



INSTALLATION GUIDE

WINNEBAGO EKKO REAR BUMPER

WB1101B



TOOLS REQUIRED (NOT INCLUDED)

- | | |
|---------------------------|--------------------|
| + PHILLIPS SCREWDRIVER | + POWER DRILL |
| + 7/16" WRENCH AND SOCKET | + 39/64" DRILL BIT |
| + 9/16" WRENCH AND SOCKET | + 5/8" DRILL BIT |
| + 3/4" WRENCH AND SOCKET | + DEBURR TOOL |
| + 5/32" ALLEN WRENCH | + WIRE STRIPPERS |
| + 7/32" ALLEN WRENCH | + FLUSH CUTTERS |
| + IMPACT DRIVER | |

INSTALL INFO

TIME TO INSTALL THIS PRODUCT: 2 HOURS

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

BEFORE YOU START

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

Contact us ASAP if anything is missing at:

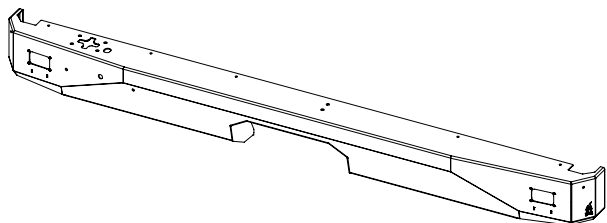
support@flatlinevanco.com

BEFORE YOU START

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

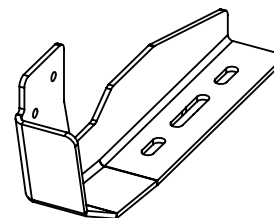


PACKAGE CONTENTS



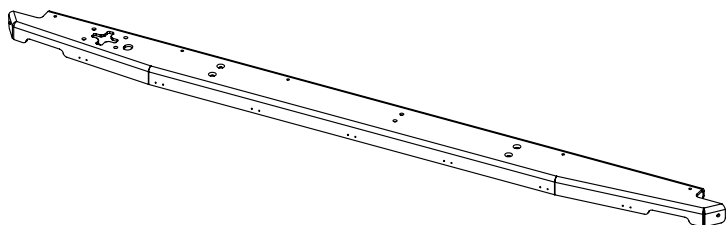
EKKO REAR BUMPER SKIN
ASSEMBLY

QTY: 1



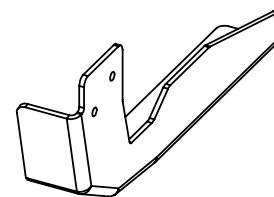
LEFT SIDE MOUNTING
BRACKET

QTY: 1



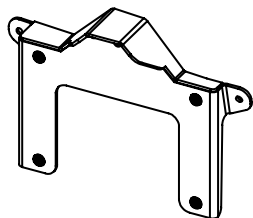
EKKO REAR PIVOT
MOUNTING PLATE

QTY: 1



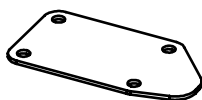
RIGHT SIDE MOUNTING
BRACKET

QTY: 1



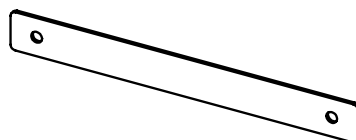
LICENSE PLATE BRACKET

QTY: 1



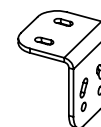
TIRE CARRIER COVER

QTY: 1



BACKER PLATE

QTY: 2



PIVOT MOUNTING PLATE

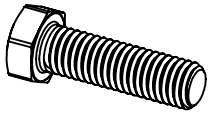
QTY: 2



TUBE SPACER

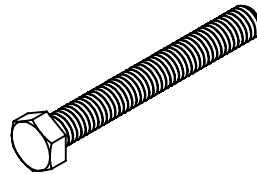
QTY: 4

HARDWARE



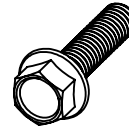
1/2-13 x 1.75 HEX HEAD
SCREW

QTY: 4



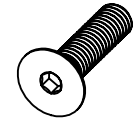
3/8-16 x 3 HEX HEAD
SCREW

QTY: 4



3/8-16 x 1.5 FLANGED HEX
HEAD SCREW

QTY: 4



3/8-16 x 1.5 FLAT HEAD HEX
DRIVE SCREW

QTY: 4



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

QTY: 6



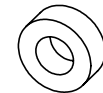
1/4-20 x 0.75 BUTTON HEX
DRIVE SCREW

QTY: 13



M3-0.05 x 12MM FLAT HEAD
PHILLIPS SCREW

QTY: 2



