Fitting Guidelines

VanLab

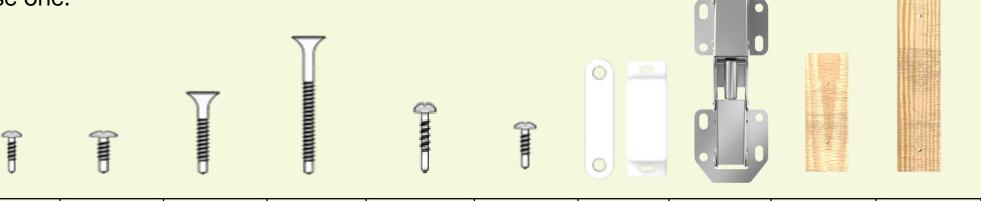
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Ford E Series Extended: North South



Parts (Ford E-Series EXT")

We provide all the parts you will need to put your kit together. We also provide some extras, just in case you lose one.



Size	#6 x 5/8"	#6 x 3/8"	#6 x 1/2"	#8 x 1 ¼"	#8 x 7/8"	#6 x 7/16"	Door Magnet s	Door Hinges	4" Batten (Pine)	6" Batten (Plywood)
Use	For A18 ONLY	Magnet catch plate	For Magnet Catch Body	4" & 6" Batten	Double Thickness (A6, A7, A14, A15, A16, A17, C30, C31, C33, C34, C36, C37, C38)	Hinge			General Build	Hatches
Quantity	6	6	12	650	80	96	6	12	200	8

Contents

The Rules & Process The Sections

- 1. The Floor
- 2. Section A
- 3. Section B
- 4. Section C
- 5. The Table

NOTE: These instructions are universal for our Ford E-Series Extended kits, and there maybe some small variations in the images shown. Please note, the build process and instructions are correct for your build.

The Rules & Process

IMPORTANT!

You <u>MUST</u> understand the Rules & Process before you begin, as they need to be followed to assemble your kit correctly.

Refer back to them regularly during the build process.

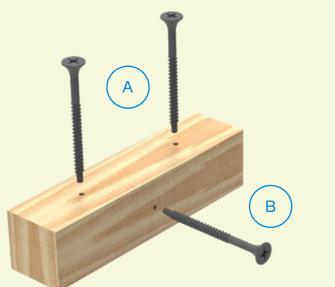
The Rules

Batten

The 4" Batten has 2 holes on one side and 1 hole on the another

Always screw the 2 first (A)

Then the 3rd (B)

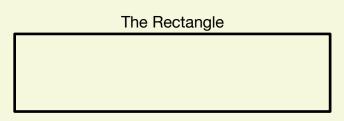


The 6" batten have 2 holes in the same orientation. They are used for the Section B hatches only

The 8" batten have 3 holes. They are used for the rails (see Page 19 & 24) only

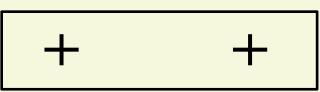
Panel Symbols

The panels have symbols to show you the location of the batten and how to fix the part. You have 3 symbols: The Rectangle, The Crosses and



Place the batten over the box on the face you are looking at. Screw into panel from the side you're looking at and screw through batten first and into the panel

The Crosses



The Line

Place the batten over the box, on the face you are looking at. BUT, screw from the opposite side

Place the batten on the opposite face of the panel.

Screw from the side you're looking at. In this case, screw through the panel first and into the batten

Let's try an example:

Find Panel C2, as C2 has both 'The Rectangle' and 'The Line' symbol

- The battens will be screwed in as pictured.
- You can see that the rectangle means the battens are on the front face of the panel
- The line denotes that the batten is on the back side of the panel.
- Both are screwed in from the front face of the panel



Key Tip!

For anytime you see 'The Rectangle'. Partially drive the screws into the battens separately before fastening to the panel for easier pilot hole location.

!Be careful to line up the pilot holes with the screw as the batten may split if they are incorrectly aligned. Don't worry if you do, as we have provided plenty of spares!

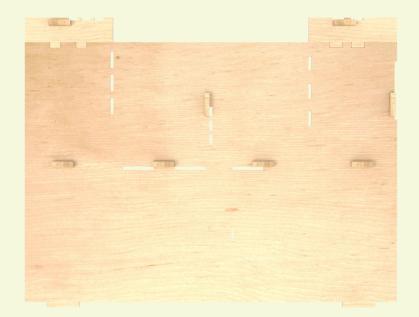


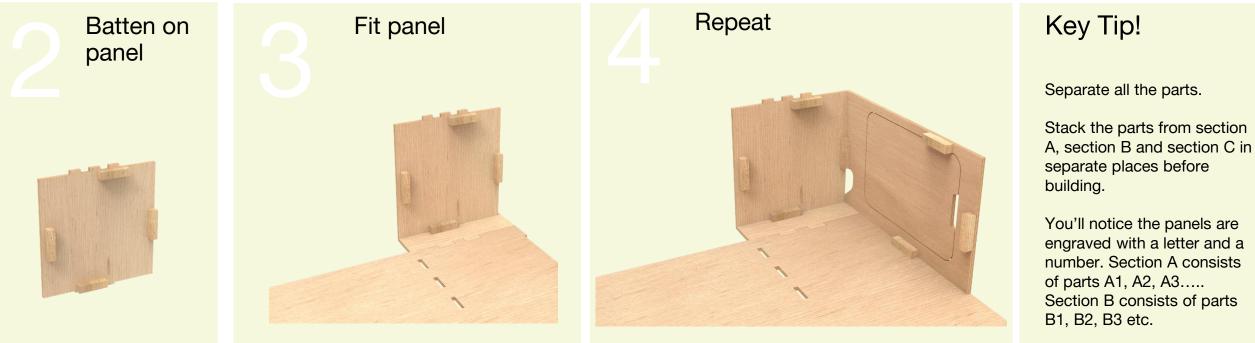
Key Tip!

For anytime you see 'The Line'. Partially drive the screws through the panel separately before fastening to the batten. Same approach, but the opposite order.

The Process

Adding panels to the floor







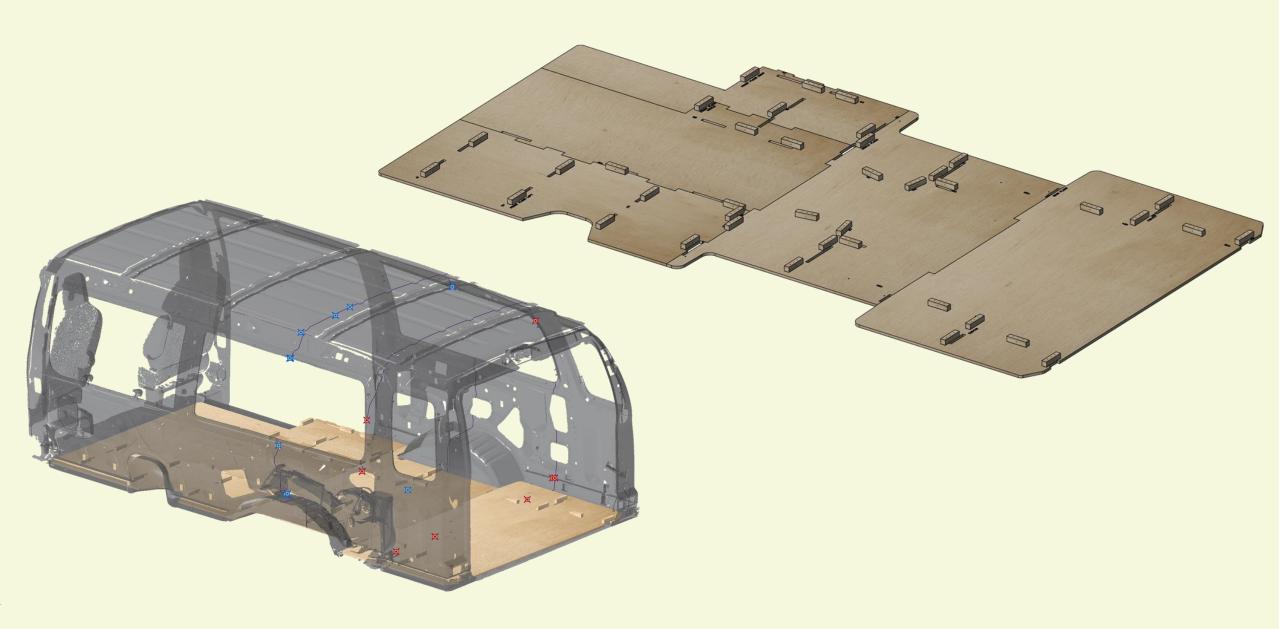
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Lets get started!...

1.The Floor

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The Process

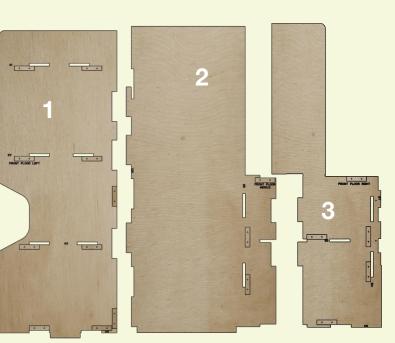
Lay the floor pieces down **OUTSIDE** the Van first with the engravings facing up

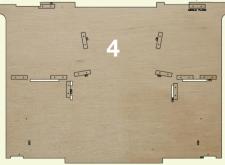
There are 5 floor sections.

