



COOLWHIP
CAMPER CONVERSIONS

YOUR INSTALLATION INSTRUCTIONS

FTC FLAT PACK FURNITURE



INSTALLATION INSTRUCTIONS

STOP & READ

Please ensure you briefly read over this instruction manual before attempting to assemble and fit your units. Once you have an understanding of the process, please then read and follow each page step by step, failure to do this can result in mistakes and the process taking much longer.

Please note some pictures contain our Deluxe range and VW T5/6 furniture, however all principles of the instructions remain the same. If you have the Low level or slim line variant kit, these instructions may also slightly differ to your furniture. The slimline is the exact same just in slim form. The low level is also the same, however includes two worktops and two top lockers to accommodate the half height rear wardrobe design. All the information you need is in this manual.

These instructions have been broken down into two manuals, the first phase is the construction of the furniture, the second is the 'Plug & Play' electrical and appliance installation. Please ensure you follow in order.

THE PROCESS

Read instructions and
prepare work space and tools



Oil the edges and
Oak



Prep work such as
hanging doors and
fit handles

Assemble



Electrics



Fit

VIDEO TUTORIAL

Please find link below to a build video tutorial. We recommend you read these instructions in full and watch this video before attempting to build.

[HTTPS://WWW.YOUTUBE.COM/WATCH?V=3LMDAIP7EUK&T=1201S](https://www.youtube.com/watch?v=3LMDAIP7EUK&T=1201S)

IF YOU HAVE ANY ISSUES WITH YOUR KIT, PLEASE ENSURE YOU WATCH THIS VIDEO AND READ THE INSTRUCTION BEFORE CONTACTING US ON SUPPORT@COOLWHIPCAMPERS.COM. PLEASE INCLUDE YOUR ORDER NUMBER AND PICTURES

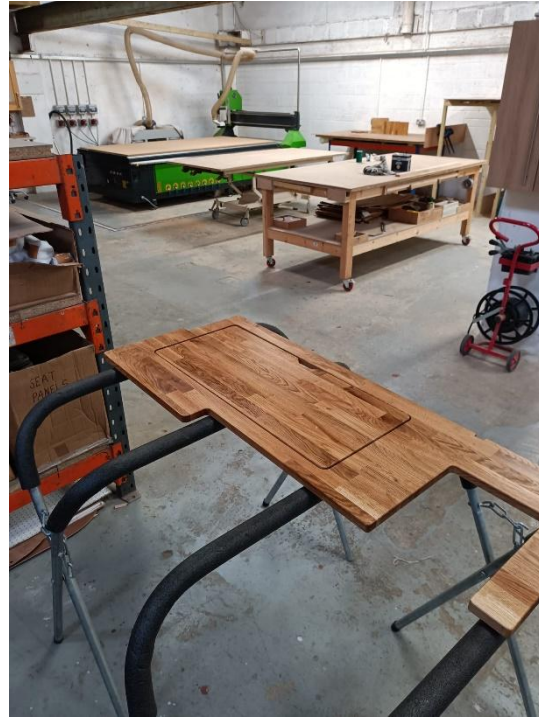
OILING

It is important to treat the edges of your ply and Oak products. Failure to do this can result in bowing and delamination due to moisture ingress. You can apply an oil, a varnish or wax. We recommend Osmo topoil, there are a few shades of colour available. The oil also passes health and hygiene standards for worktops and works well on the ply edges.

NEVER USE FLAMMABLE LIQUIDS TO TREAT THE WORKTOP WHEN INSTALLING GAS

Treating your edges also makes for a beautify finish

WORK TOP OILING



Oil the Worktop, ensure to seal every exposed edge



Allow to dry and apply another coat

OILING OPTION 1

Quick tip – sand down all edges before oiling for a cleaner finish



Apply oil to the edge of every piece of furniture, allow the correct drying time, clean oil off the laminate face as you go.

OILING OPTION 2



Build the full kit and oil only the visible edges

STOP & READ

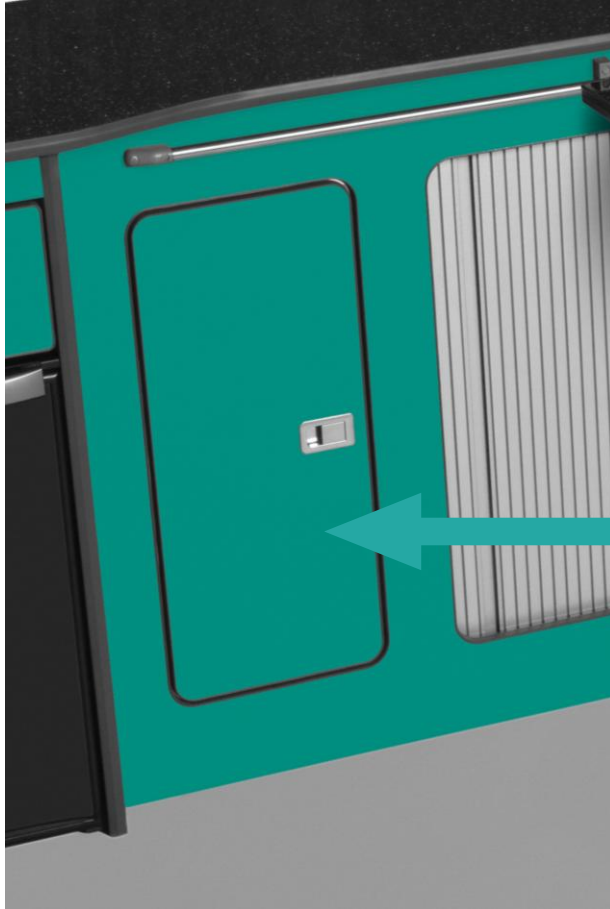
ENSURE YOU ONLY USE THE SMALL **16MM SCREWS** PROVIDED, OR SCREWS THAT COME WITH HARDWARE SUCH AS DRAWERS AND HINGES UNLESS STATED OTHERWISE

WHEN USING 25MM SCREWS PILOT DRILL FIRST AND NEVER COUNTER SINK

FAILURE TO DO THE ABOVE CAN RESULT IN SCREWING THROUGH THE OUTER SIDE OF THE MATERIAL

A GOOD WORKBENCH IS ADVISED FOR ALL FOLLOWING PREP WORK

HANGING DOORS



TOOLS

- Drill Driver
- Stanley knife
- Cross head Screw driver



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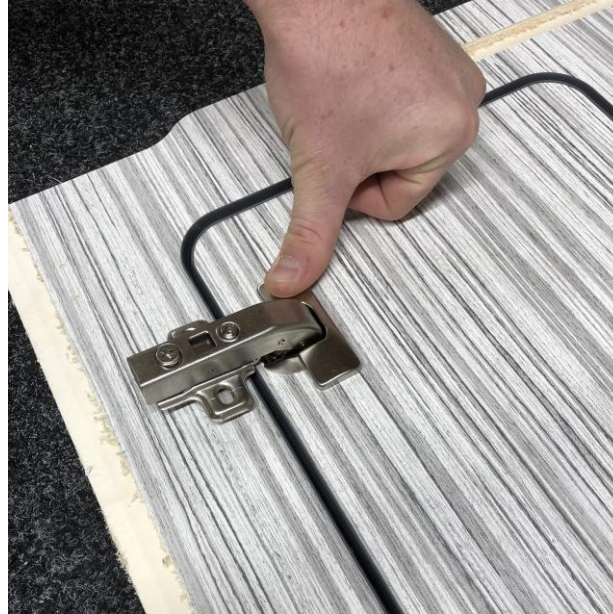
HINGES

A3	Overlay
B3	Inset
B4	Parallel
C2	Parallel
C3	Parallel
C6	Parallel
C7	Parallel
D7	Parallel
E2	Small arm Parallel
E3	Small arm Parallel
E4	Parallel
Worktop flap	Parallel

HINGES



Fix the hinges to the door only using 15mm screws and the pilot holes provided



If your hinges have the cover plates clip them on



Turn the adjustment all the way to the rear before fixing to the aperture

(CONT.)

HINGES

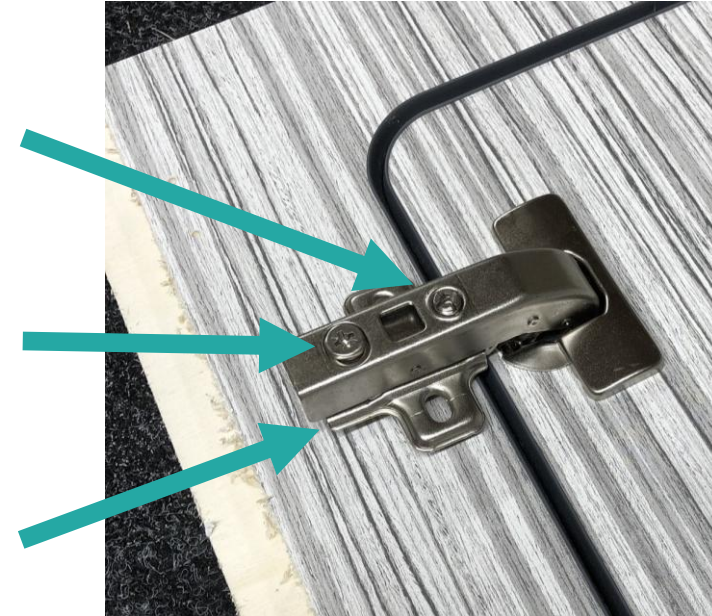


Remove Euro screws (if necessary) and replace with 15mm screws to fit the plate to the aperture

HORIZONTAL
ADJUSTMENT

OVERLAY
ADJUSTMENT

CLIP-ON
MOUNT



Once both hinges are fitted, adjust the door to fit flush with equal spacing

HANGING DOORS

CHECK & MAKE SURE...

The doors sit flush and open and close correctly

Now follow the same process and hang all doors

(CONT.)

HANDLES



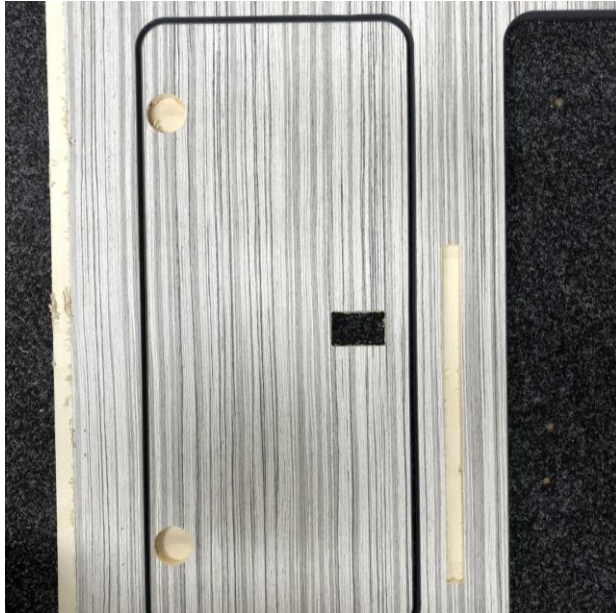
Fit the handles using the
25mm bolts



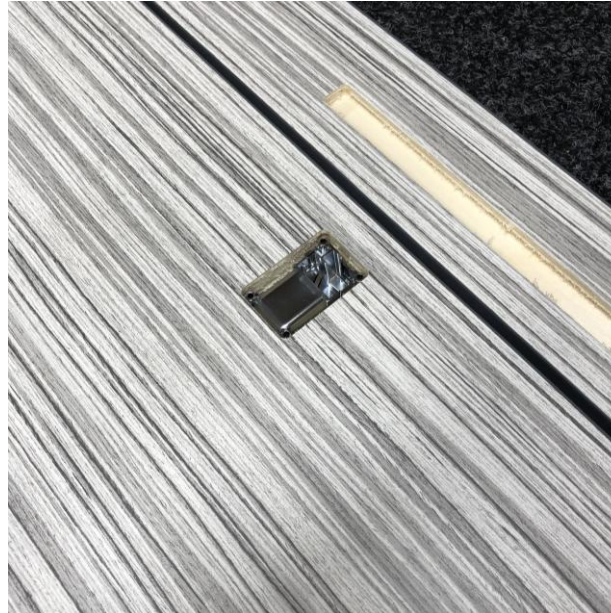
Align the holes with the
pre-drilled holes on the
doors and tighten



FLUSH HANDLES



Place the correct door into the correct aperture ensuring the door is orientated correctly



Place the handle catch into the hole



Using 16mm screws, fix the back of the catch into place ensuring the catch is straight

SOFT CLOSE DRAWER ASSEMBLY



(CONT.)

SOFT CLOSE DRAWER ASSEMBLY



Attach the mounting clips



Fit the drawer rear using
15mm screws



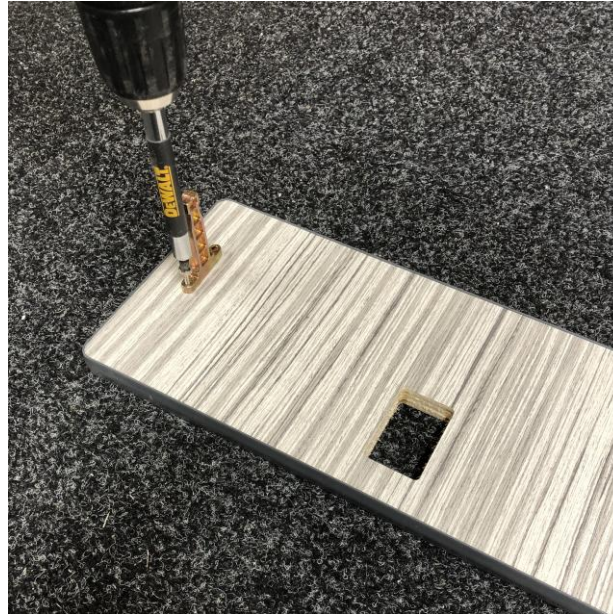
Fit the drawer base A5
using 15 mm screws,
ensure the base is flush to
avoid gaps

(CONT.)