1/2" x 3/16" SPACER

QTY: 4



RUBBER GROMMET

QTY: 1



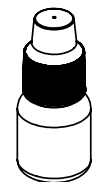
24MM PANEL PLUG

QTY: 2



7.5" CABLE TIE

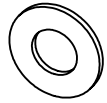
QTY: 10



THREADLOCKER

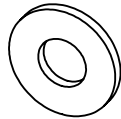
QTY: 1

HARDWARE



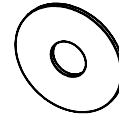
1/4 FLAT WASHER

QTY: 9



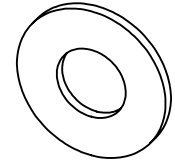
1/2 FLAT WASHER

QTY: 8



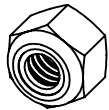
3/8 FENDER WASHER

QTY: 6



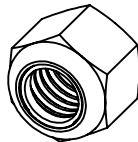
3/8 FLAT WASHER

QTY: 18



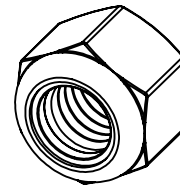
1/4 NYLON INSERT
LOCKNUT

QTY: 9



3/8 NYLON INSERT
LOCKNUT

QTY: 18



1/2 NYLON INSERT
LOCKNUT

QTY: 4

INSTALL

STEP | 01 REMOVE EKKO BUMPER

1.1 Park and Prep Van: Before beginning the installation, park your vehicle on a flat, level surface, turn off the engine, and engage the parking brake (**FIG 1**).

TOOLS REQUIRED FOR THIS STEP:



FIG 1

STEP | 01 REMOVE EKKO BUMPER

1.2 Remove License Plate Light Housing: Using a **Phillips Head Screwdriver**, back out and remove the (2) screws holding the factory **License Plate Light Housing** in place (**FIG 2**).

1.3 Remove License Plate Bracket: Remove the (2) screws securing the factory **License Plate Bracket** and **License Plate** to the bumper and set the license plate aside for now (**FIG 3**).

1.4 Disconnect License Plate Light: Disconnect the license plate light wiring from the factory harness (**FIG 4**).

IMPORTANT: *Note the specific color mapping between the factory wires and the light leads so you can replicate the correct configuration during reassembly.*



FIG 2



FIG 3

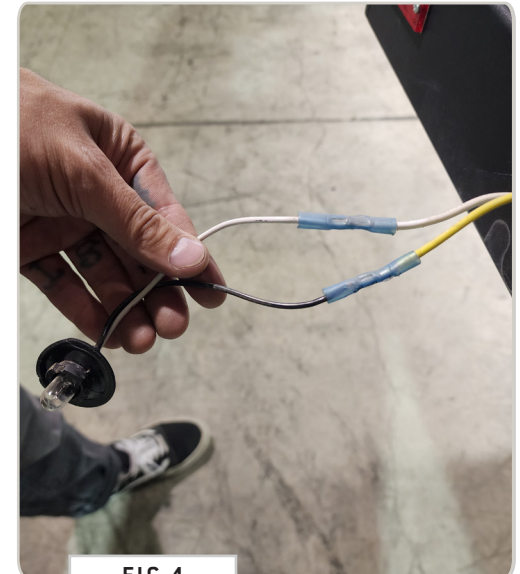


FIG 4

TOOLS REQUIRED FOR THIS STEP: + 3/4" WRENCH AND SOCKET

STEP | 01 REMOVE EKKO BUMPER

1.5 Remove Ekko Bumper: Locate the four primary securing bolts that mount the factory **Winnebago Ekko Rear Bumper** to the van body. Remove all bolts and carefully detach the OEM bumper (FIG 5-7).

