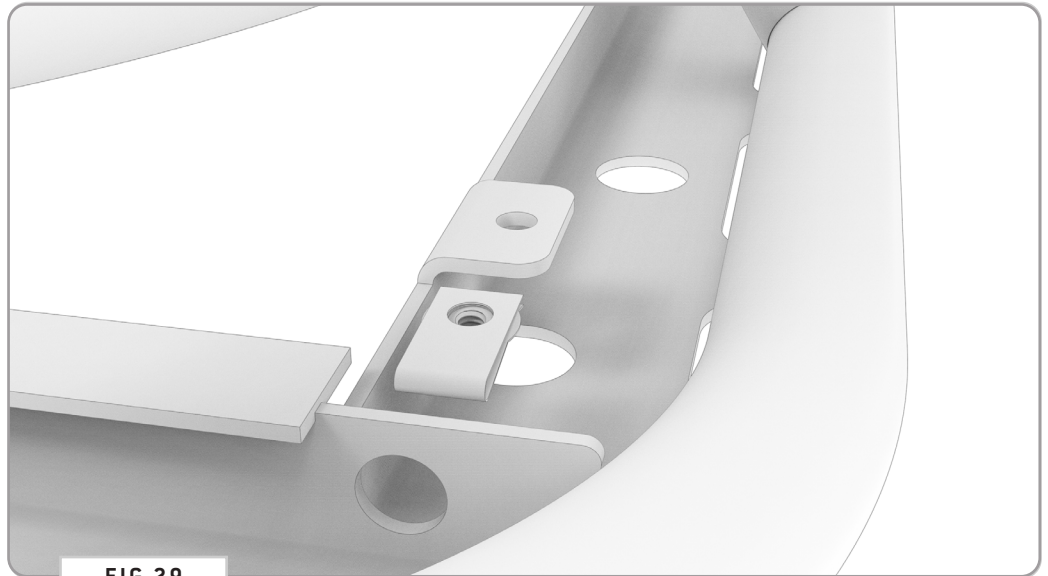


FIG 29

## 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**.

### TOOLS REQUIRED FOR THIS STEP:



FIG 30

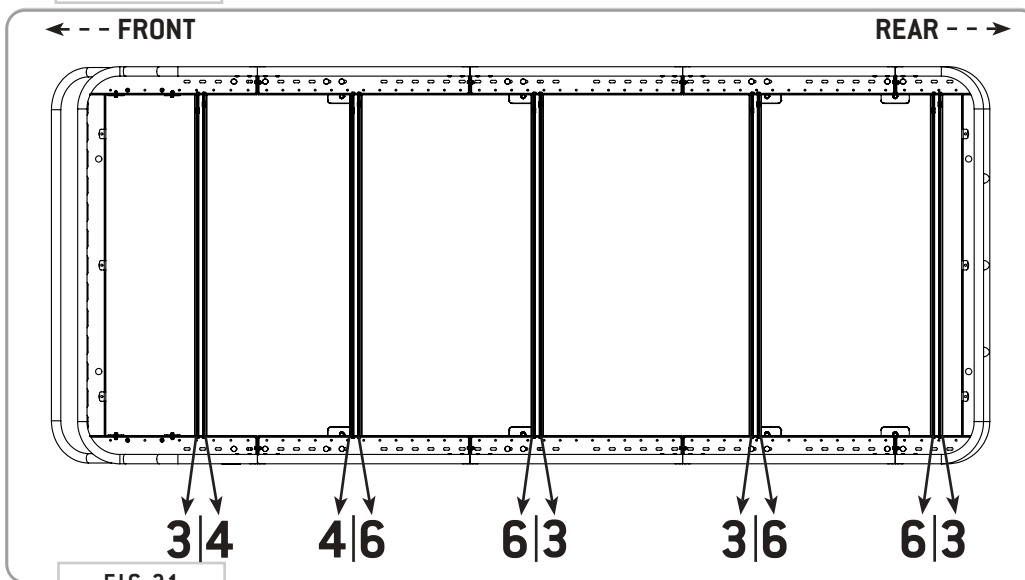


FIG 31

## 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:

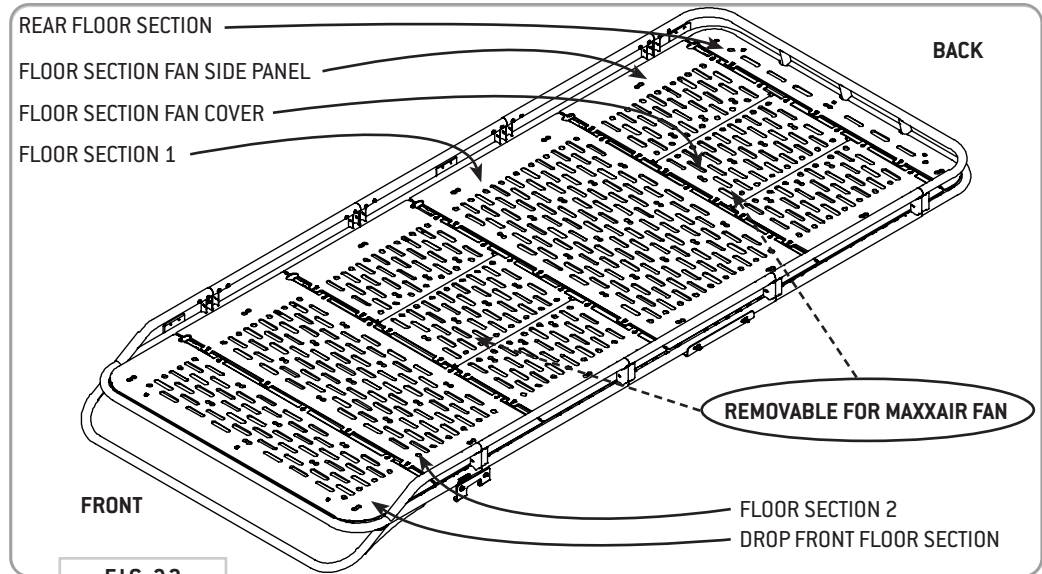


FIG 32



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

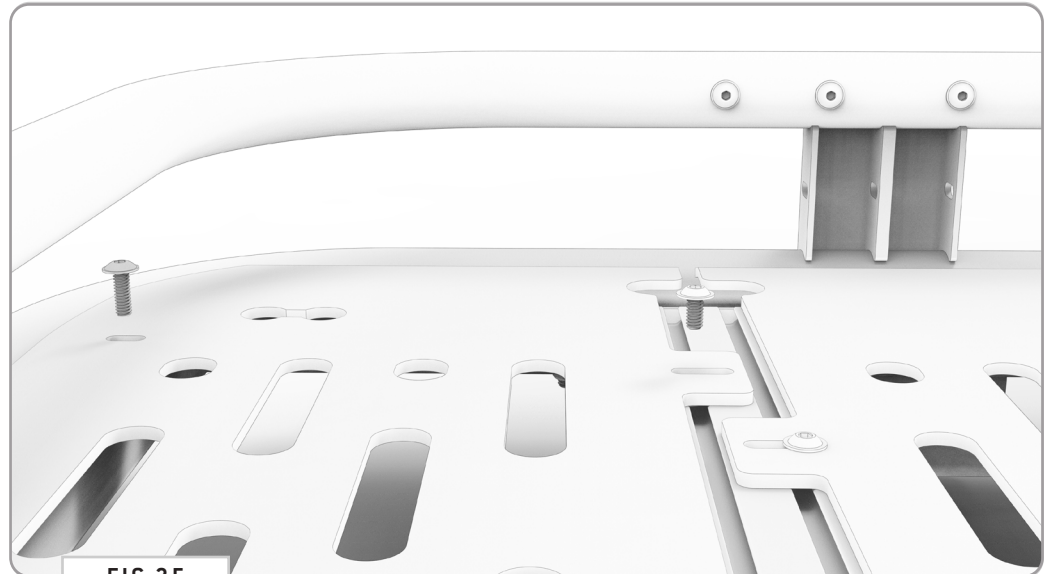


FIG 35



