



# INSTALLATION GUIDE

## TRANSIT VAN REAR BUMPER

TR1113B



### TOOLS REQUIRED (NOT INCLUDED)

- |                           |                      |
|---------------------------|----------------------|
| + AUTO PANEL REMOVAL TOOL | + 18MM WRENCH        |
| + FLATHEAD SCREWDRIVER    | + 5/32" ALLEN WRENCH |
| + T25 TORX                | + 7/32" ALLEN WRENCH |
| + T20 TORX                | + 7/16" SOCKET       |
| + 1/2" SQUARE DRIVE       | + 9/16" SOCKET       |
| + 13MM WRENCH/SOCKET      | + BODY SAW           |
| + 15MM WRENCH/SOCKET      |                      |

### INSTALL INFO

TIME TO INSTALL THIS PRODUCT: 2-3 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.

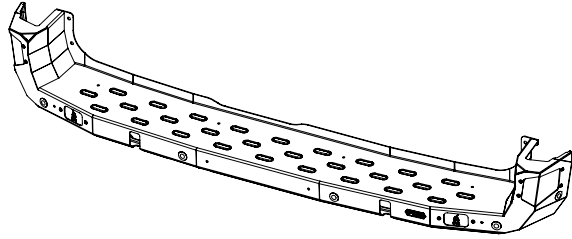
Contact us ASAP if anything is missing at:  
[support@flatlinevanco.com](mailto:support@flatlinevanco.com)

# 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.

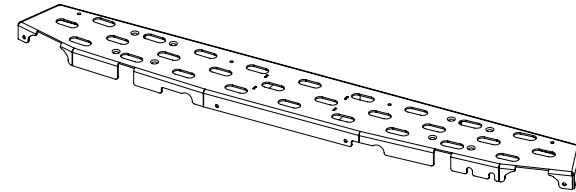


# PACKAGE CONTENTS



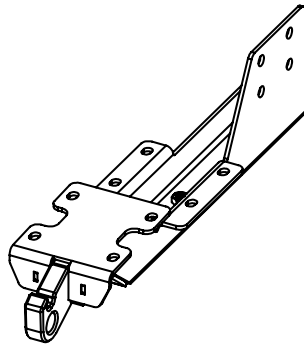
**BUMPER SKIN ASSEMBLY**

**QTY: 1**



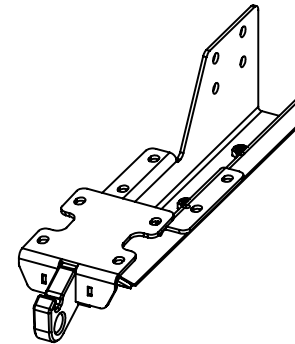
**STEP SUPPORT**

**QTY: 1**



**LEFT SIDE MOUNTING ARM**

**QTY: 1**



**RIGHT SIDE MOUNTING ARM**

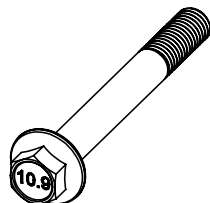
**QTY: 1**

# HARDWARE



M12-1.75 X 40 FLANGED  
HEX HEAD SCREW

QTY: 6



M12-1.75 X 100 FLANGED  
HEX HEAD SCREW

QTY: 8



M10-1.50 X 35 FLANGED  
HEX HEAD SCREW

QTY: 8



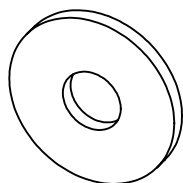
3/8-16 X 1 FLAT HEAD HEX  
DRIVE SCREW

QTY: 8



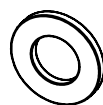
1/4-20 X 0.75 BUTTON  
HEAD HEX DRIVE SCREW

QTY: 8



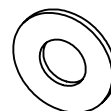
M12 SCREW X 37 O.D.  
OVERSIZED FLAT WASHER