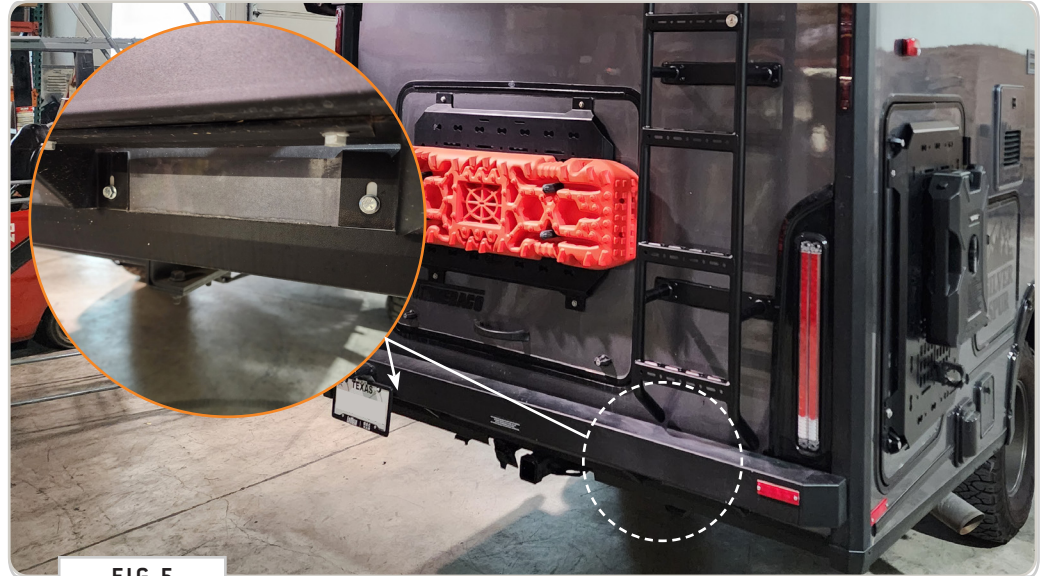


FIG 5



FIG 6

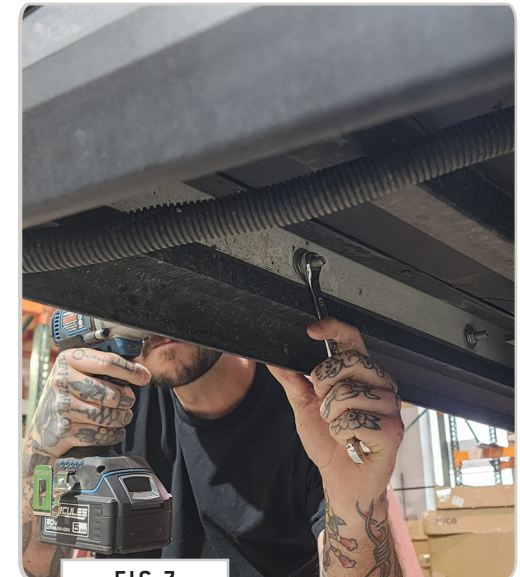


FIG 7

TOOLS REQUIRED FOR THIS STEP: + POWER DRILL
+ 39/64" DRILL BIT

STEP | 01 REMOVE EKKO BUMPER

1.6 Drill Out Factory Holes: Locate the factory rear mounting holes on the frame. Using a **Drill** and **39/64" Bit**, open up the holes to provide required clearance for the provided custom **Tube Spacers** (FIG 8).

1.7 Insert Tube Spacers: Clean up debris and insert the (4) **Aluminum Tube Spacers** into the drilled out holes (FIG 9).



FIG 8



FIG 9

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

STEP | 02 INSTALL FVC BUMPER

2.1 Assemble Mounting Brackets: Prior to mounting to the vehicle, assemble the **Left and Right Mounting Brackets** by loosely attaching a **Pivot Mounting Plate** in the orientation shown to each bracket using **3/8-16 x 1.5 Flanged Hex Head Screws, Flat Washers and Nylon Locknuts** (FIG 10-11).

