



# INSTALLATION GUIDE

## MODULAR WHEEL WELL CABINET BED - NORTH / SOUTH CONFIGURATION UN0311B



### TOOLS REQUIRED (NOT INCLUDED)

- |                          |                           |
|--------------------------|---------------------------|
| + 7/32" ALLEN WRENCH     | + RIVET NUT TOOL          |
| + 3/16" ALLEN WRENCH     | + 25/64" DRILL BIT        |
| + 5/32" ALLEN WRENCH     | + POWER DRILL             |
| + 3/4" WRENCH OR SOCKET  | + MEASURING TAPE          |
| + 9/16" WRENCH OR SOCKET | + SAW                     |
| + 7/16" WRENCH OR SOCKET | + RUST PREVENTATIVE PAINT |

### INSTALL INFO

TIME TO INSTALL THIS PRODUCT: 3-5 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.

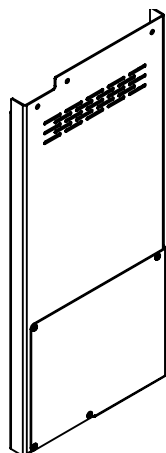
Contact us ASAP if anything is missing at:  
[support@flatlinevanco.com](mailto:support@flatlinevanco.com)

# 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.

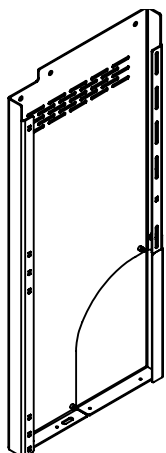


# PACKAGE CONTENTS



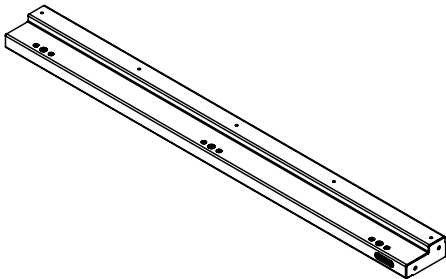
CABINET RIGHT SIDE ASSEMBLY

QTY: 1



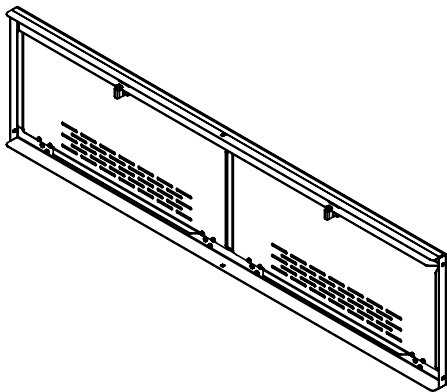
CABINET LEFT SIDE ASSEMBLY

QTY: 1



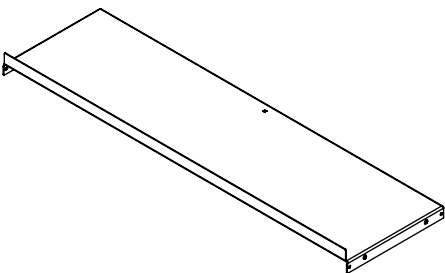
TOP STRETCHER

QTY: 1



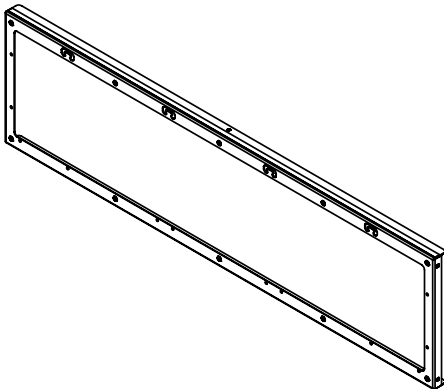
UTILITY ACCESS PANEL

QTY: 1



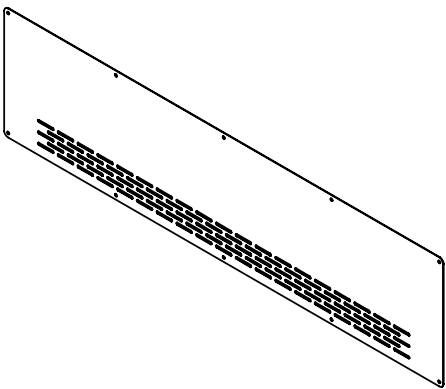
CABINET SHELF

QTY: 1



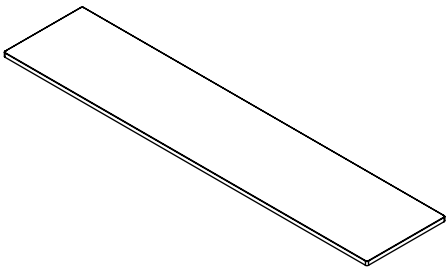
SOLID PANEL BEZEL

QTY: 1



SOLID PANEL

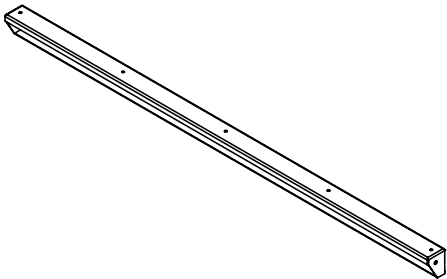
QTY: 1



CABINET TOP

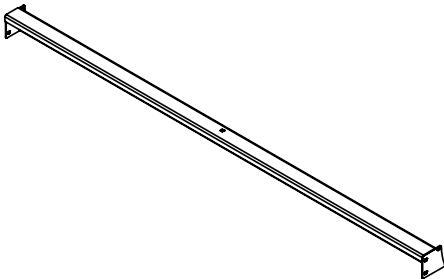
QTY: 1

# PACKAGE CONTENTS



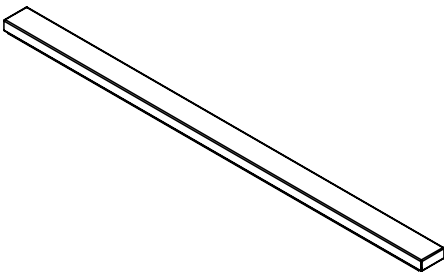
REAR STRETCHER

QTY: 1



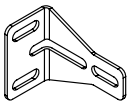
TOE KICK

QTY: 1



CABINET COVER PANEL

QTY: 1



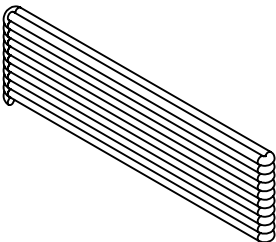
WALL MOUNTING BRACKETS

QTY: 2



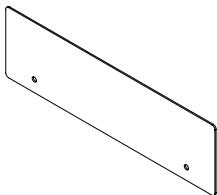
BED PIN

QTY: 3



PANEL BUNGEE

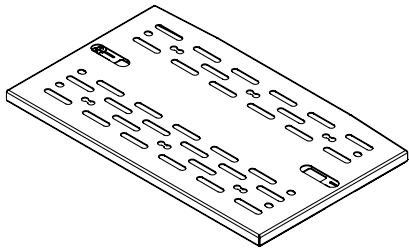
QTY: 1



SHELF SIDE PLATE

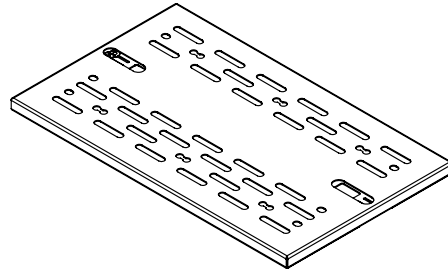
QTY: 2

# HW + PACKAGE CONTENTS (UN0311B)



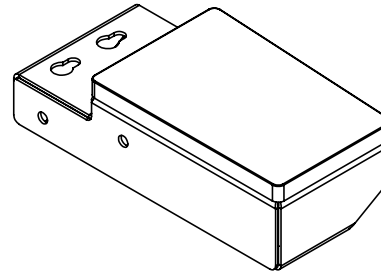
REAR EDGE PANEL

QTY: 1



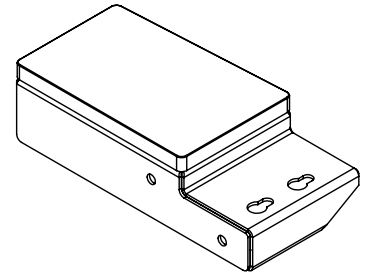
RECTANGLE PANEL

QTY: 2



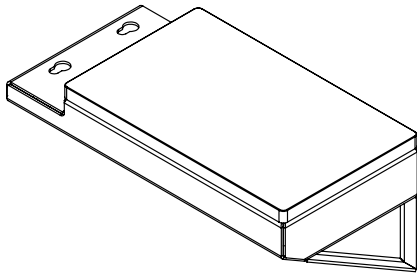
DRIVER REAR SUPPORT

QTY: 1



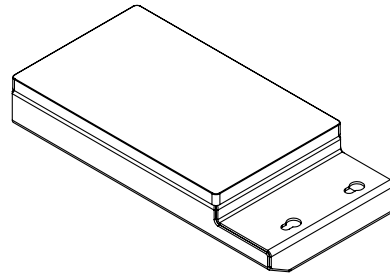
PASS REAR SUPPORT

QTY: 1



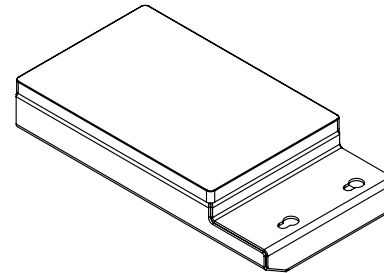
DRIVER FRONT SUPPORT

QTY: 1



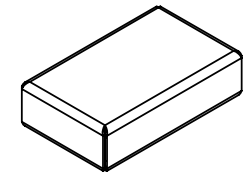
144 PASS FRONT SUPPORT

QTY: 1



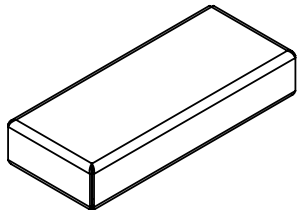
170 PASS FRONT SUPPORT

QTY: 1



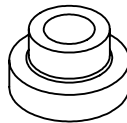
REAR SUPPORT COVER

QTY: 2



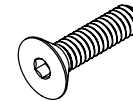
FRONT SUPPORT COVER

QTY: 2



KEYHOLE BUSHING

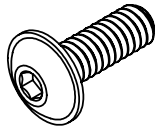
QTY: 8



1/4-20 X 1 FLAT HEAD  
HEX DRIVE SCREW

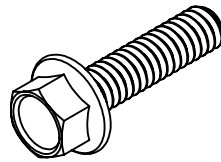
QTY: 8