QTY: 22



M10 SCREW X 20 O.D.  
FLAT WASHER

QTY: 8



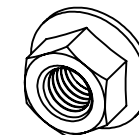
3/8 SCREW FLAT WASHER

QTY: 8



1/4 SCREW FLAT WASHER

QTY: 8



M12-1.75 FLANGED HEX  
NUT

QTY: 8



3/8-16 NYLON INSERT  
LOCKNUT

QTY: 8



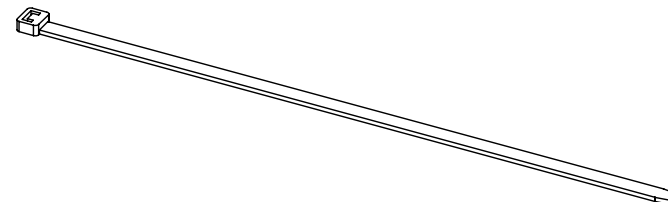
1/4-20 NYLON INSERT  
LOCKNUT

QTY: 8



THREADLOCKER  
BOTTLE

QTY: 1



7.5" STANDARD CABLE TIE

QTY: 25

# INSTALL

## STEP | 01 LAYOUT AND INSTALL PREP

**1.1 Safety Check:** Disconnect battery (both if applicable) prior to performing any electrical work and ensure you are working on a flat surface.

**1.2 Review Install Outline:** Thoroughly read all instructions and warnings before beginning installation. This product requires modifications to factory parts **done at your own risk**. If you don't feel comfortable installing this on your own, see our [Find a Builder or Upfitter](#) page to locate an approved installer near you.

**1.3 Bumper Accessories:** If you plan on running **Off-Road Lights**, waiting to install the **Bumper** until those parts are ready to install as well would be advised.

## TOOLS REQUIRED FOR THIS STEP:



FIG 1



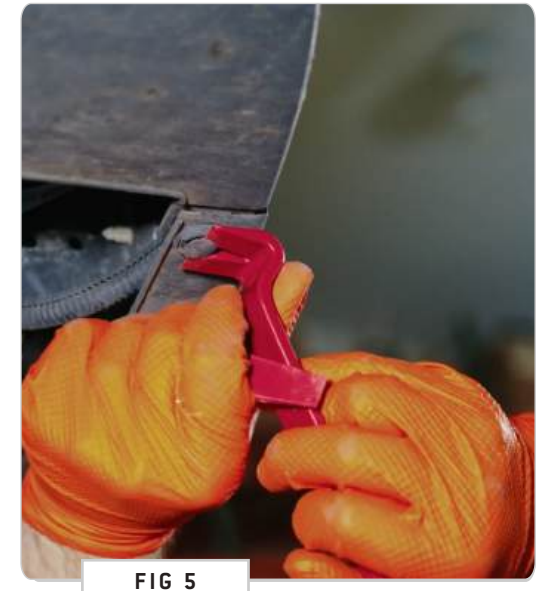
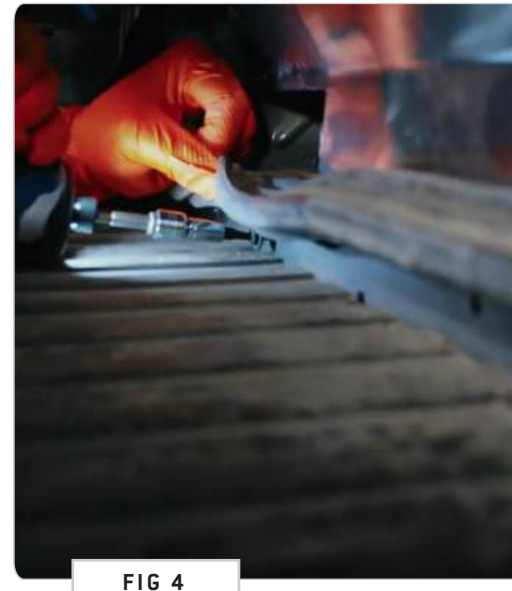
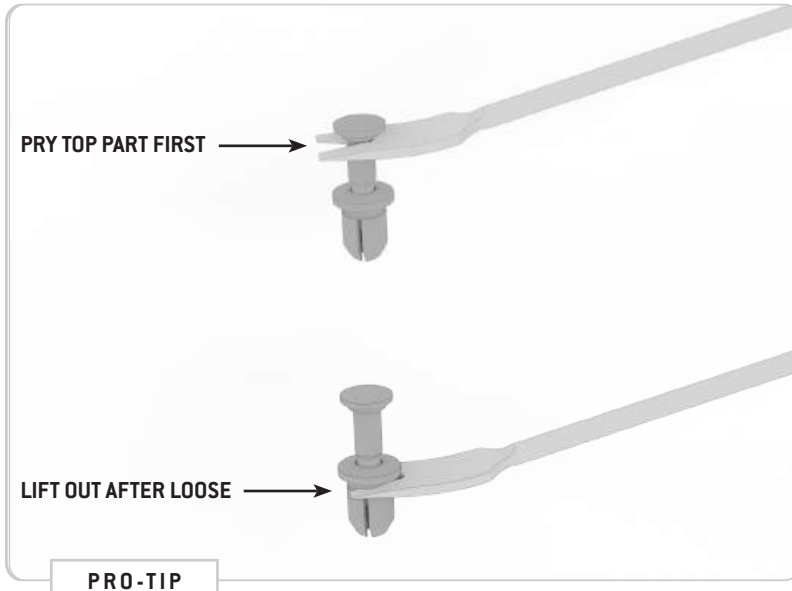
FIG 2