- 1. Front left
- 2. Front middle
- 3. Front right
- 4. Middle section
- 5. Rear section

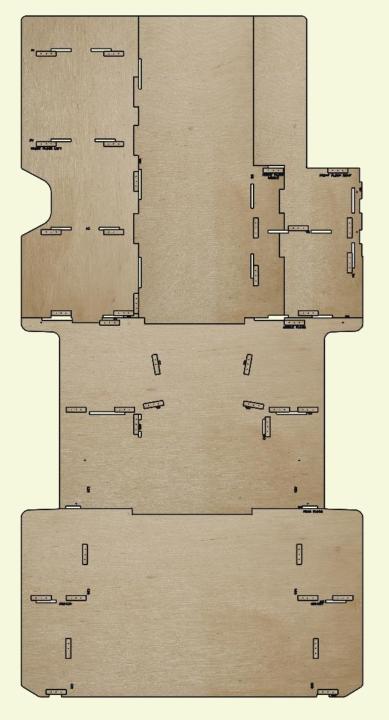
Screw the batten to the floor

- You now need to screw each of the 28 batten to the top face of the flooring sections. You can distinguish what the top face of the floor is by the engraving. The underneath face will be clear of any engravings.
- The batten locations are denoted by 2 'Crosses' in a rectangle (*Reminder: see Page 6*)
- To do this, place the batten down facing you BUT screw from the otherside of the flooring so the screw goes through the flooring FIRST and then into the batten.
- Now the floor is in place outside the van you can screw the batten to each part more easily before carrying them inside the van and slotting in place like a jigsaw.





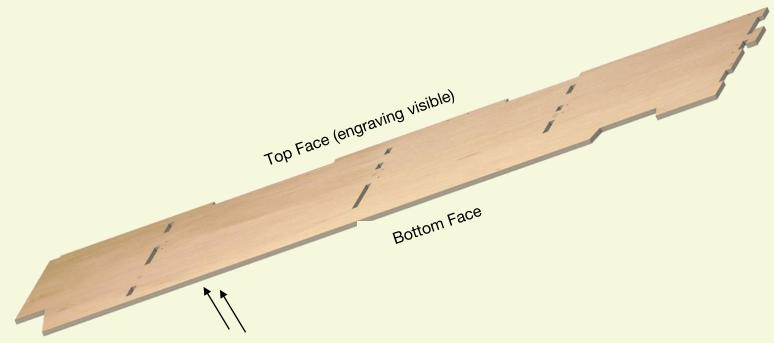




The Process

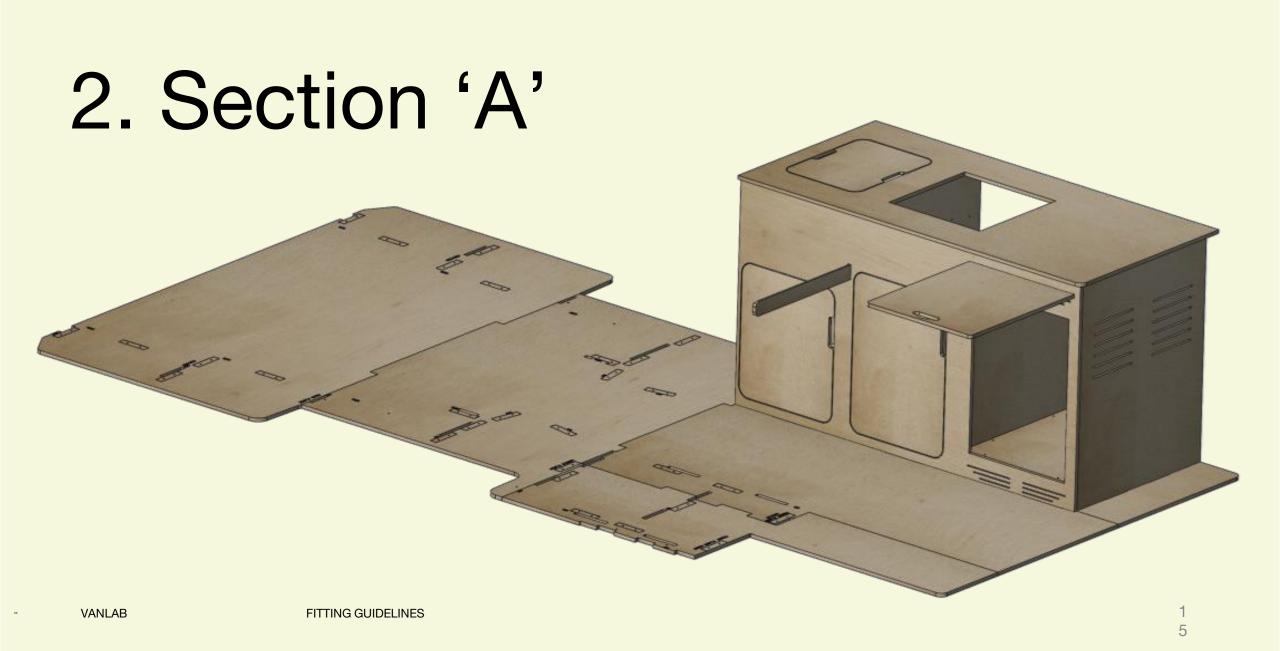
Screw the batten to the floor

- You now need to screw each of the 28 batten to the top face of the flooring sections. You can distinguish what the top face of the floor is by the engraving. The underneath face will be clear of any engravings.
- The batten locations are denoted by 2 'Crosses' in a rectangle (*Reminder: see Page 6*)
- To do this, place the batten down on the top face you BUT screw from the bottom face of the flooring so the screw goes through the flooring FIRST and then into the batten.
- Once all the batten is secured to the 5 flooring sections, the flooring can be transferred to the van.
- It is slotted into place as per the previous page. It slots in place like a jigsaw!



For the flooring, screw batten in from the bottom face

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Find panel marked A1





Find the #8 x 1 1/4" screws and 4" batten

Slot A1 in place

(see marking on floor).

NOTE: A1 also shows the locations of other panels. ALL panels should be fitted in order, so we will come back for A5 A6, A12, A15 and A17.

Secure A1 in place by fastening any

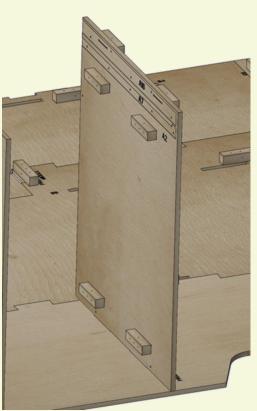
remaining pilot holes.



Find panel A2. Screw the batten on to A2 as per the symbol instructions.

A2 has batten on both the front and rear face, as noted by 'The Crosses' and 'The Line' symbols. Refer back to "The Rules" if unsure.

As with A1, we are only concerned with A2 at this stage, and will return for A7 and A16 Locate the A2 slot on floor and secure in place.



Repeat for A3. Remember from our example earlier, A3 has batten on both

sides. Note the symbols on this part.



Repeat for A4.

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With A4 in place, we can no secure the A5 Shelf between A1 and A2. The shelf is located on 3 batten and secured from the top. You can screw through the shelf into the batten.

Be careful to ensure you correctly locate the batten pilot holes, as these holes are blind when fitting. The inboard edge of A5 (Green) will sit flush to the inboard face of A1 and A2.

It is easiest to drive the screws through part A5 until they are just showing on the other side by approx. 1/8". You can use these screws as a guide to locate the batten pilot holes.



A6 is fitted with the 8 x 7/8" Screws. As per A5, you can pre-screw these into the part A6, until the tip is just showing on the other side. This will help you locate the pilot hole in A1.

Once A6 is fitted with 2 screws, you can check the alignment to the engraved box on A1. If correct, you can secure in place with all 5 screws.



If you have missed a pilot hole, this alignment will be out. Remove Part A6 and ensure the screws are locating into the pilot holes of A1.

Step 10 can be repeated for fitting A7 to A2 using the 8 x 7/8" screws



A8 is a shelf between A3 and A4. It is fitted to three batten and screwed from the top using the $8 \times 1^{"}$ ½ screws. Again, be careful to line up the pilot holes. The front edge should be flush with shelf A5.



Repeat for A9



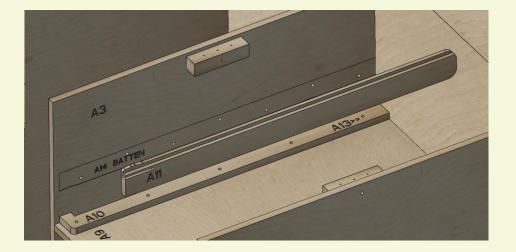
- 14
- You can now fit the rail A10, using the same process we used for A6 and A7.
- Using the 8 x 7/8" Screws, drive 2 screws through part A10 until they are showing on the other side. You can use these screws as a guide to locate the pilots holes on part A9. You can also check against the engraving on Part A9 to ensure you have Part A10 correctly located.

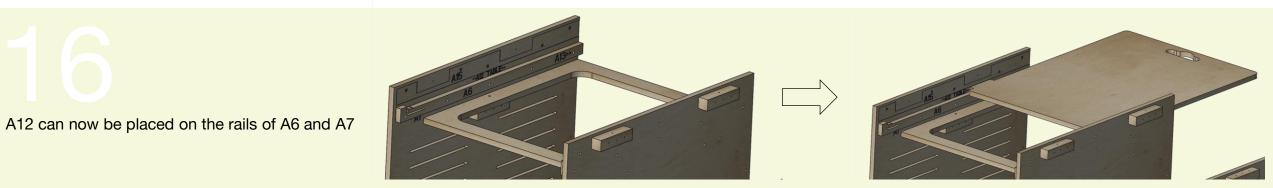


With A10 in place, we can now sit A11 into the gap between A10 and A3. We will secure this in place using A14 later.