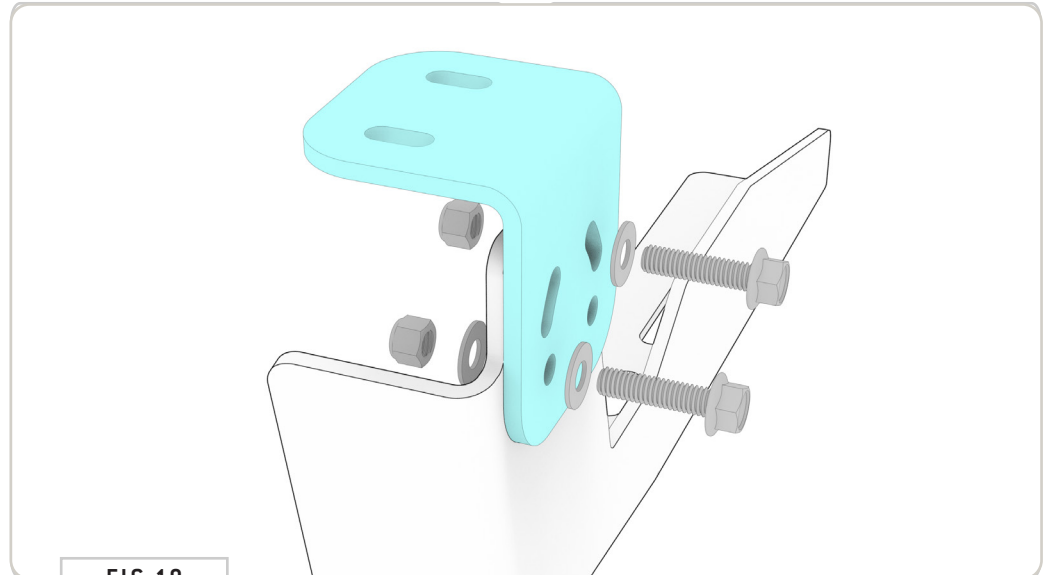


FIG 10



FIG 11

TOOLS REQUIRED FOR THIS STEP: + 3/4" WRENCH AND SOCKET

STEP | 02 INSTALL FVC BUMPER

2.2 Remove Factory Hitch Receiver Hardware: Locate the vehicle's hitch receiver along the underside of the van body. Using a socket and ratchet, remove the two forward-most factory hitch bolts. Discard these bolts, as they will be replaced with longer hardware in the next step (FIG 12-13).



FIG 12

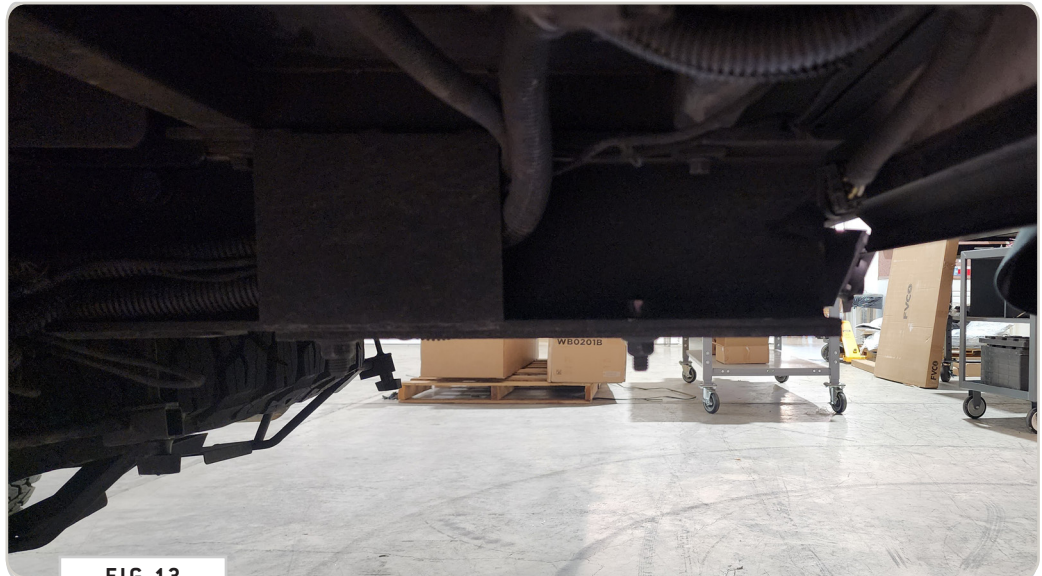


FIG 13

TOOLS REQUIRED FOR THIS STEP: + 3/4" WRENCH AND SOCKET

STEP | 02 INSTALL FVC BUMPER

2.3 Install Mounting Bracket Assemblies: Position the **Left And Right Side Mounting Bracket Assemblies** over the hitch mounting locations. Fasten them loosely using the supplied **1/2-13 x 1.75" Hex Head Screws, Flat Washers and Nylon Locknuts** (FIG 14-16).



FIG 14



FIG 15



FIG 16

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

STEP | 02 INSTALL FVC BUMPER

2.4 Attach Pivot Mounting Plate: Set the **Pivot Mounting Plate** across the installed **Left And Right Mounting Bracket Assemblies**. Loosely fasten using **3/8-16 x 1.5 Flat Head Hex Drive Screws, Flat Washers and Nylon Locknuts** (FIG 17-19).



