



COOLWHIP
CAMPER CONVERSIONS

YOUR INSTALLATION INSTRUCTIONS

T4/T5/T6 FLAT PACK FURNITURE



Premium Range

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 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 furniture range, however all principles of the instructions remain the same. If you have the T4, T5/6 Low level or T5/6 slim line variant kit, these instructions may differ slightly 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 worktop



Prep work such as
hanging doors and
fitting handles

Assemble



Electrics



Fit

STOP AND READ

Ensure you only use **15mm screws** provided, or screws that come with hardware such as drawers and hinges

When using 25mm screws pilot drill first and never counter sink (unless stated otherwise)

Failure to do the above can result in screwing through the outer side of the material



OILING

It is extremely 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.

Treating your edges also makes for a beautify finish

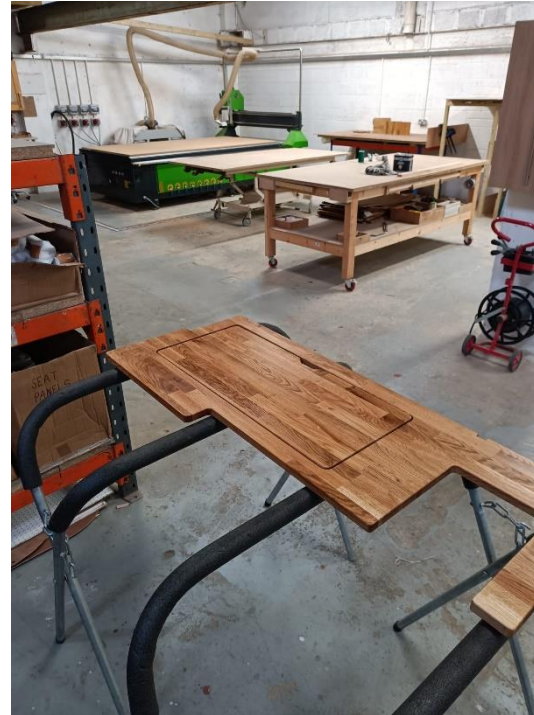


Quick tip – sand down all edges before oiling for a cleaner finish

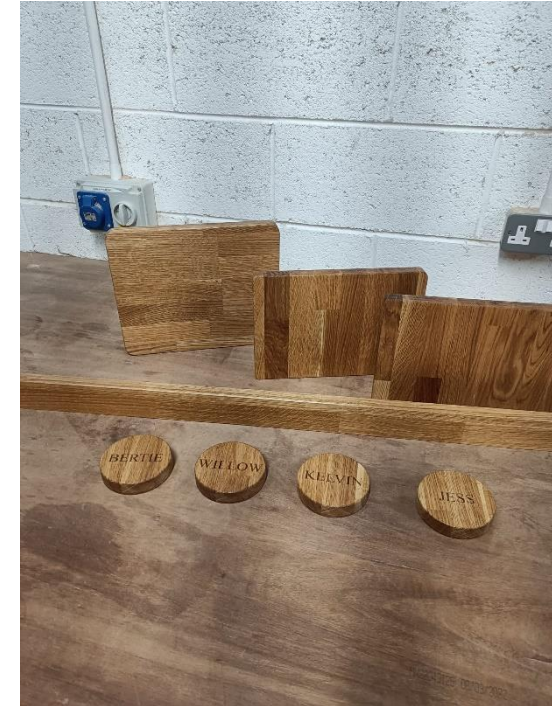


Apply two coats of oil to the edge of every piece of furniture, allow the correct drying time, clean of oil off the laminate face as you go