## 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).

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

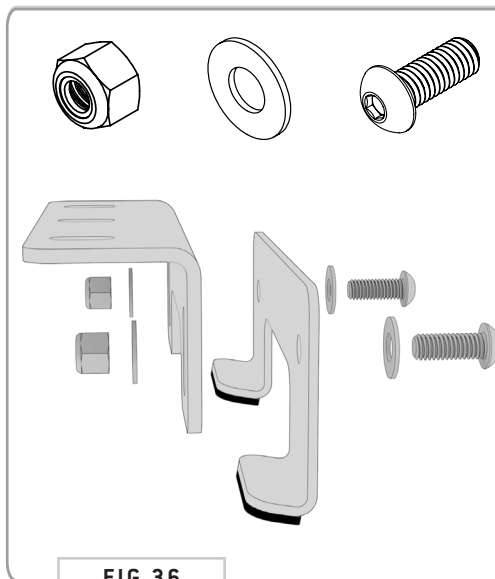


FIG 36

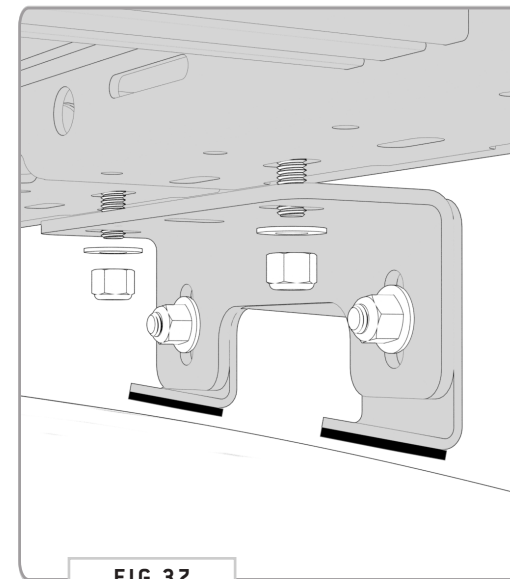


FIG 37

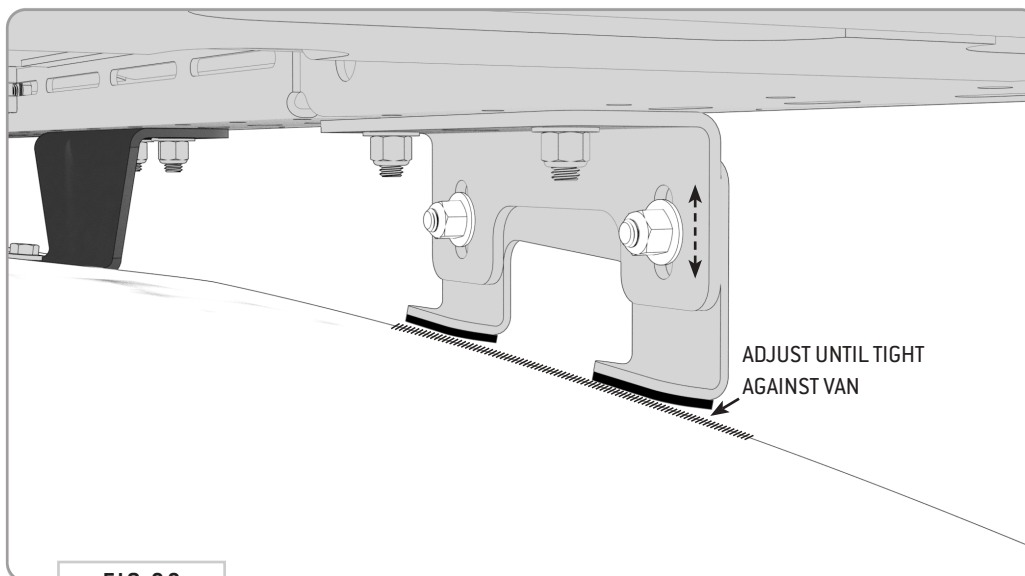


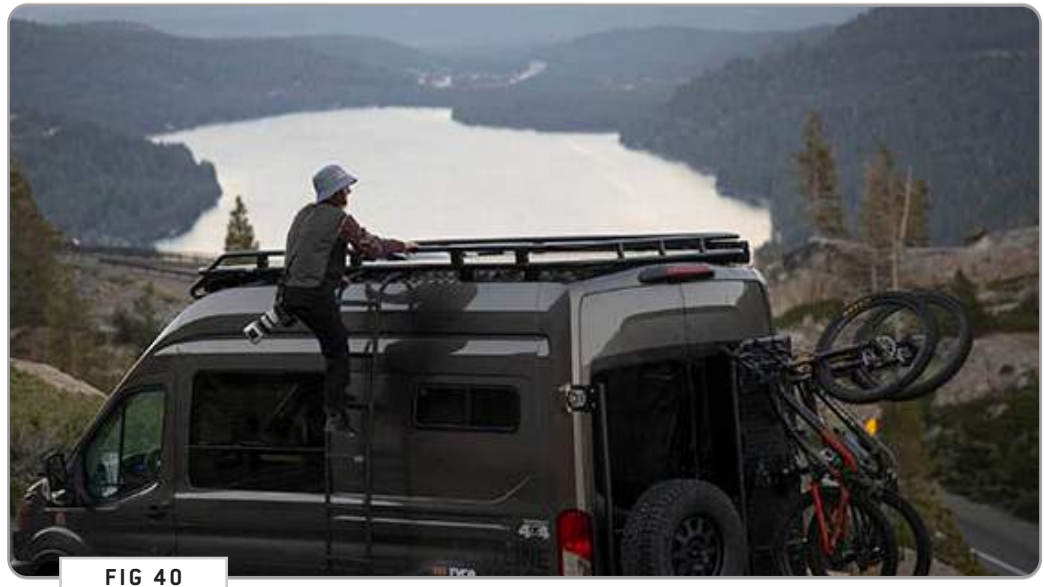
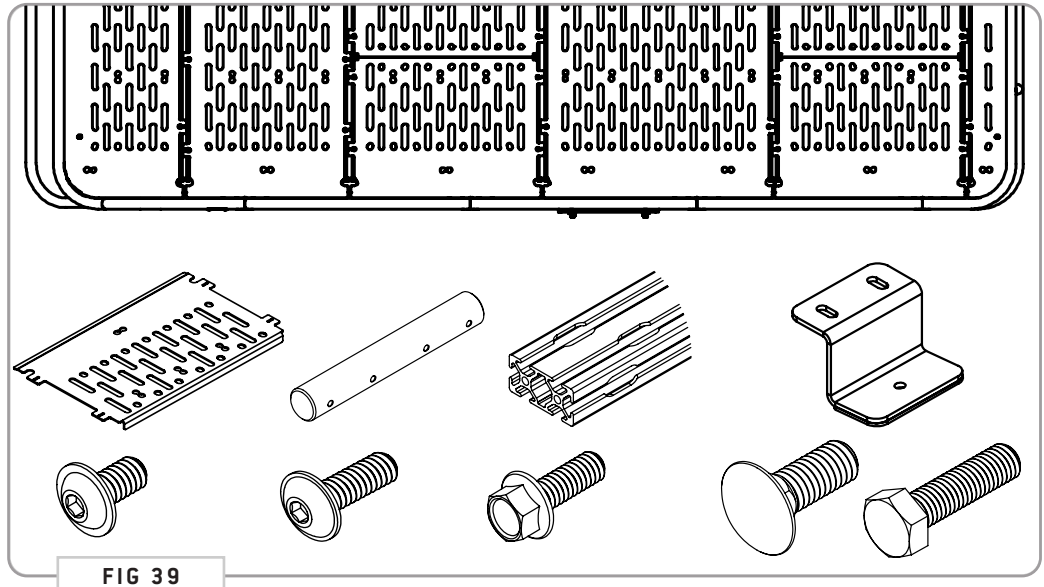
FIG 38

## 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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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