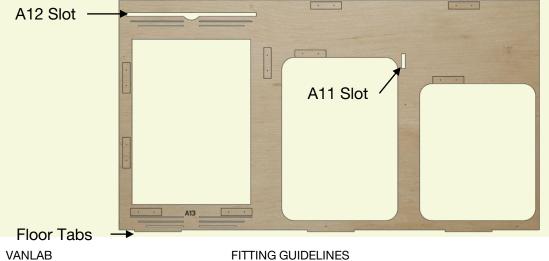


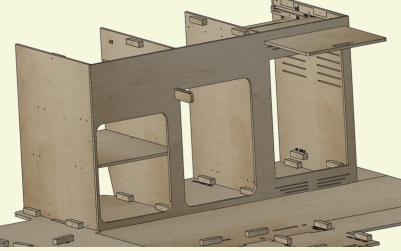




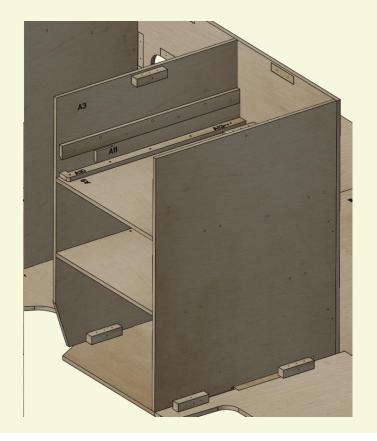
We are now ready to fit A13. A13 is the front panel of the kitchen unit. It must slot into the floor, support the Table A12 and support Part A11. With the part held approximately in place, slot A12 and A11 through A13. Once these parts are through, you can then seat A13 into the floor. You will feel it drop into place. Visually, you can see it will be flush with the uprights of A1 and A4, while being flush with the top face of A1, A2, A3 and A4. A13 is then secured to A1, A2 & A3

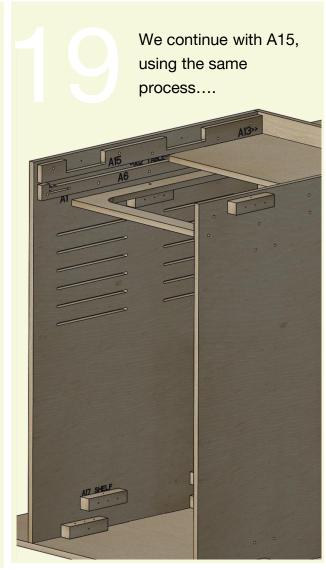
using the third hole of the available battens.

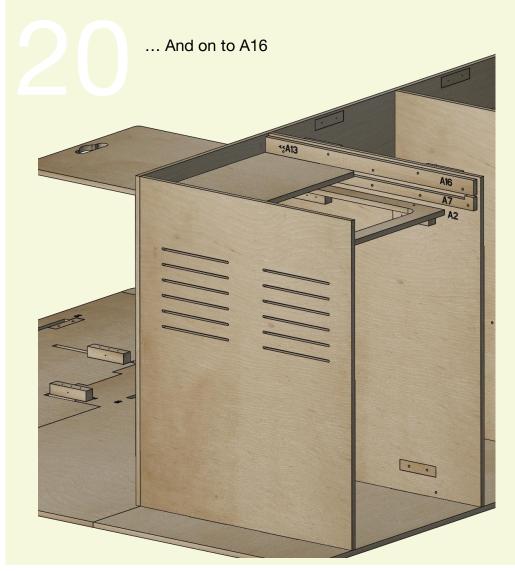




With A13 in place, we can now secure A11 and A12. Firstly, we fit A14 using the 8 x 7/8" screws, this part is located and fitted using the same technique as A10.







HINGES

Now would be a great time to take a break from the woodwork, and fit the kitchen door hinges.

- Find Part A13 doors. To confirm the orientation of the doors, you can check the grain patten against the A13

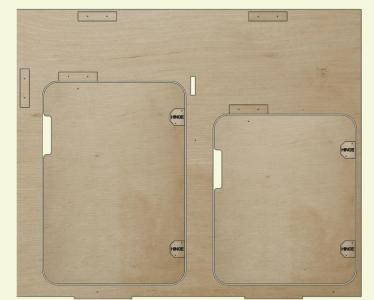
panel by holding the doors in position. You can also identify the correct position, by ensuring the door handles

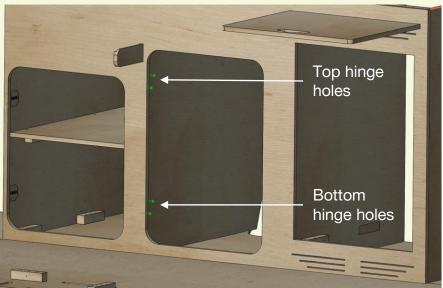
are facing forward.

- Looking on the inside of the door panels, you can see 2 sets of 2 holes in a square pattern on each door; these are for the hinges. These hinge holes correspond to the same hole patterns on A3 and A4.
- Please note: The hinge holes on A3 are not labeled, although the pilot holes are present. Please see the diagram below for the location of the A3 hinge pilot holes
- We can now open the bag of hinges, and you'll note the note the hinges will have a sticker "door this side".

This indicates which part of the hinge that orientates to the door. You can leave the sticker in place until the doors are fitted and remove this after.

- We advise that you open the hinges up to 180degrees before fitting. This makes it easier to secure in place.







Starting with A4.

- Using the #6 x 3/8 screws, secure the 2 hinge plates to the upright of A4 using the supplied pilot

holes. These holes will align with the slots of the hinge plates, to allow for adjustment.

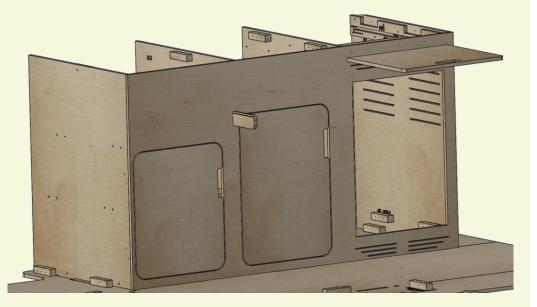
- Secure the hinges in place with the screws in the middle of the hinge plate slot first. You can adjust later when the doors are fitted.
- Holding the door in its open position and using the #6 x 3/8 screws, secure the door to the hinge

plates. Again, place with the screws in the middle of the hinge plate slot first.

- You can now close the door and check the alignment. If the door needs adjusting:
- Loosen the screws >>> Move the hinge plate by manipulating the door >>> Tighten the screws.
- It may take a few attempts to get them just perfect in the open and closed position. Once happy, you can secure the remaining holes in the hinge plate and move on to the second door.
- Now, repeat for A3 hinges.

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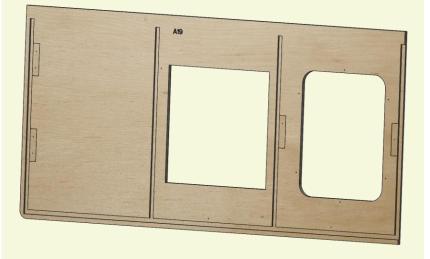
Back to the woodwork.

A17 Shelf can now be fitted between A1 and A2. This shelf will act as the fridge floor, It is secured in place using the same technique as shelf A5, A8 and A9.



Prior to fitting the benchtop, A19, we need to fit the A18 frame. This will support the worktop hatch.

Panel A19 can be seen below





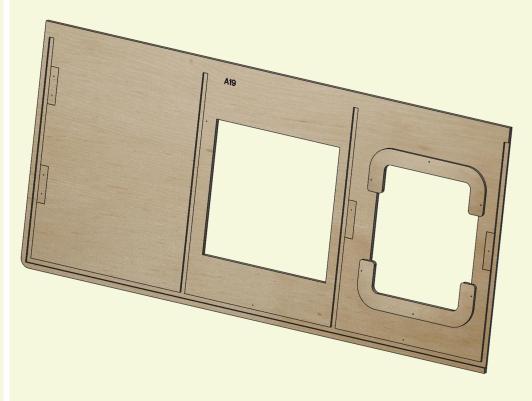
The A19 frame is in 2 sections.

The grooves will slot into the hatch space of part A18. It is secured in place with the $6 \times 5/8$ " screws



Secure in place by screwing in from the bottom

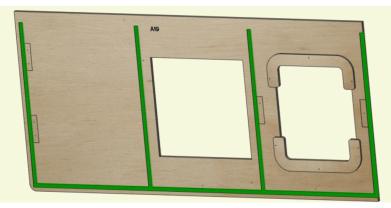
using the 6 existing pilot holes.



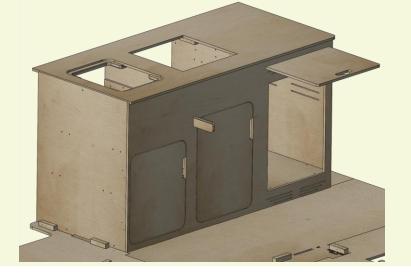


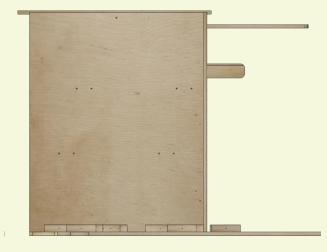
Ensuring all 4 battens are added to the underside of the benchtop (A19), the benchtop can be lowered into place.