OILING

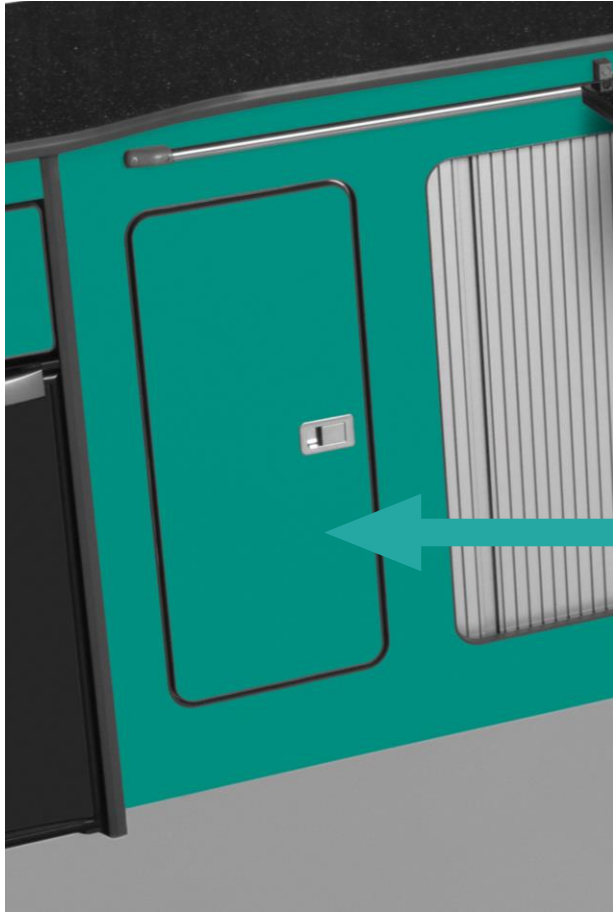


Repeat for the Worktop and handles, ensure to seal every exposed edge



Allow to dry and apply two coats

HANGING DOORS



TOOLS

- Drill Driver
- Stanley knife
- Cross head Screw driver



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

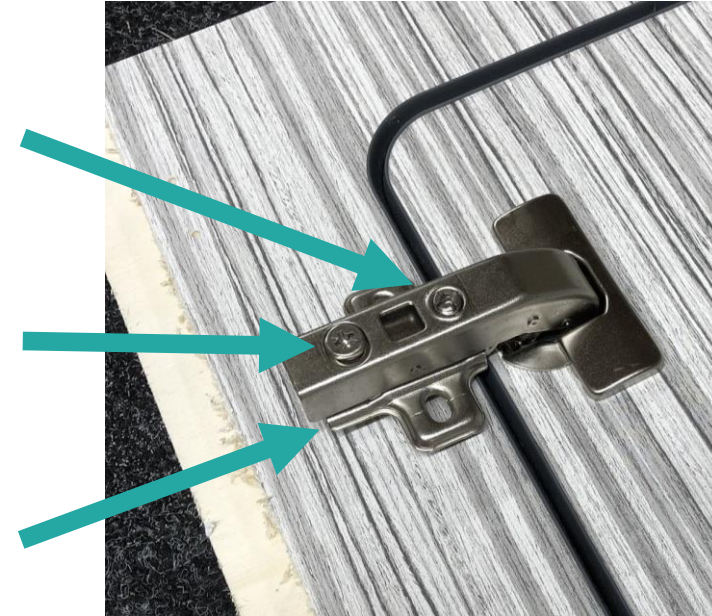


Remove Euro screws (if necessary) and replace with 15mm screws to fit the plate to the aperture

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

(CONT.)

HANDLES



Fit the handles using the
25mm bolts



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



SOFT CLOSE DRAWER ASSEMBLY



(CONT.)

SOFT CLOSE DRAWER ASSEMBLY



Attach the mounting clips



Fit the drawer rear using
15mm screws



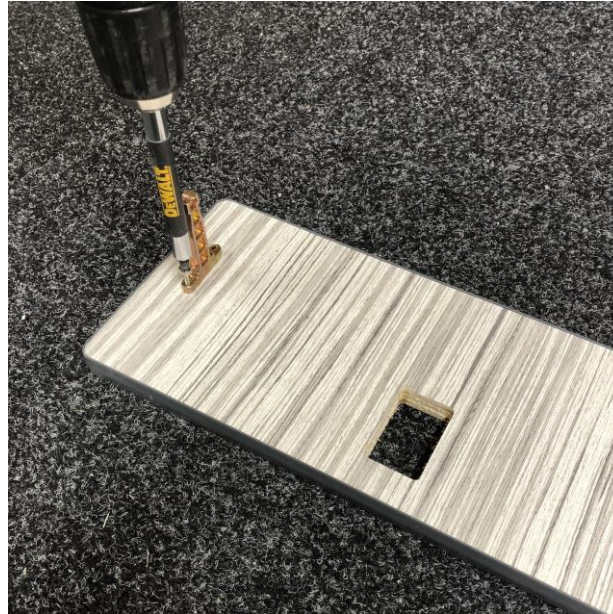
Fit the drawer base using
15 mm screws, ensure the
base is flush to avoid gaps

(CONT.)