# INSTALLATION GUIDE

## TRANSIT VAN SAFARI RACK - 148" HIGH ROOF EXT (DROP FRONT)

TR0114B



### 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

### 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.

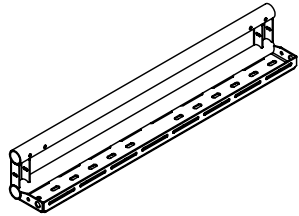
Contact us ASAP if anything is missing at:  
[support@flatlinevanco.com](mailto:support@flatlinevanco.com)

# 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.

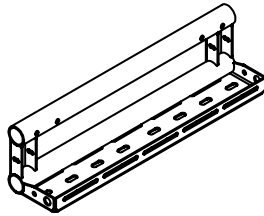


# PACKAGE CONTENTS



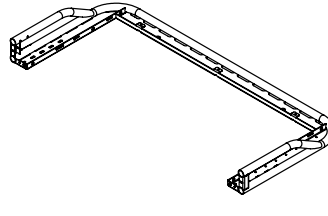
SIDE RAIL (34")

QTY: 4



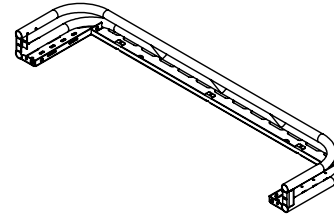
SIDE RAIL (20.5")

QTY: 4



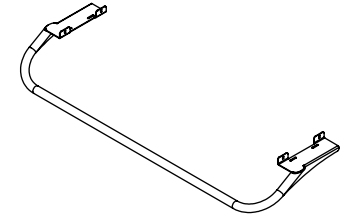
DROP FRONT BASKET

QTY: 1



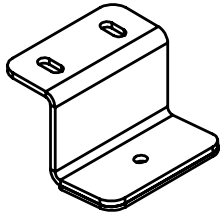
REAR BASKET

QTY: 1



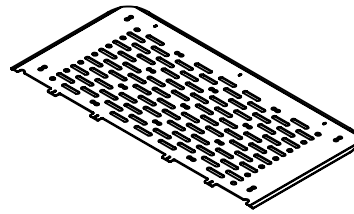
DROP DOWN WELDMENT

QTY: 1



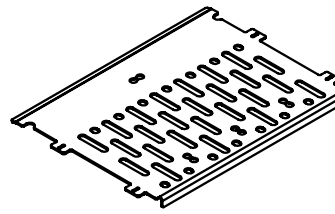
SAFARI FOOT BRACKET

QTY: 10



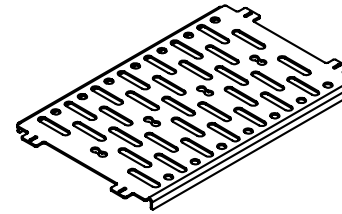
DROP FRONT FLOOR SECTION

QTY: 1



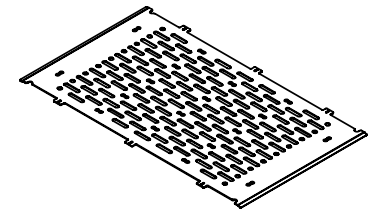
FLOOR SECTION FAN SIDE PANEL

QTY: 4



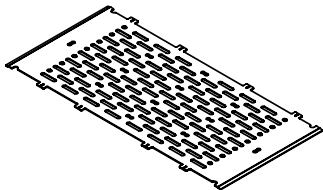
FLOOR SECTION FAN COVER

QTY: 2



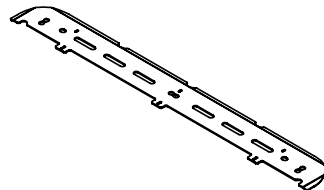
FLOOR SECTION 1

QTY: 1



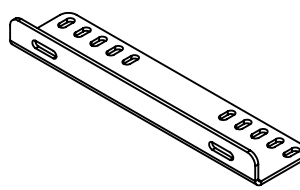
FLOOR SECTION 5

QTY: 1



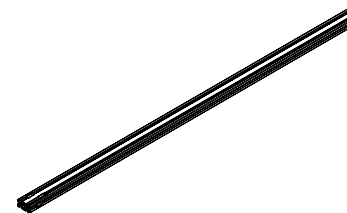
REAR FLOOR SECTION

QTY: 1



SIDE LADDER BRACKET

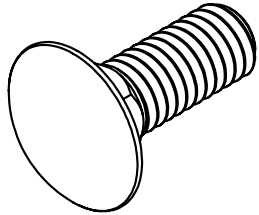
QTY: 1



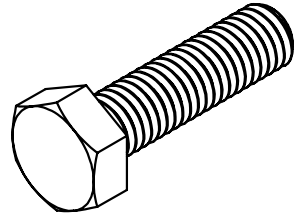
CROSSBAR

QTY: 5

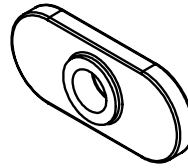
# HARDWARE



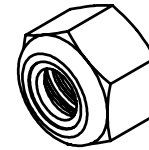
3/8-16 X 1 CARRIAGE BOLT  
QTY: 30



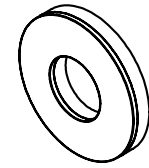
M8-1.25 HEX HEAD SCREW  
QTY: 10



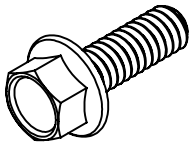
1/4-20 T-NUT  
QTY: 45



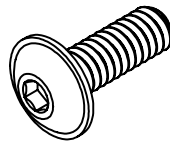
3/8-16 NYLON LOCKNUT  
QTY: 30



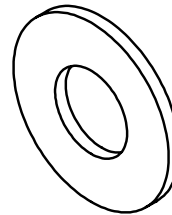
5/16" BONDING SEALING  
WASHERS  
QTY: 10



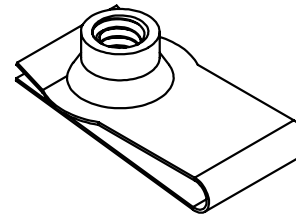
1/4-20 X 0.75 FLANGED HEX  
HEAD SCREW  
QTY: 42



1/4-20 X 0.75 FLANGED BUTTON  
HEAD HEX DRIVE SCREW  
QTY: 46



3/8 SCREW FLAT WASHER  
QTY: 30



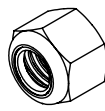
1/4-20 CLIP NUT  
QTY: 6



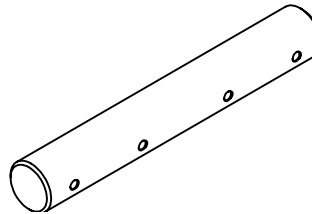
1/4-20 X 0.5 FLANGED BUTTON  
HEAD HEX DRIVE SCREW  
QTY: 45



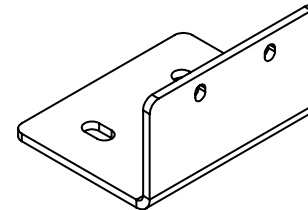
1/4 SCREW FLAT WASHER  
QTY: 22



1/4-20 NYLON LOCKNUT  
QTY: 22



BAYONET  
QTY: 10



F45 AWNING BRACKET  
QTY: 3



# INSTALL

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

## 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).



FIG 1



FIG 2



FIG 3

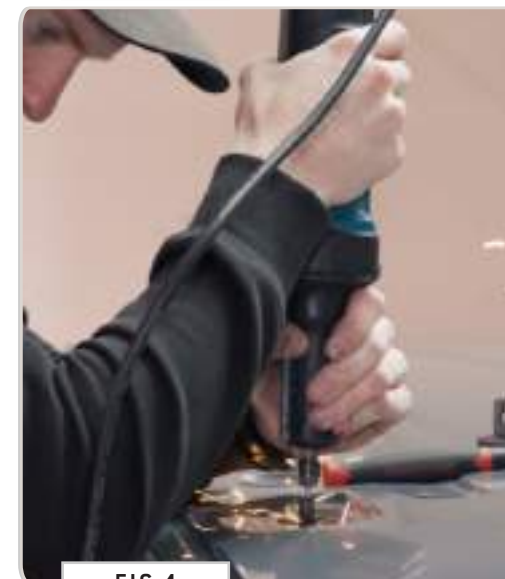


FIG 4

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

## 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)**.

**2.2 Apply Sealant:** Apply a small bead of exterior waterproof sealant around the outside of each landing pad (**FIG 7**).