SOFT CLOSE DRAWER ASSEMBLY



Fit the drawer A4 face catch or oak handle



Screw the drawer face A4 mounts into the pilot holes with the 4 x large head screws provided with the drawer box



Clip the face into the side runners

DRAWER RUNNERS

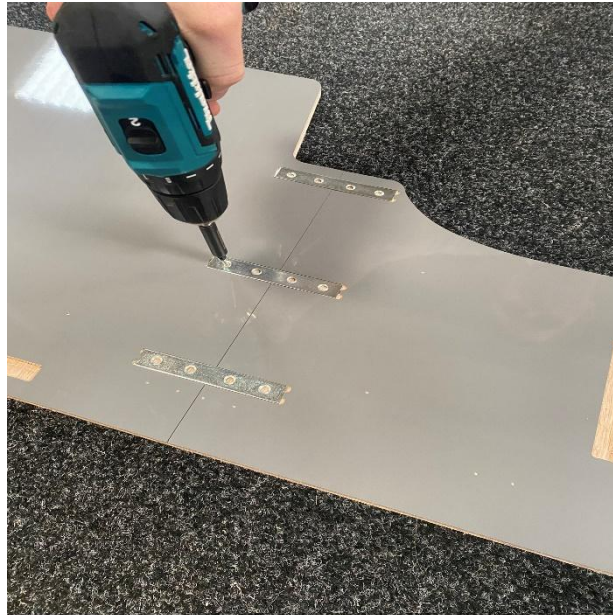


Fit the runners to A1 using the pilot holes provided, ensure you have the correct runner on each side.
Repeat on A2



(CONT.)

FLOOR ASSEMBLY



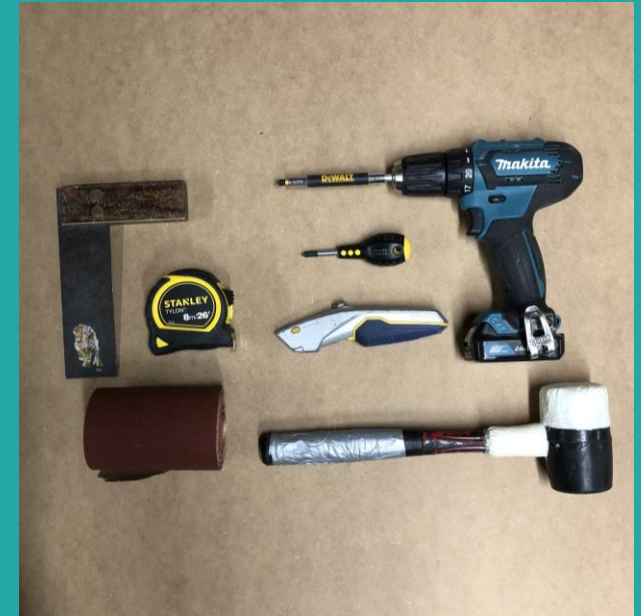
Screw the floor base F1 and F2 together with the fixing plates using 15mm screws

WARDROBE ASSEMBLY



TOOLS

- Drill Driver
- Mallet
- Stanley knife
- Sand paper
- Cross head Screw driver
- Tape Measure
- Set Square



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(CONT.)

WARDROBE ASSEMBLY

OVERVIEW

The wardrobe is the most time consuming part of assembly

Its important you follow each step in order of instruction

Use 15mm screws unless directed otherwise

We recommend two people

You will need a large clean flat surface

Do not counter sink 25mm screws and **do not counter sink**

(CONT.)

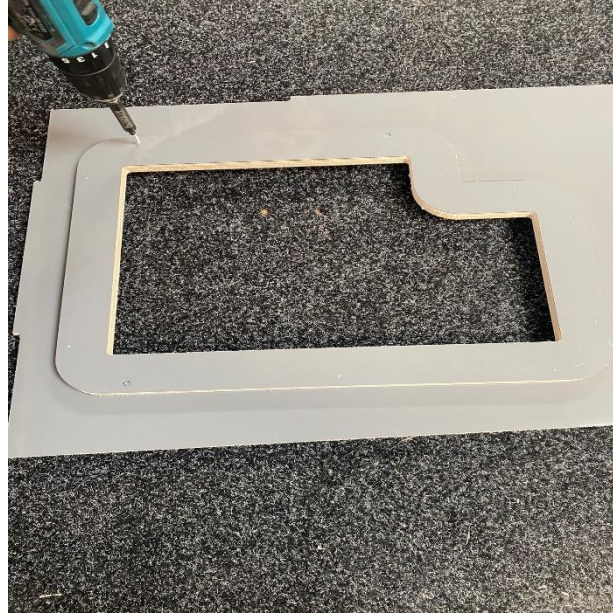
WARDROBE ASSEMBLY



Firstly, stick the wardrobe LED into the profile and re attach the cover case (only included in the Plug and Play)

(CONT.)

WARDROBE ASSEMBLY



Fix the wardrobe bottom shelf support C11 to the underside of the shelf C10 using 25mm screws, this will seat the battery access flap

(CONT.)

WARDROBE ASSEMBLY



Place the wardrobe face down



Slot the bottom shelf C10,
divider C8 and lid shelf C9
into the rebates.
DO NOT SCREW



Fit the wardrobe upright (L) C4
first, start from the base
working up to the top using
the blocks and pilot holes

(CONT.)

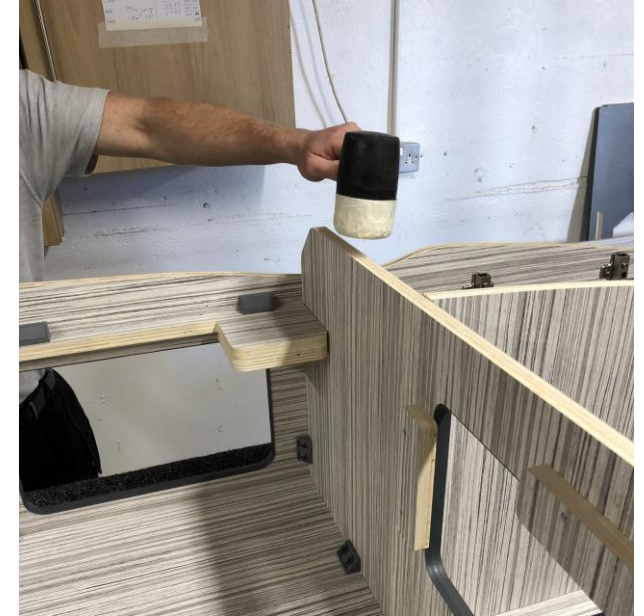
WARDROBE ASSEMBLY



Fit the wardrobe upright (R) C5 start from the base working up using chock blocks and pilot holes



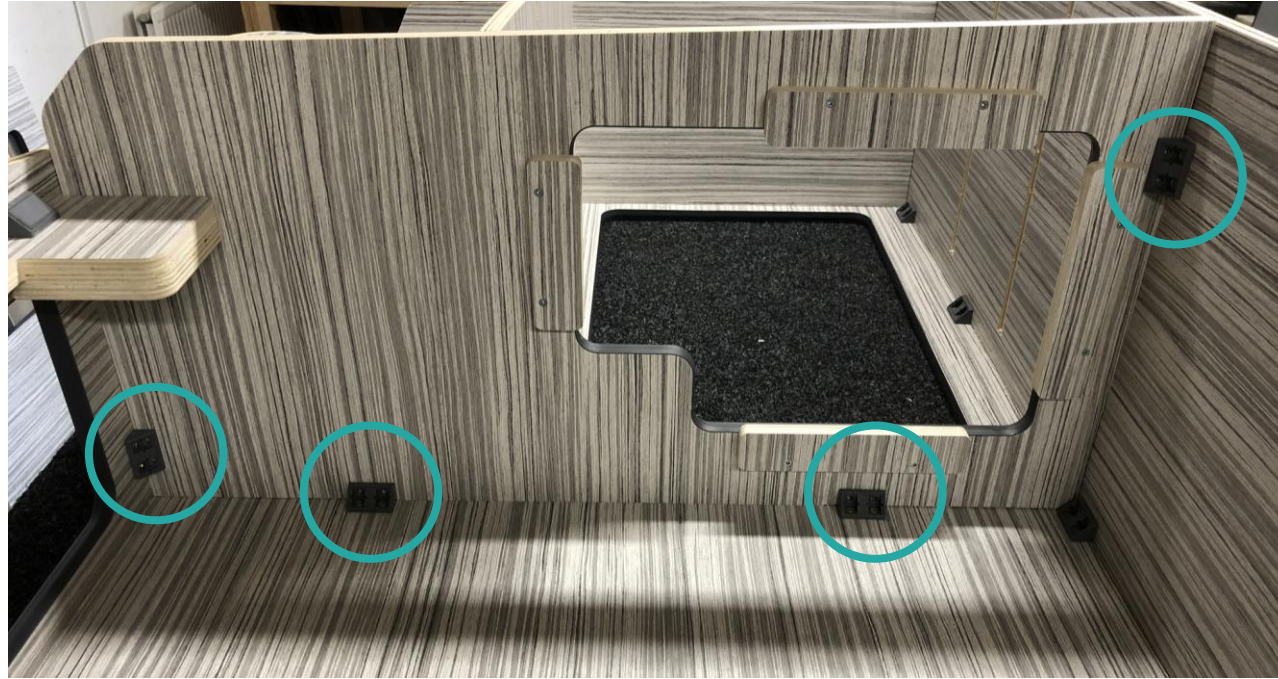
Ensure piece sit together nicely



Ensure the bottom shelf C10 is seated correctly before fixing

(CONT.)

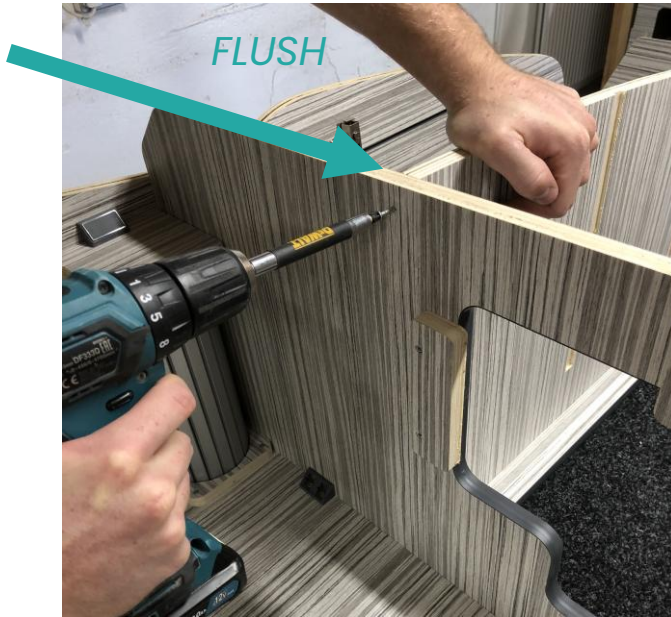
WARDROBE ASSEMBLY



Screw the bottom shelf C10 using the blocks and pilot holes provided, ensure the joins are tight and flush

(CONT.)

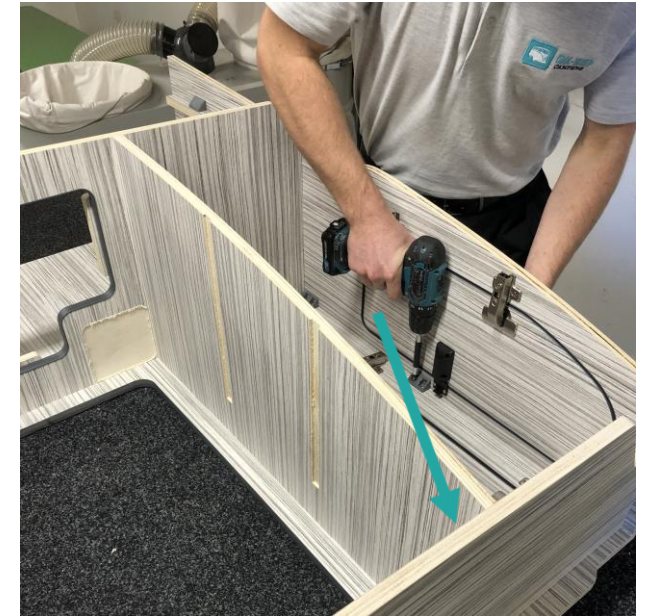
WARDROBE ASSEMBLY



Screw through the bottom shelf C10 into the divider C8 using a 25mm screw*



Fit the lid shelf C9 to the upright (R) C5. Ensure the joins are tight and flush



Secure top of divider C8 with a block

(CONT.)

WARDROBE ASSEMBLY



Repeat the process with
the left upright C4



Now screw the lid shelf C9 to the face.
Please note, your blocks may be
underneath

(CONT.)

The next stages see the units finally coming together, place the base into the centre and front of the van, then continue onto the next slide.

For the purpose of these instructions and taking relevant pictures, we have continued to build outside the van

(CONT.)

WARDROBE ASSEMBLY



Stand the wardrobe up and click into the floor rear F2, ensure the base is forward in the van to avoid the cupboard hitting the boot lip



Fix the wardrobe to the floor using 15mm screws, and pilot holes provided



Continue

(CONT.)

WARDROBE ASSEMBLY



Screw the tambour door wheel
(R) C17 to the bottom shelf
using 25mm screws



Repeat the process with the
opposite wheel C18 on the lid
shelf



Insert the tambour door into the
wheel runners from the rear

(CONT.)

WARDROBE ASSEMBLY



fit the track into the tambour wheel as far as it will go. Once happy with the position, glue into place



Repeat the process for the top track



Screw the Tambour housing together C15/ C16 and slide into position with the finger gap at the front

(CONT.)

WARDROBE ASSEMBLY



Fit the wardrobe C12 and C13 shelves by sliding into the rebates and fixing with chock blocks underneath



Fit the blocks for the Wardrobe rear shelf



Fit the Wardrobe rear shelf C14 flush with the rear

(CONT.)

