



Installation Guide



Standard Rack 144 SP0114B

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.

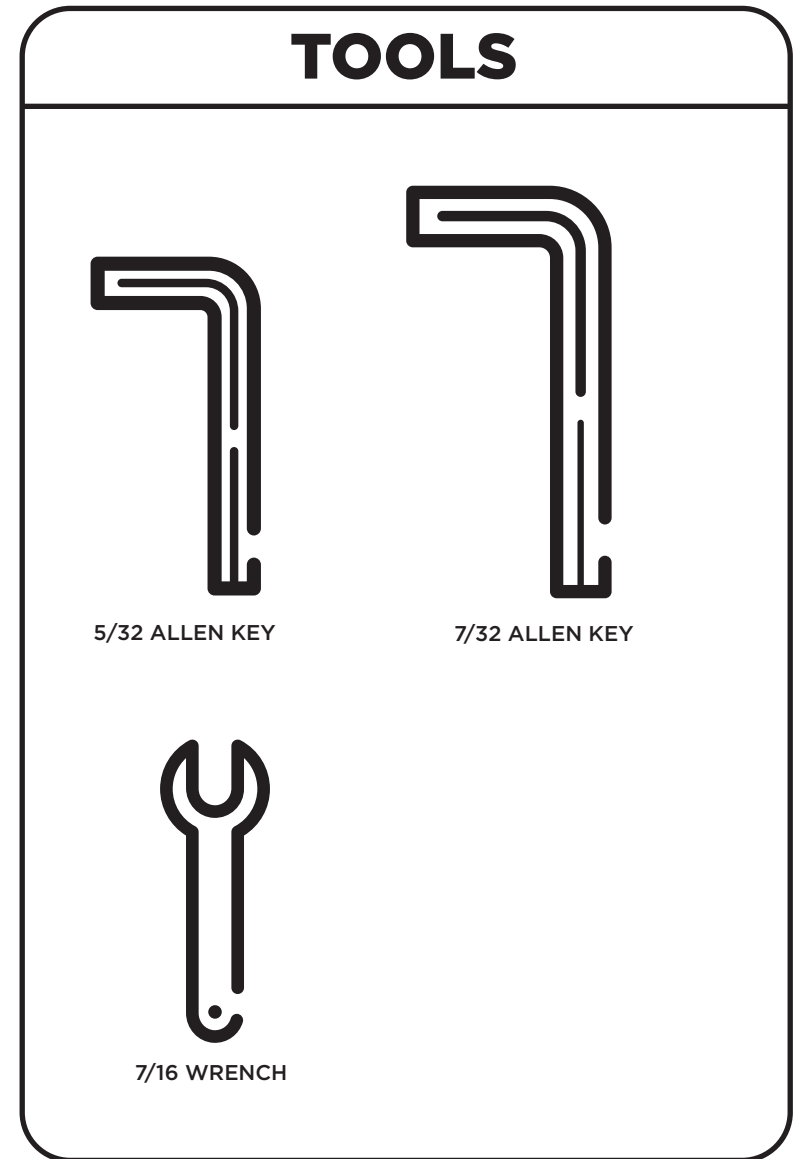


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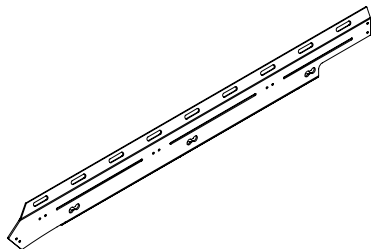
THANK YOU!

ARE YOU EXCITED ABOUT YOUR NEW STANDARD RACK? HERE ARE A FEW THINGS TO DO BEFORE BEGINNING THE INSTALLATION PROCESS--

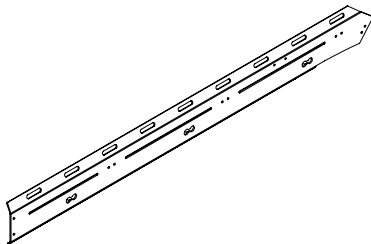
- PLEASE INSPECT THE PRODUCT TO ENSURE THERE WAS NO DAMAGE INCURRED DURING SHIPPING.
- IF THERE IS DAMAGE TO REPORT, PLEASE CONTACT OUR CUSTOMER SERVICE DEPARTMENT AS SOON AS POSSIBLE.
- NEXT, USING THE "PACKAGE CONTENTS" PAGE, CHECK INVENTORY AND FAMILIARIZE YOURSELF WITH THE PARTS AND HARDWARE.
- GATHER ALL TOOLS REQUIRED FOR INSTALL.
 - 5/32 HEX KEY ALLEN WRENCH
 - 7/32 HEX KEY ALLEN WRENCH
 - 7/16 BOX WRENCH OR SOCKET