FIG 17



FIG 18



FIG 19

TOOLS REQUIRED FOR THIS STEP: + 3/4" WRENCH AND SOCKET

STEP | 02 INSTALL FVC BUMPER

2.5 Attach Pivot Plate to Van Wall: Align the rear mounting holes on the **Pivot Mounting Plate** with the **Tube Spacers** installed previously. Secure the assembly using **3/8-16 x 3" Hex Head Screws**, **3/8" Fender Washers**, **Backer Plates** and **3/8-16 Nylon Locknuts** (FIG 20-22).



FIG 20

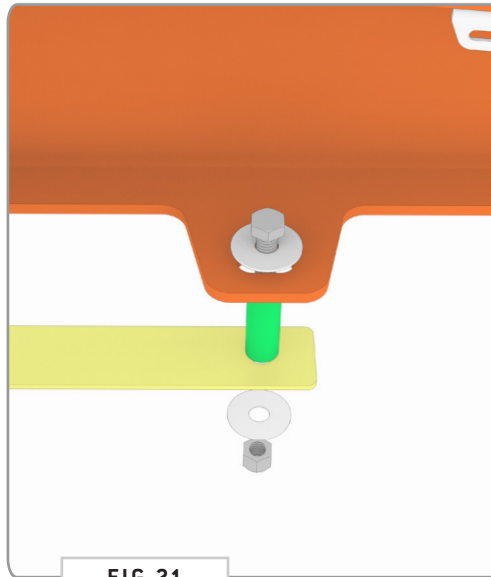


FIG 21



FIG 22

STEP | 02 INSTALL FVC BUMPER

2.6 Install Light to License Plate Bracket: Drill out the main mounting hole on the new **License Plate Bracket** to 5/8" and deburr the metal edges. Place the neoprene foam sealing gasket on the new LED light, and press the assembly into the bracket using the provided **Rubber Grommet** (FIG 23).

2.7 Install License Plate Bracket to Bumper: Attach the assembled **License Plate Bracket** to the main **Bumper Cover Skin Assembly** using 1/4-20 x 0.75" Button Head Screws, 1/4" Flat Washers and 1/4-20 Nylon Locknuts (FIG 24).

TOOLS REQUIRED FOR THIS STEP:

- + WIRE STRIPPERS
- + POWER DRILL
- + 5/8" DRILL BIT
- + DEBURR TOOL
- + 5/32" ALLEN WRENCH
- + 7/16" SOCKET



FIG 23



FIG 24

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

STEP | 02 INSTALL FVC BUMPER

2.8 Remove Cover Plates: Remove the pre-installed access cover plates from the **Bumper Skin** to gain access to internal hardware mounting points (FIG 25-26).