WARDROBE ASSEMBLY



Finally slide the cubby
hole insert into place

ASSEMBLY



Fit the Kitchen unit face
B1 from the rear



Ensure the face is flush
with the wardrobe



Fit the shelf blocks to C4

ASSEMBLY



Fit fridge pod (R) A2 from behind, if you have the new twin door design, fit with chock block at the top using the pilot holes

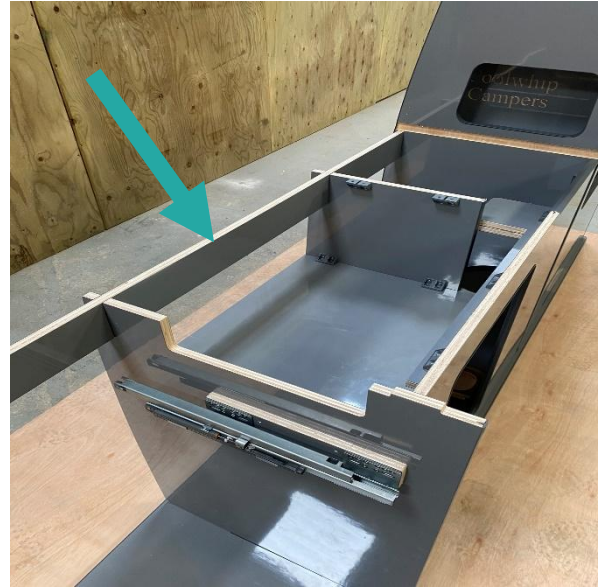


Fit the Kitchen unit shelf B2

ASSEMBLY



Fit blocks to the flap divider B5 and fit to shelf using the rebate

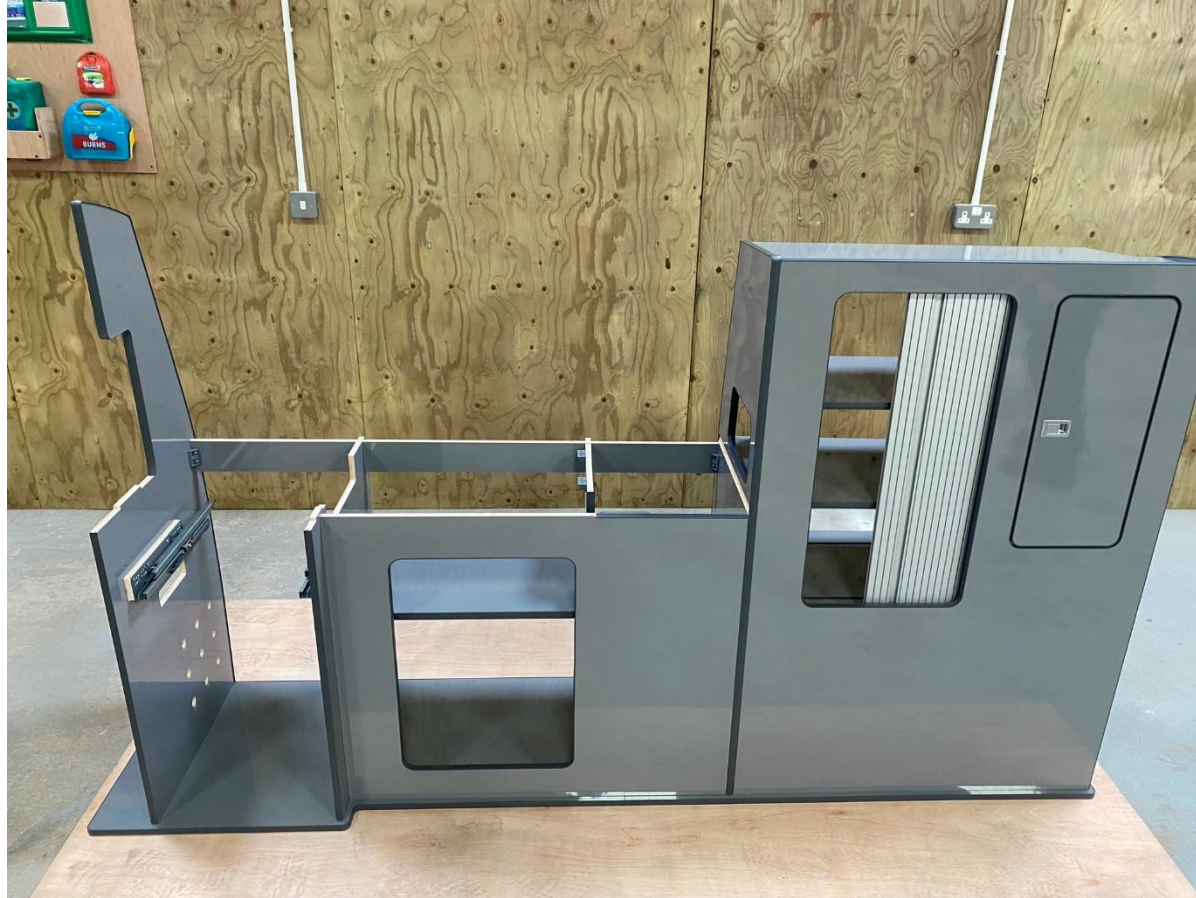


Now fit the rear support B6, be sure to have it the correct way

Not applicable on the twin sliding vans

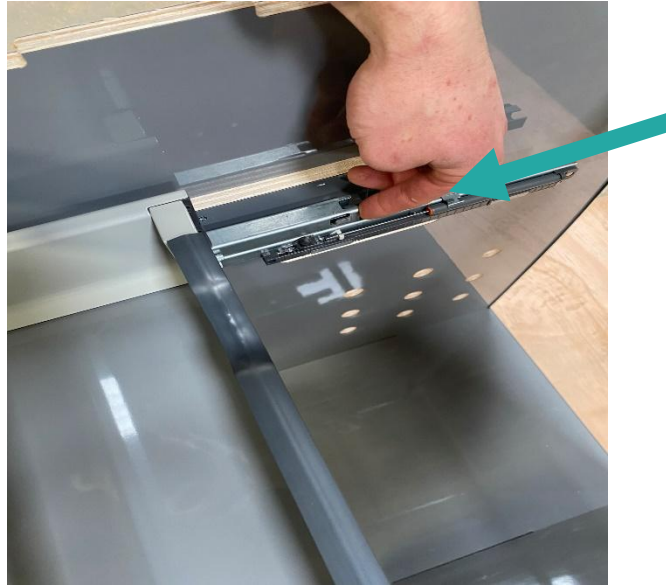


Now fit the fridge pod upright (L) A1 and click and screw rear support into place

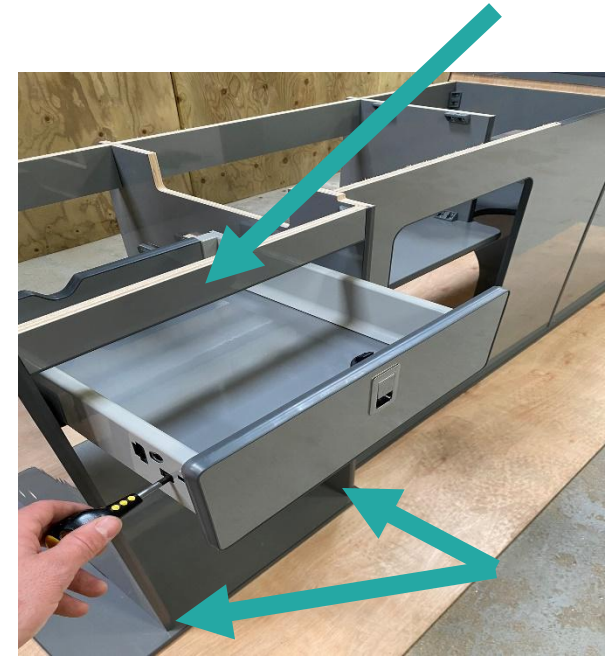


ASSEMBLY

Above drawer piece not applicable
in premium design



Fit the drawer to the runners,
there is an audio click when
the runners are pushed in
correctly



Adjust the drawer to fit perfect,
ensure both fridge pods are equally
30mm from the base front

ASSEMBLY

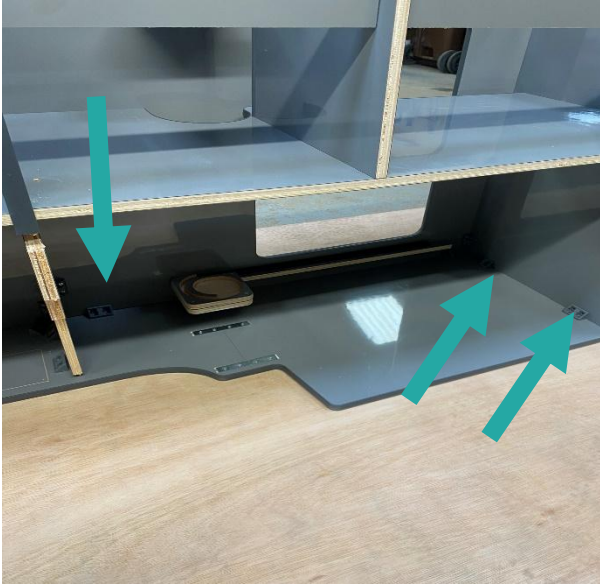


Fit the fridge door A3 using overlay hinges



Fit the left under sink door B3 using inset hinges

ASSEMBLY



Continue to screw the units to the floor



Fit the fridge upright (L) A1 to the floor using small L brackets on the inside of the aperture, do not use blocks as they obstruct with the fridge



Fit the right-side table storage holder to the outside front of your fridge pod (L) A1 with 16 mm screws

(Optional placement)

TABLE STOWAGE



Offer the table in and fit the left side storage holder, ensure its not too tight



Now fit the stowage clips using 30mm screws

(CONT.)

REAL OAK

STOP!

Before screwing through any solid oak please ensure you pilot drill first, failure to do this may result in The oak splitting

WORK TOP



This template will house the sink/ grill and allow for the cut out to sit on top flush.

Fit the grill seating template to the underside of the worktop. Align the template with the marked out area.

Dress the straight side of the template with the worktop front with the ply smooth side up. Screw into position around the perimeter using 30mm screws, roughly every 150mm apart and 10mm from the edge. Ensure to pilot drill.

Straight side = Front of worktop

WORK TOP



Using the alignment rebates, drop the worktop into place. Start by offering the right of the worktop into the wardrobe rebate, then simply find the rebates and seat correctly. Do not forget to fix down with blocks and 16mm screws

DOOR CATCHES



First fit the magnet to the return face, use the floor for doors under the worktop



Offer the strike plate to the magnet for correct positioning, mark the two holes



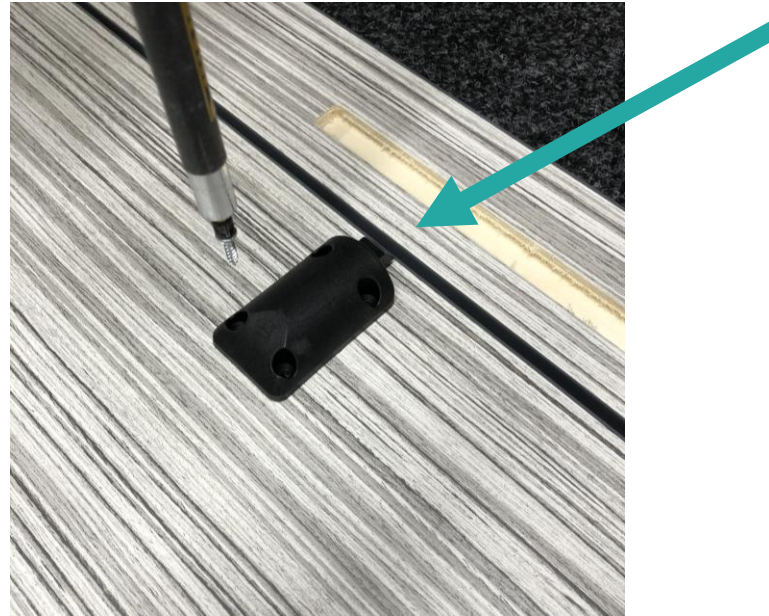
Pilot drill the two holes with a 2mm bit and screw the plate using the screws provided. Do not screw too near the edge as the ply can split

DOOR CATCHES



For 90-degree hinge doors needed for some kickboards and the slimline bottom wardrobe door, fit the return block G1 into the rebate using a chock block, this will provide a return to fit the magnetic hinges as before

FLUSH HANDLE DOOR CATCH



For flush handles fit the strike plates, the plate are used for both 180 degree door like the picture, or turned to fit a 90 degree return like the rear wardrobe doors