SOFT CLOSE DRAWER ASSEMBLY



Fit the drawer face catch or oak handle



Screw the drawer face 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

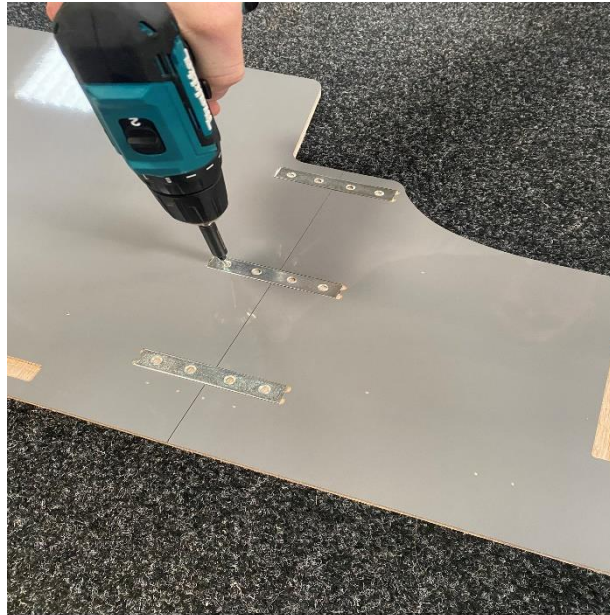


Fit the runners using the pilot holes provided, ensure you have the correct runner on each side. Repeat on opposite fridge pod



(CONT.)

FLOOR ASSEMBLY



Screw the floor 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



(CONT.)

WARDROBE ASSEMBLY

OVERVIEW

The wardrobe is the most time-consuming part of assembly

It's 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

Pilot drill 25mm screws and **do not counter sink**

(CONT.)

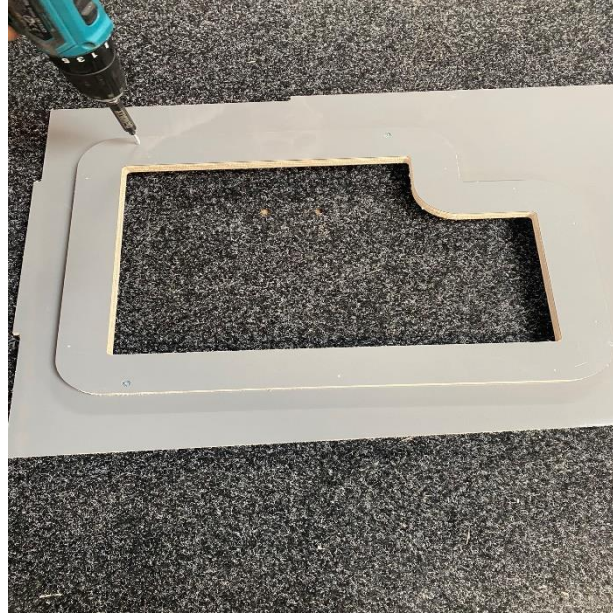
WARDROBE ASSEMBLY



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 inner to the underside of the shelf using 25mm screws, this will seat the battery access flap

(CONT.)