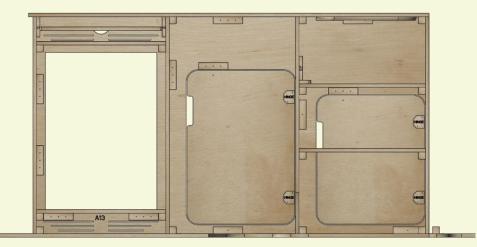
Note, the benchtop has rebates (or channels) which will locate on A1, A2, A3, A4 and A13. When fitting the benchtop, check to see if all 5 panels are correctly located into their rebates.

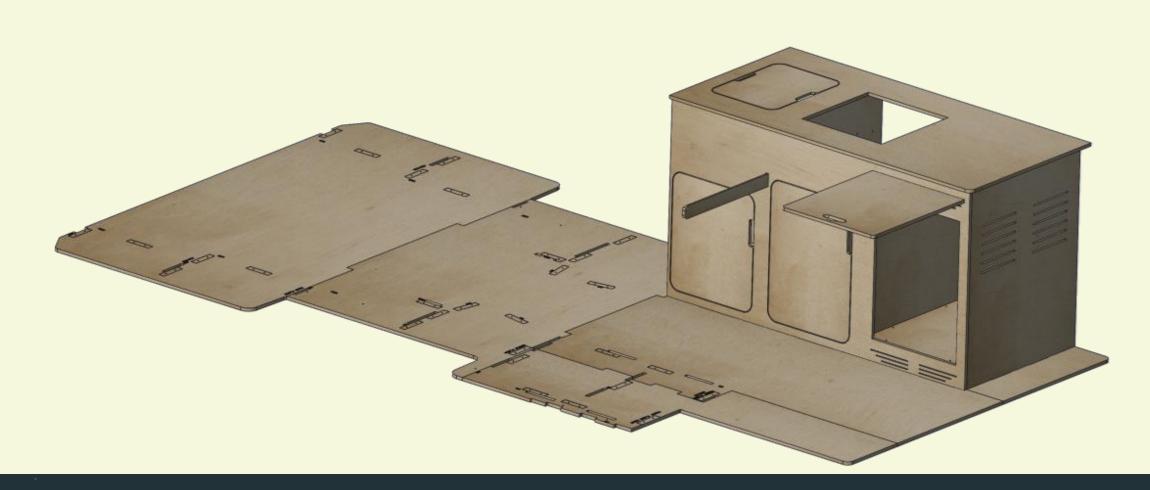


With A1, A2, A3, A4 and A13 located into the rebates of A19, all the panels can be secured with batten in the 8 locations around the unit. As you are securing these final batten, check to make sure all the panels have a flush finish to each other. Pay particular attention to the interface between A1 & A13, and A4 & A13.

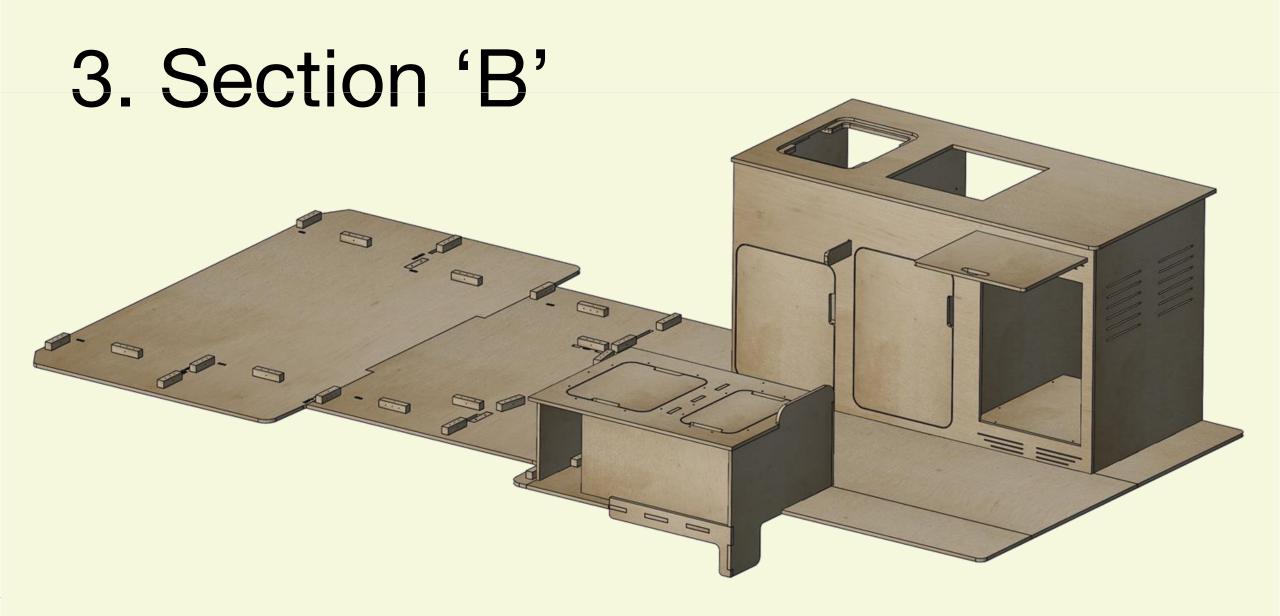








Section A is complete

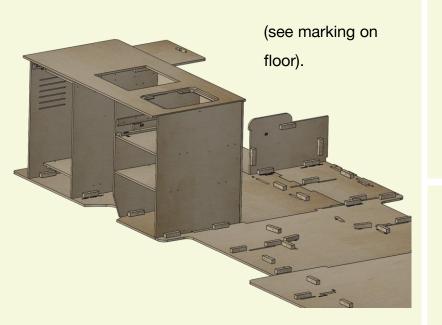


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Find Panel B1. Fit all batten to panel B1 using the 8 x 1 1/4" screws

Note, symbols indicate direction of screw.

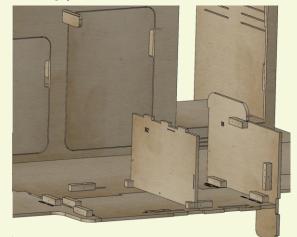
Slot B1 in place

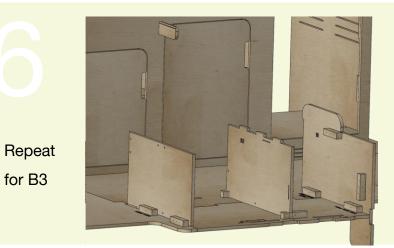


Secure B1 in place by screwing any remaining pilot holes.

Fit all batten to panel B2. Reminder, symbols indicate direction of screw.

Slot B2 in place (see marking on floor). Secure B2 in place by fastening any remaining pilot holes.

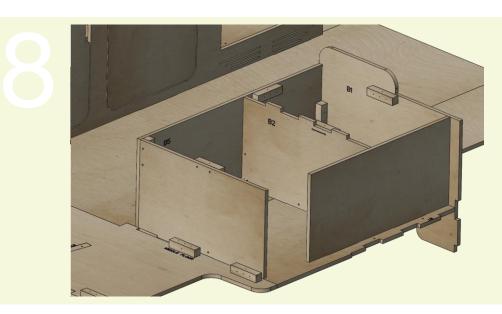




for B3

Slot B4 into place, and secure with remaining pilot holes.

B4 will secure to the floor, B1 and B2

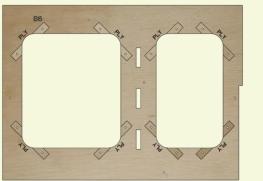


Panel B5 can now be slotted in place and secured down in the same process.

B5 will secure to the floor, B1, B2 and B3.

When securing B5, pay close attention to ensuring it sits flush to B1 and B3 at the front and rear of the bench.

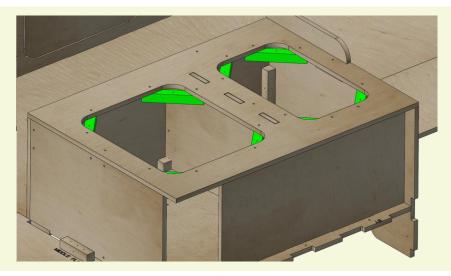
B6 is the bench top and has 2 hatches. The hatches are supported by 6" batten.

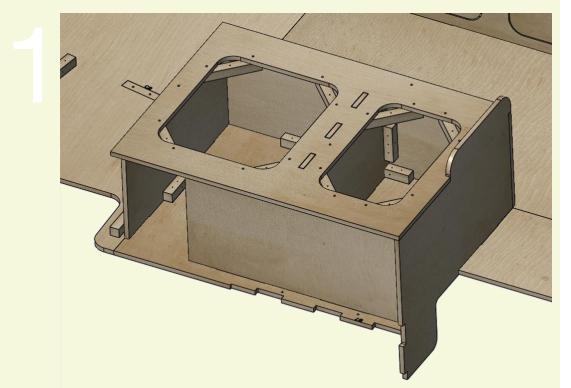


sing the 6" Plywood battens, vo

Using the 6" Plywood battens, you can fit all 8 battens to the underside of B6 (green).

The screws are secured from the top face, as the screw heads will be hidden by the bench cushions.