TOP LOCKER ASSEMBLY





Screw D2 to D3 using 4 x 25mm screws



Fit overlay hinges to the doors and handles to D7



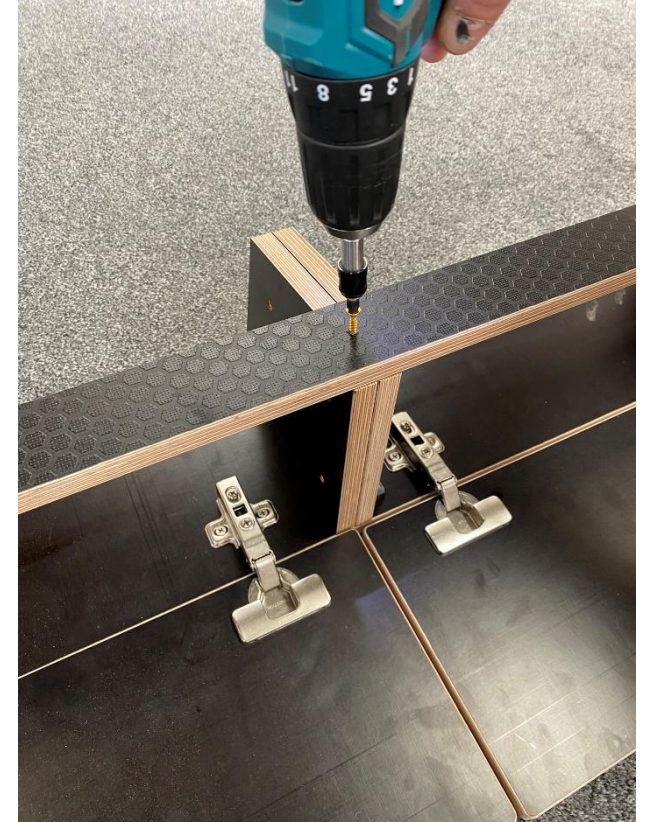
Fit blocks to D6 as per picture



Fit blocks to the base of D4 and D5



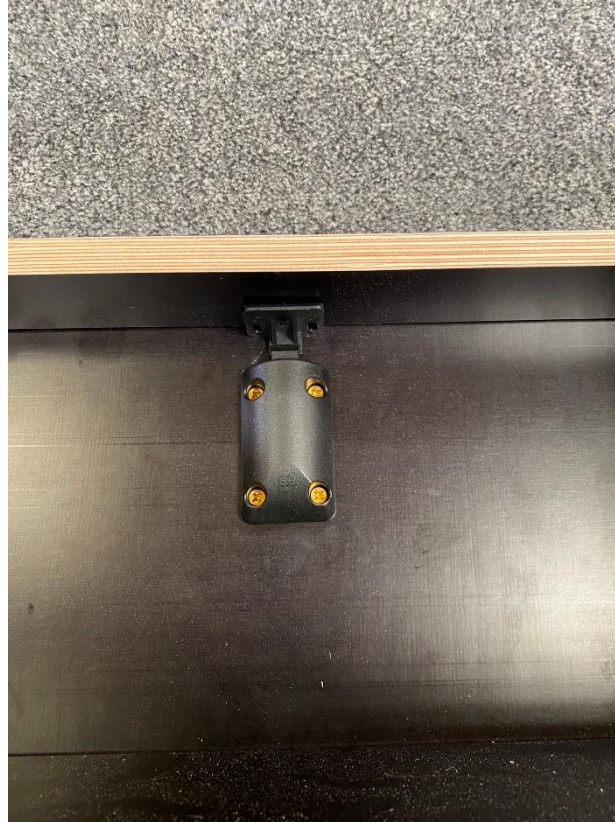
Fit all pieces as per picture



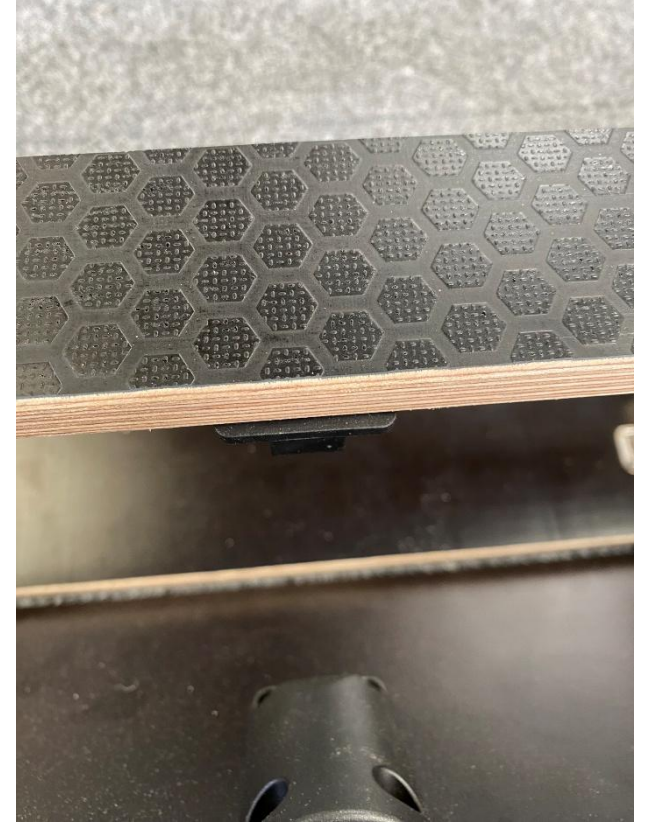
Fit D6 using the blocks to D4 and D5 and a 25mm screw into the centre dividers as per picture



Adjust the hinges to suit



Fit strike plates for the handles



Your strike plate may need to protrude in order to catch correctly

If you have purchased furniture only skip to slide 92 for fitting





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*ELECTRIC PACKAGE
INSTALLATION INSTRUCTIONS*

STOP & READ

Please ensure you briefly read over this instruction manual before attempting to fit the electrical components and looms to your units. Once you have an understanding of the process and feel confident carrying out the install, please read and follow each page step by step, failure to do this can result in mistakes and the process taking much longer.

For the purpose of this manual, we have carried out this phase outside the van, once again for ease of demonstration and to take better pictures

THE PROCESS

Read instructions,
prepare workspace
and tools



Sink/ grill
combo



Fit earth cables to
van earth point



Fit electrical
components
and loom



Connect to
Leisure battery

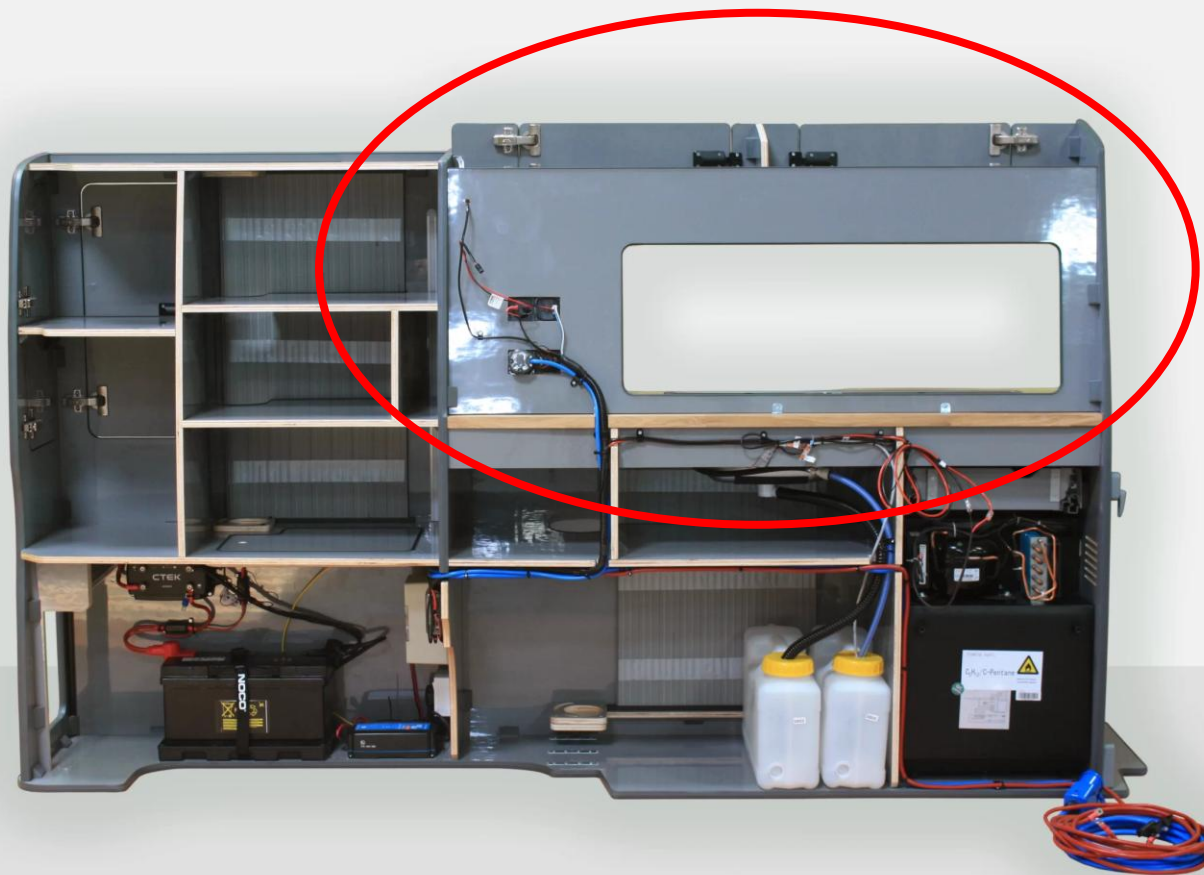


Secure the
units



Connect to
Vehicle battery &
240 hook





See left VW T5, the Ford transit custom differs here; the top locker, splashback and control panel are fitted separately towards the end

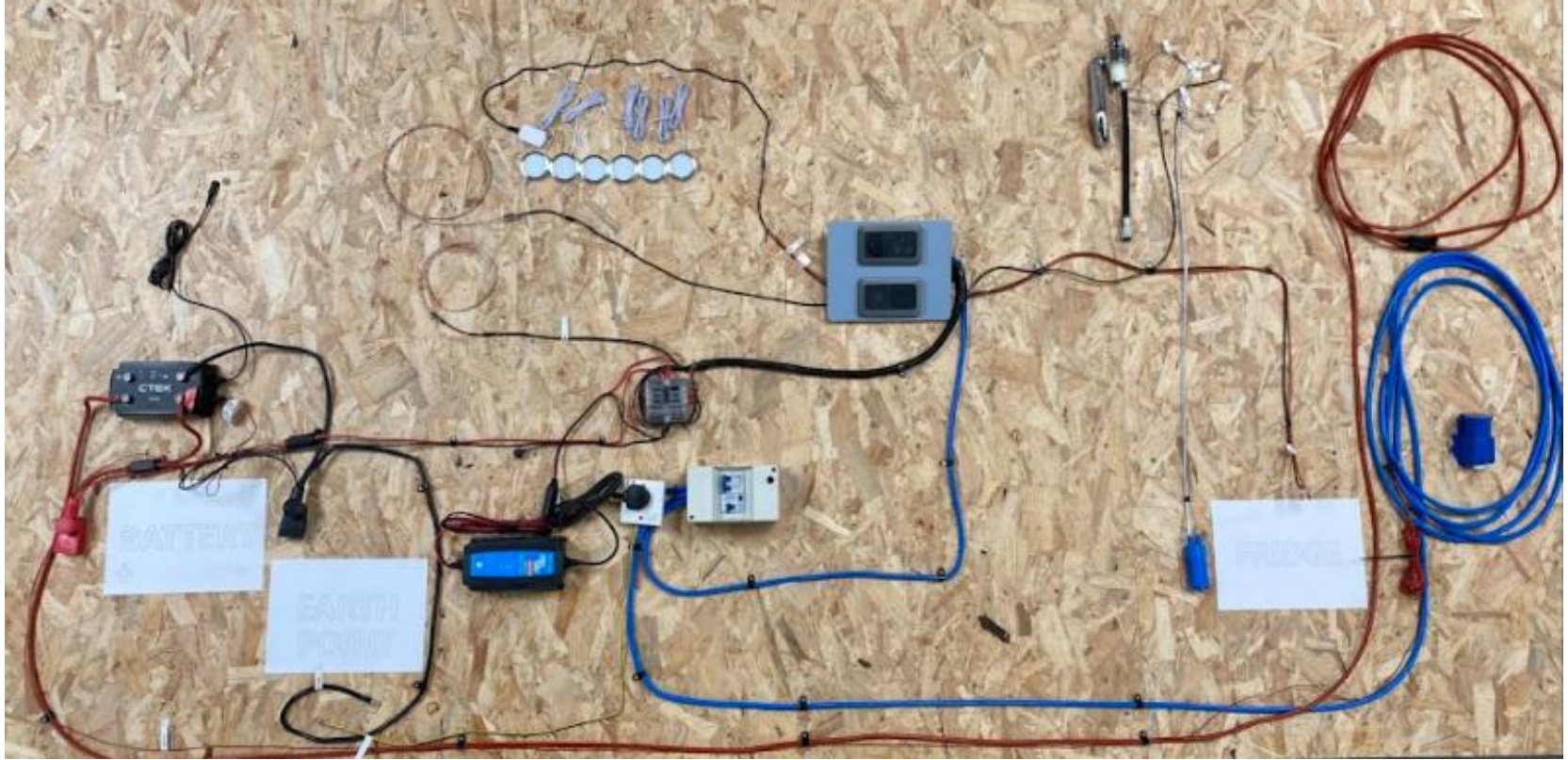
DISCLAIMER

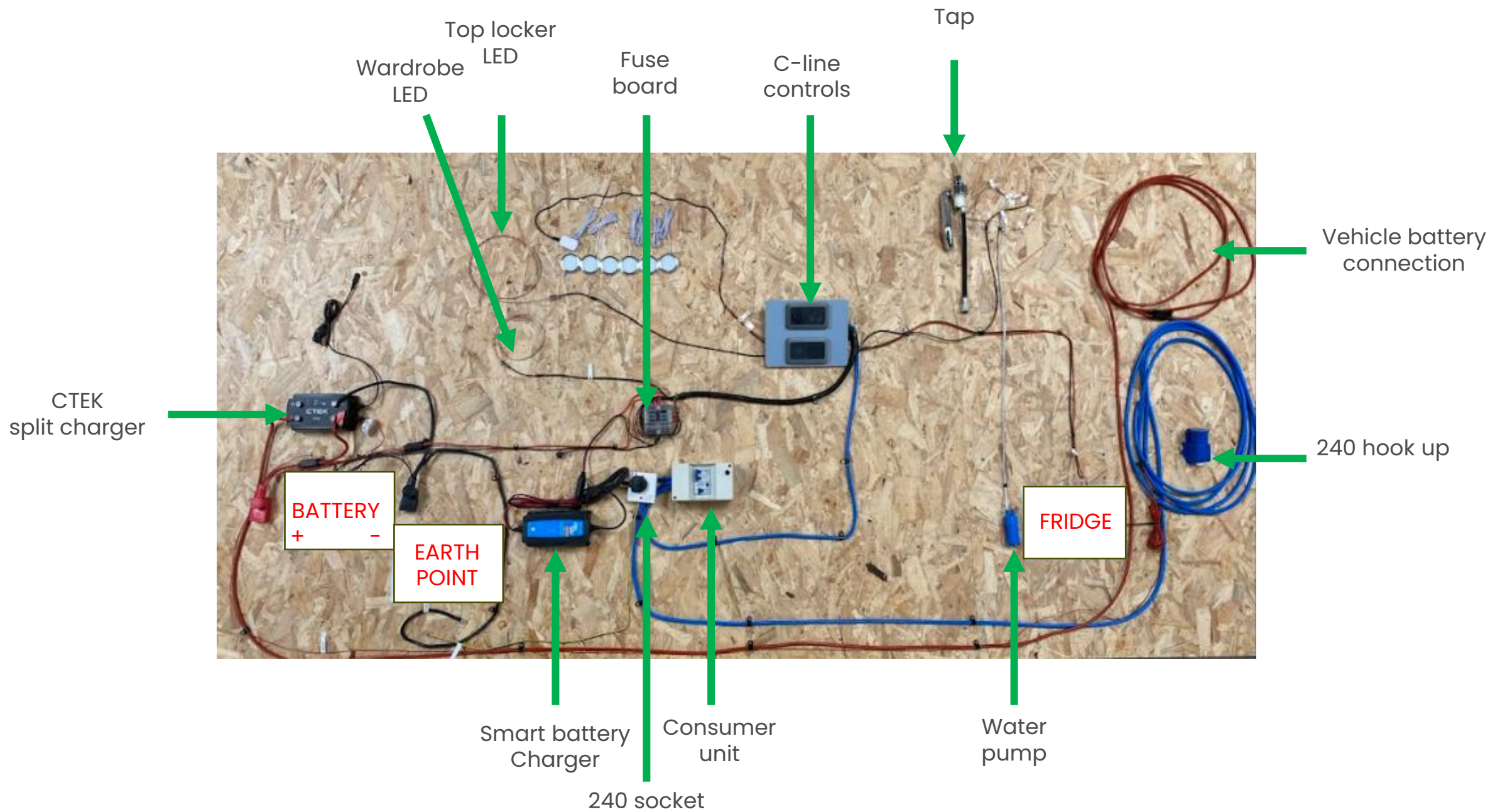
Please note, this instruction manual is a guide to how we recommend the following stages are carried out. Although the looms and components are prewired and labelled, you will require a basic understanding of electrics. If you are not confident in this process, we recommend seeking advice or help from a professional.