FIG 5



FIG 6

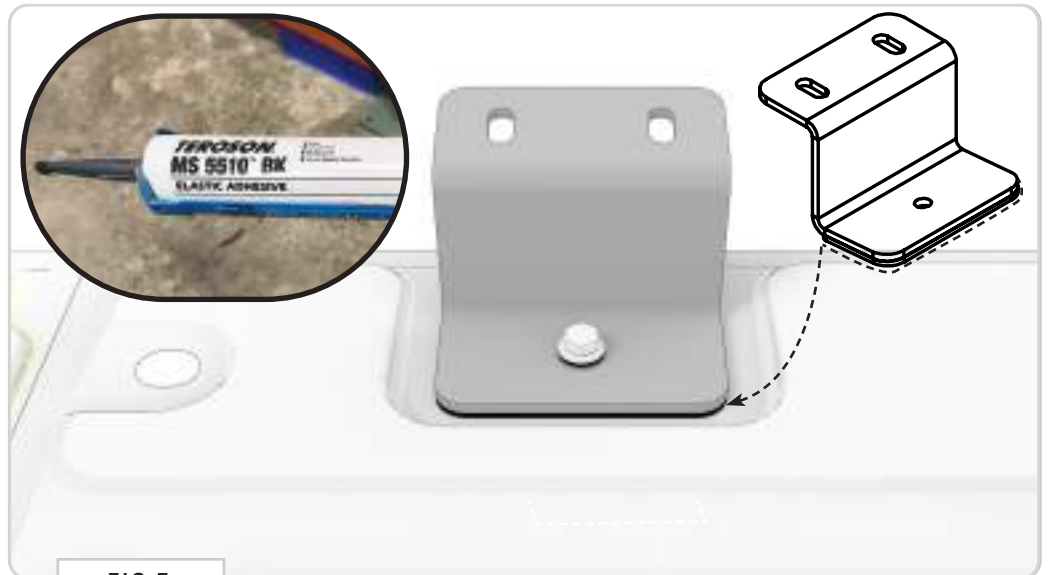


FIG 7

## STEP | 03 SIDE RAIL ASSEMBLY

**3.1 Assemble Side Rails:** Insert a **Bayonet** into the end of a **34" Side Rail (FIG 8+9)** 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 **34" Side Rail** piece to the protruding end of the **Bayonet** and repeat the process on the other side with two **20.5" Side Rails**. See **FIG 8** for layout of components.

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

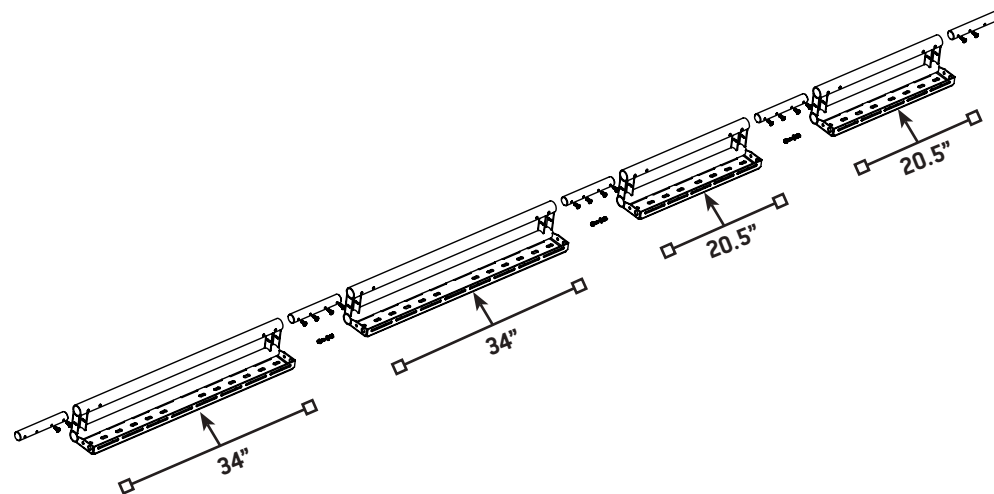


FIG 8



FIG 9

## 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 10**).

**NOTE** - Use clamps to ensure the seams are tight while you tighten the bolts (**FIG 11**).

**TOOLS REQUIRED FOR THIS STEP:**

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



FIG 10



FIG 11

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 12+13.