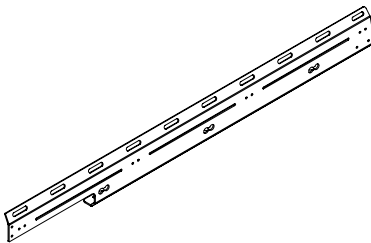
PACKAGE CONTENTS



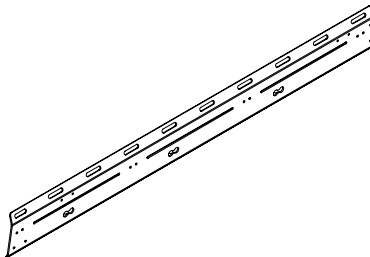
DRIVER FRONT RAIL
QTY-1



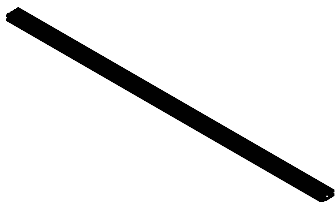
PASSENGER FRONT RAIL
QTY-1



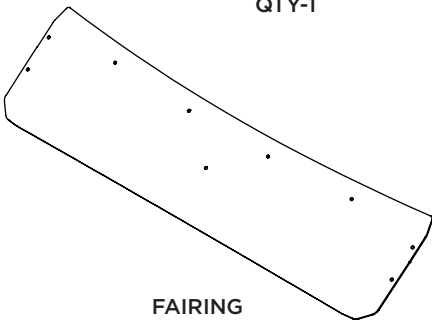
DRIVER REAR RAIL
QTY-1



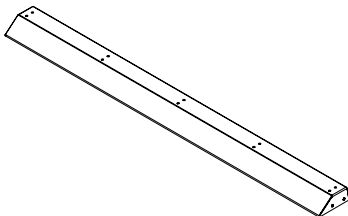
PASSENGER REAR RAIL
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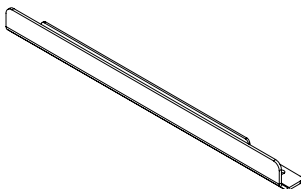
CROSSBAR
QTY-7



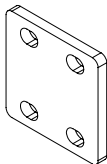
FAIRING
QTY-1



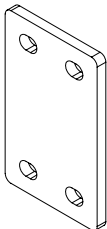
SPOILER
QTY-1



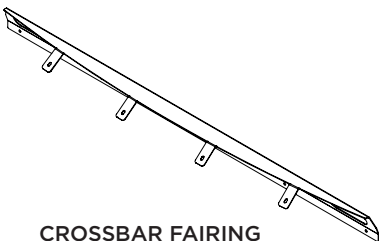
LADDER HATCH
QTY-1



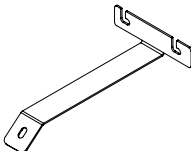
DRIVER SIDE
COUPLER
QTY-1



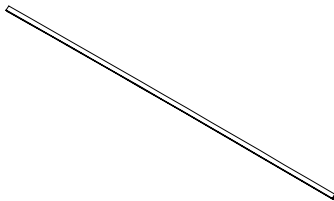
PASSENGER SIDE
COUPLER
QTY-1



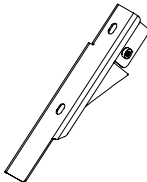
CROSSBAR FAIRING
BRACKET
QTY-1



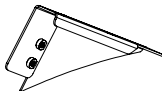
CENTER FAIRING
BRACKET
QTY-1



FAIRING GASKET
QTY-1

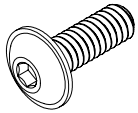


PASSENGER FAIRING
BRACKET
QTY-1

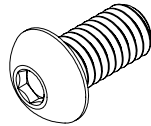


DRIVER FAIRING
BRACKET
QTY-1

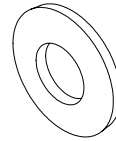
HARDWARE PACK



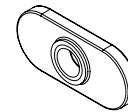
1/4-20 FLANGE
HEAD SCREW
QTY-53



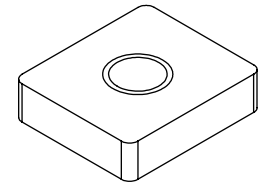
3/8-16 BUTTON
HEAD SCREW
QTY-14



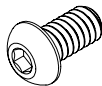
3/8 LOCK WASHER
QTY-14



T-NUT
QTY-16



RAIL NUT
QTY-14



1/4-20 BUTTON
HEAD SCREW
QTY-16



1/4 FLAT
WASHER
QTY-33



1/4 SPRING LOCK WASHER
QTY-16



1/4 NYLOCK
QTY-17

LET'S GET STARTED!

- 1. SLIDE SIX (6) RAIL NUTS INTO THE PASSENGER SIDE FACTORY ROOF RAIL, AND EIGHT (8) INTO THE DRIVER SIDE RAIL.
- 2. SPACE OUT THE RAIL NUTS CLOSE TO THE FINAL POSITION SEE **FIGURE 1** FOR REFERENCE DIMENSIONS.