## STEP | 02 REMOVE FACTORY BUMPER

**2.1 Lower Spare Tire (if applicable):** Use a 1/2" square drive to lower and remove the spare tire to gain better access to frame bolts.

**2.2 Release Plastic Bumper Cover:** Use a trim tool (FIG 5) and T25 Torx (FIG 4) to remove the plastic rivets and screws holding the factory bumper cover (FIG 3). Be sure to retain the Torx Screws for later use.

**TOOLS REQUIRED FOR THIS STEP:** + AUTO PANEL PRY TOOL  
+ T25 TORX



TOOLS REQUIRED FOR THIS STEP: + T25 TORX  
+ FLATHEAD SCREWDRIVER

## STEP | 02 REMOVE FACTORY BUMPER

**2.3 Remove Upper Plastic Trim:** Remove the T25 Torx Screws holding the Upper Plastic Trim pieces beneath the Driver and Passenger Side Taillights (FIG 6).

**2.4 Disconnect Harnesses:** Unplug the Blind Spot Sensor and Park Sensors, along with any additional clips/pins within the Upper Plastic Trim Piece.



FIG 6



FIG 7

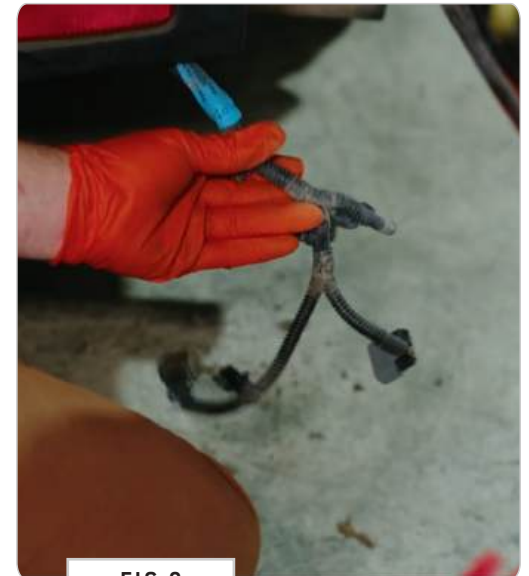


FIG 8

TOOLS REQUIRED FOR THIS STEP: + FLATHEAD SCREWDRIVER  
+ AUTO PANEL PRY TOOL

## STEP | 02 REMOVE FACTORY BUMPER

**2.5 Remove Plastic Bumper Cover:** Fully remove the Plastic Bumper Cover (FIG 9).

**2.6 Disconnect Harnesses:** Disconnect each of the Park Sensor Harnesses below the Driver and Passenger Side Taillights (FIG 10) and any clips/pins attaching it to the Factory Bumper (FIG 11).