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

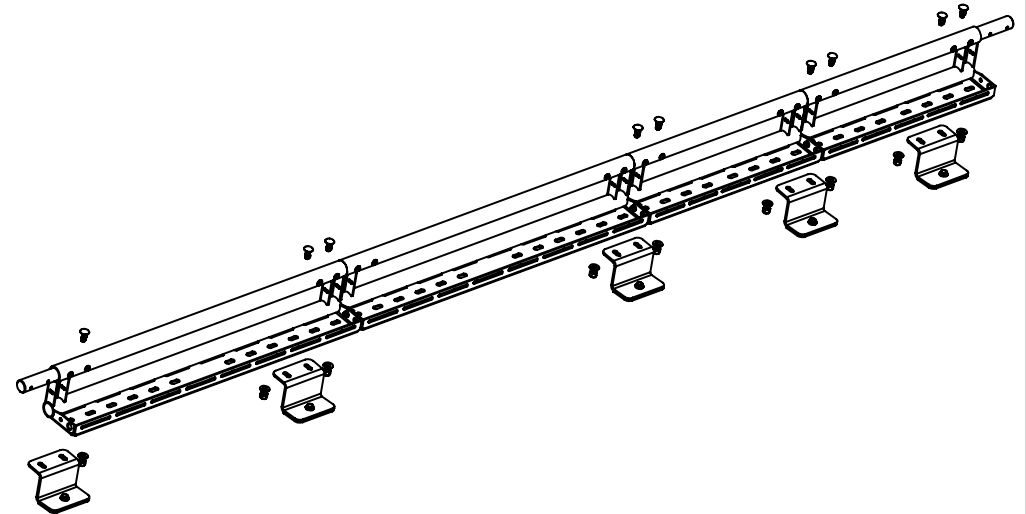


FIG 12

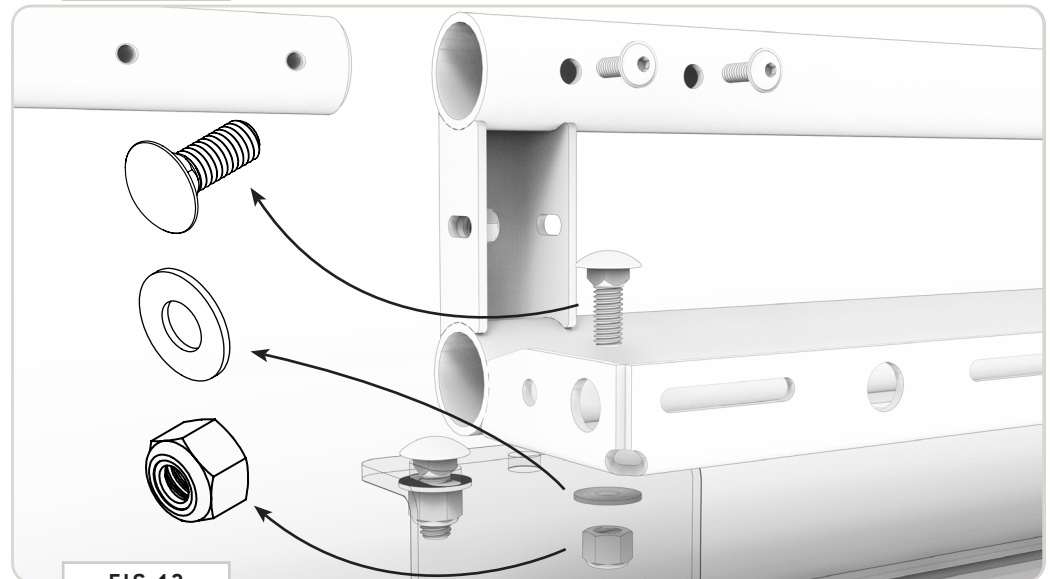


FIG 13

## 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 15).

### TOOLS REQUIRED FOR THIS STEP:

- + 5/32" ALLEN WRENCH
- + QWICK CLAMPS
- + 3/8" WRENCH OR SOCKET
- + 7/16" WRENCH OR SOCKET

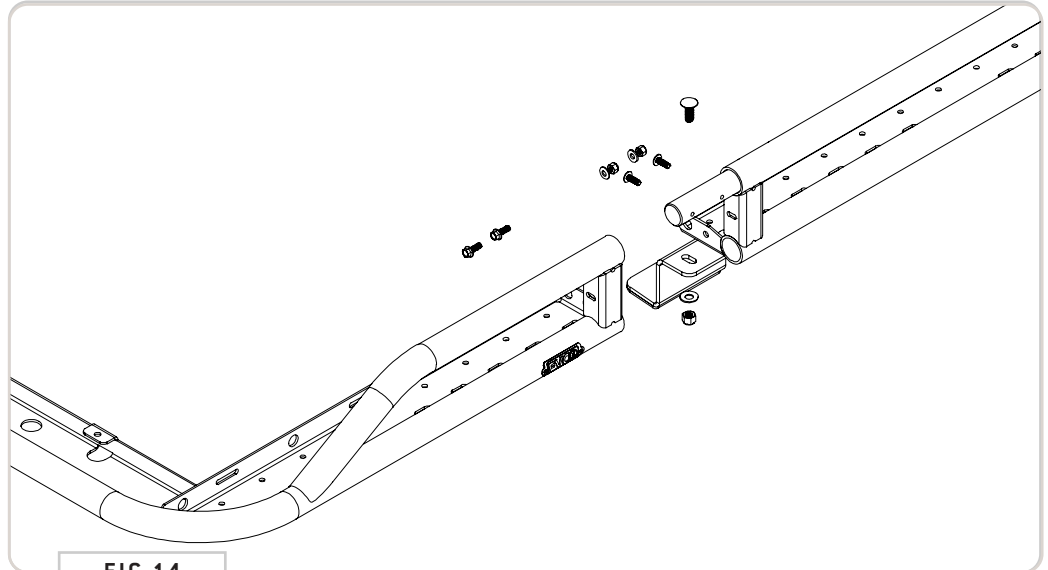


FIG 14



FIG 15

## 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 17 and 18** 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