# HARDWARE



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

QTY: 14



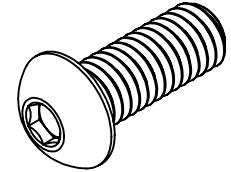
1/4-20 X 1 FLANGED HEX  
HEAD SCREW

QTY: 2



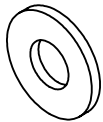
3/8 SCREW FLAT WASHER

QTY: 6



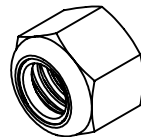
3/8-16 X 1 BUTTON HEAD  
HEX DRIVE SCREW

QTY: 6



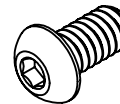
1/4 SCREW FLAT WASHER

QTY: 26



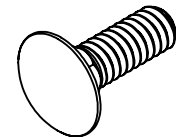
3/8-16 NYLON LOCKNUT

QTY: 6



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

QTY: 10



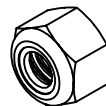
1/4-20 X 0.75 SQUARE NECK  
CARRIAGE BOLT

QTY: 24



1/4-20 X 0.027-0.165 THK  
HEAVY DUTY RIVET NUT

QTY: 2



1/4-20 NYLON INSERT  
LOCKNUT

QTY: 24

# INSTALL

## STEP | 01 LAYOUT AND INSTALL PREP

**1.1 Inspect Package Contents:** While typically shipped on a pallet, components of the **FVC Modular Wheel Well Cabinets and Bed Systems** are packed in individual boxes. We recommend leaving everything boxed up until directed to open them in each of the following steps.

### MODULAR WHEEL WELL CABINET KIT INCLUDES:

UN1013B.1 - SIDE PANELS & HARDWARE

UN1013B.2 - COVER PANELS & STRETCHERS

UN1013B.3 - FRONT PANEL AND SHELF

UN1013B.4 - CABINET TOP

### NORTH / SOUTH BED KIT INCLUDES:

UN0311B.1 - RECTANGULAR BED PANELS

UN0311B.2 - REAR BED PANEL

UN0311B.3 - BED SUPPORTS AND COVER PANELS

UN0311B.4 - PASSENGER FRONT SUPPORT

UN0311B.5 - 144 PASSENGER FRONT SUPPORT



FIG 1

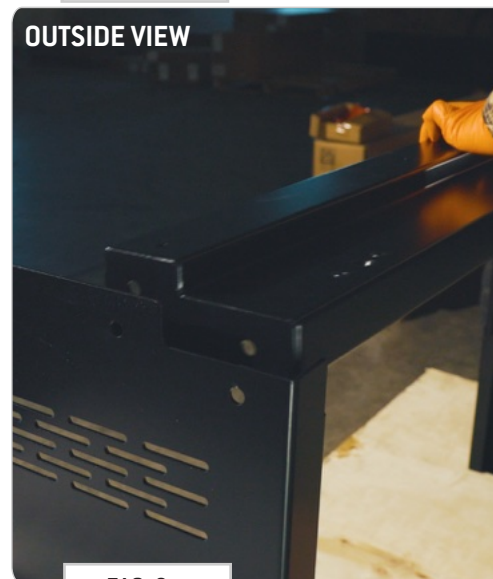
**PARTS NEEDED:** + RH TABLE CABINET SIDE (UN1013B.1)  
+ LH TABLE CABINET SIDE (UN1013B.1)  
+ TOP STRETCHER (UN1013B.2)

**TOOLS REQUIRED FOR THIS STEP:** + 7/32" ALLEN WRENCH  
+ 9/16" WRENCH (RATCHETING PREFERRED)

## STEP | 02 ASSEMBLE CABINET FRAME

**2.1a Attach Cabinet Sides:** Secure the Left and Right Cabinet Sides to the Top Stretcher using 3/8-16 X 1 Button Head Hex Drive Bolts, Washers, And Nylon Locknuts (FIG 2-4).

**NOTE -** Optionally, you can combine Steps 2.1a and 2.2a and proceed to Step 2.1b if you're comfortable with installing multiple components at once.



**PARTS NEEDED:** + REAR STRETCHER (UN1013B.2)

**TOOLS REQUIRED FOR THIS STEP:** + 7/32" ALLEN WRENCH  
+ 9/16" WRENCH (RATCHETING PREFERRED)

## STEP | 02 ASSEMBLE CABINET FRAME

**2.2a Attach Rear Stretcher:** Secure the **Rear Stretcher** to the back of the assembly using the remaining 3/8-16 hardware (**FIG 5-7**). Ensure that the mounting slots face out away from the front of the cabinet.

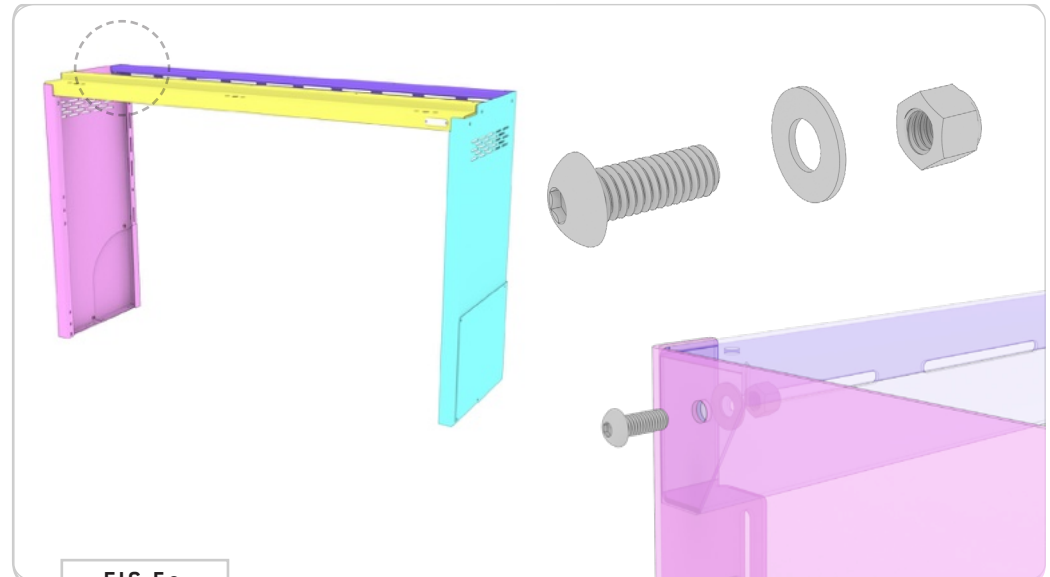


FIG 5a



FIG 6a

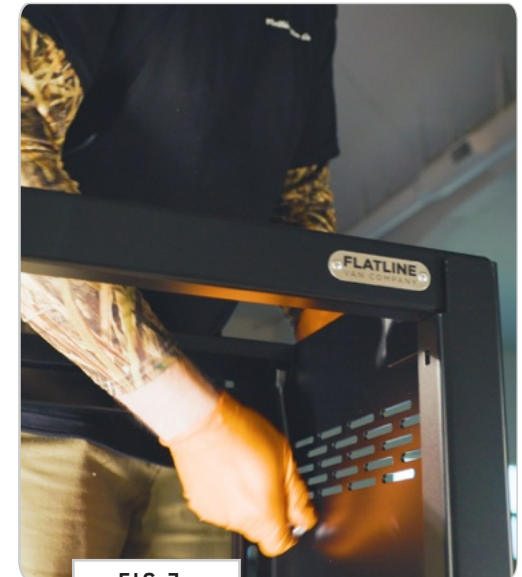


FIG 7a

## PARTS NEEDED:

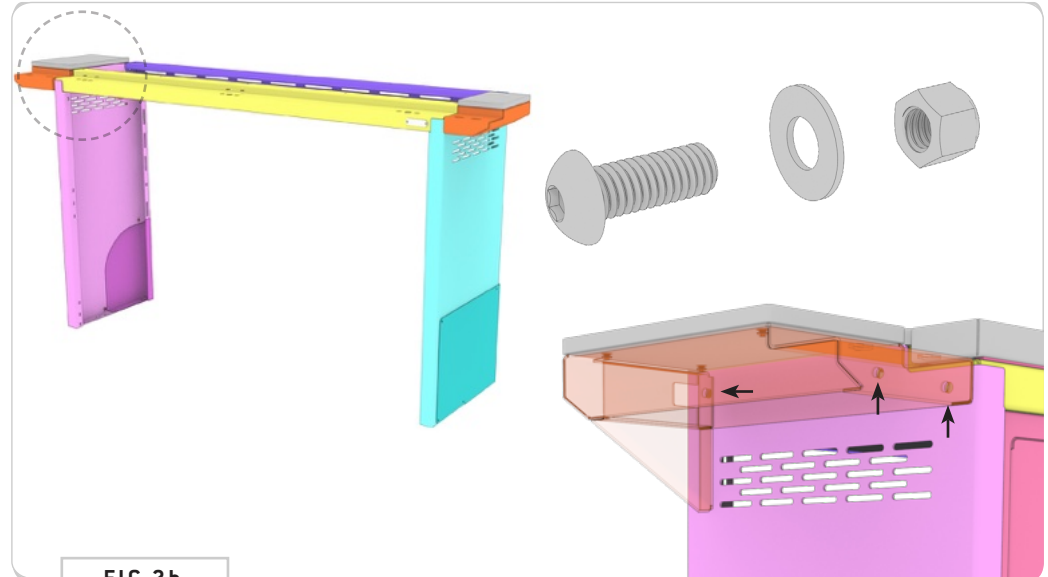
- + RH TABLE CABINET SIDE (UN1013B.1)
- + LH TABLE CABINET SIDE (UN1013B.1)
- + TOP STRETCHER (UN1013B.2)
- + REAR STRETCHER (UN1013B.2)
- + PASS FRONT SUPPORT (UN0311B.4)
- + 144 PASS FRONT SUPPORT (UN0311B.5)