**NOTE -** Be sure to take note of which side of the van each harness was connected. This will need to stay the same when migrated to the FVC Bumper.



TOOLS REQUIRED FOR THIS STEP: + PLIERS  
+ AUTO PANEL REMOVAL TOOL

## STEP | 02 REMOVE FACTORY BUMPER

**2.7 Disconnect Wiring From Factory Bumper:** Remove any additional pins/clips holding the **Wiring Harness** to the **Factory Bumper** (FIG 12-13).



FIG 12



FIG 13

TOOLS REQUIRED FOR THIS STEP: + PLIERS  
+ AUTO PANEL REMOVAL TOOL

## STEP | 02 REMOVE FACTORY BUMPER

**2.8 Disconnect Tow Hitch Wiring Harness (if applicable):**  
Unplug the trailer connector harness. Use a pry tools to unclip any additional wiring clips/pins from the Tow Hitch (FIG 14-15).



FIG 14



FIG 15

- TOOLS REQUIRED FOR THIS STEP: + 13MM SOCKET  
+ 15MM SOCKET  
+ 18MM WRENCH

## STEP | 02 REMOVE FACTORY BUMPER

**2.9 Remove Tow Hitch (If applicable):** Proceed to the four bolts holding the **Tow Hitch** to the van (**FIG 16**). Note that two of them thread into the **Factory Bumper** and the other two are secured through the van using nuts (**FIG 17**). After removing the two upper bolts, reinsert one to hold it in place and allow it to swing downwards. Remove the four bolts holding the **Tow Hitch** to the **Factory Bumper** and carefully lower it to the ground (**FIG 18**).



FIG 16



FIG 17



FIG 18

TOOLS REQUIRED FOR THIS STEP:

## STEP | 02 REMOVE FACTORY BUMPER

**2.10 Release Tow Hitch:** Remove the last of the bolts holding the Tow Hitch to the van and let it all the way down for removal.

**NOTE -** The Tow Hitch is very heavy and it is recommended that you get help for removal.



FIG 19



FIG 20

## STEP | 02 REMOVE FACTORY BUMPER

**2.11 Release Factory Bumper:** Remove the last of the bolts holding the **Factory Bumper** to the van and discard it.

**NOTE** - *The Factory Bumper can be tricky to handle on your own and it is recommended that you get help for removal.*

**TOOLS REQUIRED FOR THIS STEP:** + 13MM SOCKET  
+ 15MM SOCKET  
+ 18MM WRENCH



FIG 21



FIG 22

TOOLS REQUIRED FOR THIS STEP: + T20 TORX

## STEP | 03 PREP FVC BUMPER

**3.1 Disconnect Driver/Passenger Side Sensors:** Disconnect the **Park Sensor Harness** from the van for transfer to the **FVC Bumper**. Remove **Blind Spot Sensor** from taillight trim pieces.



FIG 23



FIG 24

TOOLS REQUIRED FOR THIS STEP:

## STEP | 03 PREP FVC BUMPER

**3.2 Migrate Factory Park Sensor Bezels:** Push out the **Factory Park Sensor Bezels** from the **Taillight Trim Pieces** and migrate to the corresponding locations within the **FVC Bumper**.



FIG 25



FIG 26

TOOLS REQUIRED FOR THIS STEP: + T20 TORX

## STEP | 03 PREP FVC BUMPER

**3.3 Reinstall Sensors:** Reinstall **Blind Spot and Park Sensors** to the corresponding side of the **FVC Bumper**, maintaining factory orientation and location.

**NOTE -** *Keep the wiring harness tucked in behind the mounting surface, but accessible for reconnection later on.*

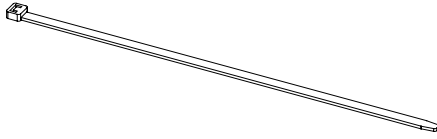


FIG 27



FIG 28

HARDWARE:



TOOLS REQUIRED FOR THIS STEP:

### STEP | 03 PREP FVC BUMPER

**3.4 Reinstall Center Sensors:** Reinstall **Factory Bezels and Park Sensors** from the **Factory Bumper Skin** to the corresponding area of the **FVC Bumper**, maintaining factory orientation and location.