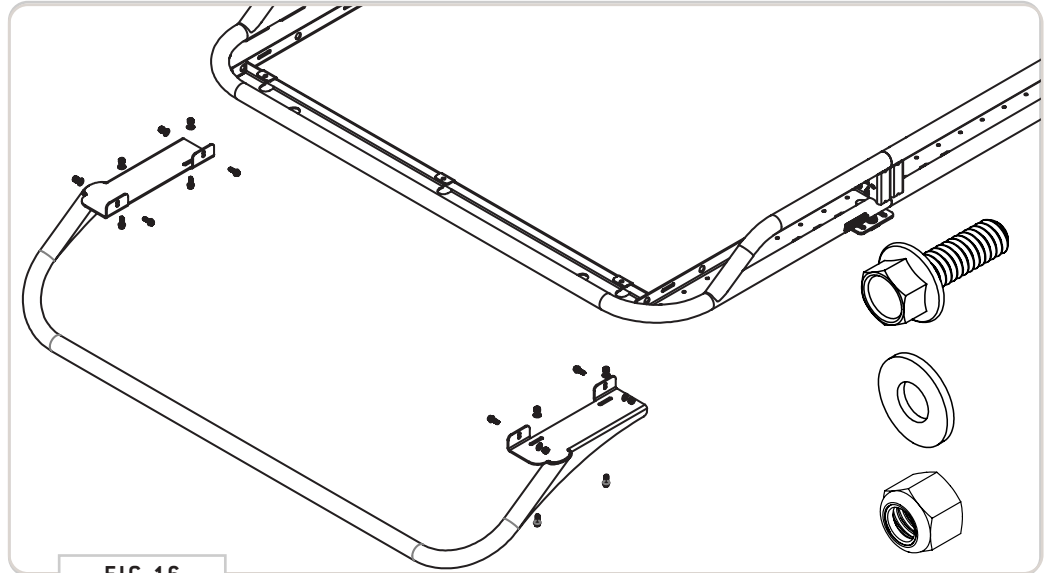


FIG 16

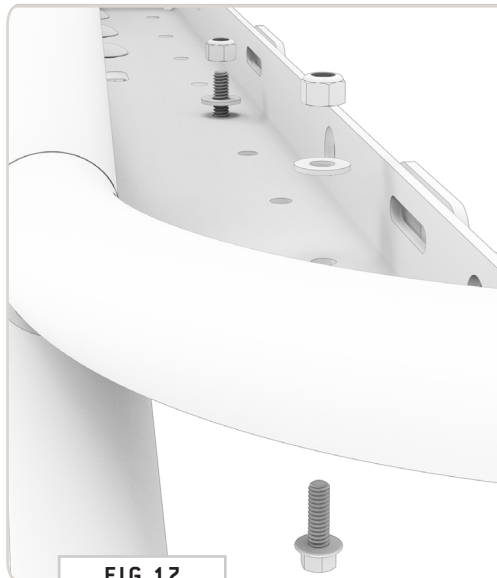


FIG 17



FIG 18



## 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 20 for locations.

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



FIG 19

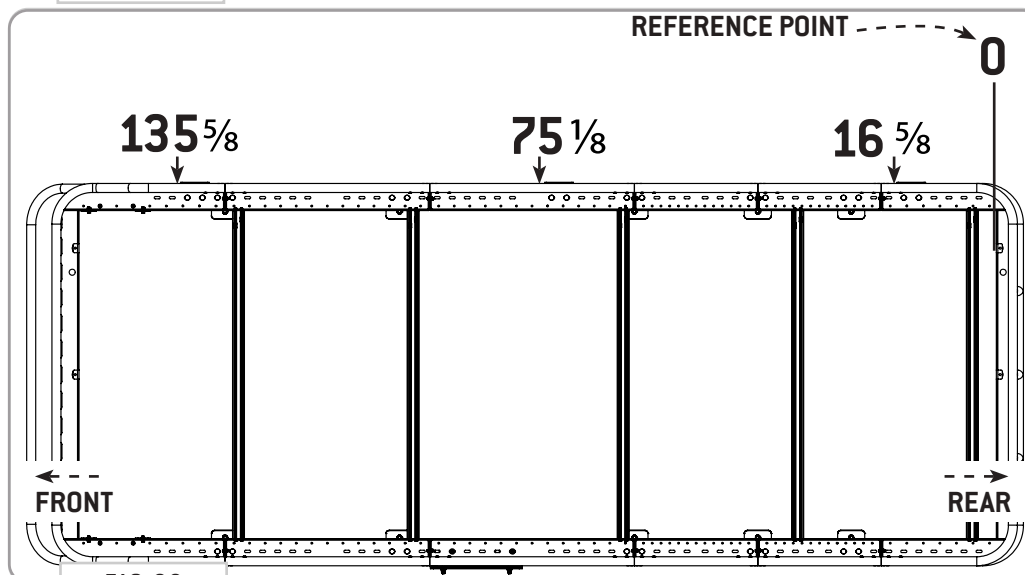


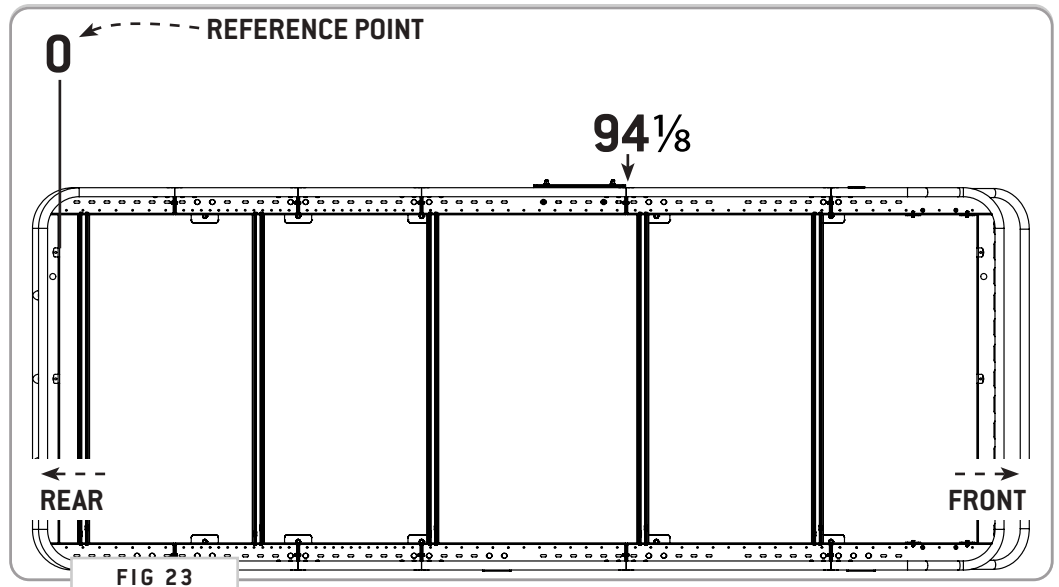
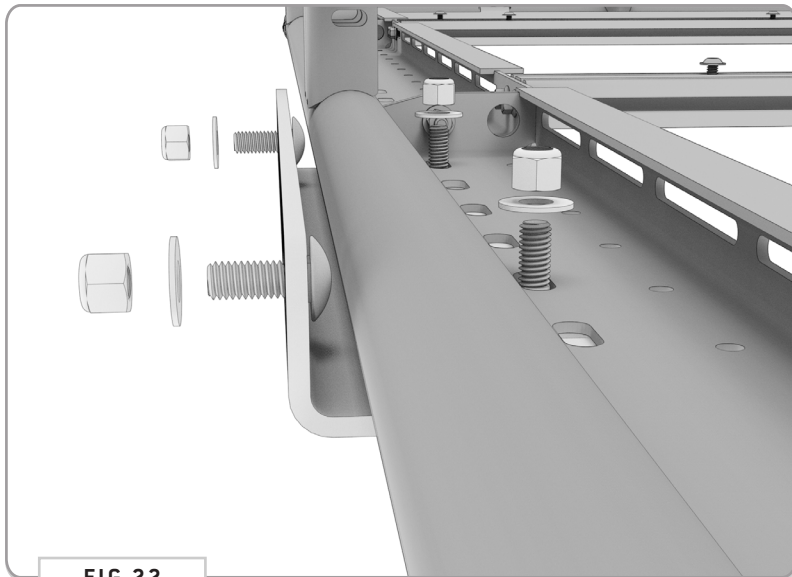
FIG 20

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 21+22** 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.



**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 24), attach Crossbars to the rack in the locations shown in FIG 25. Be sure to measure both sides to ensure that the crossbars are square.