## TOOLS REQUIRED FOR THIS STEP:

- + 7/32" ALLEN WRENCH
- + 9/16" WRENCH (RATCHETING PREFERRED)

## STEP | 02 ASSEMBLE CABINET FRAME

**2.1b Assemble Cabinet Frame with Front Supports:** Secure the **Left and Right Cabinet Sides** to the **Top and Rear Stretchers** using the **Front Supports** and **3/8-16 X 1 Button Head Hex Drive Bolts, Washers, And Nylon Locknuts** (FIG 2b-4b).



144 PASS FRONT

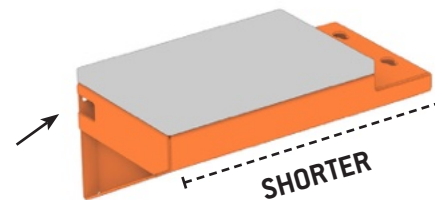


FIG 3b

ALL OTHERS

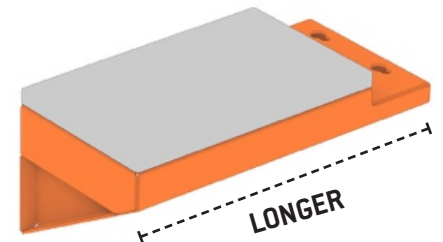


FIG 4b

**PARTS NEEDED:** + REAR SUPPORTS (UN0311B.3)

**TOOLS REQUIRED FOR THIS STEP:** + 7/32" ALLEN WRENCH  
+ 9/16" WRENCH (RATCHETING PREFERRED)

## STEP | 02 ASSEMBLE CABINET FRAME

**2.2 b Assemble Cabinet Frame with Rear Supports:** Secure the Rear Supports to the Cabinet Assembly and 3/8-16 X 1 Button Head Hex Drive Bolts, Washers, And Nylon Locknuts (FIG 2b-4b).

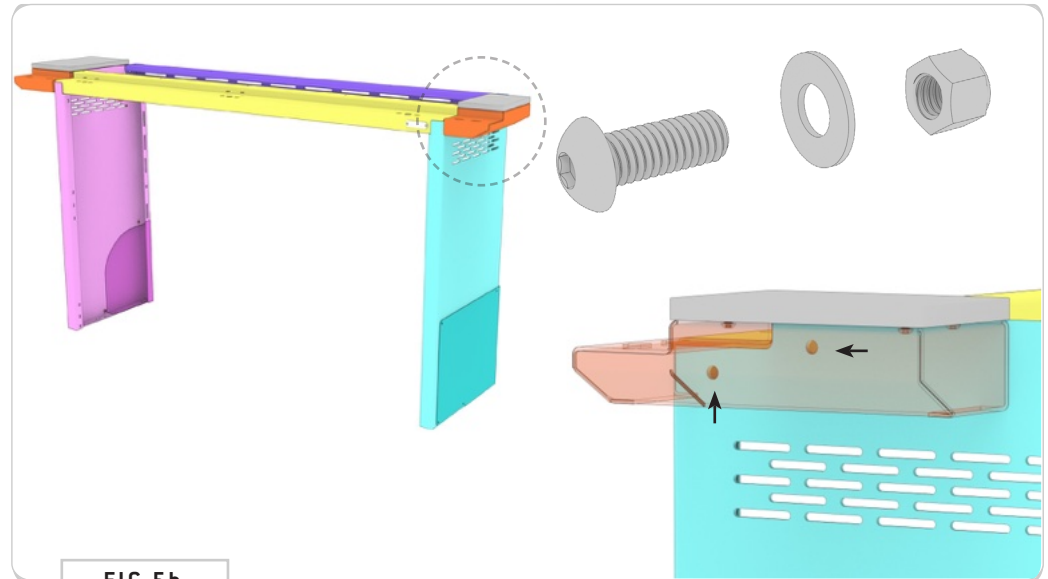


FIG 5b

PASSENGER REAR



FIG 6b

DRIVER REAR



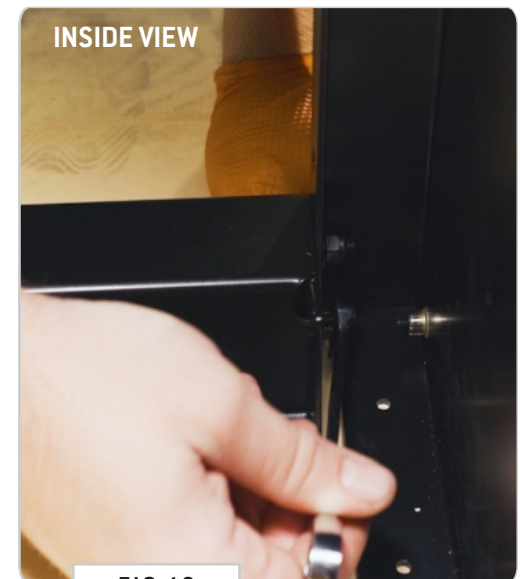
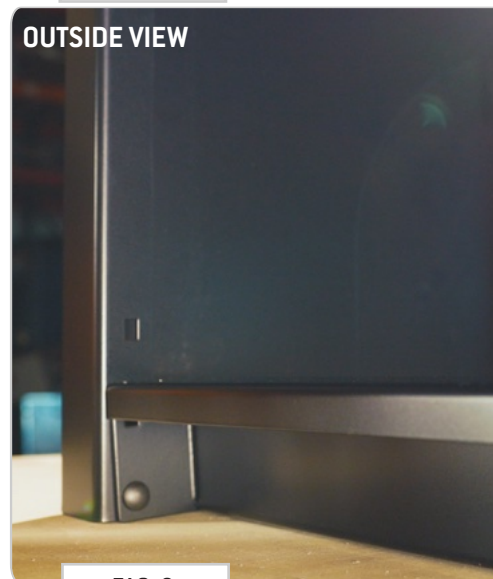
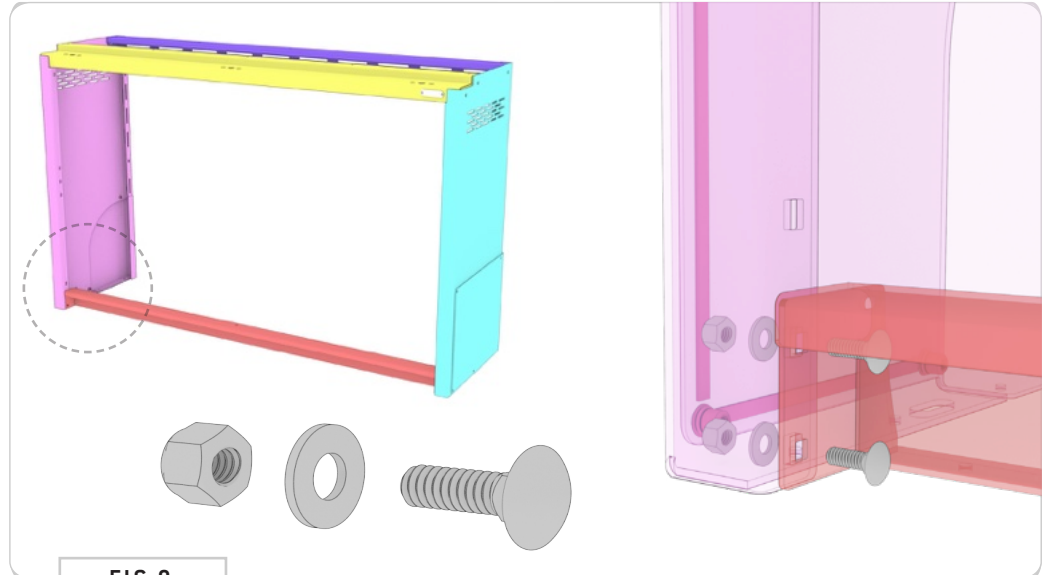
FIG 7b

**PARTS NEEDED:** + TOE KICK (UN1013B.2)

**TOOLS REQUIRED FOR THIS STEP:** + 7/16" WRENCH (RATCHETING PREFERRED)

## STEP | 02 ASSEMBLE CABINET FRAME

**2.3 Attach Toe Kick:** Secure the assembly to the Toe Kick using the provided 1/4-20 Carriage Bolts, Washers, And Nylon Locknuts.



## PARTS NEEDED:

## TOOLS REQUIRED FOR THIS STEP:

### STEP | 03 ATTACH DOORS AND SHELF

**3.1 Choose Table Side Configuration:** You may choose to have the **Utility Access Panels** or the **Solid Panel/Bungee** on *either* the **top** or the **bottom** of your **Middle Shelf**, depending on your needs. See **FIG 11** and **12** for visuals of both options. For best results, we'll be starting with the bottom set of doors.