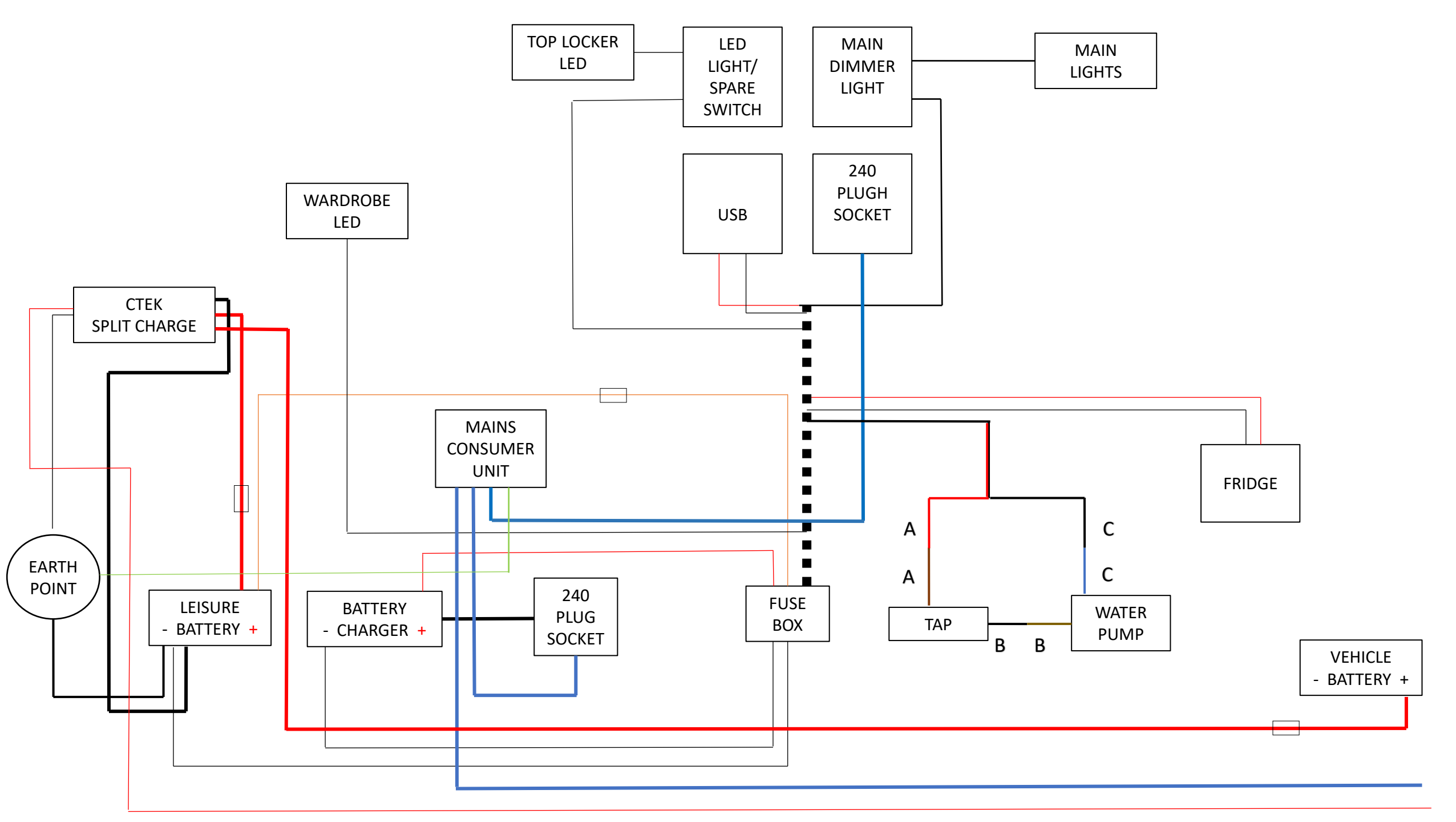
All components and looms are pre-tested on our mock up kit to pass quality control before leaving us, any issue that arises will be a result of incorrect assembly and will require a fault-finding process. For example, the entire electrical loom may not be live due to one simple loose connection. Please ensure you have followed the steps correctly.

Although we may be able to advise, we are a product-based company, all components are brand new and tested. If you are still unable to diagnose where any electrical issues are, we recommend seeking advice or help from a professional.









VAN EARTH POINT



Your electrical kit will need earthing to the vehicle, therefore locate a suitable earthing point below the height of the wardrobe bottom shelf in the O/S rear quarter and attach the earth cables. You can do this now then attach to the battery later, or attach to the battery then earth when in the vehicle

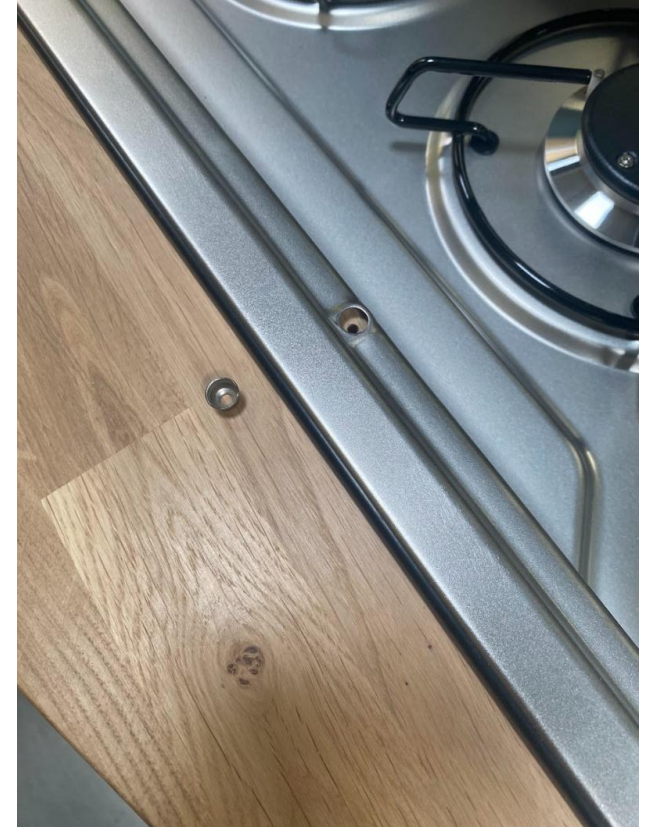
SINK/ GRILL COMBO



Remove the protective
masking tape



Fit the rubber edging, cut on
completion and butt together



Insert the grill to the underside
template. Fit the screw inserts

SINK/ GRILL COMBO



Screw into the worktop
using the screws provided
with the appliance



Fit the black screw caps

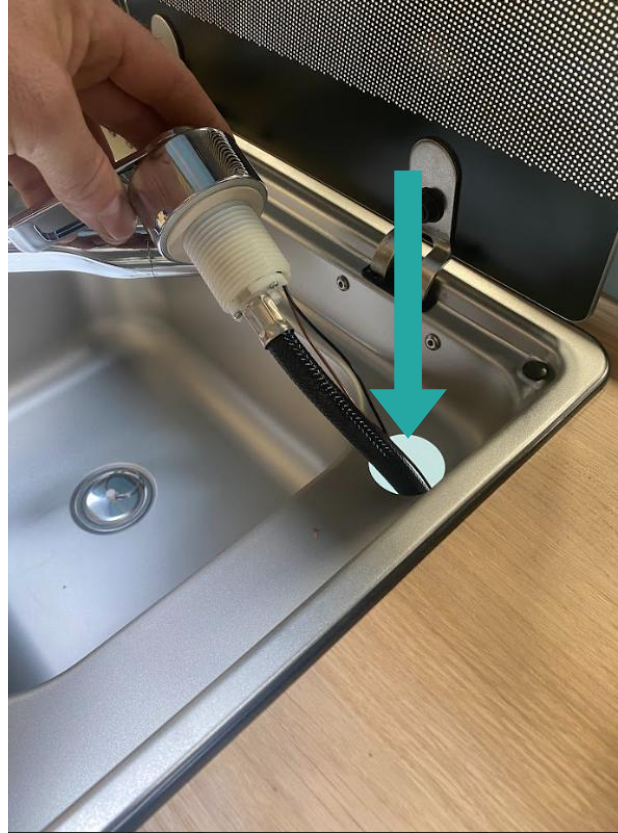


Fit the plug rubber seal

SINK/ GRILL COMBO



Screw the drain into place



Feed the tap through the tap hole



Feed the rubber seal then fixing thread over the water pipe and cables from behind and tighten

SINK/ GRILL COMBO



Heat one end of the freshwater pipe in hot water



Manipulate the pipe to give a wider berth



Fit the pipe to the water pump

SINK/ GRILL COMBO



Fit the other end to the tap inlet, push firmly, there will be an obvious audio clip



Fit the 20mm waste pipe to the grey outlet under the sink, fasten with jubilee clip, heating in water may be required

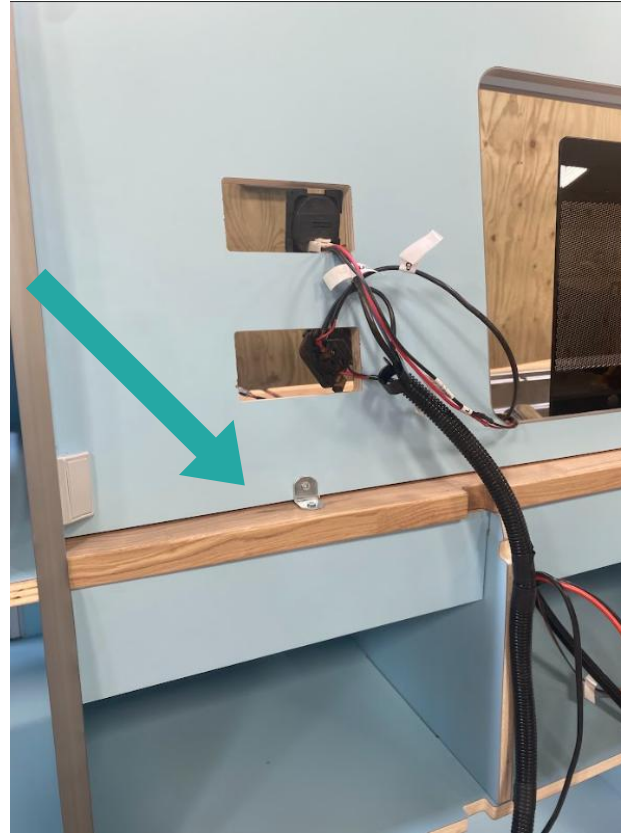
STOP & READ

Always use 16mm screws unless stated otherwise, failure to do so will result in screwing the furniture board

FUSE BOARD AND MAIN LOOM



Screw the fuse board into place using the pilot holes provided

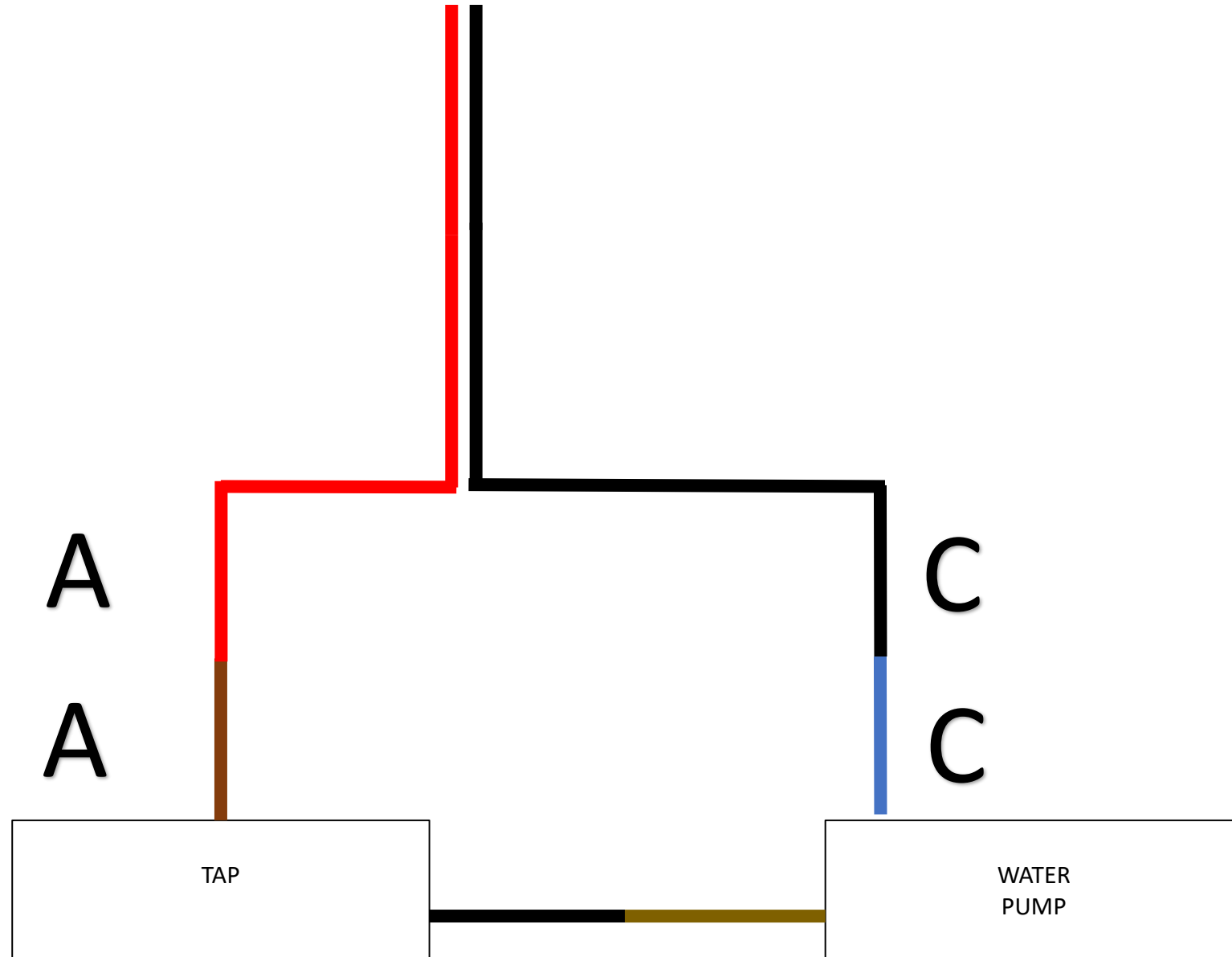


For FTC simply masking tape the switches here on the worktop, the control panel will be fitted later