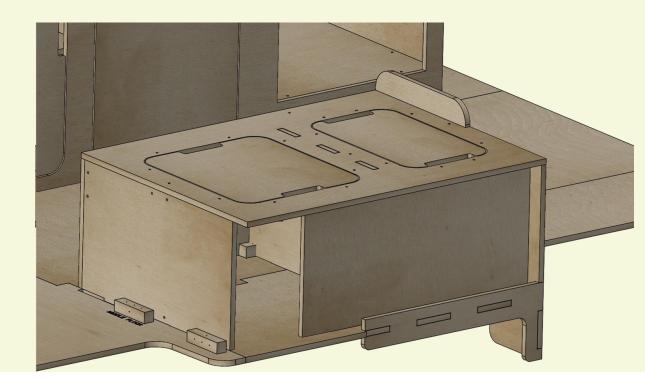
- Panel B6 can now be fitted to the bench. It will locate on the tabs of B2.
- Panel B6 is screwed in from the top, to the batten on B1, B2, B3, B4 and B5.
- When securing Panel B6, take care to check it is flush to the vertical benchtop

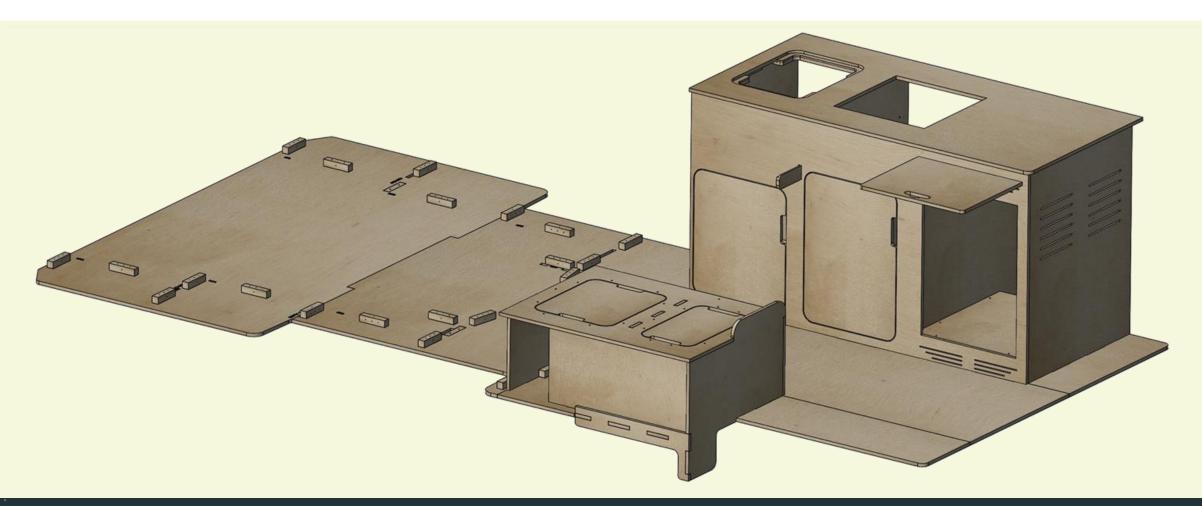
panels (B1 thru B5) to ensure a nice finish.

- To finish off sections B, we can fit Panel B7.
- B7 is fitted with 2 battens attached to the part, and then secured to

the floor as below.

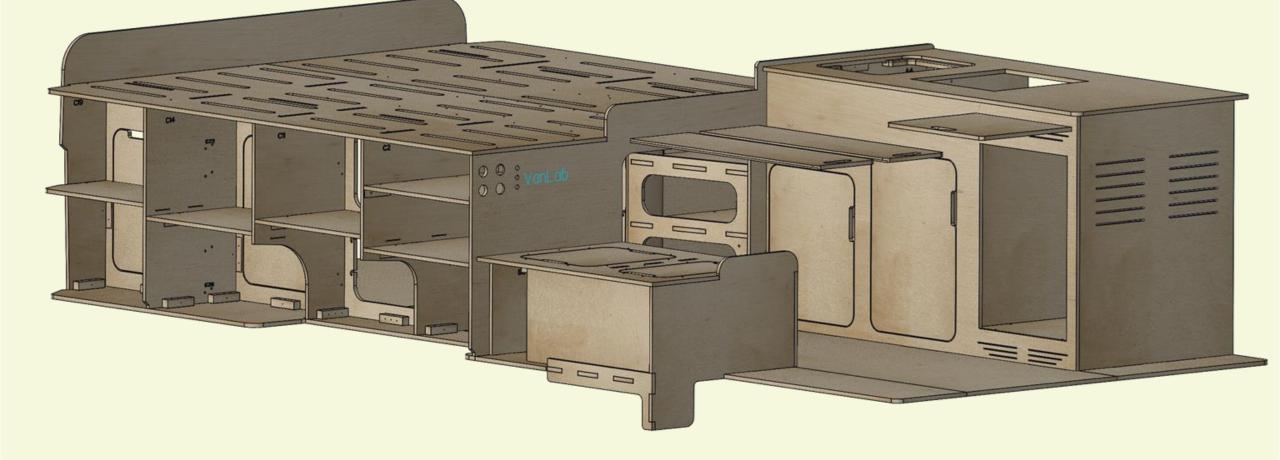
- Lay the bench hatches into place, and Section B is now finished!





Section B is Complete

4. Section 'C'

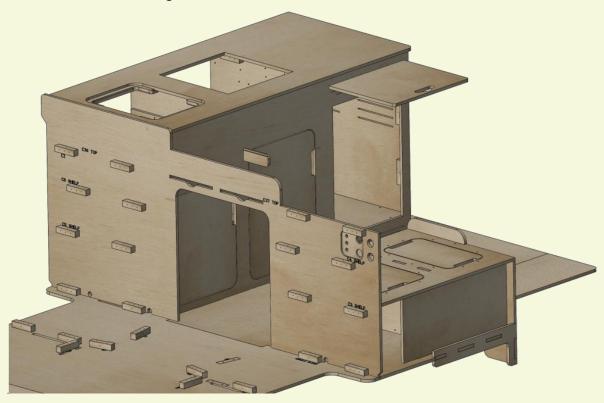


Section C

Find Panel C1 and attach all batten as per the symbols.

Slot C1 into place and secure down to the batten in the middle section

of the floor using the $8 \times 1 \frac{1}{4}$ " screws.



Repeat the process for C2. Note, C2 has batten on both sides. Refer back to the rules in unsure about the symbols

Section C

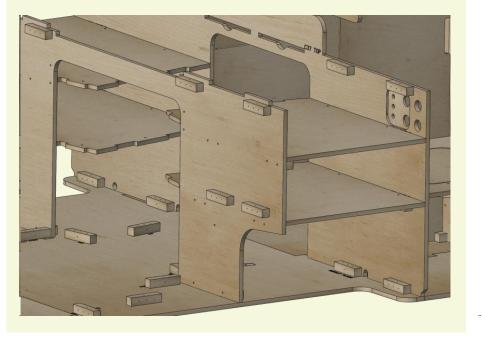
C3, C4, C5 & C6 are all shelves which fit between C1 and C2. The location of each shelf is

identified by engravings

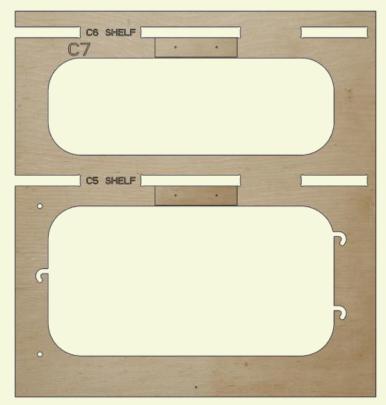


The shelves are all screwed in from the top, as per the kitchen shelves.

Again, drive the screws through to show approx. 1/8" of the screw tip on the other side. This will help you locate the shelf pilot holes before securing in place.

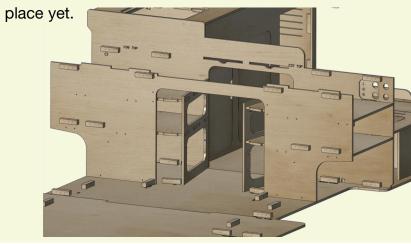


The upright panels of C7 is slotted on to the shelves of C6 and C5. While C8 is slotted on the shelves of C2 and C3 Find C7 & C8 and add their battens.

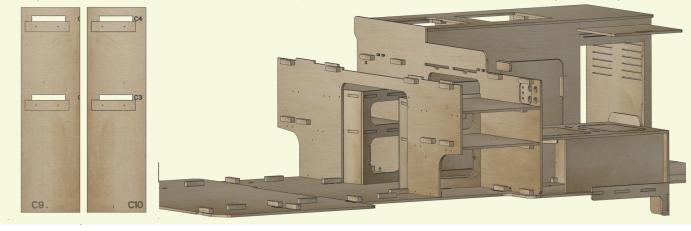


Section C

Place C7 and C8 in position, but do NOT screw into

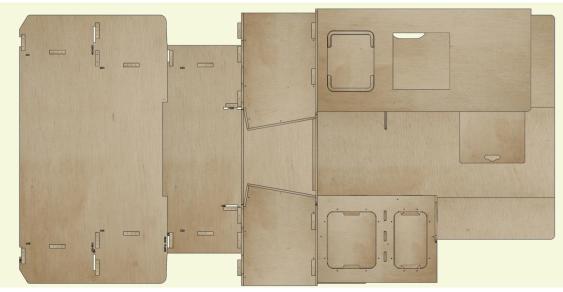


Secure batten to panels C9 and C10. You can then position these next to C7 and C8. Once both panels are located on each side, and they are sitting flush, you can secure all 4 panels in place.



You will secure C7 and C9 to the drivers side, with 6 battens. The same for C8 and C10 on the passenger side.

Take care to ensure the parts are seated nicely, and the vertical faces are flush while securing in place.