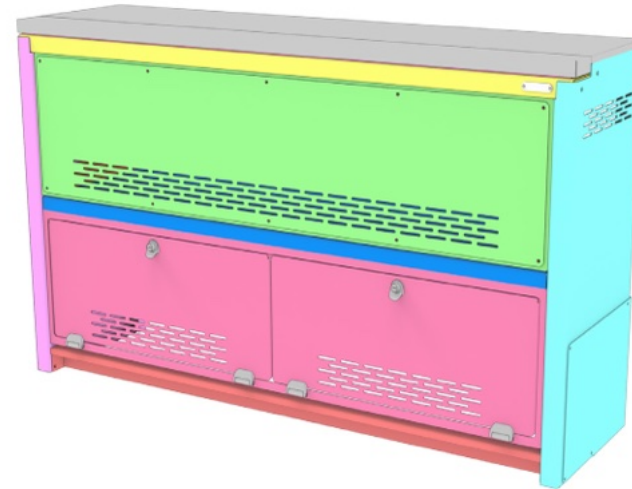


FIG 11

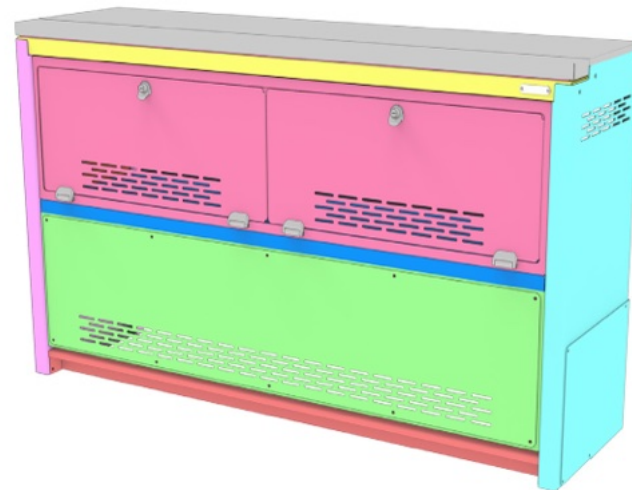


FIG 12

**PARTS NEEDED:** + UTILITY ACCESS PANELS (UN1013B.3)  
OR  
+ BUNGEE / SOLID PANEL BEZEL (UN1013B.3)

**TOOLS REQUIRED FOR THIS STEP:** + 7/16" WRENCH (RATCHETING PREFERRED)  
+ 7/16" SOCKET

## STEP | 03 ATTACH DOORS AND SHELF

**3.2 Install Bottom Panel/Bezel:** Slide the **Bungee/Solid Panel Bezel** or **Utility Access Panel Assembly** between the left and right side panels, pushing it down until it butts up cleanly to the **Toe Kick**. Secure the **Panel/Bezel** using the supplied **1/4-20 carriage bolts, washers, and locknuts** along both sides and the bottom flange (**FIG 13-15**).

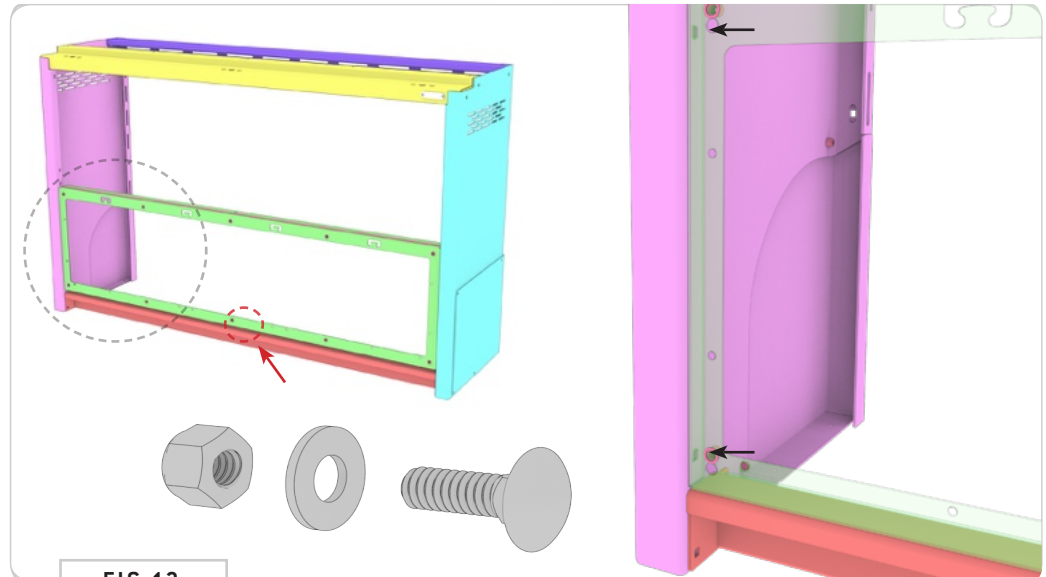


FIG 13

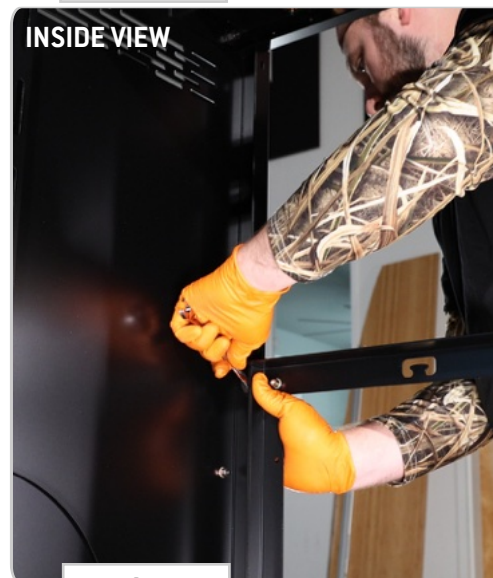


FIG 14

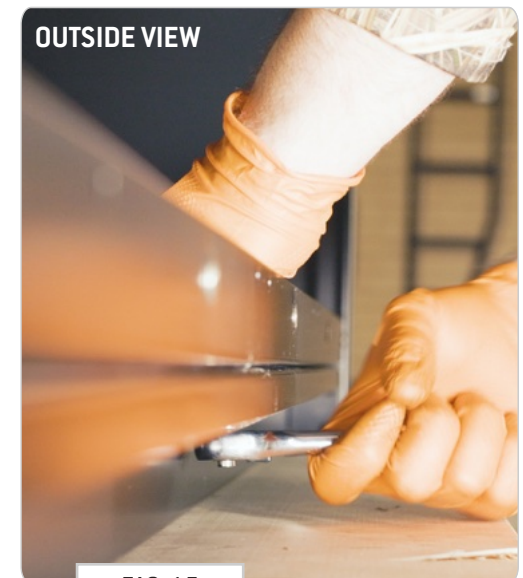


FIG 15

**PARTS NEEDED:** + CABINET SHELF (UN1013B.3)

**TOOLS REQUIRED FOR THIS STEP:** + 7/16" WRENCH (RATCHETING PREFERRED)

## STEP | 03 ATTACH DOORS AND SHELF

**3.3 Install Cabinet Shelf Assembly:** Slide the **Cabinet Shelf Assembly** between the **Side Panels** and lower it into position right above the **Lower Pane/Bezel**. Secure the shelf frame to the cabinet sides and lower panel/bezel using the supplied **1/4-20 Carriage Bolts, Washers, And Locknuts** (FIG 16-18).