RAIL NUT

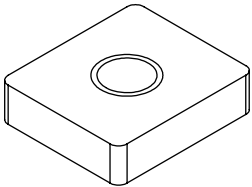
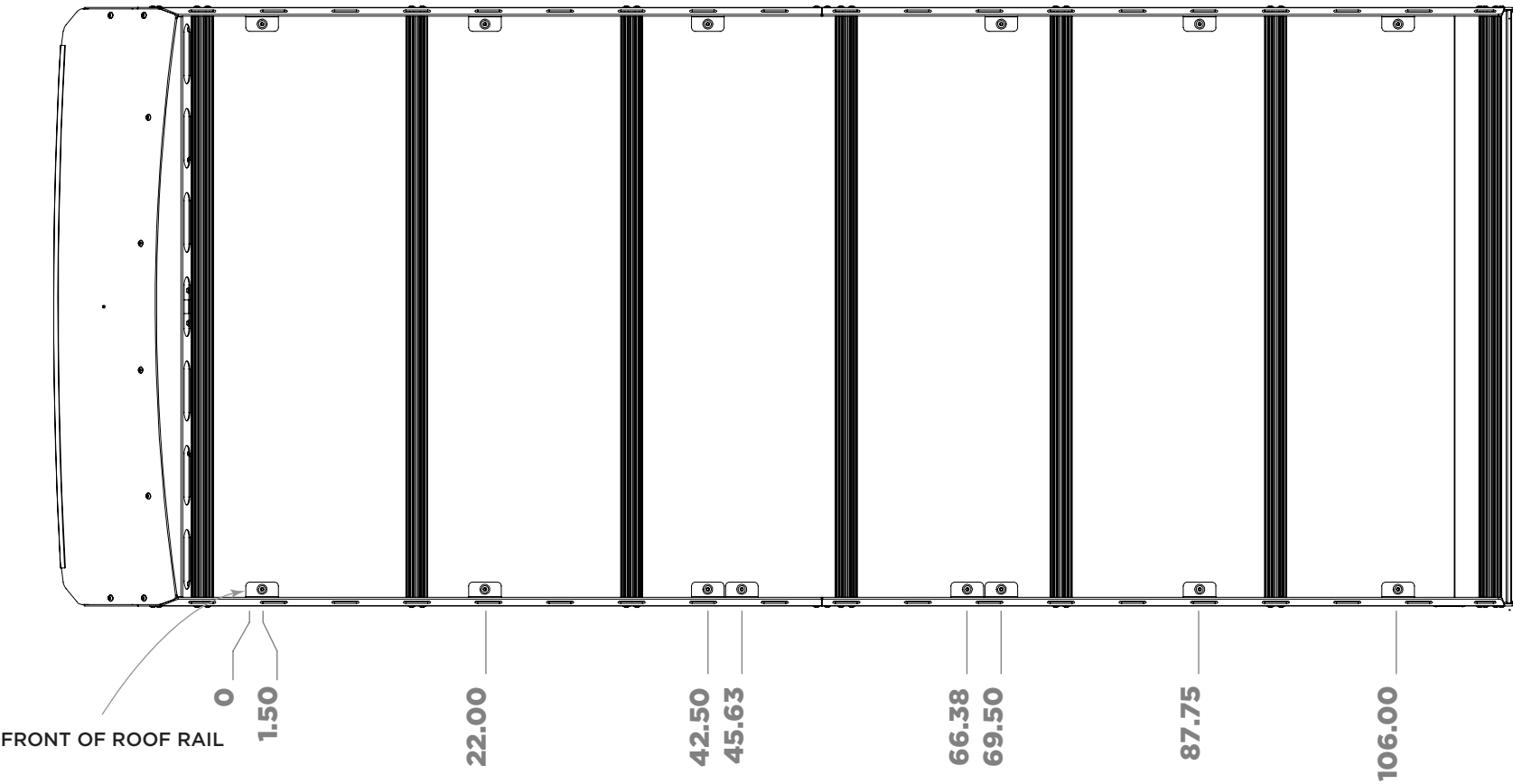


FIGURE 1



USE THESE DIMENSIONS FOR ROUGH REFERENCE ONLY

3. NEXT, WE'RE GOING TO START PUTTING TOGETHER THE FAIRING AND SPOILER SUBASSEMBLIES. GRAB YOUR CROSSBAR FAIRING BRACKET, CENTER FAIRING BRACKET, AND SPOILER AND START LOOSELY THREADING IN THE **1/4-20 BUTTON HEAD SCREW**, **1/4 SPRING LOCK WASHER**, AND THE **T-NUT INSERT** AS SHOWN IN **FIGURE 2** TO THE RIGHT. THE CENTER FAIRING BRACKET SANDWICHES OVER THE CROSSBAR FAIRING BRACKET IN THE CENTER. THERE ARE GUIDE SLOTS TO ASSIST WITH ASSEMBLY. SEE **FIGURE 4** ON THE NEXT PAGE FOR A BETTER VIEW.

ONCE YOU'VE GOTTEN ALL THE HARDWARE THREADED IN, YOU WILL SLIDE THE CROSSBAR ONTO THE FAIRING; HELPING GUIDE THE T-NUTS INTO THE CROSSBAR SLOT AS YOU GO. (SEE **FIGURE 3**)

PRO TIP: YOU ONLY WANT TO ENGAGE A COUPLE THREADS INITIALLY TO KEEP THE HARDWARE AS LOOSE AS POSSIBLE TO EASE SLIDING THE CROSSBAR THROUGH.

CENTER THE CROSSBAR ON THE FAIRING/SPOILER AND TIGHTEN ALL OF THE 1/4-20 BUTTON HEAD SCREWS.