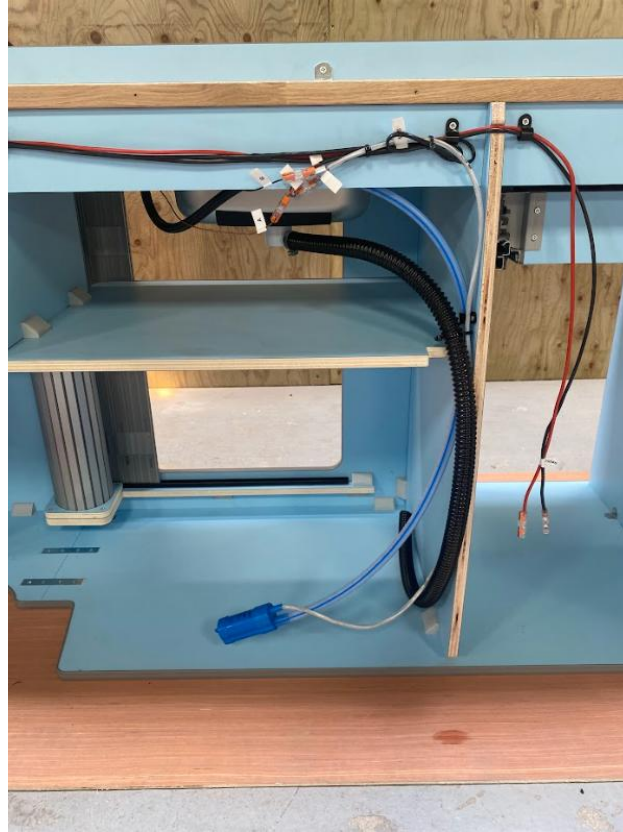
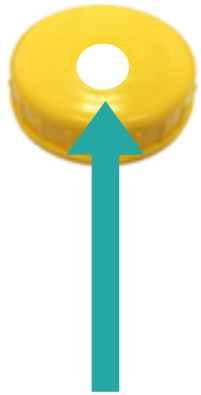
Using the cut outs in the furniture, run the fridge and tap cables into place and p clip into position

TAP WIRING DIAGRAM

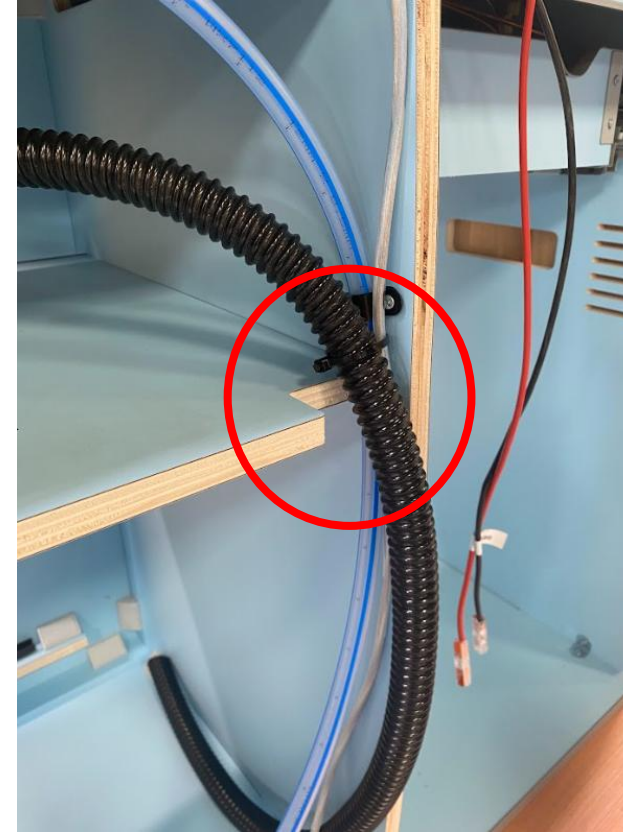


TAP

Feed the cable and
fresh pipe through
the hole on the
water tank lid
before installation



Connect the tap and water
pump using the labelled
wago connectors, then P-clip
or cable tie away



P-clip and cable tie the waste,
water pipe and tap cable into
the shelf notch

CONSUMER UNIT & SOCKET



Remove the consumer unit face and fit into position, ensure the short single 3 core blue cable and earth exits the bottom



Remove the 240 socket face and fit on the square below



Finally refit both faces

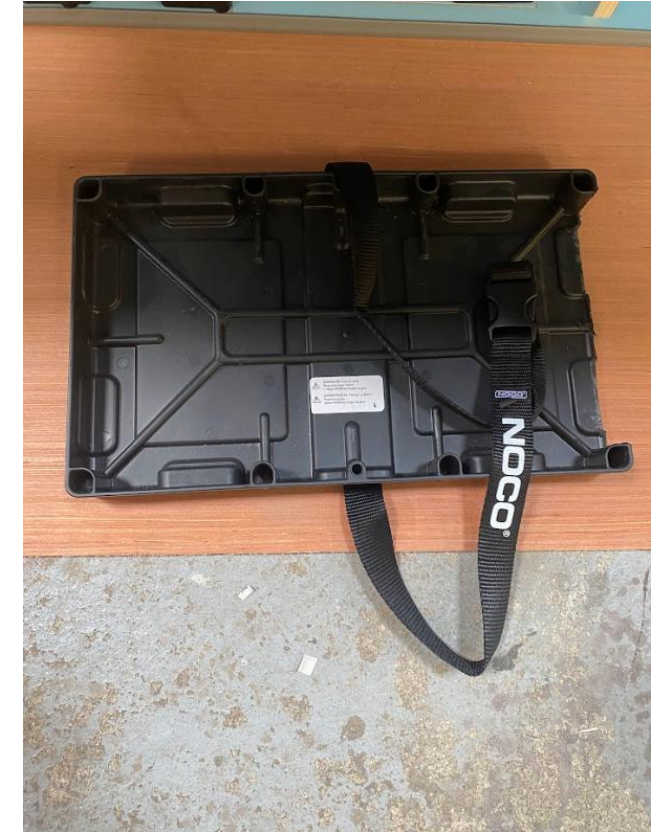
CTEK/ BATTERY CHARGER AND TRAY



Screw the CTEK split charge into position



Screw the smart charger into position and connect



Before fitting the battery tray remember to feed the strap underneath

BATTERY TRAY



Fit the battery tray using the pilot holes provided, have the cut-out entry point over the positive side

WARDROBE LED



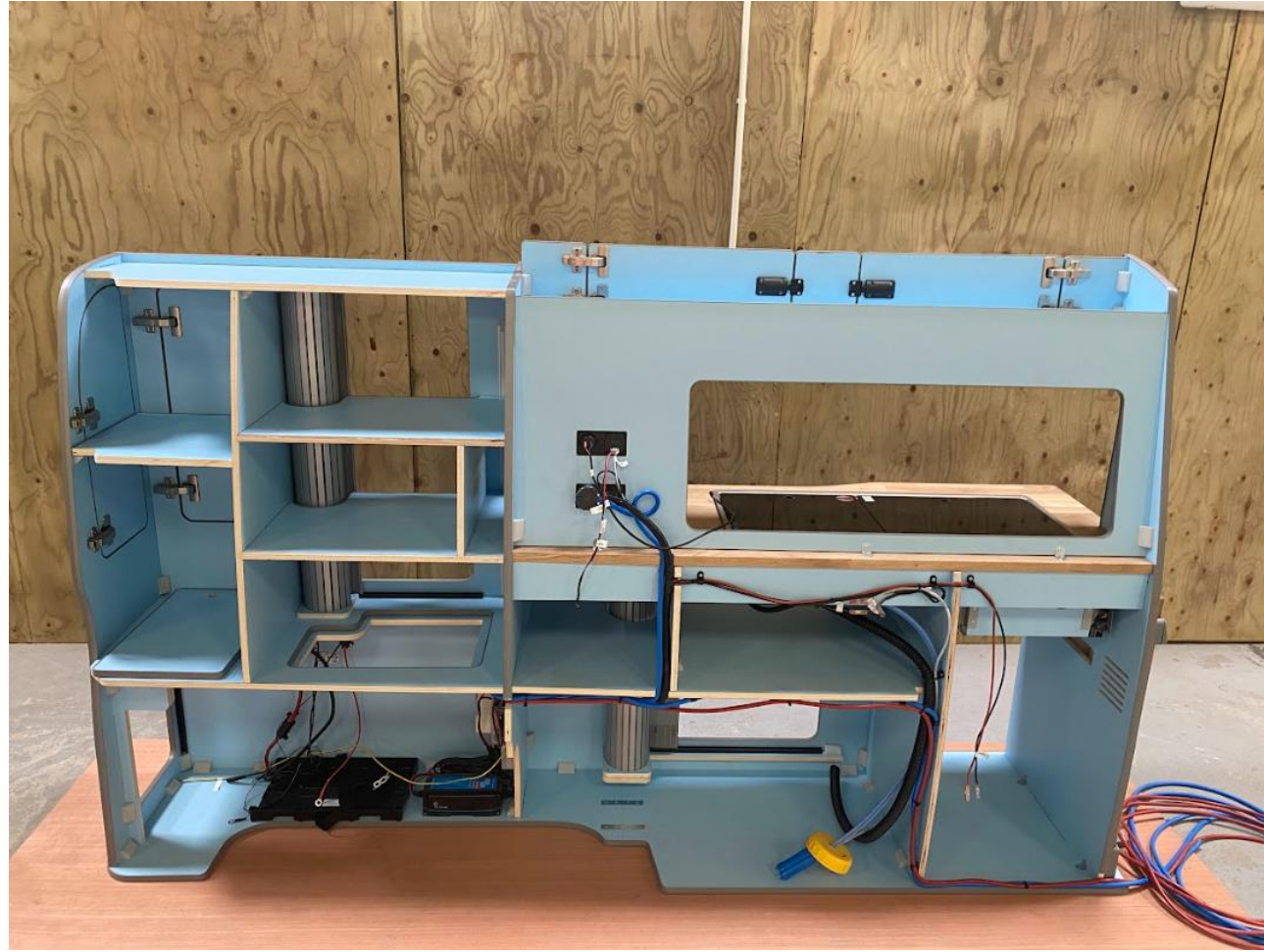
Clip the Wardrobe LED into the Qijie joiner, ensure the fit is correct

P-CLIP CABLE TIDY

Tidy up all wires and P-clip into place, it's important to have tidy and organised cables, here are a few pictures of how we do it.
Where possible clip AC, DC and water separate

P-CLIP CABLE TIDY





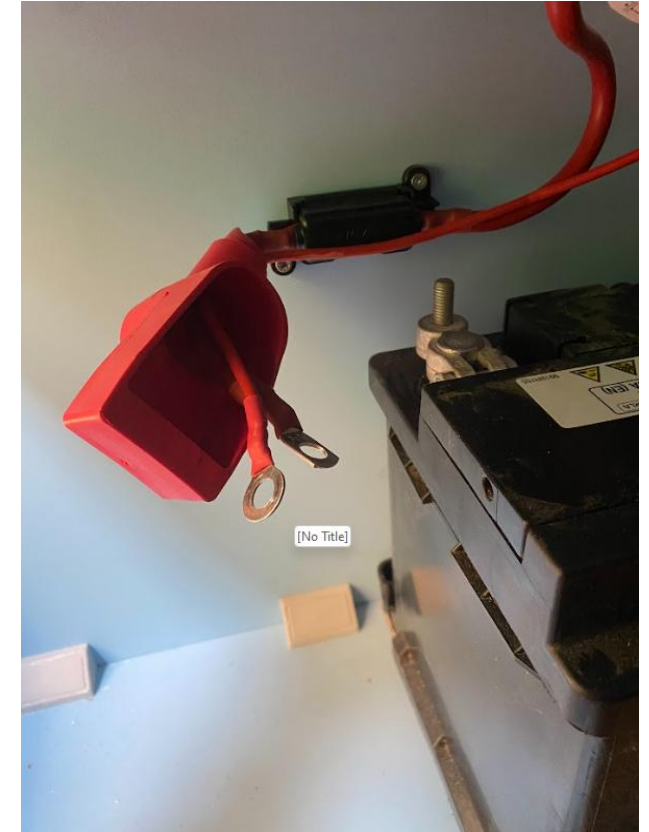
CONNECTING THE LEISURE BATTERY



Attach the battery terminals



Fit the battery to the stary and
secure with the strap



Pull all live red cables and the
CTEK thermometer through
the rubber terminal

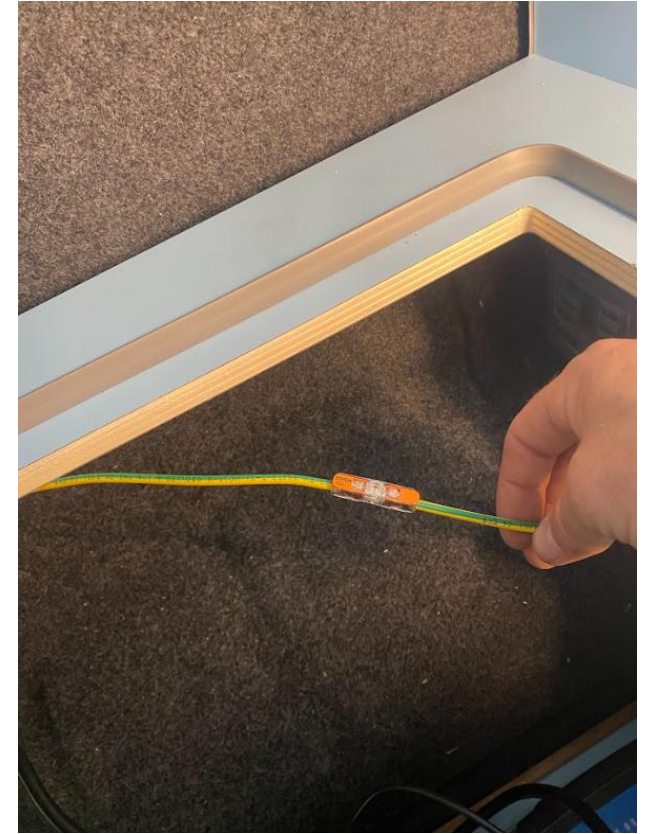
CONNECTING THE LEISURE BATTERY



Fit the studs over the terminal positive, then firmly tape the thermometer to the terminal