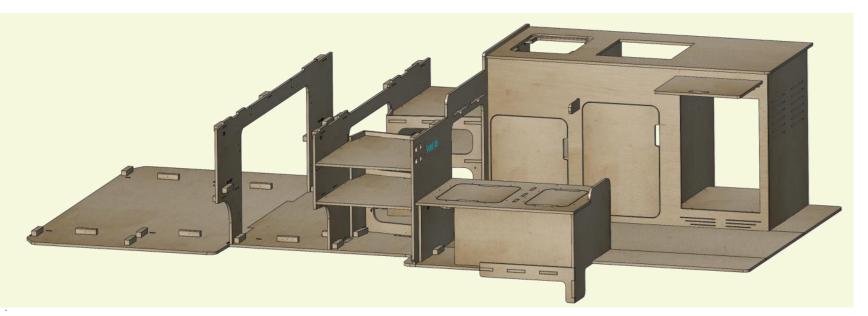
C11 is fitted in the same process as C1 and

C2.

Fit the all batten to C11 (note, batten is on

both sides), and then secure to the floor. All

using the 8 x 1 ¹/₄" screws.

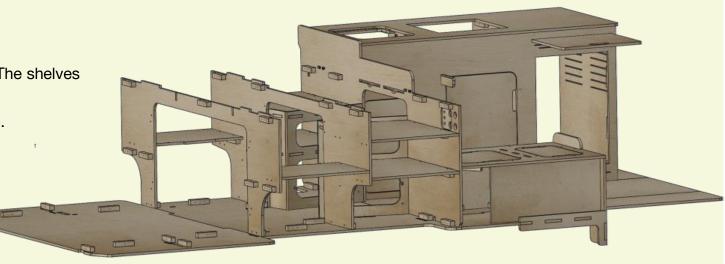


With C11 in place, we can fit the shelves of C12 and C13. The shelves

are fitted as per all previous shelves. Screwed from the top.

- C12 is passenger side

- C13 is driver's side

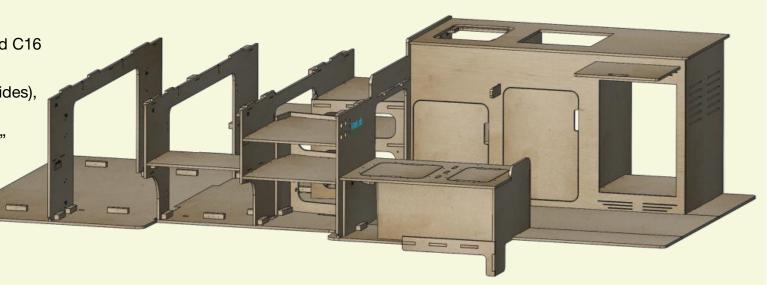


Repeat instruction steps 8 and 9 for C14, C15 and C16

Fit the all batten to C14 (note, batten is on both sides),

and then secure to the floor. All using the $8 \times 1 \frac{1}{4}$ "

screws.

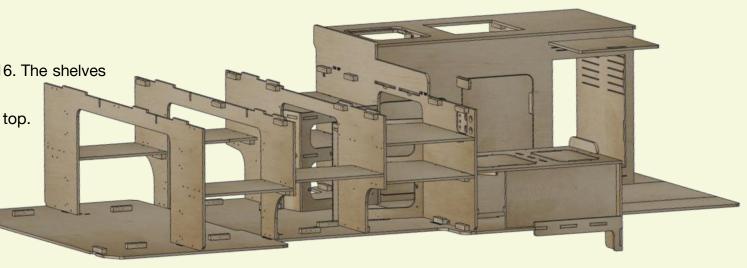


With C14 in place, we can fit the shelves of C15 and C16. The shelves

are fitted as per all previous shelves. Screwed from the top.

- C15 is passenger side

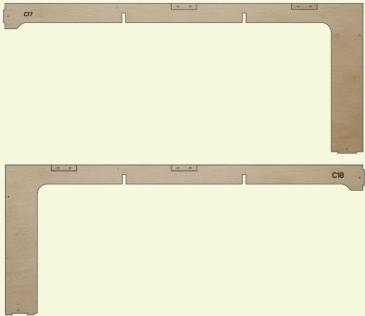
- C16 is driver's side



C17 and C18 are longitudinal bulkheads, which support the bed structure.

Follow the standard process, secure all batten to

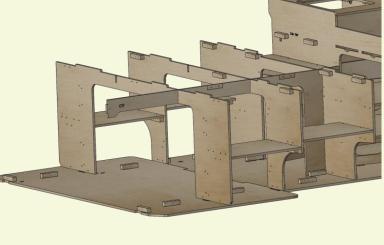
these parts first

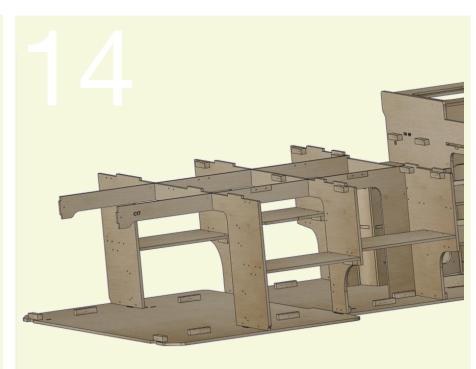


13

C17 is fitted perpendicular to C2, and will slot through C11 and C14. Once in place, it can be secured to the floor, and C2

Take care to ensure the top surface of C17 is flush with the C11 and C14 at the intersection of the parts.



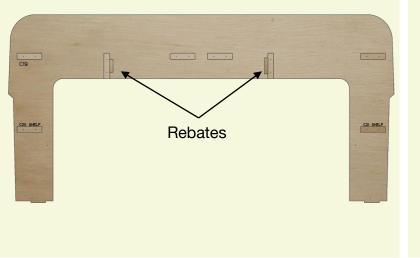


Instruction step 13 can be repeated for C18. Again, ensure the part is flush with C11 and C14 at the intersection of the parts before securing in place.

15

The final bulkhead of the bed structure, C19 can now be fitted. Fit all the battens to C19, before taking it to the van.

C19 has 2 rebates on the front face, which locate the tabs of C17 and C18.



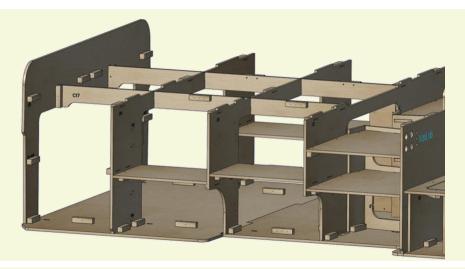
16

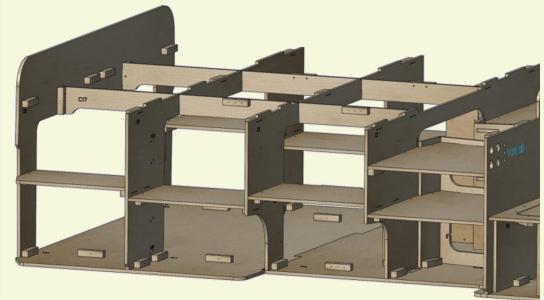
Taking care to seat C19 into the floor and tabs of C17 and C18, it can be secured in place using the batten.

C20 and C21 are shelves, that sit between C19 and C14.

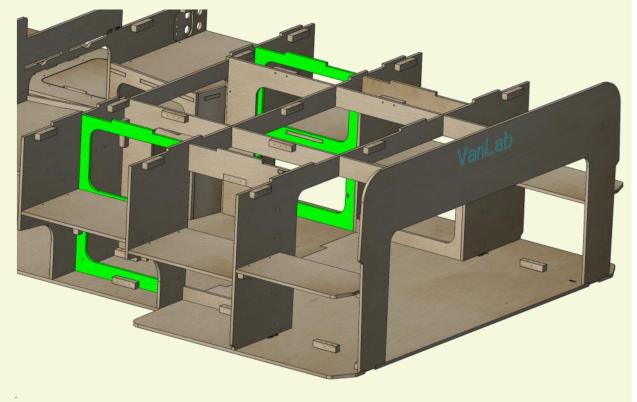
They are fitted as all the previous shelves. Screwed from the top.

C20 is passenger side C21 is driver's side





With C21 fitted, you now have the main bed structure in place. Now, you can move on to finishing the garage cupboards. Starting with C22 and C23 (green). These panels fit between C2 and C11 and locate to each shelf. They are secured to the floor, the shelf, C2 and C11 with the batten in place.



With instruction step 18 completed, the same process can be repeated for C24 and C25 (green). C24 and C25 have doors, but we will come back to fitting these later. At this point its worthwhile noting which door came from which panel.

C26 and C27 are small plates, which will act as a mounting plate for the rear garage doors. These are fitted to C14. Starting with the passenger side, find C26 and C27.



The hole positions for C26 and C27 are marked on C14. Its here, we introduce a new Symbol, the brackets. You'll notice the etching shows (C26) and (C27). This denotes the parts are fitted on the other side of C14.

Using the holes shown in the image here, you will screw the hinge plates (C26 and C27) from the rear face using the 8 x 7/8" screws.