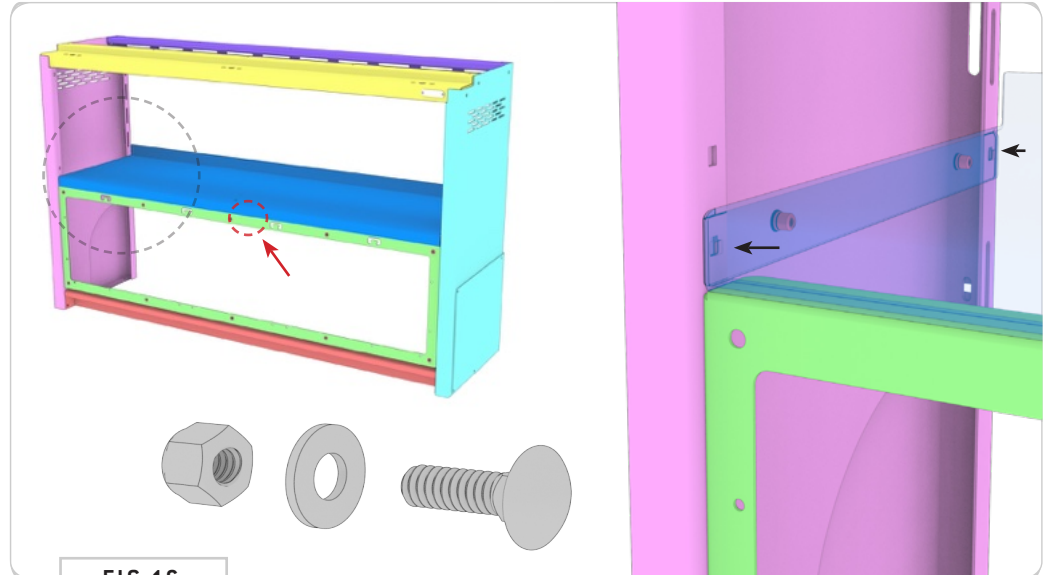


FIG 17

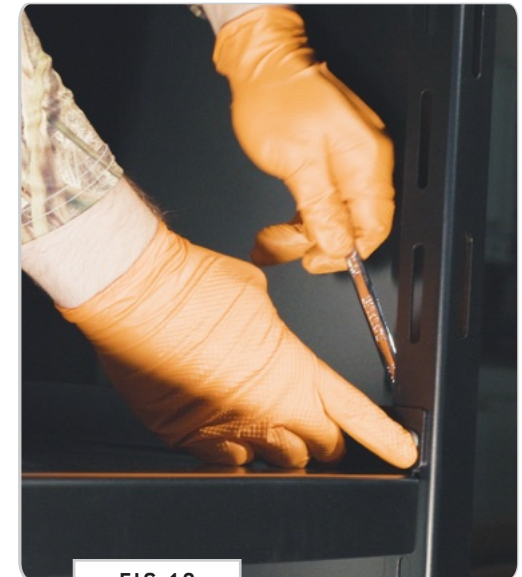


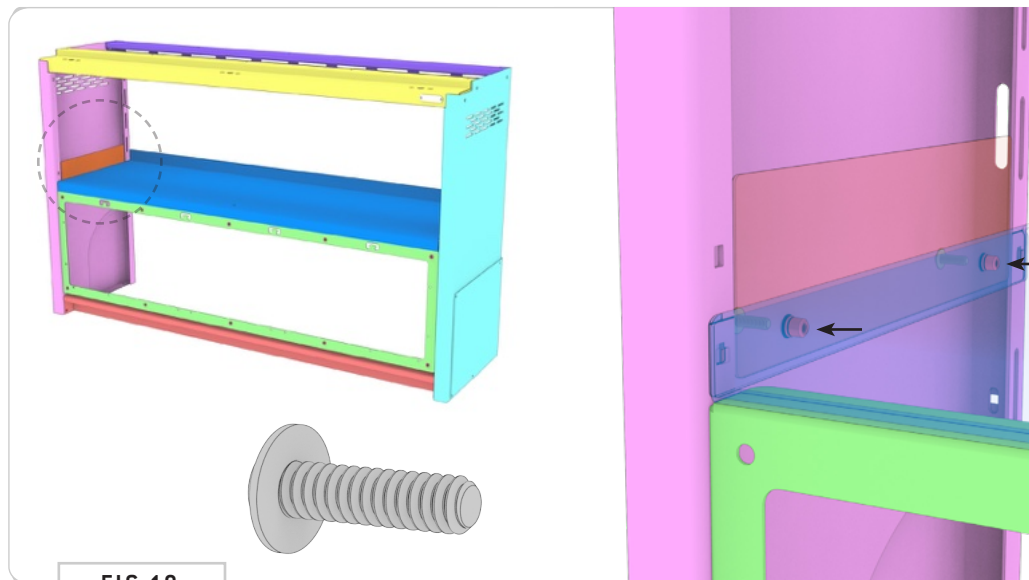
FIG 18

**PARTS NEEDED:** + SHELF SIDE PLATES (UN1013B.3)

**TOOLS REQUIRED FOR THIS STEP:** + 3/16" ALLEN WRENCH

## STEP | 03 ATTACH DOORS AND SHELF

**3.4 Install Shelf Side Plates:** Attach the **Shelf Side Plates** to the pre-threaded holes of the **Cabinet Shelf Assembly** using (2ea) 1/4-20 x 0.75 Flanged Button Head Screws (FIG 19-20).



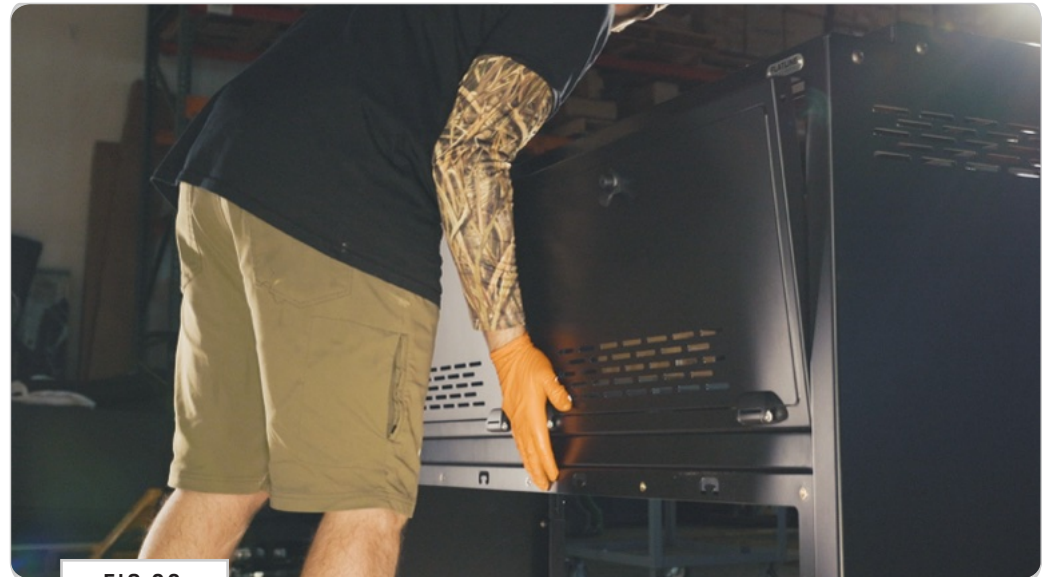
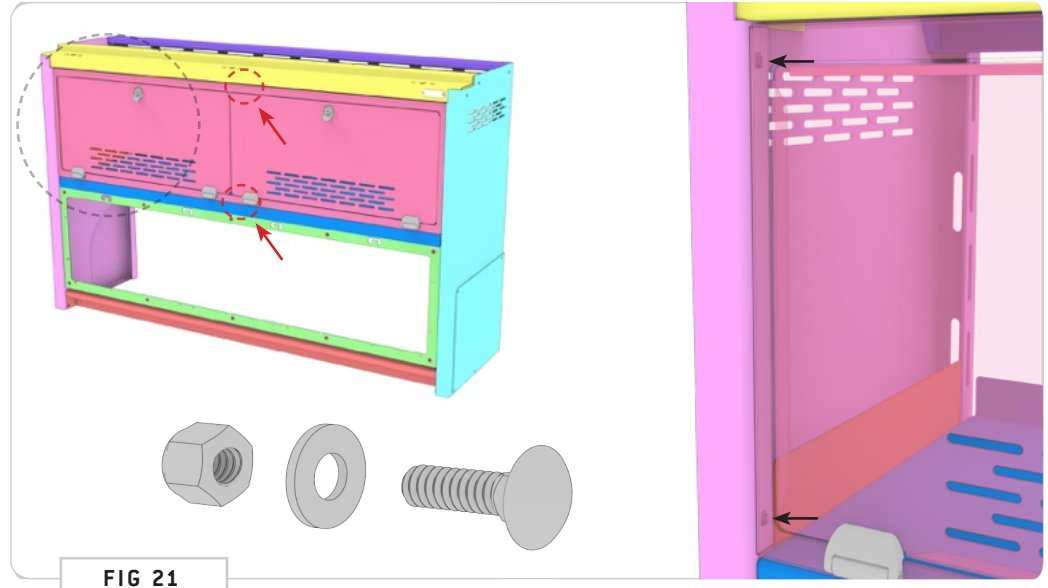
**PARTS NEEDED:** + UTILITY ACCESS PANELS (UN1013B.3)  
OR  
+ BUNGEE / SOLID PANEL BEZEL (UN1013B.3)

**TOOLS REQUIRED FOR THIS STEP:** + 7/16" WRENCH (RATCHETING PREFERRED)

## STEP | 03 ATTACH DOORS AND SHELF

**3.5 Install Top Panel/Bezel:** Slide the **Bungee/Solid Panel Bezel** or **Utility Access Panel Assembly** between the left and right side panels, pushing it down until it butts up cleanly to the **Middle Shelf**. Secure the **Panel/Bezel** using the supplied **1/4-20 carriage bolts, washers, and locknuts** along both sides and the bottom flange (FIG 21-22).

**NOTE** - If you are experiencing difficulty opening and closing the utility doors, you may have to loosen the previous 1/4-20 fasteners temporarily to achieve proper fitment.



**PARTS NEEDED:** + BUNGEE / SOLID PANEL (UN1013B.3)

**TOOLS REQUIRED FOR THIS STEP:** + 3/16" ALLEN WRENCH

## STEP | 03 ATTACH DOORS AND SHELF

**3.6 Choose Solid Panel / Bungee Configuration:** You may choose to either install the **Solid Panel** or the **Bungee** to the **Panel Bezel**, depending on your needs. See **FIG 23** and **24** for visuals of both options.

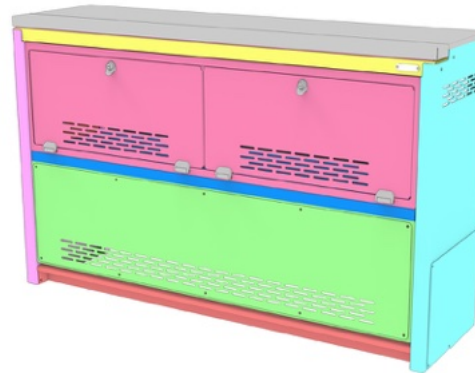


FIG 23

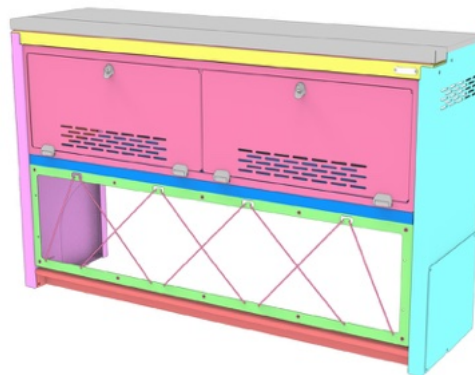


FIG 24



**PARTS NEEDED:** + CABINET TOP (UN1013B.4)

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

## STEP | 04 ASSEMBLE CABINET TOP

**4.1 Install Cabinet Top:** Place the **Cabinet Top** on top of the **Main Cabinet Frame** and align the mounting holes with those of the **Front and Rear Stretchers**. Secure it in place using the supplied 1/4-20 Button Head Screws (FIG 25-26).