WARDROBE ASSEMBLY



Place the wardrobe face down



Slot the bottom shelf, divider
and lid shelf into the rebates
DO NOT SCREW



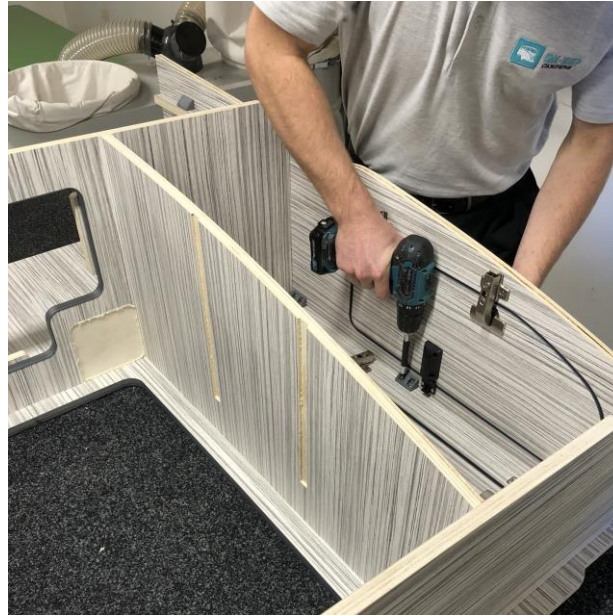
Fit the wardrobe upright (L)
first, start from the base
working up to the top using
the blocks and pilot holes

(CONT.)

WARDROBE ASSEMBLY



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



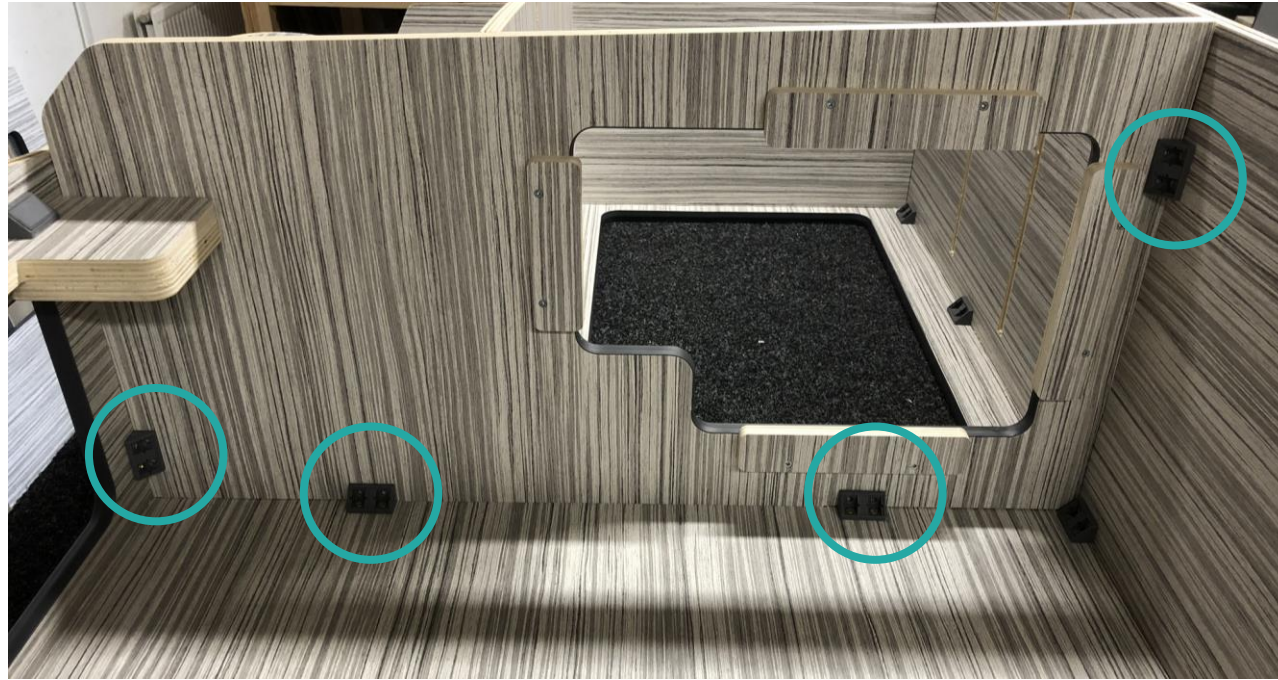
Ensure piece sit together nicely



Ensure the bottom shelf is seated correctly before fixing

(CONT.)