**NOTE** - Keep the wiring harness tucked in behind the mounting surface and away from where the **Mounting Arms** are located, but accessible for reconnection later on. Zip Ties are included for this purpose. See **FIG 30** for zip tie cutout locations.



FIG 29

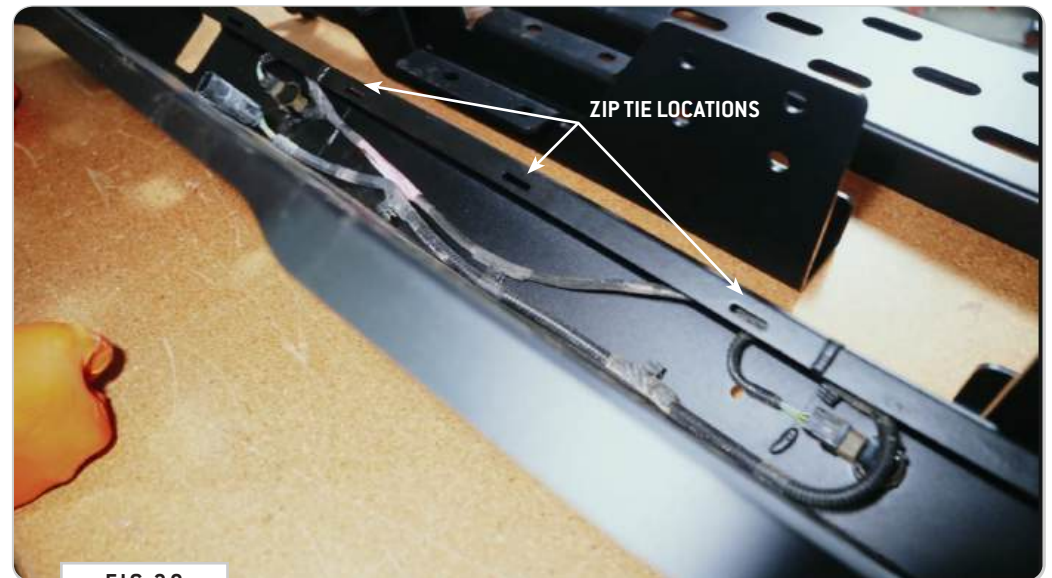


FIG 30

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

### STEP | 03 PREP FVC BUMPER

**3.5 Install Offroad Lights (if applicable):** Remove the 1/4-20 x 0.75 Button Head Hex Driver Screws, Flat Washers and Nylon Locknuts holding the Cover Plates to the FVC Bumper Skin and install your Offroad Lights using the light manufacturer's supplied hardware.