FIG 25



FIG 26

**PARTS NEEDED:** + BED PINS (HW-UN1013B.1)

**TOOLS REQUIRED FOR THIS STEP:**

## STEP | 04 ASSEMBLE CABINET TOP

**4.2 Install Bed Pins:** Push the bulb end of the first **Bed Pin** into the pre-installed rubber bushing located on top of the **Front Top Stretcher**. Repeat this process for the remaining two **Bed Pins** (FIG 27-28).

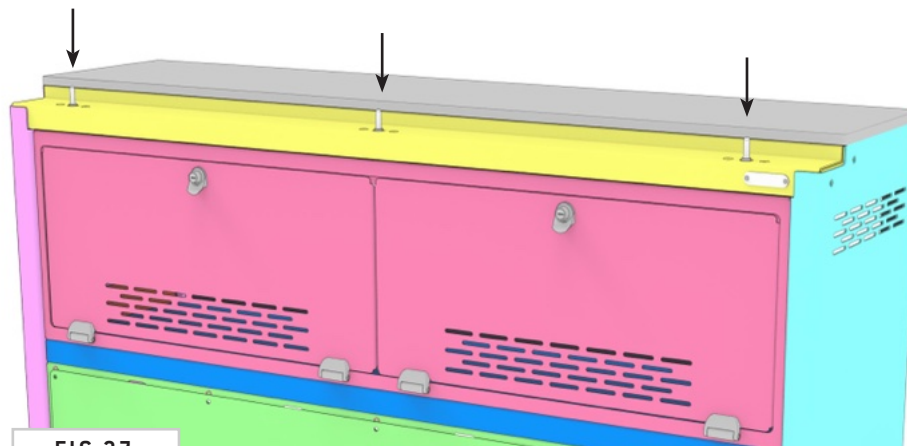


FIG 27



FIG 28

**PARTS NEEDED:** + COVER PANEL (UN1013B.2)

**TOOLS REQUIRED FOR THIS STEP:**

## STEP | 04 ASSEMBLE CABINET TOP

**4.3 Install Cover Panel (optional):** While the **Cabinets** are not in use as a **Bed Platform**, you may install the **Cover Panels** by aligning the rubber bushings on the bottom of the **Cabinet Cover Panel** with the **Bed Pins**, and firmly press/slide the cover panel down onto the pins (**FIG 29**).

For the **Front and Rear Cover Extension Cover Panels**, assemble using **Keyhole Bushings** and **1/4-20 Flat Head Hex Drive Screws (FIG 30a-30b)**. Simply insert into the keyways of the **Bed Extensions** and slide into place.

**NOTE** - If you haven't installed the **Front and Rear Supports** at this time, refer to **Step 2.1b** and **2.2b** for disassembly and install them one at a time.

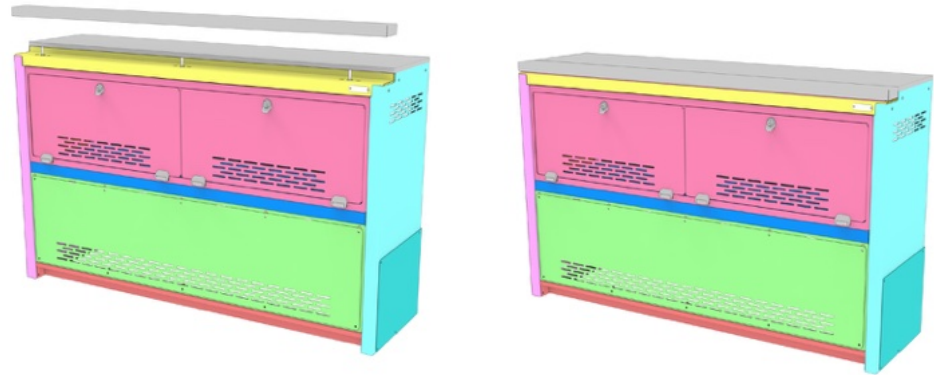


FIG 29

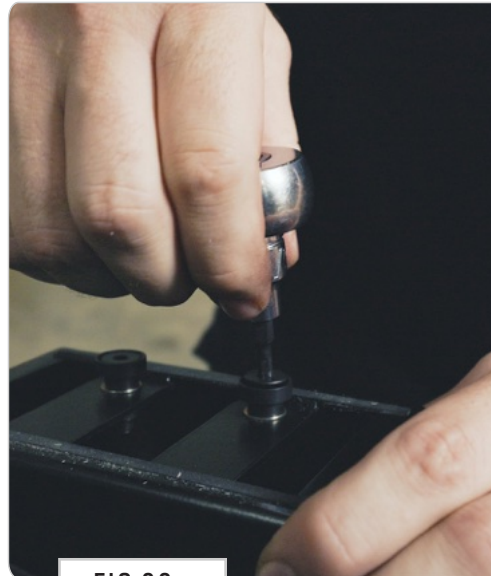


FIG 30a

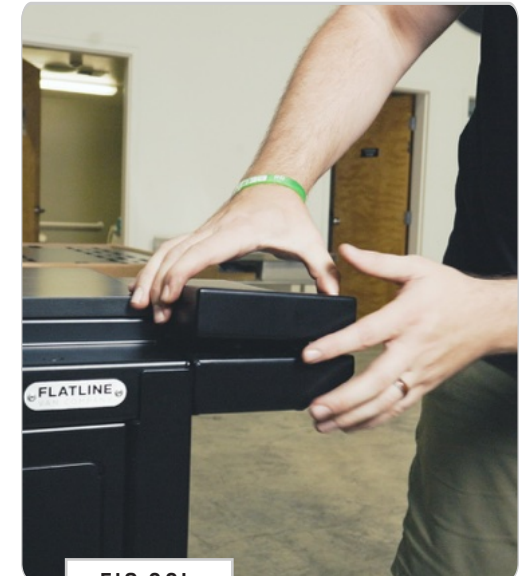


FIG 30b

## PARTS NEEDED:

TOOLS REQUIRED FOR THIS STEP: + 7/16" WRENCH (RATCHETING PREFERRED)  
+ 3/16" ALLEN WRENCH

### STEP | 05 FIT CABINETS TO VAN

**5.1 Fit Cabinet to Van:** If your **Modular Cabinet** is being installed in a **170" Wheelbase Sprinter**, you'll need to remove one **Wheel Well Cover** from each cabinet. To do this, remove the **(4) 1/4-20 x 0.75" Flanged Button Head Screws, Flat Washers and Locknuts** along the *front* and **(1) 1/4-20 x 0.75" Carriage Bolt with Flat Washer and Nylon Locknut** on the *side* securing the **Cover** to the **Cabinet End** (**FIG 31**). The specific side depends on whether the Hinge/Table Cabinets are installed on the driver or passenger side.

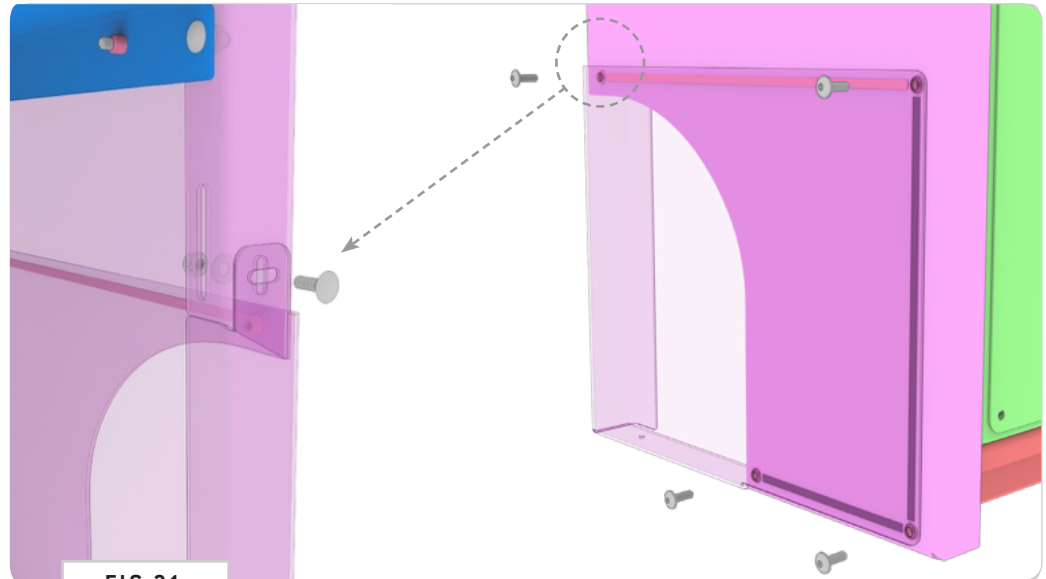


FIG 31



FIG 32

**PARTS NEEDED:** + WALL MOUNTING BRACKETS (UN1013B.1)

**TOOLS REQUIRED FOR THIS STEP:** + POWER DRILL  
+ 25/64" DRILL BIT  
+ RIVET NUT TOOL  
+ 7/16" WRENCH OR SOCKET  
+ 3/8" WRENCH OR SOCKET

## STEP | 06 INSTALL CABINET TO VAN

**6.1 Attach Cabinets to Van Walls:** Dry fit the **Mounting Brackets** to the available slots along the **Left and Right Cabinet Ends** for both the **Hinge and Table Side Cabinets** and mark your locations for drilling (**FIG 33**). Drill out your holes with a 25/64" Drill Bit, set your **Rivet Nuts** and secure to the **Cabinet** using **(2) 1/4-20 x 0.75 Square Neck Carriage Bolts, Flat Washers and Nylon Locknuts**. Secure to set **Rivet Nuts** using **1/4-20 x 1 Flanged Hex Head Screws** (**FIG 34**).