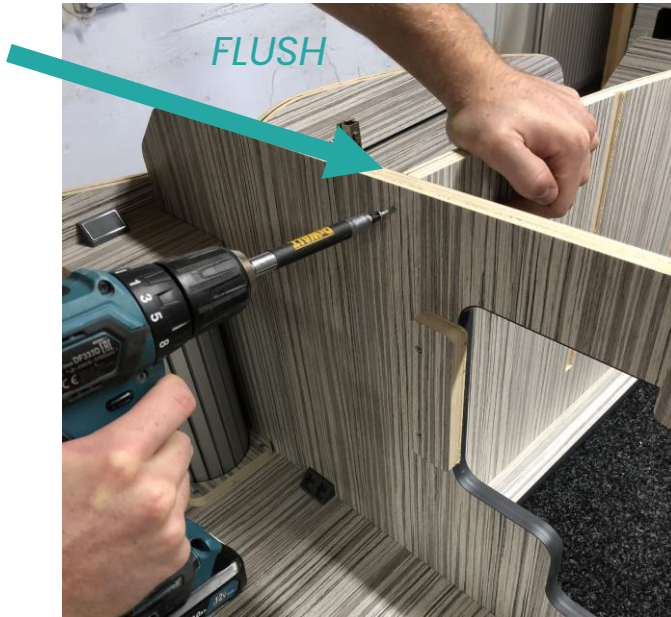
WARDROBE ASSEMBLY



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

(CONT.)

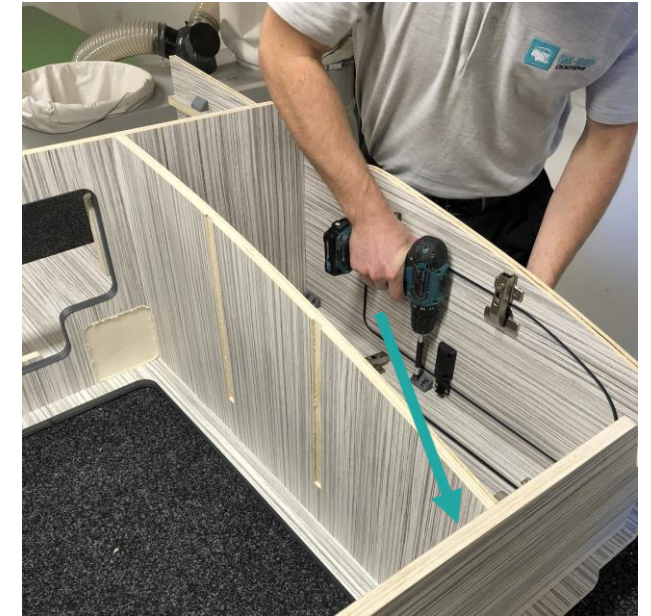
WARDROBE ASSEMBLY



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



Fit the lid shelf to the upright (R) ensure the joints are tight and flush



Secure top of divider with a block

*You may countersink

(CONT.)

WARDROBE ASSEMBLY



Repeat the process with the left upright



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

(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 click into the floor rebates, 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 large tambour door wheel (R) to the bottom shelf using 25mm screws



Repeat the process with the opposite wheel on the lid shelf



Insert the tambour door into the wheel runners from the rear

(CONT.)

WARDROBE ASSEMBLY



fit the bottom track 14b 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 and slide into position before fitting the tambour shelves (finger gap at the front)

(CONT.)

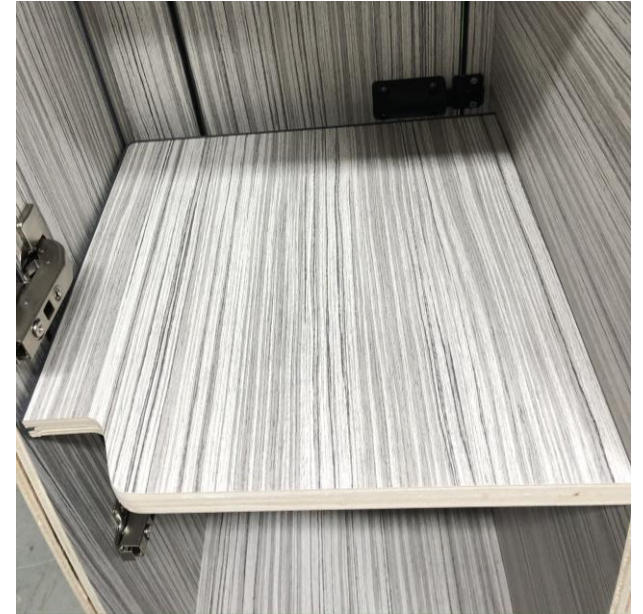
WARDROBE ASSEMBLY



Fit the wardrobe 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 flush with the rear

(CONT.)