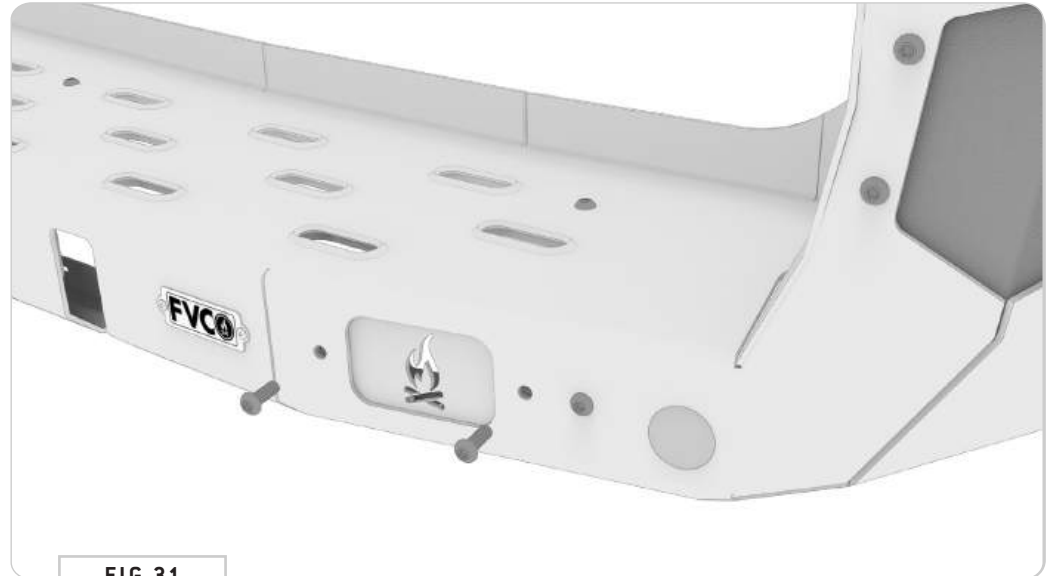


FIG 31

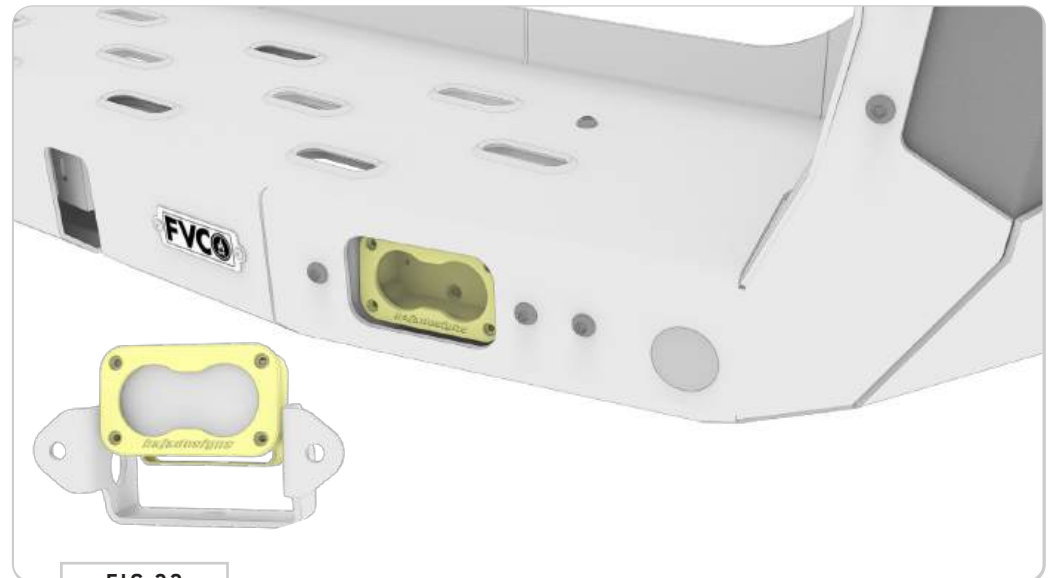


FIG 32

**HARDWARE:**



**TOOLS REQUIRED FOR THIS STEP:** + 13MM SOCKET

## STEP | 04 INSTALL FVC BUMPER

**4.1 Install FVC Mounting Arms:** Install the left and right side FVC Mounting Arms (FIG 33) to the van using the supplied M10-1.50 X 35 Flanged Hex Head Screws and Flat Washers with Loctite (FIG 34).

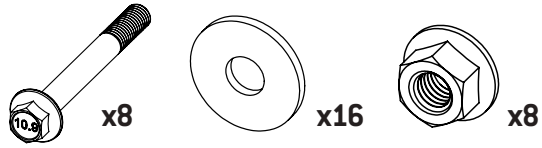


FIG 33



FIG 34

**HARDWARE:**



**TOOLS REQUIRED FOR THIS STEP:** + 15MM WRENCH OR SOCKET  
+ 18MM WRENCH

**STEP | 04 INSTALL FVC BUMPER**

**4.2 Install Tow Hitch:** Reinstall the Tow Hitch (if applicable) back to the van using the supplied M12-1.75 X 100 Flanged Hex Head Screws, Oversized Flat Washers and M12-1.75 Flanged Hex Nuts (FIG 35-36).