FIGURE 2

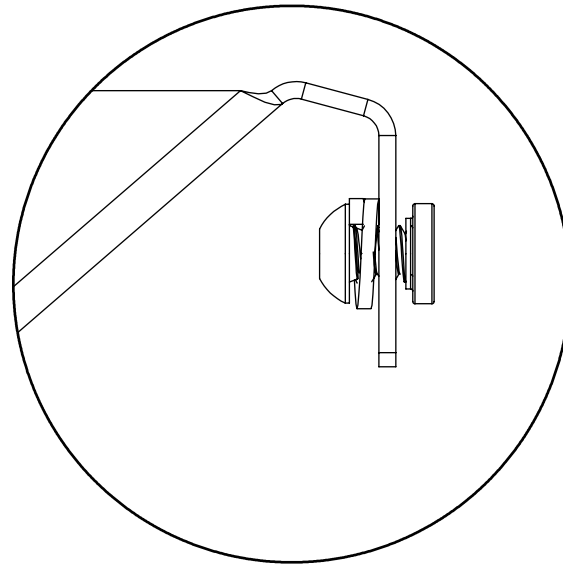
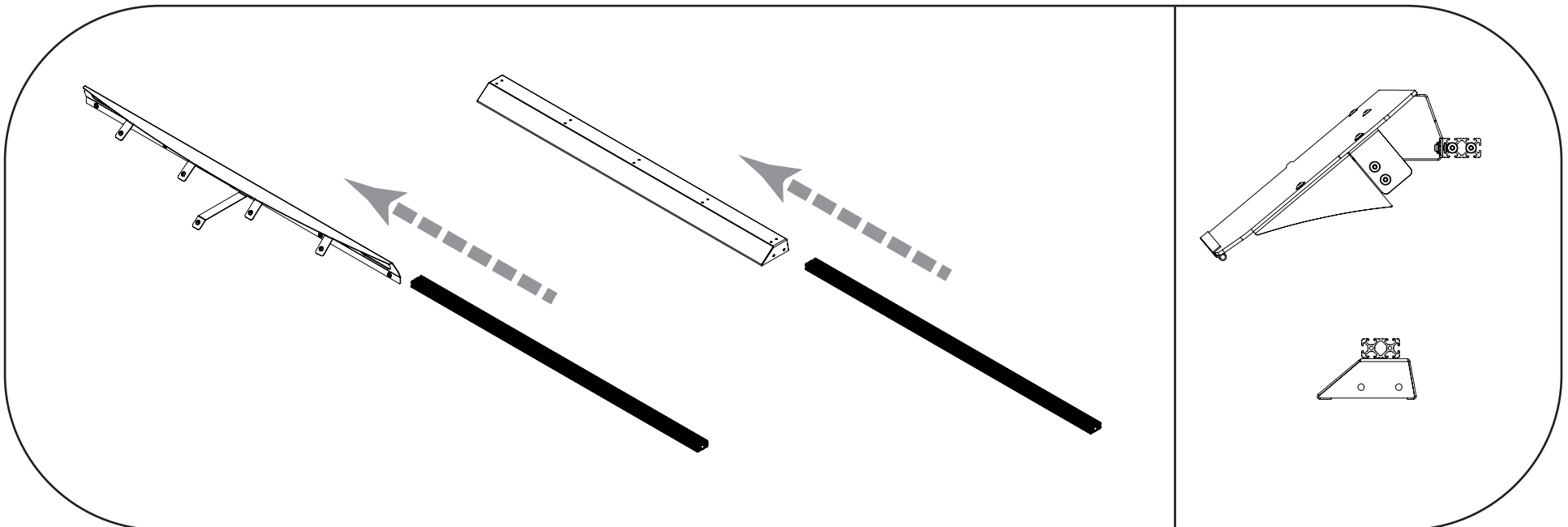


FIGURE 3



4.

NEXT, GRAB THE FAIRING (PLASTIC) AND THE FAIRING GASKET, AND BEGIN INSTALLING THE GASKET BY PRESSING IT ONTO THE LOWER EDGE OF THE FAIRING WITH THE BULB SIDE OF THE GASKET TO THE INSIDE (SHINY SIDE) OF THE PLASTIC. SEE **FIGURE 4 & 5** TO THE RIGHT.

ONCE YOU HAVE THE GASKET INSTALLED, GRAB THE FAIRING ASSEMBLY YOU PUT TOGETHER IN **STEP 3**, THE PLASTIC FAIRING, AND THE PASSENGER AND DRIVER SIDE FAIRING BRACKETS AND BEGIN BOLTING THEM TOGETHER AS SHOWN IN **FIGURE 6** UTILIZING A **1/4-20 FLANGEHEAD SCREW**, **1/4 FLAT WASHER**, AND **1/4 NYLOCK** FOR EACH MOUNTING HOLE. THE WASHER GOES UNDERNEATH THE NYLOCK NUT. DO NOT OVER-TIGHTEN THESE CONNECTIONS; SNUG IS PLENTY! THE MOUNTING HOLES ARE ALL SLOTTED FOR SMALL ADJUSTMENTS THAT MAY NEED TO BE MADE WHEN ATTACHING THE FAIRING ASSEMBLY TO THE ROOF RACK.

FIGURE 7 SHOWS THE FAIRING ASSEMBLY COMPLETE, SET THE FAIRING AND SPOILER ASSEMBLIES ASIDE UNTIL **STEP 7**.