Fit the rubber terminal and repeat the process for the negative, include the black earth cable



Attach the consumer unit earth with the wago clip



Offer the units into position but do not fit into place

CONNECTING TO THE VEHICLE BATTERY



Locate and access the vehicle battery beneath the driver's seat



Connect the red split charge cable stud to the vehicle battery live



Reattach the battery cover and p-clip cables neatly

SMART ALTERNATOR

From 2015 the customs are fitted with variable voltage charging systems that help to reduce emissions, this means conventional VSR relays are no longer appropriate to use. If you have this smart alternator, you will have a third 1mm red cable with a 'piggyback fuse' on the end that will need to be connected to a switch live/ ignition feed. This can be achieved by locating the fuse box found under the steering wheel/ above the panels, simply route the cable under the trims, and plug the piggyback fuse into an ignition live.

See video links below for helpful tips

<https://www.youtube.com/watch?v=Nkb0nSuRQxE>

<https://www.youtube.com/watch?app=desktop&v=a1yoS5WfBF8>

SMART ALTERNATOR



FITTING THE 240 PLUG



Locate the position you want the plug and cut the excess cable according



We recommend simply fitting on the B pillar (see next slide before fitting)

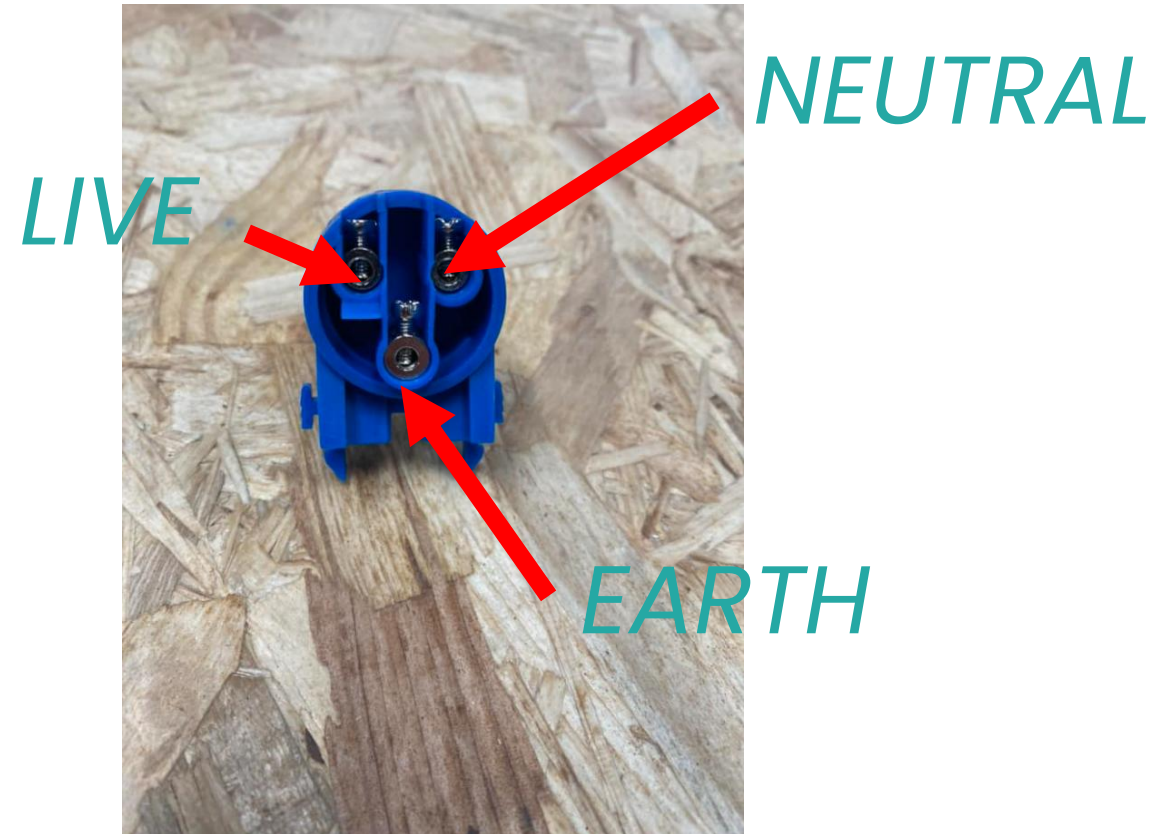


If fitting inside we also recommend wind deflectors, allowing the extension to feed through the window when hooked up. These are good for air flow also

FITTING THE 240 PLUG



Wire the 3 core artic 240
cable to the hook up



Please double check
terminals match the picture
as newer designs may differ

FITTING THE 240 PLUG



Alternative methods include passing the cable through the fire wall and mounting under the bonnet, or fitting externally.

TEST

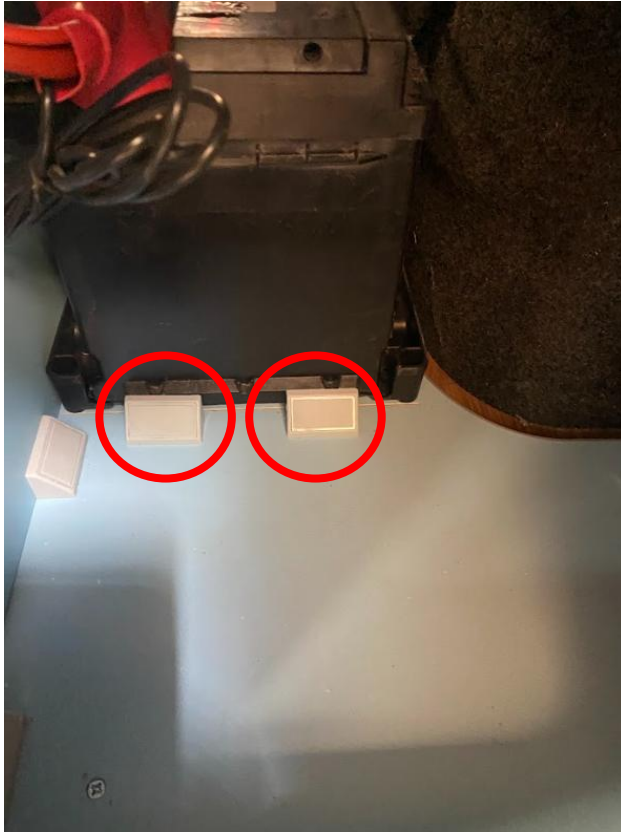
Before securing the units to the van, we advise running an electrical test. Check all components are working correctly. Make sure your consumer unit is on with the breakers in the off position.

FITTING THE UNITS

Push the unit into position flush with the van walls

The wardrobe should be as far to the rear as possible underneath the D pillar

FITTING THE UNITS



Secure the battery rear with 2 x chock blocks, screw into the base only with 16mm screws



Firstly, fit the rear into position, you will need to pilot drill through the van metal work before fixing, 16mm screws is surfiest



Repeat the process with two chock blocks as seen in the picture

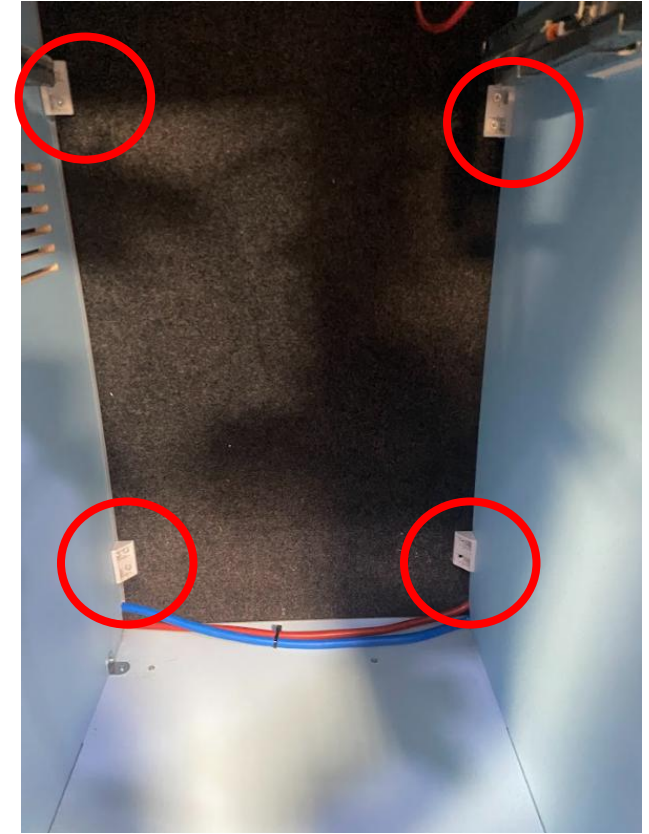
FITTING THE UNITS



Continue to secure the units to the van ply lining, 16mm screws only into the furniture, however 25mm can be more effective into the ply.

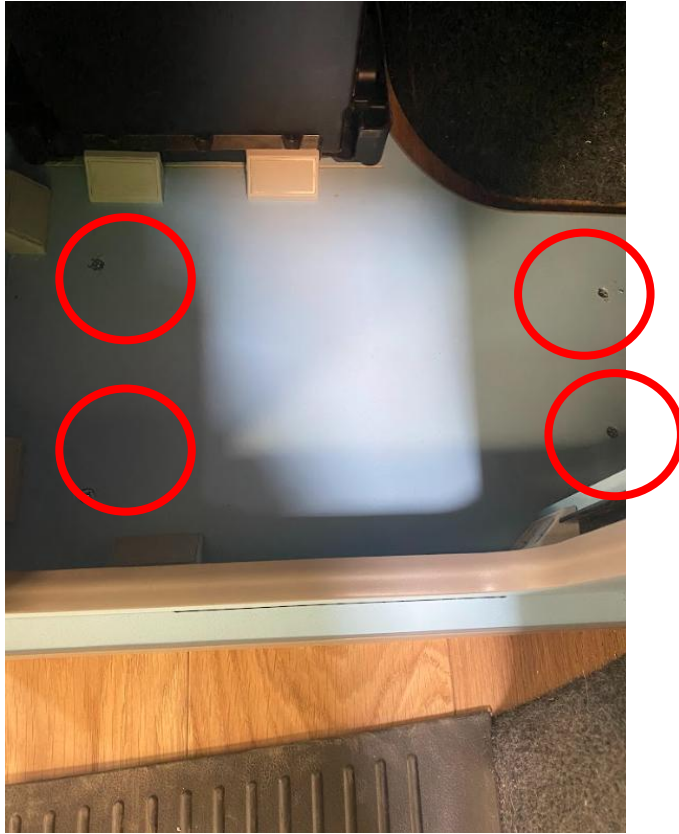


Ensure the units are pushed back and as flush as possible. Key tip, attach the block to the unit first, then into the ply



Finally, the fridge pod area, remove the drawer for easier access

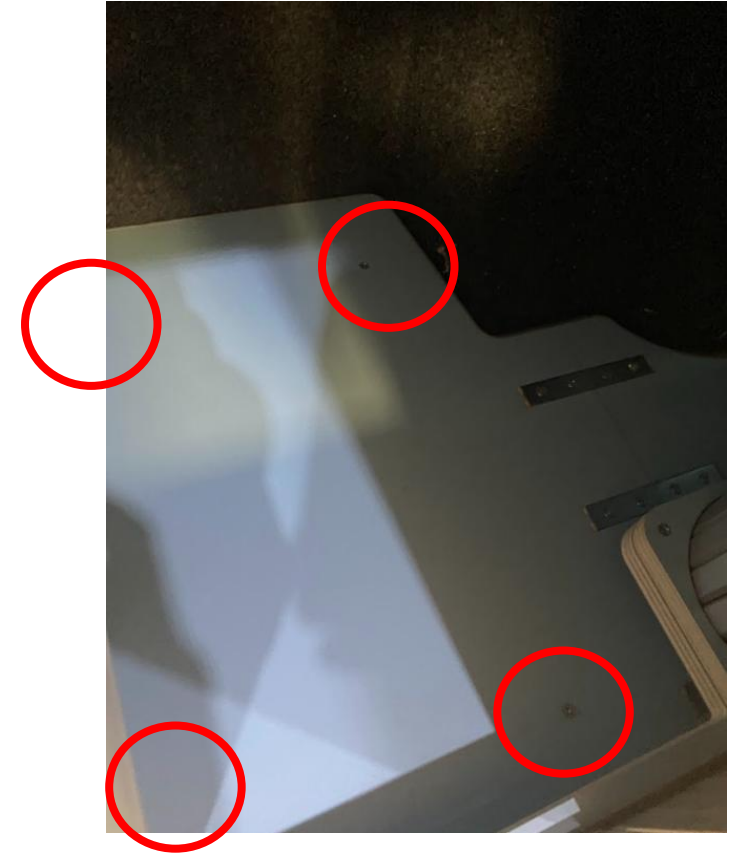
FITTING THE UNITS



Now screw into the floor using 25mm screws.