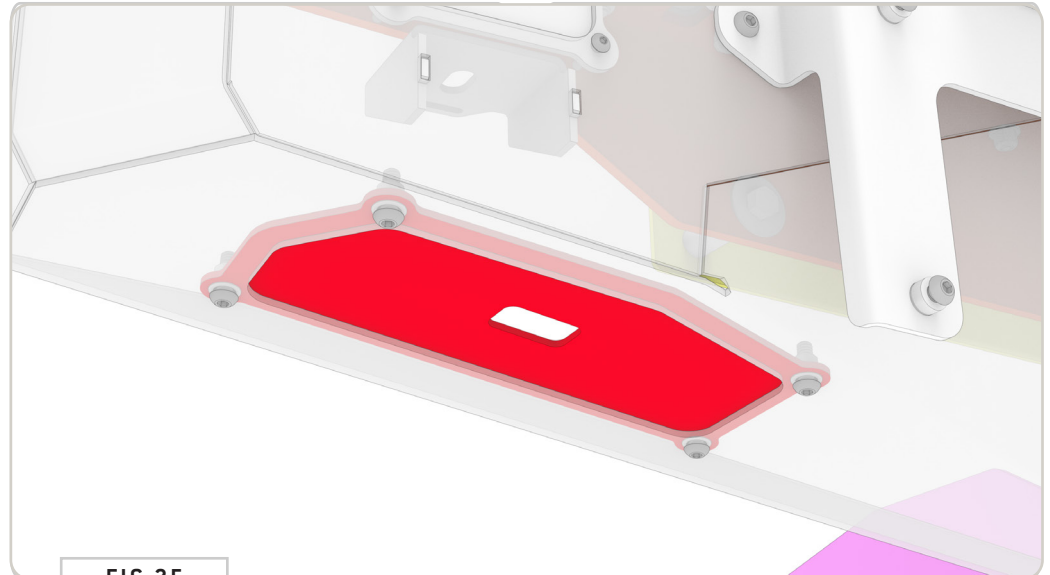


FIG 25

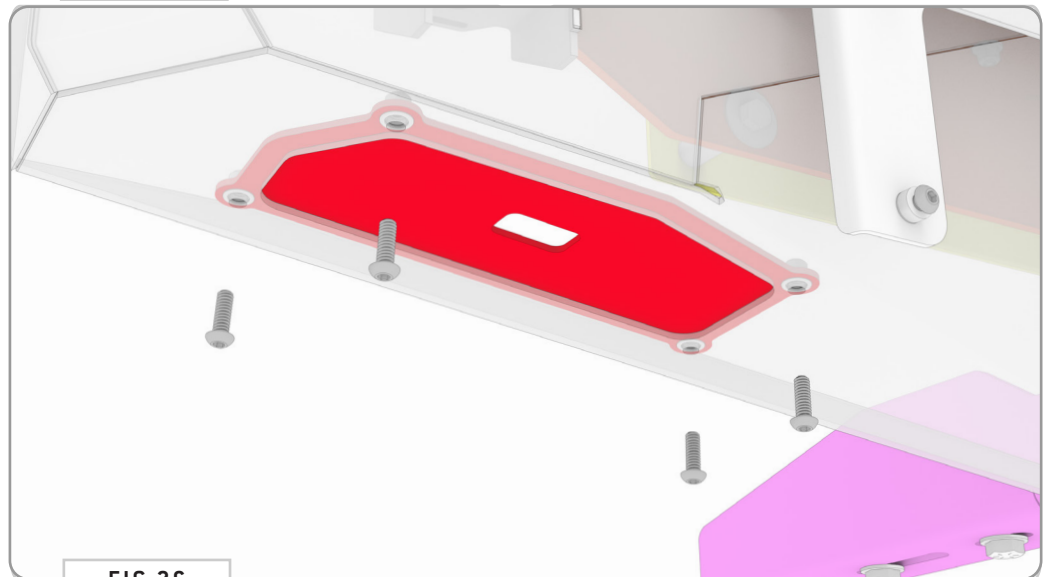


FIG 26

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

STEP | 02 INSTALL FVC BUMPER

2.9 Install Offroad Lights (if applicable): If adding auxiliary lighting, unbolt and remove the **Light Pocket Cutout Covers** on the **Bumper** (FIG 27-28). Install your offroad light pods into the pockets per the light manufacturer's instructions (FIG 29).