**NOTE** - If the **Wall Brackets** are able to span the area of a pre-existing mounting surface (such as L-Track) you can skip the **Rivet Nuts** and use your preferred mounting method. **Spacers** may be necessary in some mounting areas.

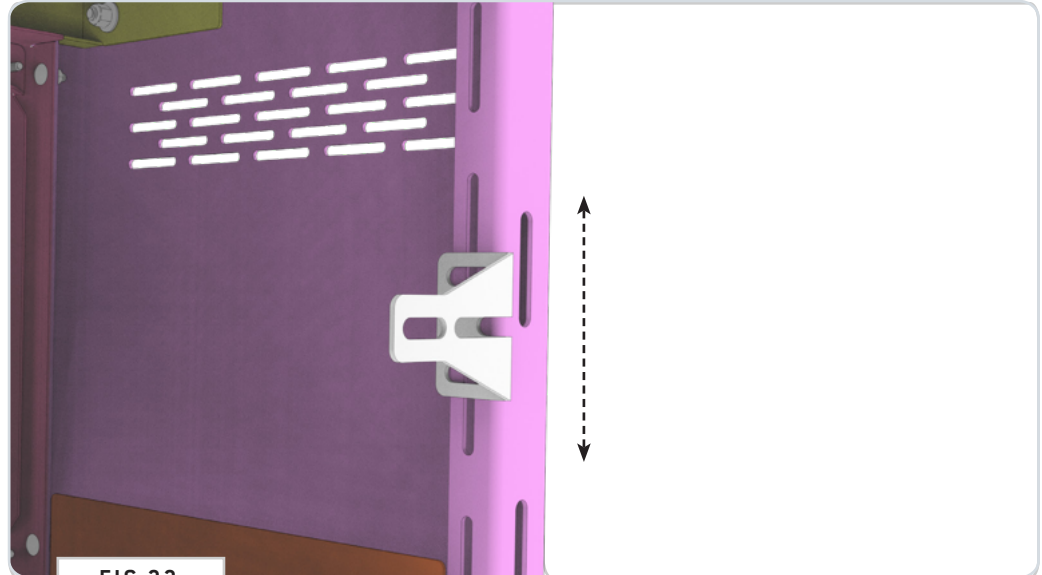


FIG 33

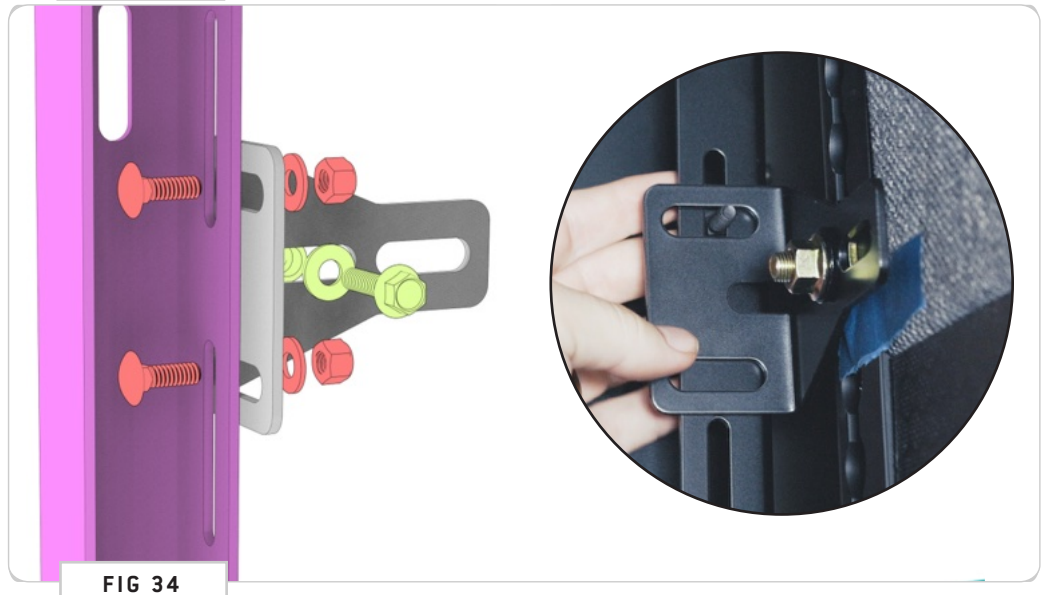


FIG 34

## PARTS NEEDED:

TOOLS REQUIRED FOR THIS STEP:

- + POWER DRILL
- + 5/16" DRILL BIT
- + RUST PREVENTATIVE PAINT
- + 9/16" WRENCH OR SOCKET

### STEP | 06 INSTALL CABINET TO VAN

**6.2 Attach Cabinets to Van Floor (optional):** See available mounting slots in the bottom of the **Left and Right Side Cabinet Ends** and **Toe Kick** in FIG 35. If desired, mark your preferred locations for mounting to the floor and drill out using a **5/16"** Drill Bit. Mount using hardware.

**NOTE -** While not supplied, we recommend using a stack of **3/8-16 Flanged Hex Head Screws, Mounting Washers, 3/8" Oversized Flat Washers and Nylon Locknuts** (FIG 36).

**NOTE -** Take precaution to ensure that where you choose to mount through the floor does not interfere with any factory components or aftermarket accessories already mounted to the bottom of your van. Also, make sure to paint the spots you drill with Rust Preventative Paint.

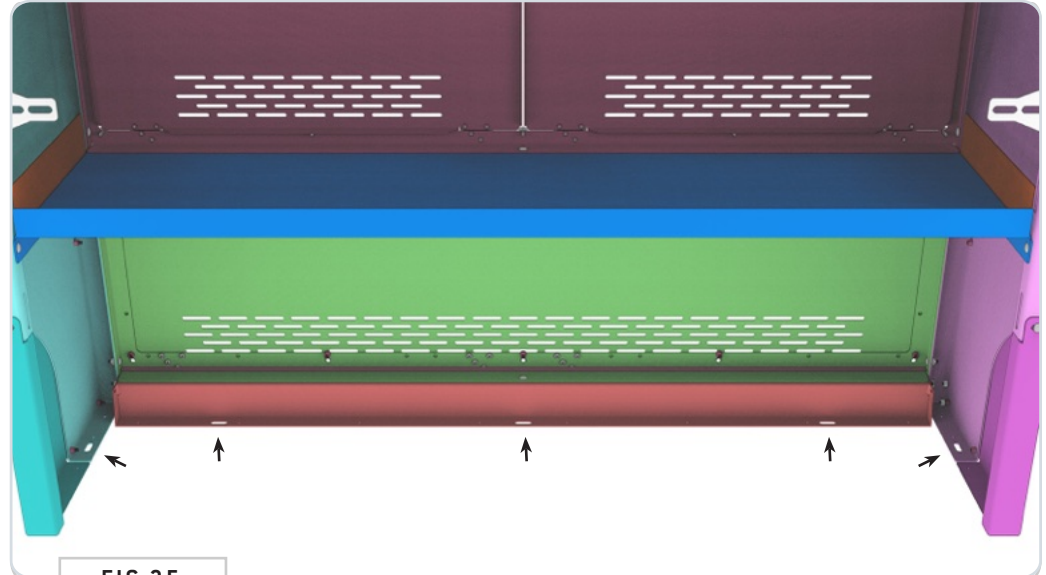


FIG 35

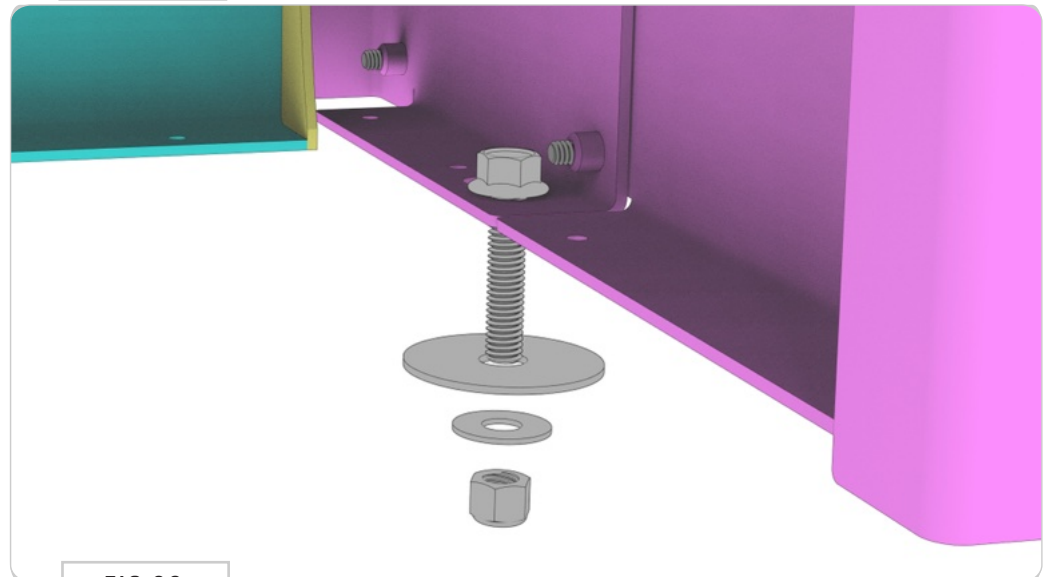


FIG 36

**PARTS NEEDED:** + BED EXTENSION (UN0312B.2)

**TOOLS REQUIRED FOR THIS STEP:** + MEASURING TAPE  
+ PENCIL  
+ SAW

## STEP | 06 INSTALL CABINET TO VAN

**6.3 Measure and Trim Wing Flares:** Mock up the **Bed Extension** to the **Flares** of your van, if applicable, and cut them to suit your available space.