WARDROBE ASSEMBLY



Finally slide the cubby
hole insert into place

ASSEMBLY



Fit the Kitchen unit face
from the rear



Ensure the face is flush
with the wardrobe



Fit the shelf blocks

ASSEMBLY



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

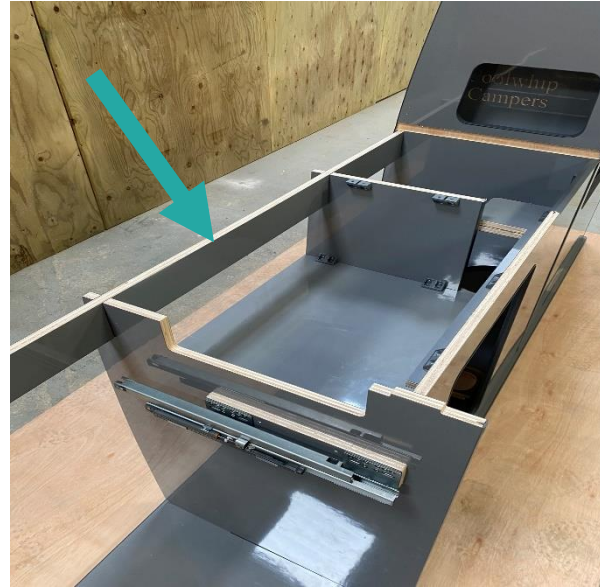


Fit the Kitchen unit shelf

ASSEMBLY



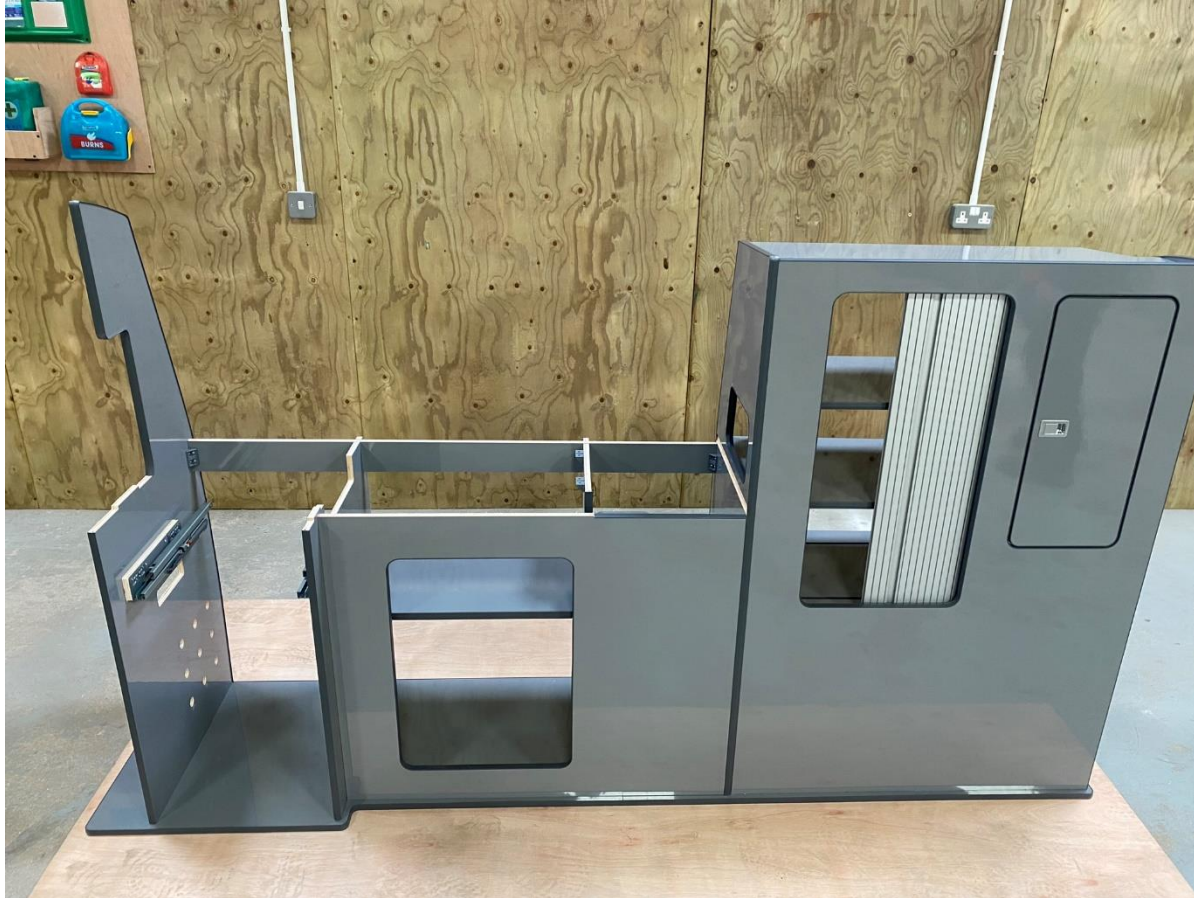
Fit blocks to the flap divider and fit to shelf using the rebate