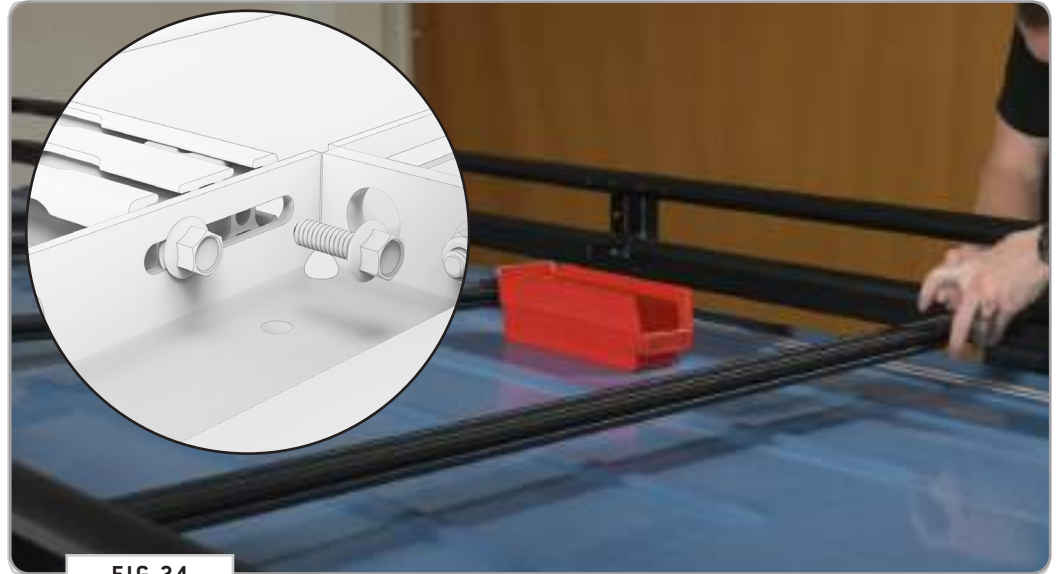


FIG 24

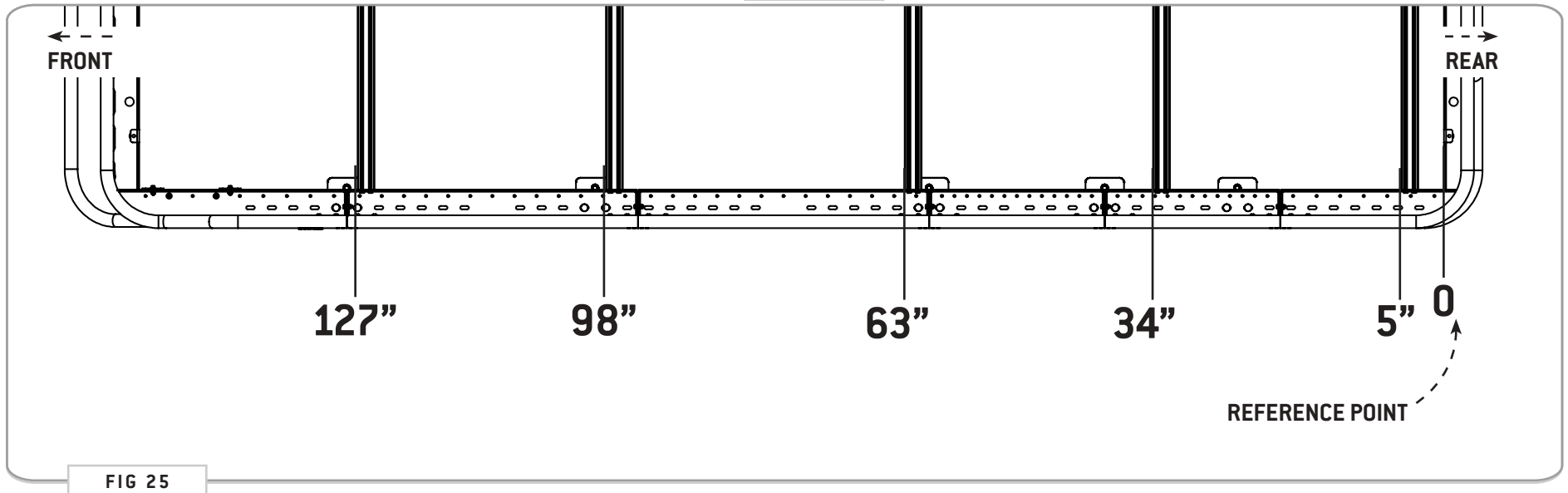


FIG 25

## TOOLS REQUIRED FOR THIS STEP:

### 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 26.

**NOTE** - The flat side of the **Clip Nut** should be facing upwards (FIG 27)

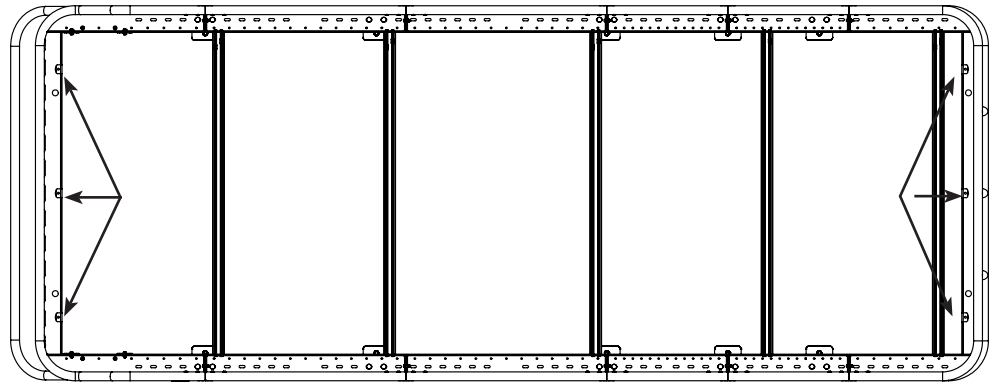


FIG 26

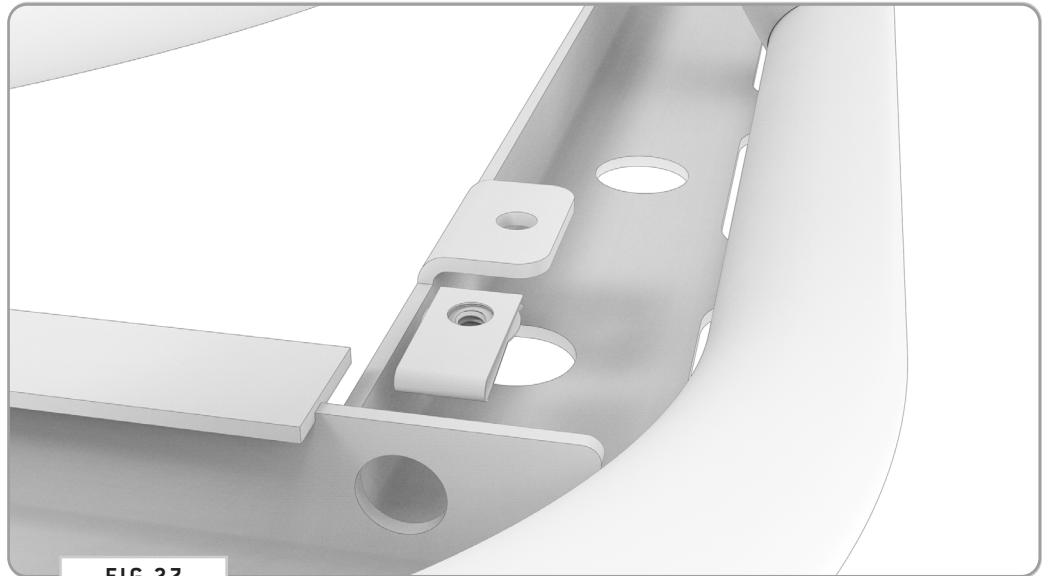


FIG 27

## 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 28**. See **FIG 29** 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**.

### TOOLS REQUIRED FOR THIS STEP:



FIG 28

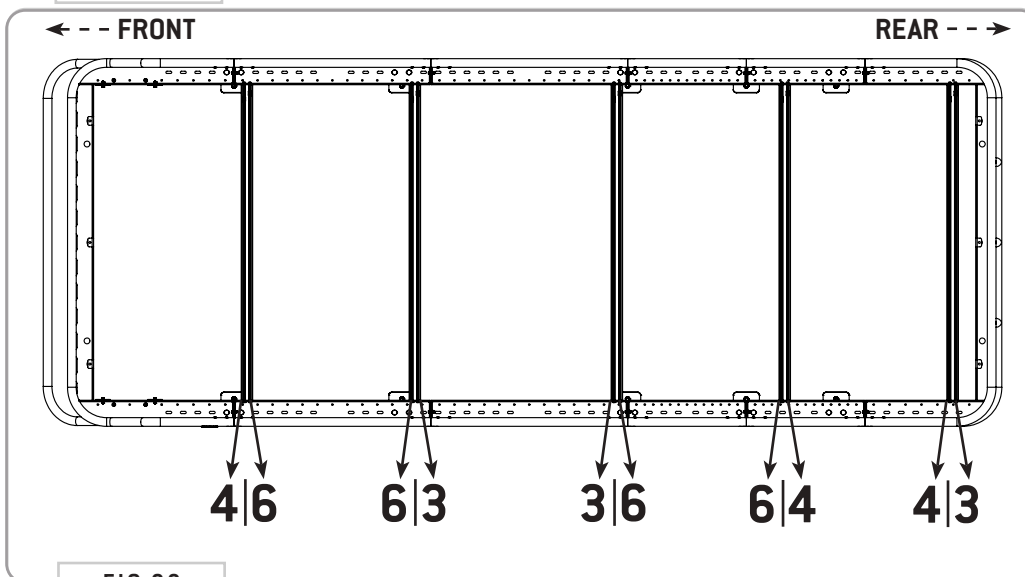


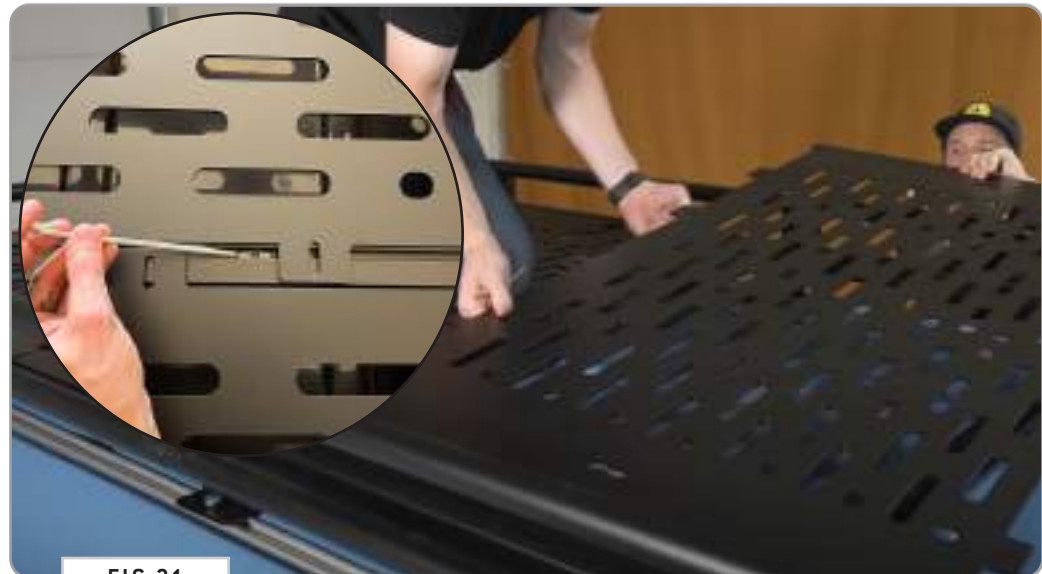
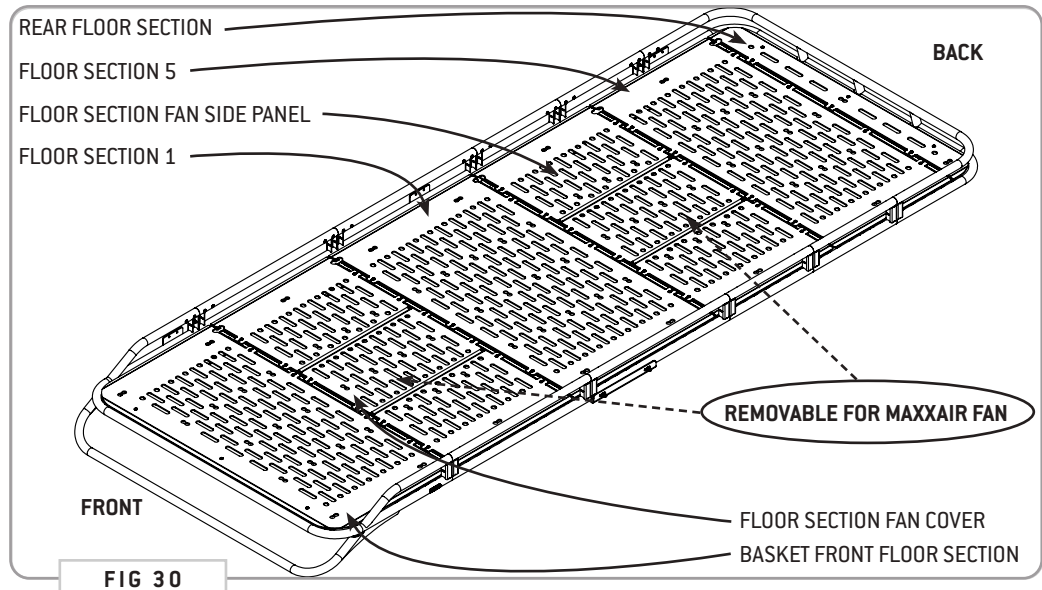
FIG 29