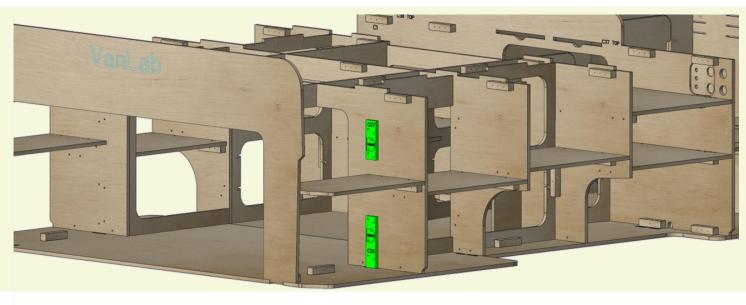
These parts are fitted using the same process as A6 (instruction step 10)



22

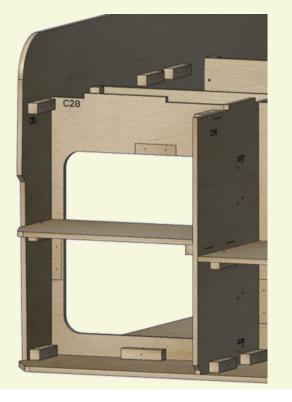
C26 and C27 in their fitted location is shown here.

You can now fit C28.



C28 can now be fitted, between C14 and C19. C28 is fitted in the same process as C22 (Instruction step 18)

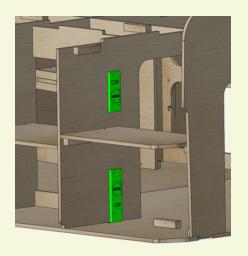
Note, as C28 uses the 4" batten, it is fitted with the 8 x 1 ¼" screws.



Instruction steps 20 – 23 are now repeated to fit C29, C30 and C31 on the drivers side.

Note, C29 and C39 use the 8 x 7/8" screws

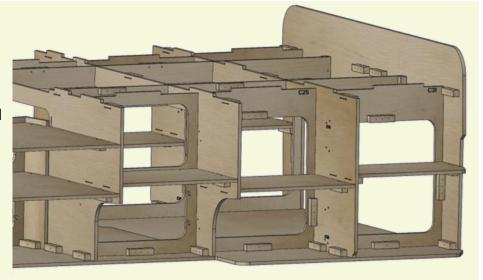
•	
HINGE	°. C30
C29 •	HINGE



25

With C29 and C30 in place, C31 can be fitted using the 8 x 1 $\frac{1}{4}$ " screws into all available batten

Now all the garage doors can be fitted



HINGES

Now would be a great time to take a break from the woodwork, and fit the garage door hinges.

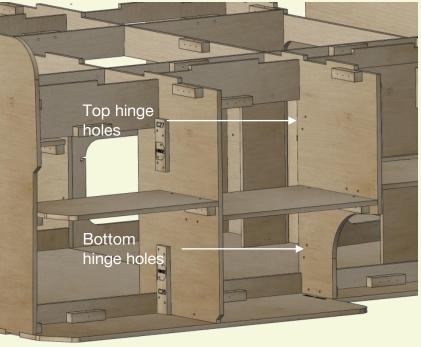
- Find the Part C24 door. To confirm the orientation of the door, you can check the grain patten against the C24

panel by holding the door in position. You can also identify the correct position, by ensuring the door handles

are facing backwards.

- Looking on the inside of the door panel, you can see 2 sets of 2 holes in a square pattern; these are for the hinges. These hinge holes correspond to the same hole patterns on C11.
- Please note: The hinge holes on C11 are not labeled, although the pilot holes are present. Please see the diagram below for the location of the C11 hinge pilot holes
- Remember, the hinges will have a sticker "door this side". This indicates which part of the hinge that orientates to the door. You can leave the sticker in place until the doors are fitted and remove this after.
- We advise that you open the hinges up to 180degrees before fitting. This makes it easier to secure in place.





Section A

HINGES

Starting with C24 Door.

- Using the #6 x 3/8 screws, secure the 2 hinge plates to the upright of C11 using the supplied pilot

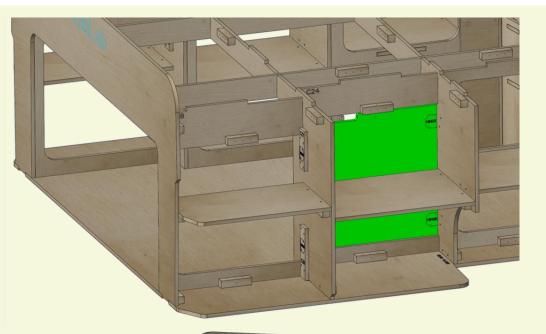
holes. These holes will align with the slots of the hinge plates, to allow for adjustment.

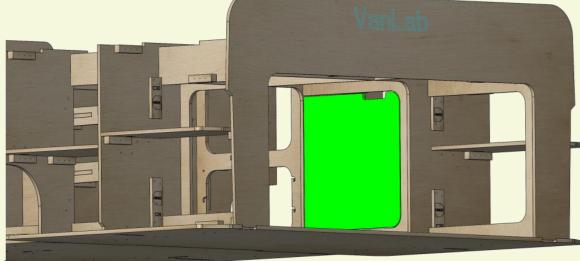
- Secure the hinges in place with the screws in the middle of the hinge plate slot first. You can adjust later when the doors are fitted.
- Holding the door in its open position and using the #6 x 3/8 screws, secure the C24 door to the

hinge plates. Again, place with the screws in the middle of the hinge plate slot first.

- You can now close the door and check the alignment. If the door needs adjusting:
- Loosen the screws >>> Move the hinge plate by manipulating the door >>> Tighten the screws.
- It may take a few attempts to get them just perfect in the open and closed position. Once happy, you can secure the remaining holes in the hinge plate and move on to the second door.
- Now, repeat for A3 hinges.

VANLAB



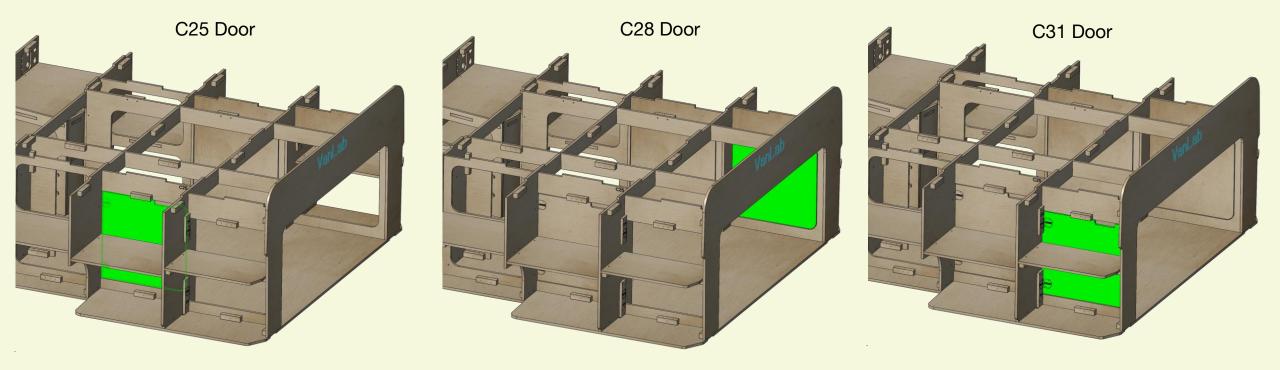


Section A

HINGES AND DOORS

This same process can now be repeated for the C25, C28 and C31 doors, all using the 6 x 3/8" screws.

- NOTE, the doors for C28 and C31 follow exactly the same process, but the hinges are mounted to the hinge plates of C26, C27, C29 and C30 that we're fitted previously.



46

With the bed structure completed and all doors fitted. It is now time to fit the bed tops. The tops also hold the runners for the slide-out tables. These should be fitted before fitting the bed to the van.

Lets start with the passenger side bed top, C37.

. C32	0	•		•
· C34				

COS BATTEN	26

Using the 8 x 7/8" screws, fit C32 (Yellow) and C34 (Green) to C37 (Blue) before taking the part to the van. You will notice both C32 and C24 have a rebate

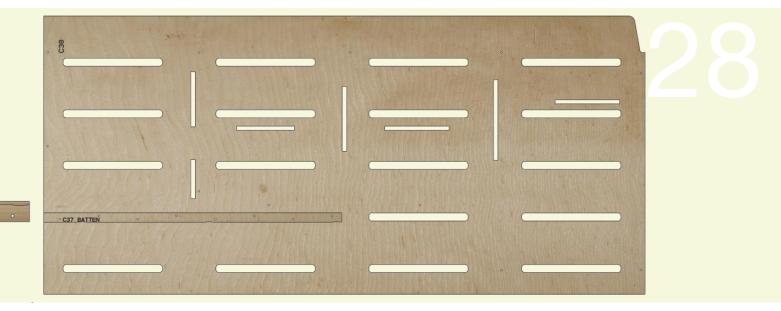
on one side. This side faces the C37. The engraving on C37 will correspond to the outline of this face too. The installed setup should look as shown below.



°C33

The same process is repeated for bed panel C38.

Fitting C33 to the panel before fitting to the van.



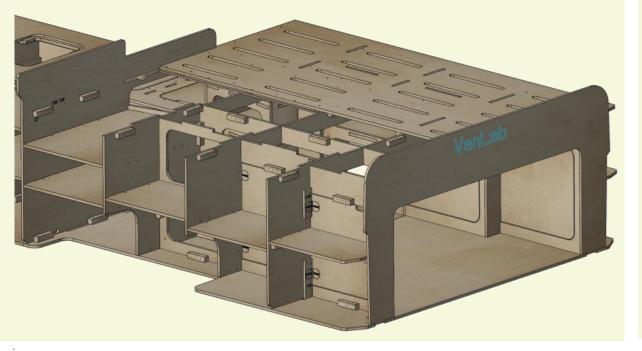
Using the 8 x 7/8" screws, fit C33 (Pink) to C38 (Blue) before taking the part to the van. You will notice both C33 has a rebate on one side. This side faces

the C38. The engraving on C38 will correspond to the outline of this face too. The installed setup should look as shown below.