FIG 35

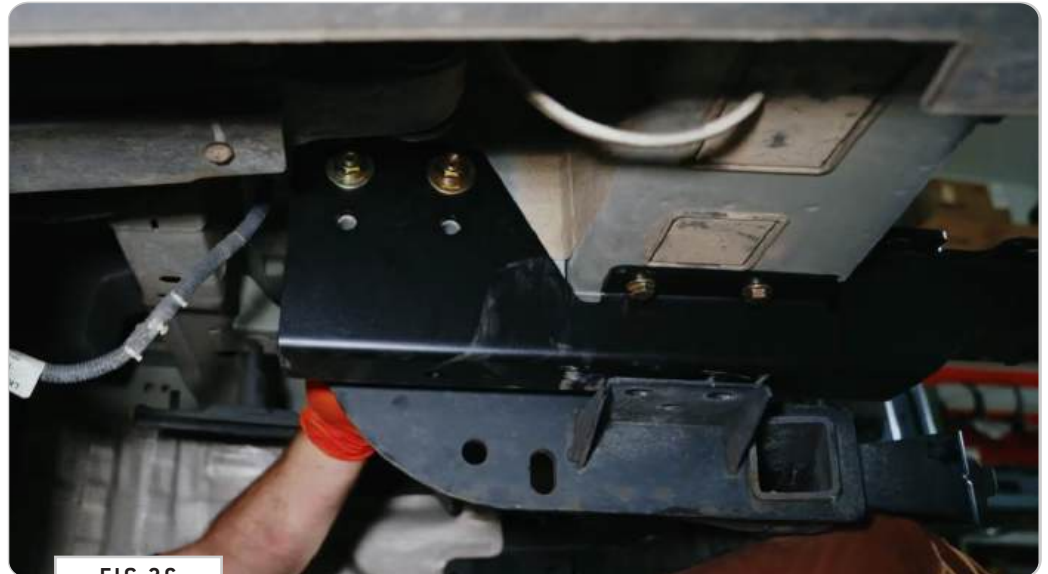
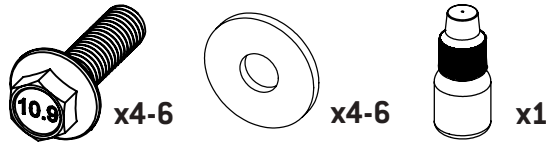


FIG 36

HARDWARE:



TOOLS REQUIRED FOR THIS STEP: + 13MM SOCKET

## STEP | 04 INSTALL FVC BUMPER

**4.3 Secure FVC Mounting Arms and Tow Hitch: Secure Tow Hitch to FVC Mounting Arms using the supplied M12-1.75 X 40 Flanged Hex Head Screws and Oversized Flat Washers with Loctite (FIG 38).**

**NOTE** - Depending on whether you have a factory hitch or aftermarket one, you'll need either 2 or 3 screws/washers per side.



FIG 37



FIG 38

**HARDWARE:**



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

**STEP | 04 INSTALL FVC BUMPER**

**4.4 Install Rear Bumper Step Support:** Install Step Support to the Mounting Arms using the supplied 3/8-16 X 1 Flat Head Hex Drive Screws, Flat Washers and Nylon Locknuts (FIG 40).



FIG 39



FIG 40

TOOLS REQUIRED FOR THIS STEP: + BODY SAW

## STEP | 04 INSTALL FVC BUMPER

**4.5 Dry-Fit Rear Bumper:** Carefully dry-fit **FVC Rear Bumper** to **Mounting Arms/Step Support**, noting any interference with plastic trim (**FIG 41**).

**4.6 Trim Plastic Trim:** If required, trim off plastic tabs of the **Factory Plastic Trim (FIG 42)** or any other areas that need trimmed to clear the **FVC Rear Bumper**. Take your time and only cut what you need to.