FIGURE 4



FIGURE 5



FIGURE 6

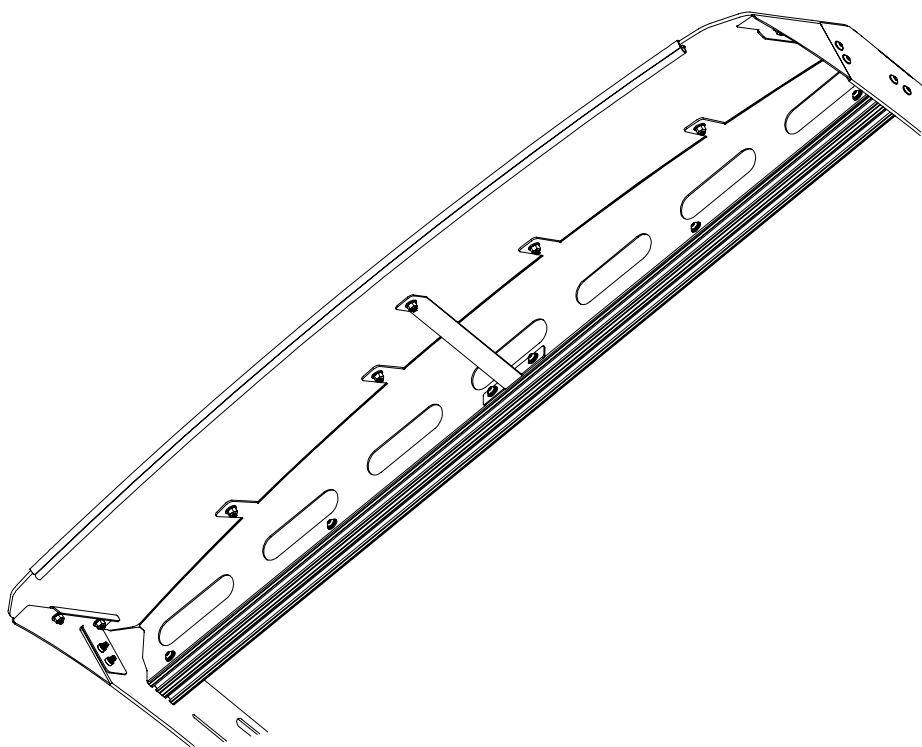
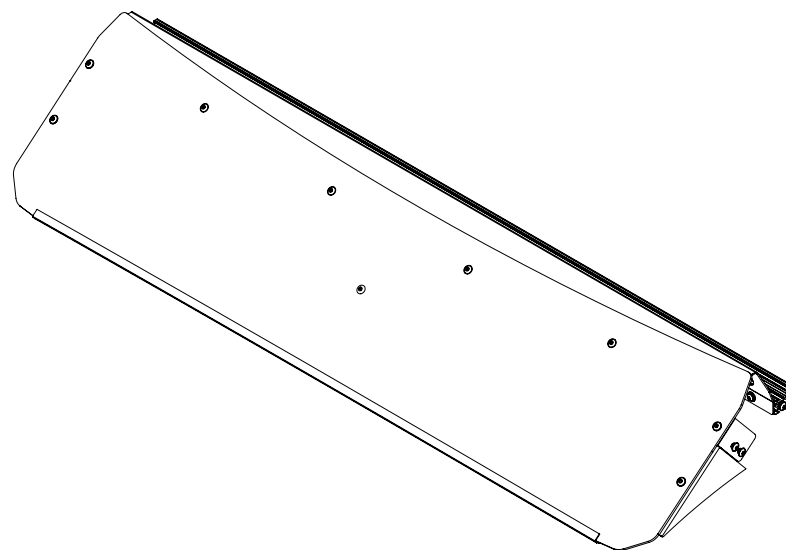


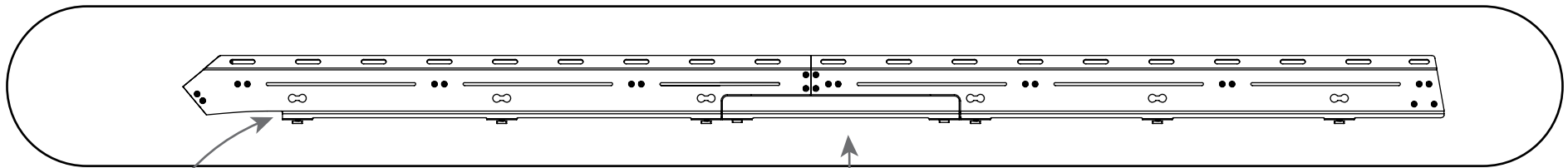
FIGURE 7



5. NEXT STEP IS TO START *LOOSELY* ATTACHING THE SIDE RAILS TO THE ROOF RAILS USING THE **3/8-16 BUTTON HEAD SCREWS** AND **3/8 SPRING LOCK WASHER**, BUT DO NOT TIGHTEN ALL THE WAY DOWN. THIS WILL EASE IN THE ATTACHMENT OF THE CROSSBARS. (SEE **FIGURE 9** FOR DETAIL)

IF YOU ARE INSTALLING A SIDE LADDER WITH YOUR ROOF RACK, DO NOT INSTALL THE LADDER HATCH.