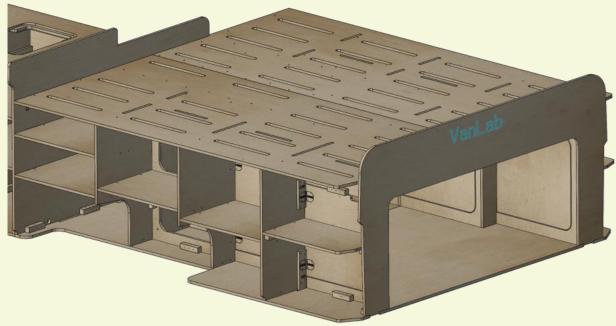
C37 (complete with C32 and C34) can be fitted to the bed structure now.

C37 locates on various tabs of the bed stricture and will drop into place. Once positioned correctly, check the panel is sitting flush on the bed structure, and all tabs are located into the correct slot positions of C37. Once happy, C37 can be screwed in from the top using the 8 x 1 $\frac{1}{4}$ " screws.





Repeat for C38 (complete with C33) and secure in place. Again, take care to check panel C38 is flat and correctly located before screwing into place



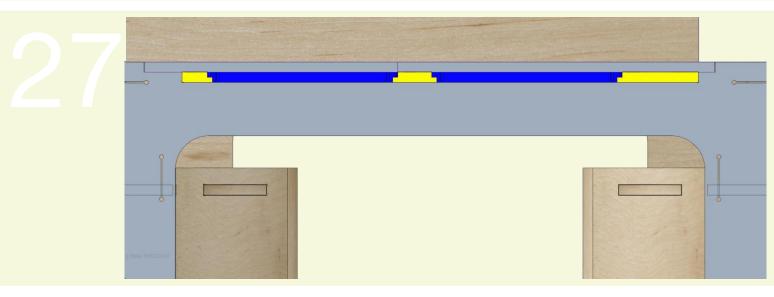
The final job is to slot the slide out tables into place.

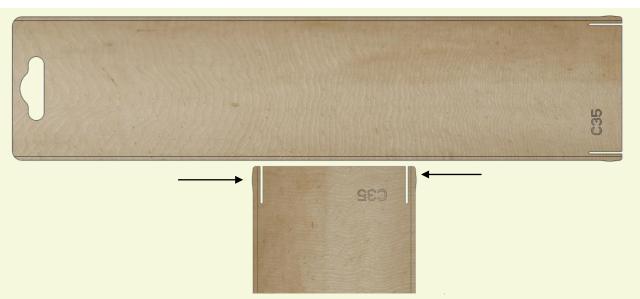
- C35 is the passenger side table
- C36 is the driver side table

These tables are slid through the front of panel C1. You will notice the tables are

wider the slot available, however, the end tab is designed to flex inwards. This will

lock the tables into the runners but the





The image here shows C35 and C36 when fitted.

- C35 & C36: Blue
- -C32, C33 & C34: Yellow

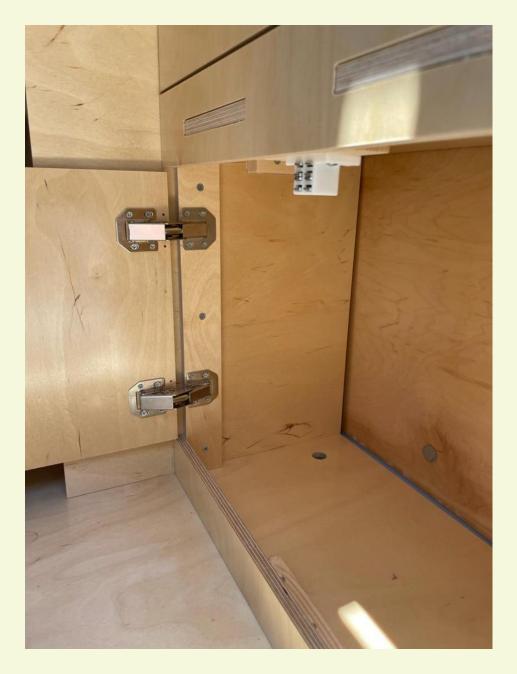
This shows how the tables are secured in place and slide on the runners of C32, C33 & C34.

As we use very small tolerances, you may need to make some small adjustments to C35 and C36 to achieve a smooth table action. This is simply a light sanding of the horizontal contact faces if needed.



Section C is Complete

6. Door Magnets



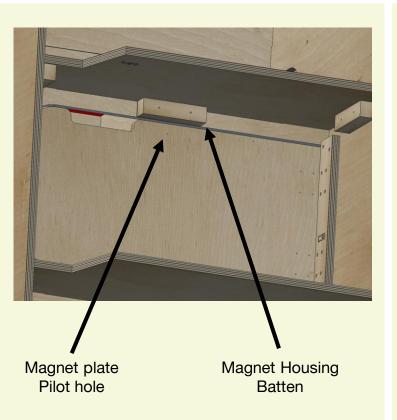
Door magnets are fitted to every swinging door. The magnets are two sections. The magnet plate and the magnet housing. The magnet plate mounts to the door with a single screw and the magnet housing mounts to the door frame.

Magnet Plate

- The magnet plate is fitted to the door with a single screw using the predrilled hole.

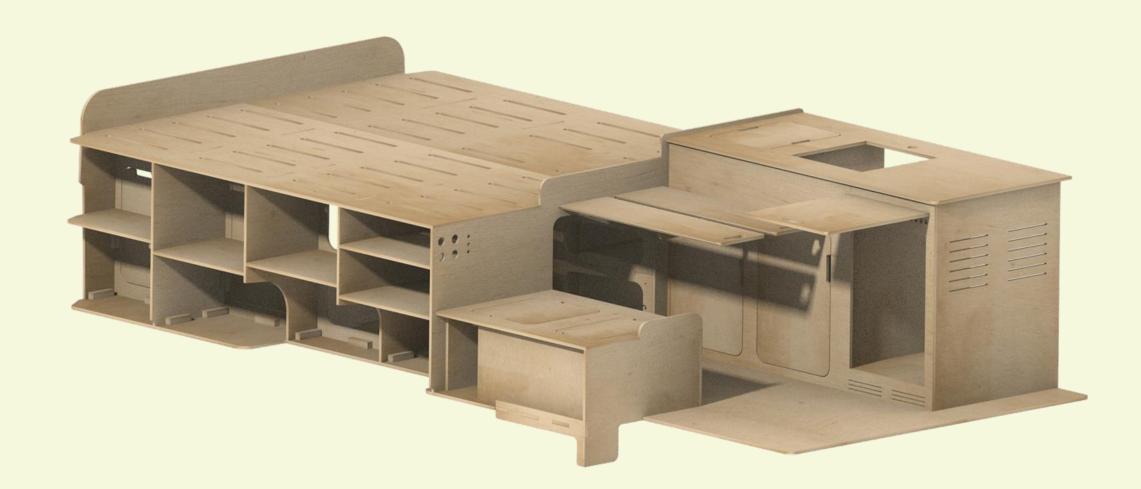
Magnet Housing

 The magnet housing is mounted to a support batten on the door frame. This part has NO pilot holes and is lined up by you when fitting.



We suggest fitting the magnet housing first. Take the magnet plate and connect to the magnet housing, so you have a single assembly.

- Hold the magnet assembly base in the correct position against the support batten. See photo on previous page for alignment.
- Now the base is set, you can now line up the front face of the magnet plate, to the back face of the door frame. i.e the location the door will sit when closed. This will align the magnet housing correctly.
- Once you have correctly aligned the magnet housing, secure in place with the two screws. We suggest that you don't pull these screws tight yet, so you have some flexibility to locate the magnet housing block.
- You can now remove the magnet plate, and screw this into the door using the single pilot hole.
- To check alignment, close the door and ensure that the door closes flush to the frame. If the door under- or over-closes, you can adjust the location of the magnet housing accordingly.



Congratulations, your VanLab Kit is now completed.

Additional and Complementary Products

Please additionally find info below on our recommended / compatible appliances as discussed.

Front loading fridge:

- DOMETIC CRX Compressor Refrigerators (CRX 65). Available at Amazon
- <u>https://www.amazon.com/Dometic-CRX-Compressor-Refrigerators-65/dp/B0B4VBZCKN?th=1</u>

Sink & Faucet

- Ruvati 15 x 15 inch Workstation Drop-in Topmount Bar Prep RV Sink 16 Gauge Stainless Steel RVH8215. Available at Amazon
- <u>https://www.amazon.com/dp/B077NL6TDW/ref=cm_sw_r_cp_api_i_AEA13JN6W8934S92RPH9?_encoding=UTF8&psc=1</u>
- VFauosit Commercial Stainless Steel Laundry Single Handle Pull Out Kitchen Faucets Matte Black. Available at Amazon
- https://www.amazon.com/dp/B08JPWRSL3/ref=cm_sw_r_cp_api_i_dl_X90KM2NX2KZ2JSVF0MYS

Gas burner: Note, you will need to cut a hole for the integrated one or use a table top burner

- Ramblewood GC2-37P (LPG/Propane Gas) high efficiency 2 burner gas cooktop, ETL Safety Certified. Available at Amazon
- https://www.amazon.com/dp/B06ZXYZGQT/ref=cm_sw_r_cp_api_i_KK9QENZ41KX1Q63FD95C?_encoding=UTF8&psc=1

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For more information or help email: info@wearevanlab.com