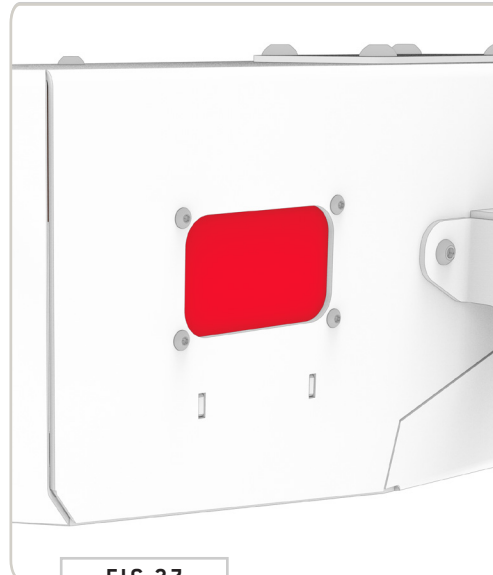


FIG 27

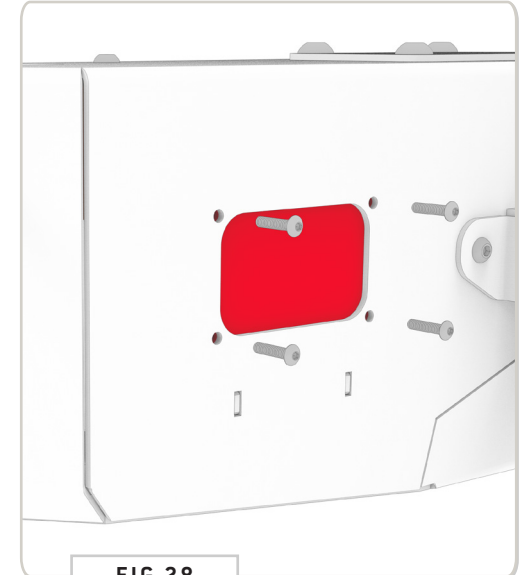


FIG 28

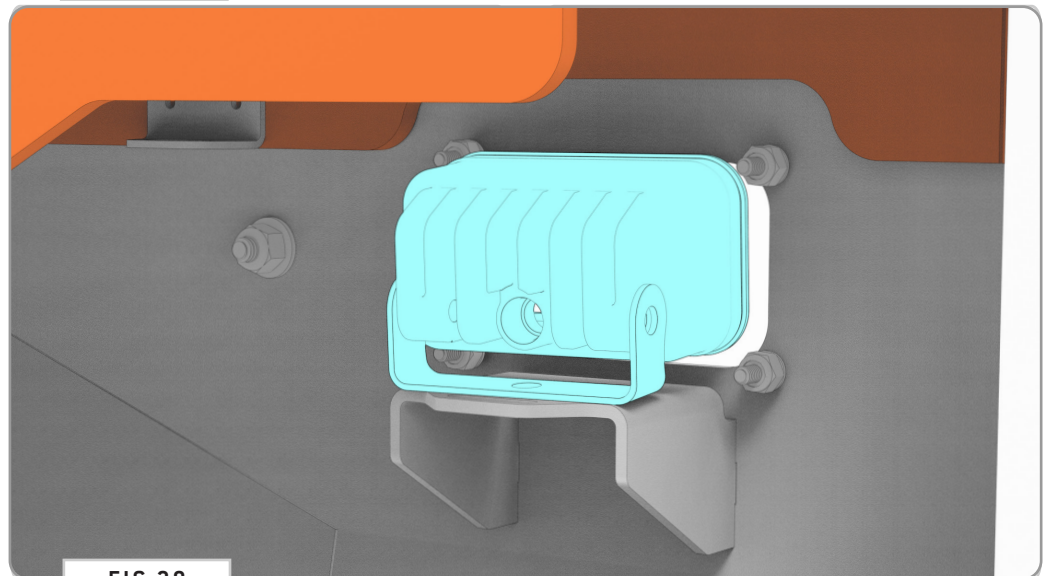


FIG 29

STEP | 02 INSTALL FVC BUMPER

2.10 Migrate License Plate Light Wiring: Route the factory license plate light wiring back through the rear van outlet hole (FIG 30).

2.11 Remove Edge Guards: Unscrew and remove the OEM plastic corner edge guards using a Phillips head screwdriver (FIG 31).

2.12 Plug Wiring Outlets: Press in the supplied 24mm Locking Panel Plugs firmly into place within the unused wiring outlets (FIG 32).



FIG 30



FIG 31



FIG 32

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

STEP | 02 INSTALL FVC BUMPER

2.13 Check Bumper Cover Alignment: Carefully lift the **Bumper Cover Skin** onto the **Pivot Mounting Plate**. Adjust the position until gaps and body alignment are even. Once satisfied with alignment, temporarily lift off the skin and fully torque down all underlying pivot plate and bracket mounting bolts. Re-place the bumper cover skin on the frame (**FIG 33**).

2.14 Reconnect Wiring: Wire the **Led License Plate Light** into the factory harness, matching live and ground wires according to your notes taken previously (**FIG 34**). Secure any loose wiring out of sight using the included cable ties.



FIG 33



FIG 34

STEP | 02 INSTALL FVC BUMPER

2.15 Fasten Bumper Cover to Pivot Plate: Bolt the Bumper Cover Skin to the Pivot Mounting Plate using 1/4-20 X 0.75" Button Head Hex Drive Screws, Flat Washers, And Nylon Locknuts (FIG 35-36).