## STEP | 12 INSTALL FLOOR PANELS

**12.1 Install Floor Panels:** Begin to layout your **Decking Panels** along the locations shown in **FIG 30**. Adjust the **T-Nuts** as necessary to line up with the available pill slots of the **Decking Panels** (**FIG 31**).

**NOTE** - "Rear Floor Section 5" is interchangeable with any of the fan panel locations to accommodate varying fan locations on the high roof ext van.

### TOOLS REQUIRED FOR THIS STEP:



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 32). 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 33).



FIG 32

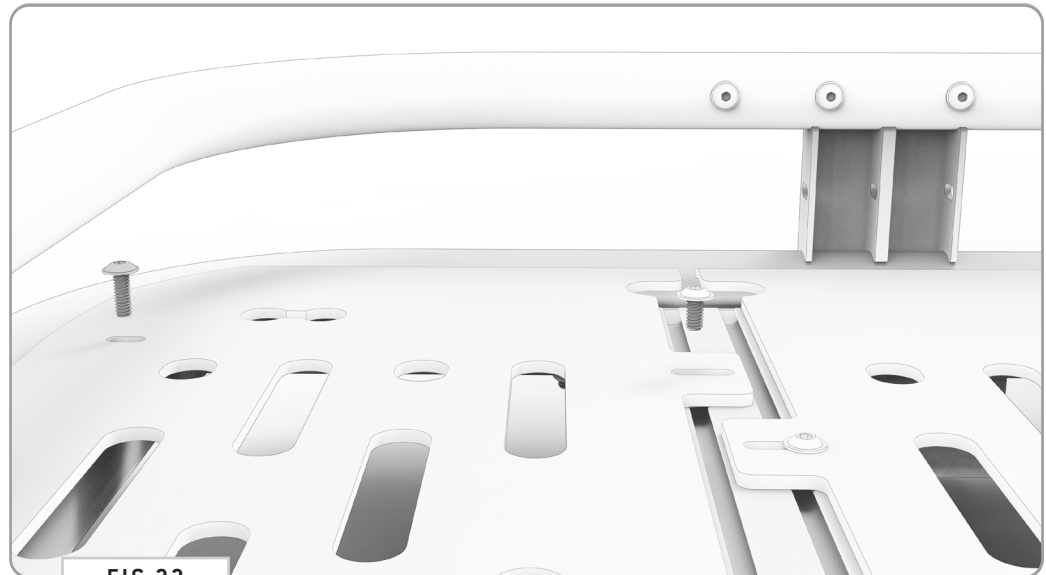


FIG 33

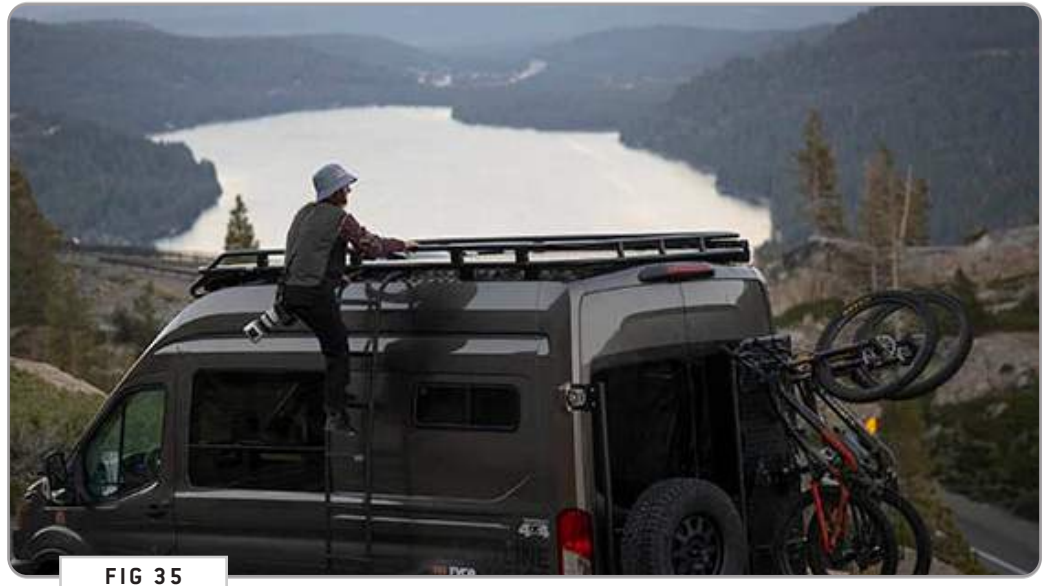
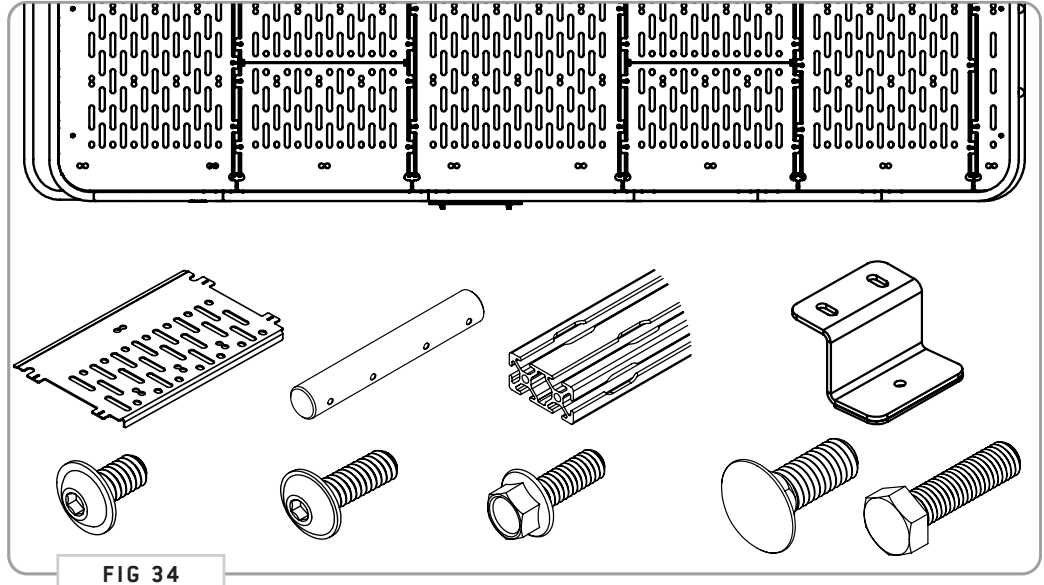


## STEP | 13 FINAL ADJUSTMENTS

**13.1 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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