**NOTE -** *The FVC Transit Rear Bumper is designed to be a tight fit and may take some nudging, but take care not to force anything and be mindful of where your wiring is when fitting the bumper.*



FIG 41



FIG 42

TOOLS REQUIRED FOR THIS STEP: + MASKING TAPE  
+ BODY SAW

## STEP | 04 FVC BUMPER INSTALL

4.7 Trim Taillight Trim Pieces: Note where the **Factory Taillight Trim Pieces** fit around the FVC Bumper (FIG 43) and trim to fit (FIG 44).



FIG 43

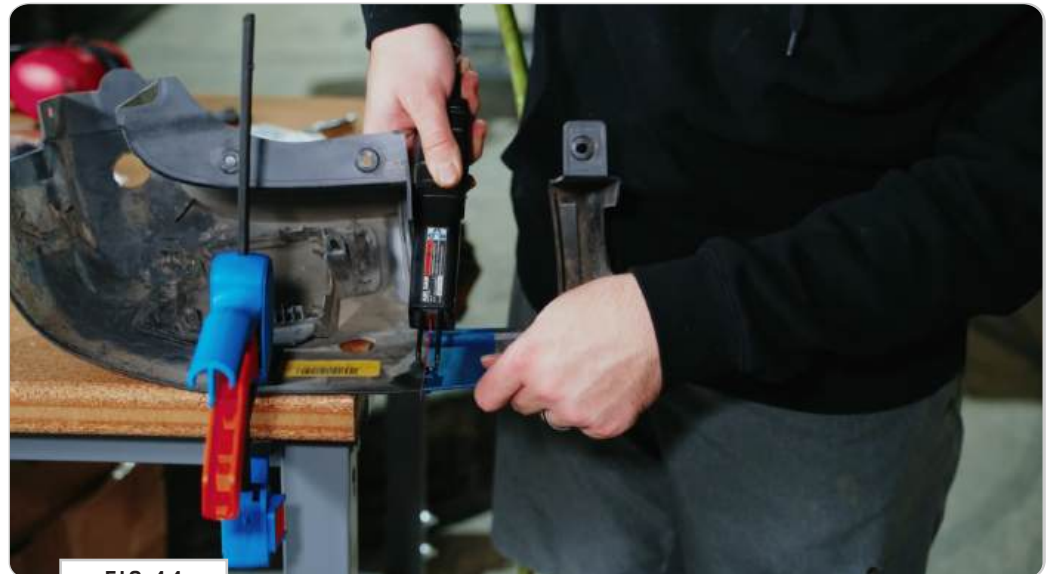


FIG 44

TOOLS REQUIRED FOR THIS STEP: + T25 TORX

## STEP | 04 FVC BUMPER INSTALL

**4.8 Reinstall Taillight Trim Pieces:** Reinstall Taillight Trim Pieces using the retained T25 Screws from factory disassembly.



FIG 45



FIG 46

TOOLS REQUIRED FOR THIS STEP: + T25 TORX

## STEP | 04 FVC BUMPER INSTALL

**4.9 Install Rear Bumper to Van:** Install the **Rear Bumper** to the **Van** using the retained T25 Screws from factory disassembly.



FIG 47



FIG 48

**HARDWARE:**



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

**STEP | 04 FVC BUMPER INSTALL**

**4.10 Secure Rear Bumper Skin to Step Support:** Install the Rear Bumper to the Step Support using 1/4-20 x 0.75 Button Head Hex Drive Screws, Flat Washers and Nylon Locknuts along the top and front edges (FIG 49-50).

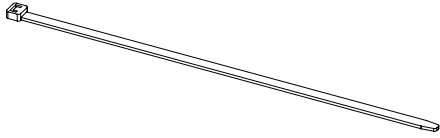


FIG 49



FIG 50

HARDWARE:



TOOLS REQUIRED FOR THIS STEP:

## STEP | 04 FVC BUMPER INSTALL

**4.11 Reattach Park Sensor/Blind Spot Harness:** Reattach all **Sensor Harnesses** to the van and enjoy your new **Rear Bumper!**

**NOTE -** *Zip Ties are included for wire management post-install. There are numerous cutouts in the bumper skin for this purpose.*



FIG 51

# GET OUT AND EXPLORE!

## + LEAVE US A REVIEW

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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 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