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



FIG 35

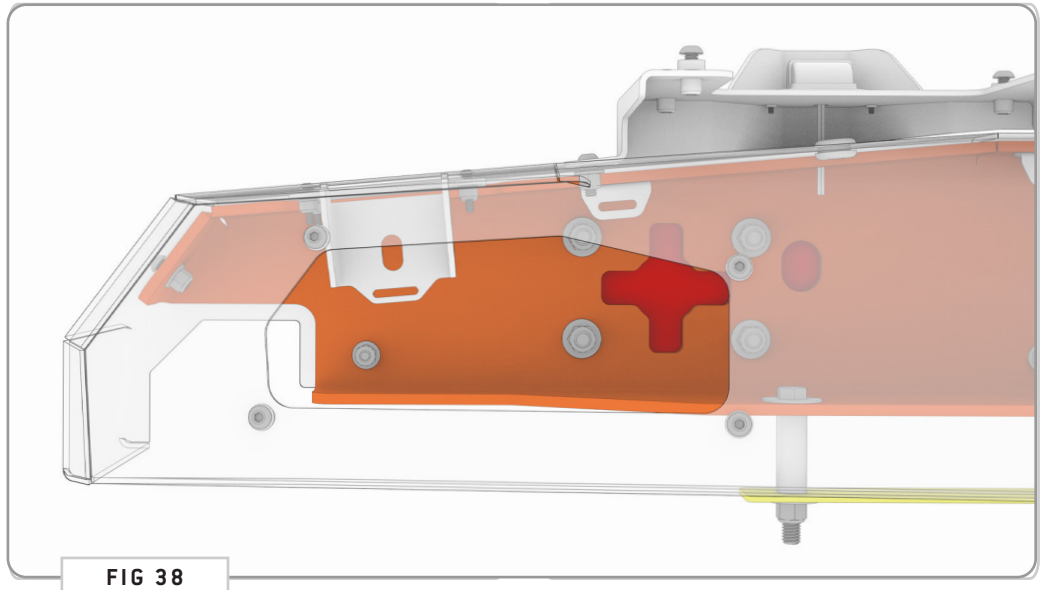
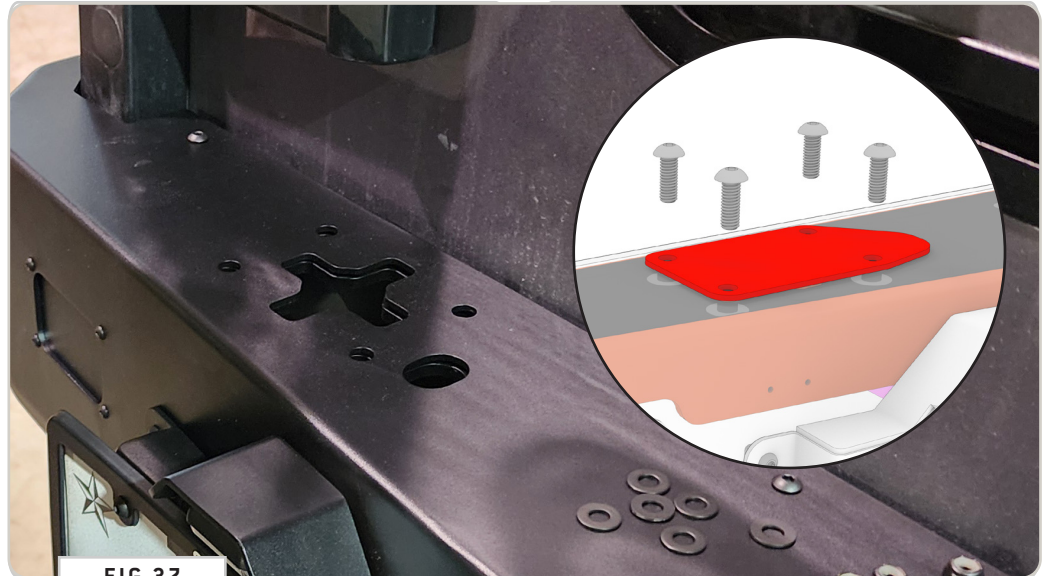


FIG 36

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

STEP | 02 INSTALL FVC BUMPER

2.16 Install Rear Carrier Cover (if applicable): If you are not installing a **Rear Platform**, attach the **Platform Mounting Point Cover Plate** over the exposed carrier mounting cutout using 3/8-16 Button Head Hex Drive Screws, Flat Washers and Nylon Locknuts (**FIG 37-38**).



TOOLS REQUIRED FOR THIS STEP:

STEP | 03 FINISHING TOUCHES

3.1 Final Checks: Reinstall **Cover Plates** and **License Plate**. Double-check that all fasteners are tightened and lights are operating. Enjoy your new **FVC Ekko Rear Bumper**!



FIG 39

GET OUT AND EXPLORE!

+ LEAVE US A REVIEW

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

+ SHARE YOUR PICS

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

+ NEED ANY HELP?

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



@FLATLINEVANCO