**NOTE** - *Be very careful and trim only as much as you'll need to.*



FIG 37



FIG 38

**PARTS NEEDED:** + BED EXTENSION BRACKETS (UN0312B.2)

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

## STEP | 06 INSTALL CABINET TO VAN

**6.4 Attach Wing Support Brackets to Wing Flare:** Loosely attach **Wing Support Brackets** in the orientation as shown to **Wing Flares** using (1ea) 1/4-20 x 0.5 Button Head Screws, Lock Washers and Flat Washers (FIG 39).

**NOTE -** The **Wing Supports** are not directional and need to be installed as shown (FIG 40).



FIG 39



FIG 40

## PARTS NEEDED:

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

### STEP | 06 INSTALL CABINET TO VAN

**6.5 Fit and Install Bed Extension:** Loosely attach the assembled **Bed Extension** in the orientation as shown to the **Rear Stretcher** of the **Cabinet** using (2) 1/4-20 x 0.75 Square Neck Carriage Bolts, Flat Washers and Nylon Locknuts (FIG 41). Adjust left, right, up and down until you're satisfied with the fitments and finish by securing all fasteners (FIG 42).

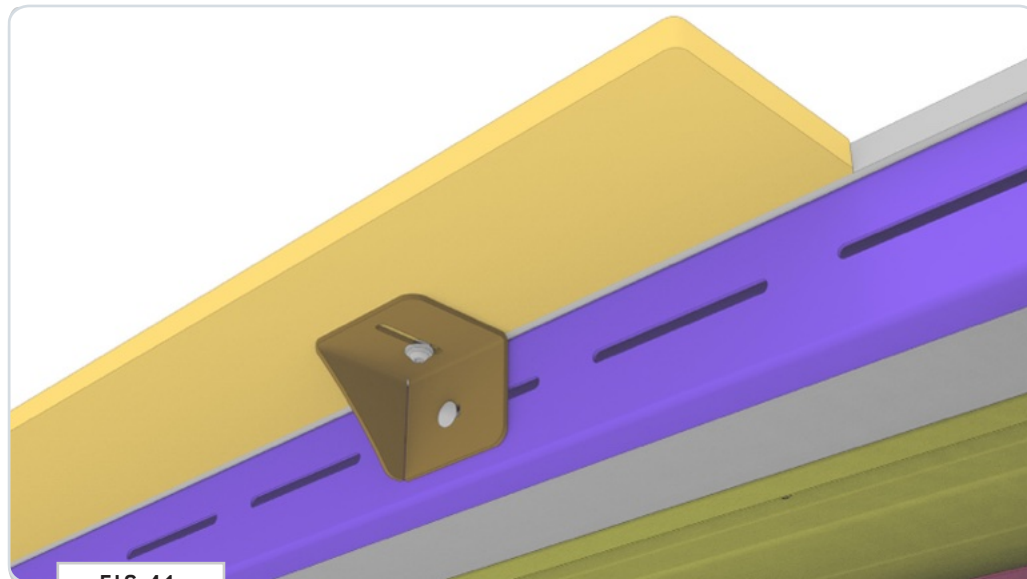


FIG 41

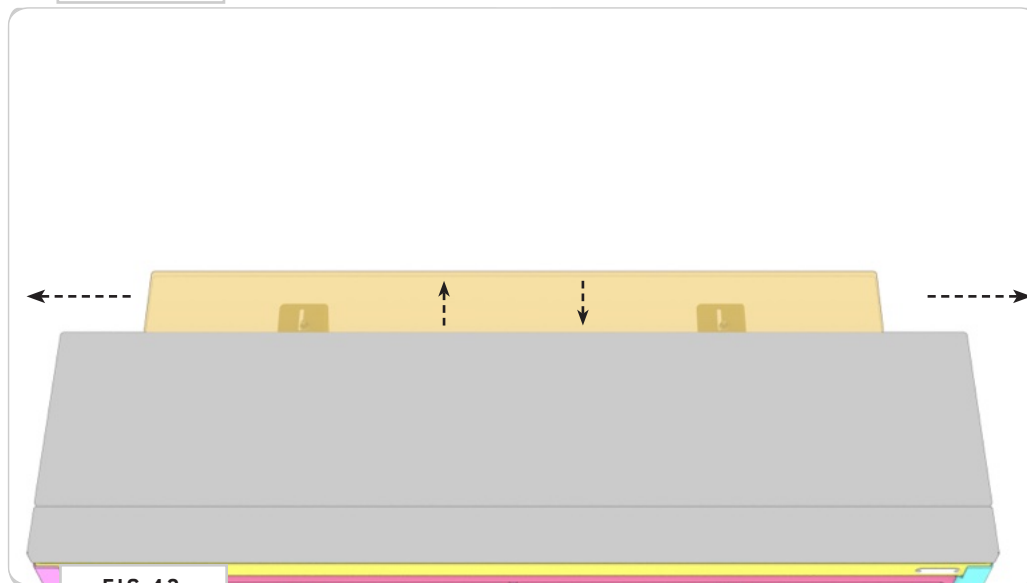


FIG 42

**PARTS NEEDED:** + BED PANELS (UN0312B.1)

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

## STEP | 07 INSTALL BED PANELS

**7.1 Fit and Adjust Bed Panels:** Loosen the **1/4-20 x 0.75 Flanged Hex Head Screws** in the locations shown in **FIG 43** and adjust the **Bed Panel Mounting Bushings** until it centered between the two **Wheel Well Cabinets**. Tighten up the screws once you are satisfied with the fitment.

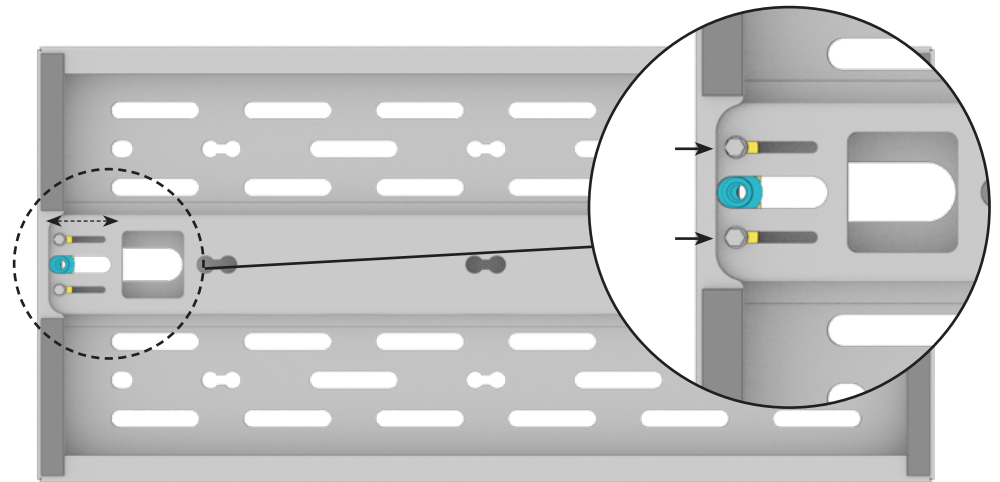


FIG 43

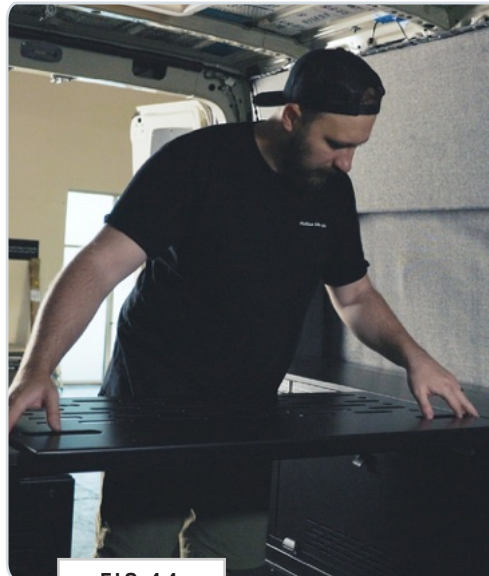


FIG 44

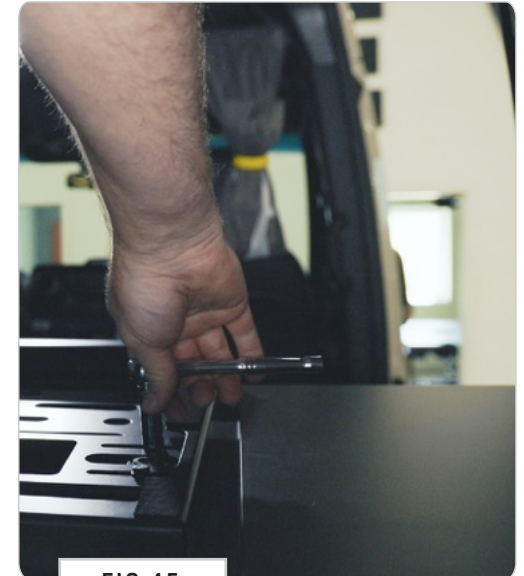


FIG 45

PARTS NEEDED:

TOOLS REQUIRED FOR THIS STEP:

## STEP | 08 FINISHING TOUCHES

**8.1 Mattress and Flare Inserts:** Throw on your **Mattress** and **Flare Inserts** and you're ready to roll!



FIG 46



FIG 47

# 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