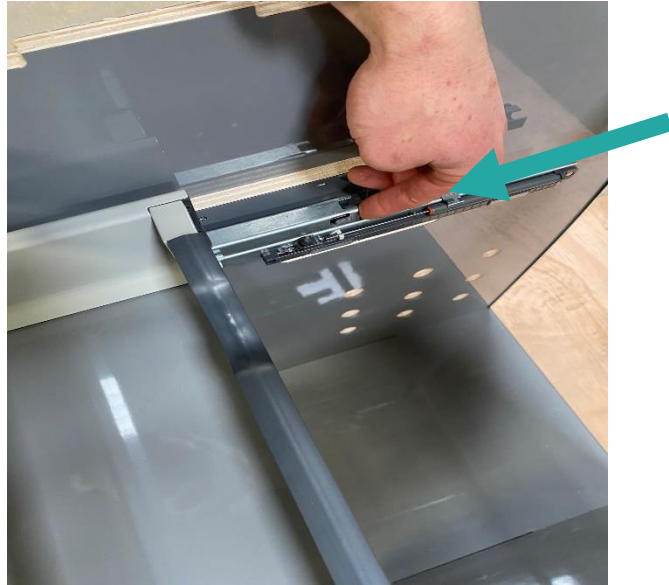
Now fit the rear support into place, be sure to have it the correct way



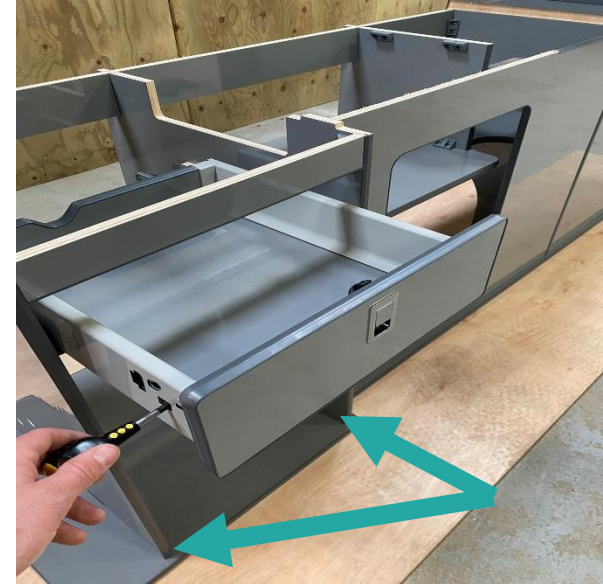
Now fit the fridge pod upright (L) and click and screw rear support into place