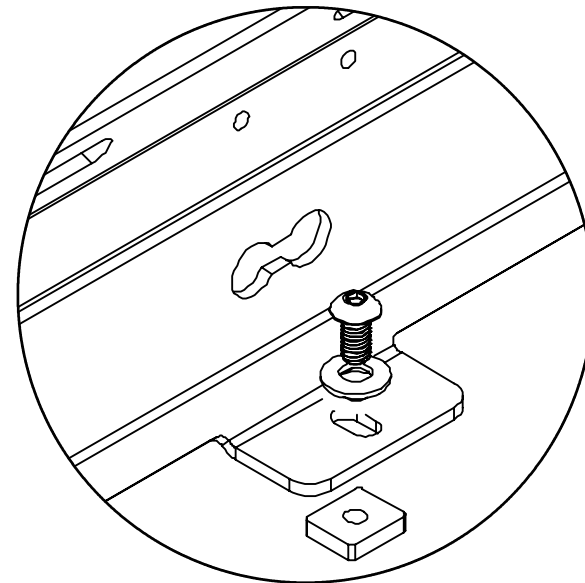
FIGURE 8



LADDER HATCH

NOTE- FRONT "FOOT" OF RACK SHOULD BE AS FAR FORWARD IN ROOF RAIL AS IT CAN GO.

FIGURE 9



6. BEFORE YOU START ADDING CROSSBARS YOU NEED TO ATTACH THE DRIVER AND PASSENGER SIDE COUPLER PLATES. USE EIGHT (8) OF THE PROVIDED 1/4-20 FLANGE HEAD SCREWS, 1/4 FLAT WASHERS, AND 1/4-20 NYLOCK NUTS TO ATTACH THEM TO THE RAILS AS SHOWN IN **FIGURE 10 & 11**

PRO TIP- BUTT THE SIDE RAILS UP TIGHT TO EACH OTHER BEFORE TIGHTENING THE ATTACHMENT SCREWS.

FIGURE 10

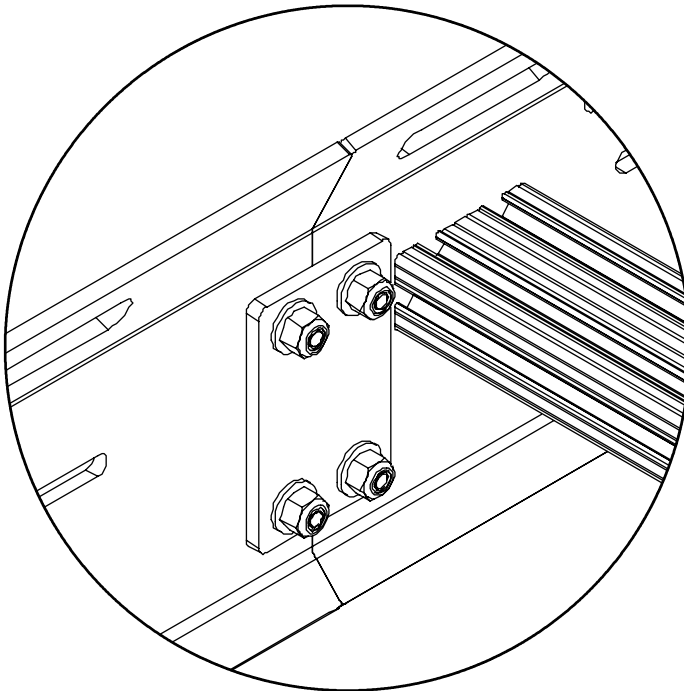
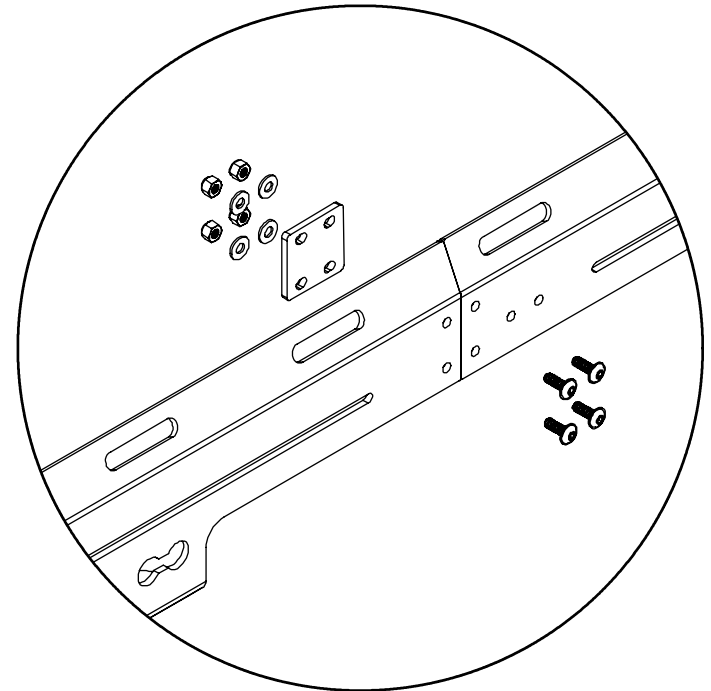


FIGURE 11



7. PLACE YOUR CROSSBARS IN DESIRED LOCATION, LOOSELY BOLTING THE 1/4-20 FLANGE HEAD SCREWS IN PLACE. LEAVE THE REAR MOST FIXED LOCATION OPEN FOR THE SPOILER ASSEMBLY.