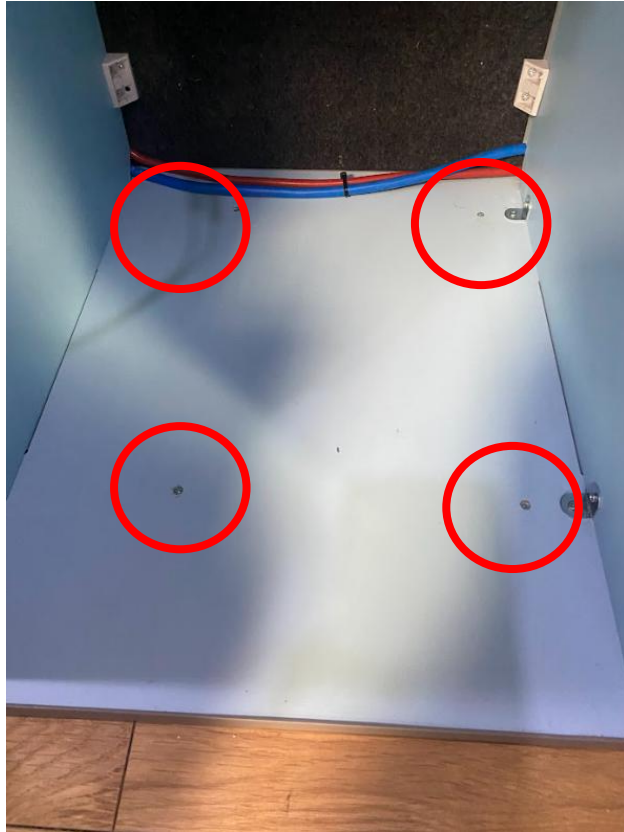


Remove the battery access flap in the rear wardrobe to locate the two pilot holes, be mindful of the electrics

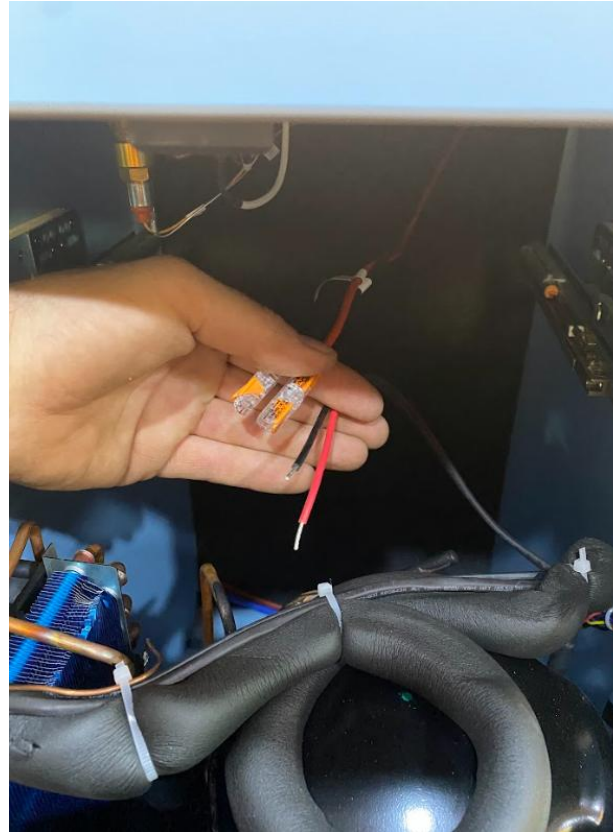


Continue in the main compartment.

FITTING THE UNITS



Finally, the fridge aperture .



Offer the fridge into position and connect the feeds using the wago connectors, check the fridge is working before fixing



Screw through the right side into the aperture, use 25 or 30mm screws, be mindful not to screw through the ply

SPLASH BACK



Once you have installed and fitted your units, offer your splash back to the recess of the van, you can fit by screwing through the splashback into the ply lining where the top locker will sit. You will also need to attach to the worktop, we advise marking exactly where it sits and screwing from the underside of the worktop to attach.

To fit the splashback on the twin sliding door variant, the OS door must stay permanently shut, we recommend removing the latch mechanism and interior handle

TOP LOCKER & CONTROL PANEL

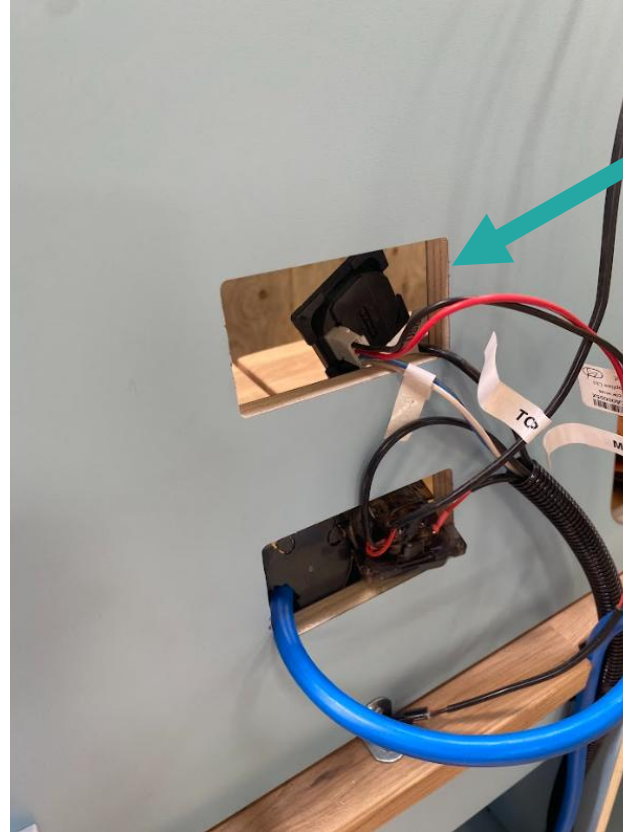


Once the splash back is in place, you can hang the top locker, please note the end panels may need scribing to suit. If you have a pop top you can hang by screwing directly into the metal work, if you have a low roof, you can hang from the headliner, please just ensure your headliner is secure, we also recommend adding some ply blocks in behind to give your screws some bite. Your control panel B8 and B9 is also oversized and will need trimming to suit.

C-LINE CONTROL PANEL



Remove the back cover of the 240 C-line socket



Finally fit the control panel box, this is over sized due to different variations in roof heights and will need trimming to suit for a perfect fit.

Trim from the base on both pieces

Ensure to feed all controls though the C-line cut outs before fixing

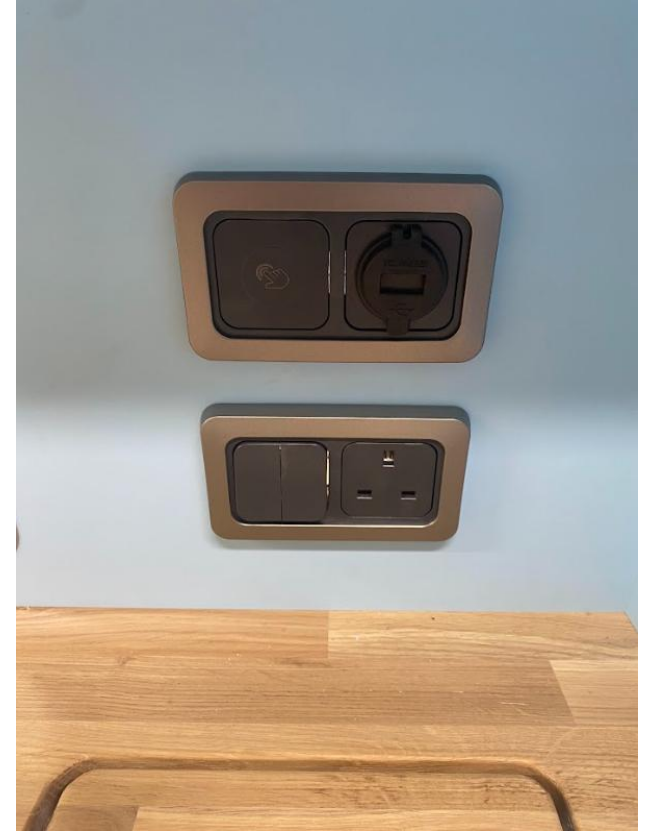
C-LINE CONTROL PANEL



Re attach the back cover of the 240 C-line socket



Clip the controls into the fixing plate then screw into place aligning with the pilot holes provided



Clip the finishing cover plates over the top into position

FITTING THE TABLE LEG AND RAIL



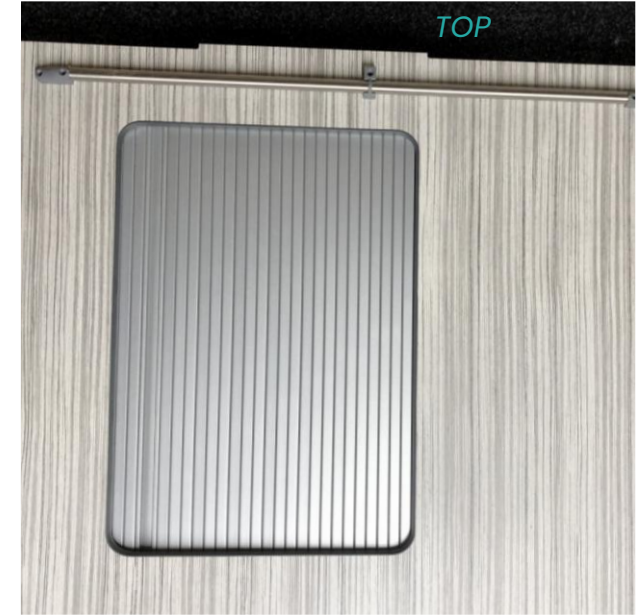
FITTING THE TABLE LEG AND RAIL



Screw the table leg into the underside of the table with 4 x 20mm screws provided, ensure central

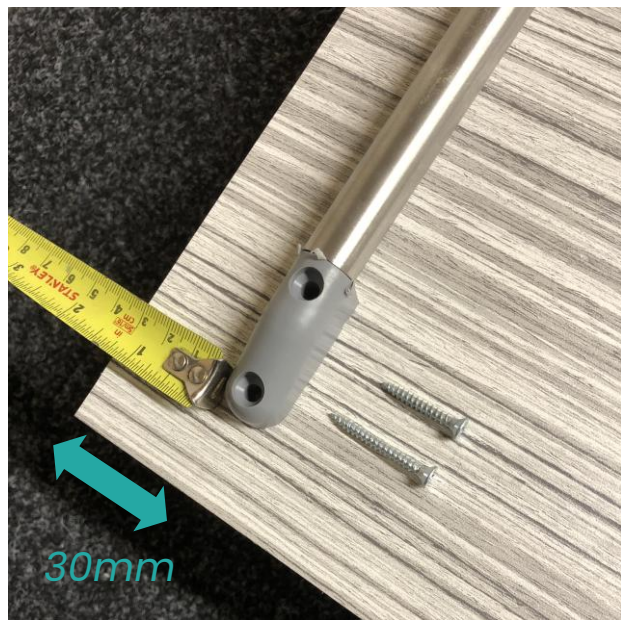


Fit the rail brackets 40mm from the table edge with 4 x 16mm screws in each bracket

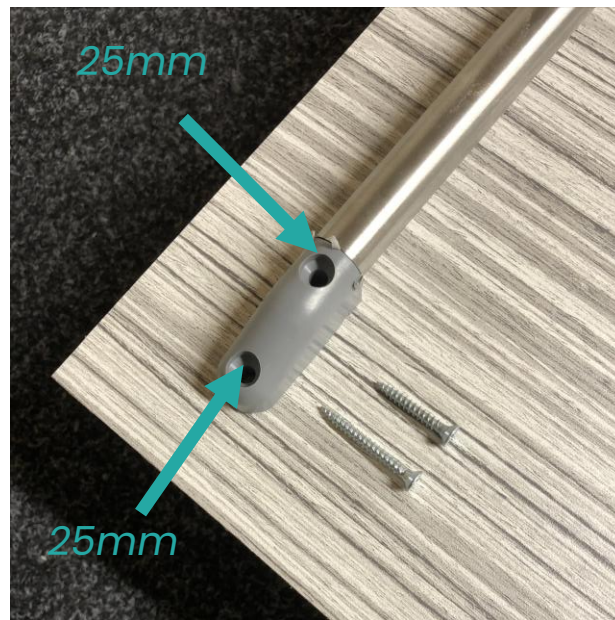


Align the rail central and 30mm from the unit top

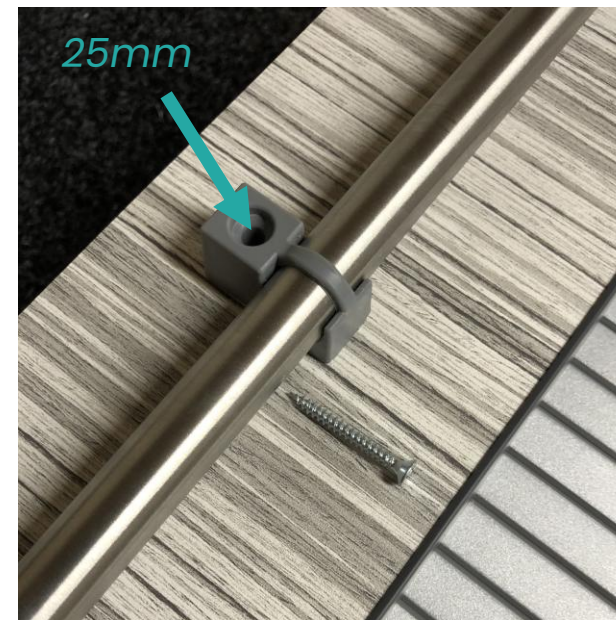
FITTING THE TABLE LEG AND RAIL



Rail 30mm from top of
unit face



Fit the rail using a 25mm screws



Fit the center support using a
25mm screw

FITTING THE KICKBOARDS



Finally fit you bed and kickboards, most kickboards do not have doors, we recommend using disk magnets to attach, you can then fully remove for maximum storage access



COOLWHIP
CAMPER CONVERSIONS

FIND US

Unit 2B
Gallows Park
Millbrook PL11 3AX

CONTACT

01752 42364
info@coolwhipcampers.co.uk
coolwhipcampers.co.uk

INFO

Mon - Sat
9am - 5pm
Sunday closed