NOTE- KEEP IN MIND THE LAYOUT OF YOUR ROOF TOP ARRAY (SOLAR PANELS, FANS, TENTS, ETC.) YOU CAN MOUNT CROSSBARS IN THE SET PAIR OF HOLES (SEE **FIGURE 12**), OR YOU CAN PLACE THEM IN THE SLOTS WHICH PROVIDES YOU MORE FREEDOM OF LAYOUT.

ONCE YOU'VE GOT THE CROSSBARS PLACED WHERE YOU NEED THEM; GRAB THE FAIRING ASSEMBLY AND SLIDE IT IN FROM THE FRONT OF THE RACK (A HAND TO HELP IS RECOMMENDED) AND ATTACH IT IN PLACE WITH EIGHT (8) OF THE 1/4-20 FLANGE HEAD SCREWS. THEN GRAB THE SPOILER ASSEMBLY AND SLIDE IT IN FROM THE BACK OF THE RACK AND ATTACH WITH EIGHT (8) OF THE 1/4-20 FLANGE HEAD SCREWS. (SEE **FIGURE 13**)

FIGURE 12

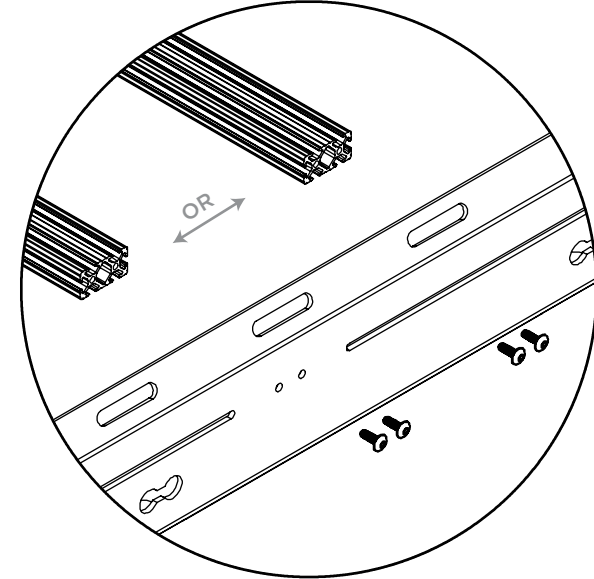
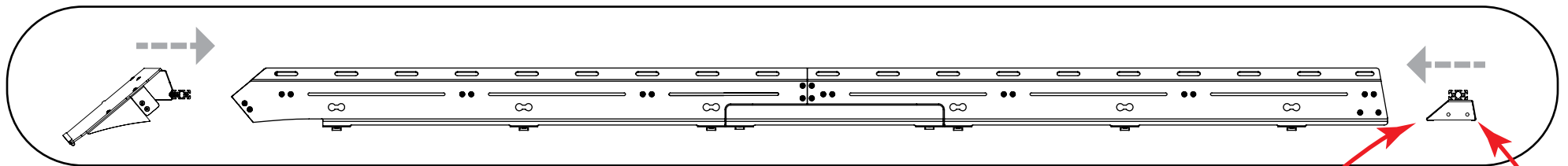


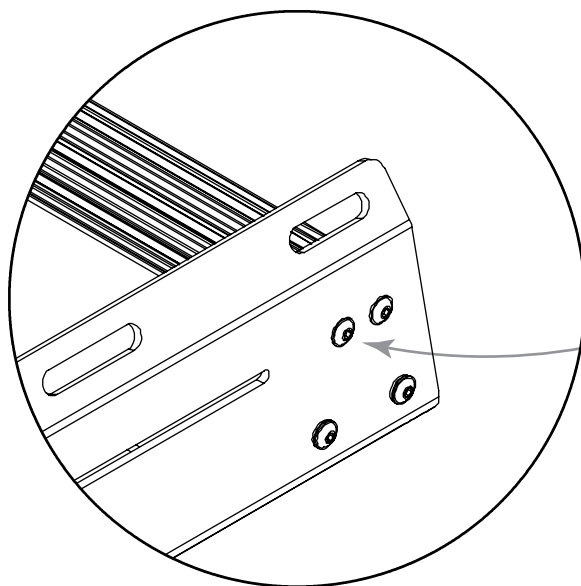
FIGURE 13



LONGER SIDE FACES
FRONT OF VAN

SHOULD BE FLUSH
WITH BACK OF
SIDE RAIL

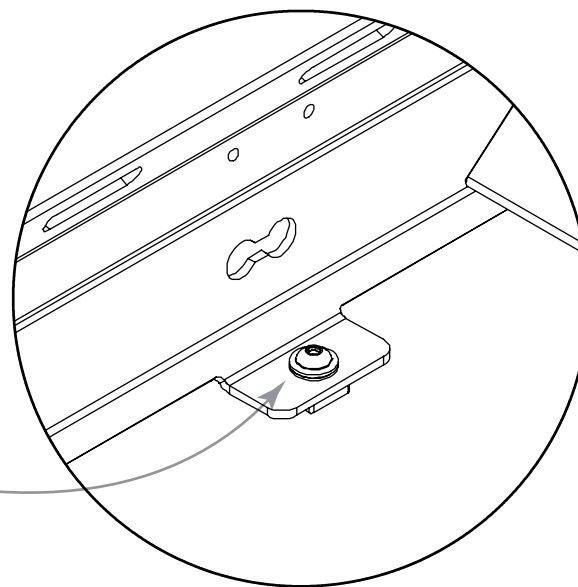
FIGURE 14



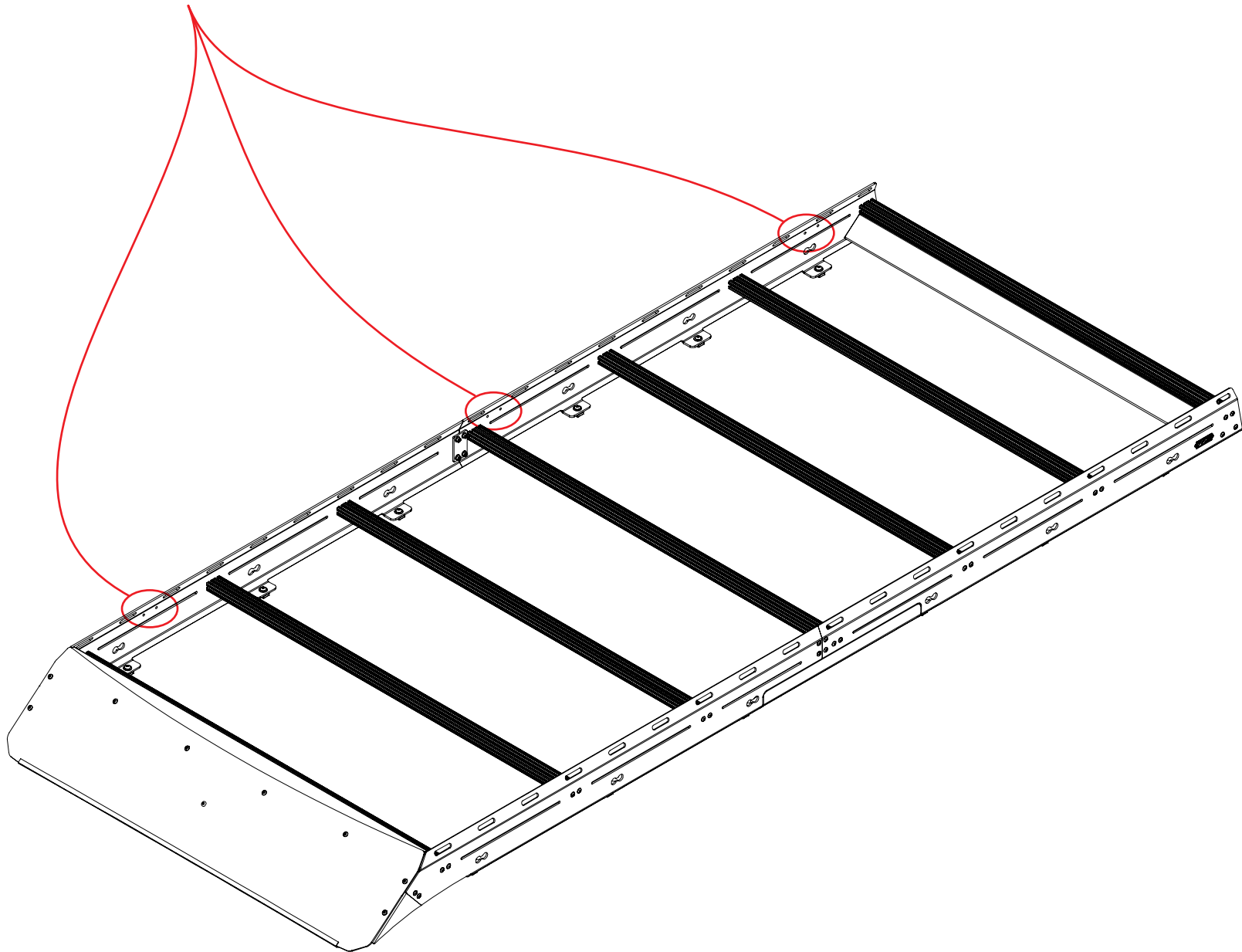
8. TIGHTEN ALL CROSSBAR BOLTS USING THE 5/32 ALLEN KEY (SEE **FIGURE 14**)
NOTE- DO NOT OVERTIGHTEN! IF YOU ARE CONCERNED ABOUT THE BOLTS BACKING OUT, YOU CAN PUT A DAB OF BLUE LOCTITE ON THE BOLTS BEFORE TIGHTENING DOWN COMPLETELY.

8. NOW TIGHTEN SIDE RAILS TO ROOF RAIL USING THE 7/32 ALLEN KEY (SEE **FIGURE 15**)

FIGURE 15



9. IF INSTALLING A FIAMMA F45S OR SIMILAR AWNING; WE HAVE CONVENIENTLY PLACED MOUNTING HOLES AS SHOWN BELOW IN FIGURE 12 FOR YOU TO BOLT YOUR SUPPORT BRACKETS TO; MAKING INSTALLATION A BREEZE!



GET OUT AND EXPLORE!

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

SHARE YOUR PHOTOS WITH US

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!

CUSTOMER SUPPORT

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



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thanks!