ASSEMBLY



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 15mm from the base front

ASSEMBLY

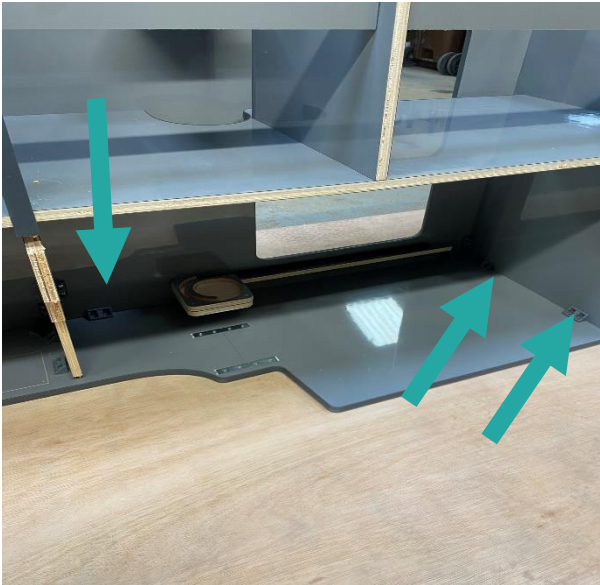


Fit the fridge door using overlay hinges



Fit the left under sink door using cranked hinges

ASSEMBLY



Continue to screw the units to the floor, ensure the furniture is 15mm from the floor edge



Fit the fridge upright (L) to the floor using 2 x 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) with 16 mm screws

FITTING THE TABLE LEG AND RAIL



(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

FITTING THE TABLE LEG AND RAIL



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

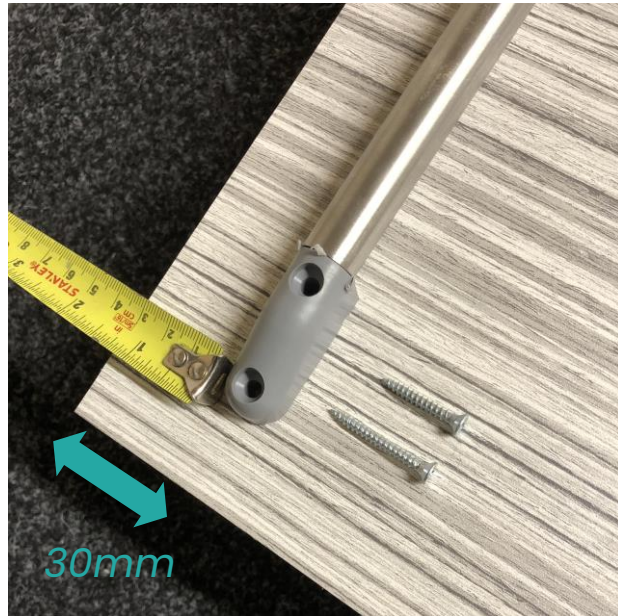


Fit the rail brackets 40mm from the table edge with 4 x 12mm screws in each bracket

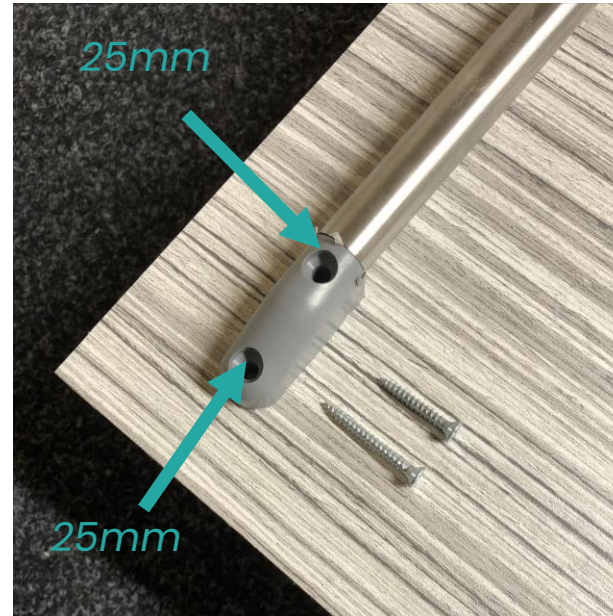


Align the rail central and 30mm from the unit top

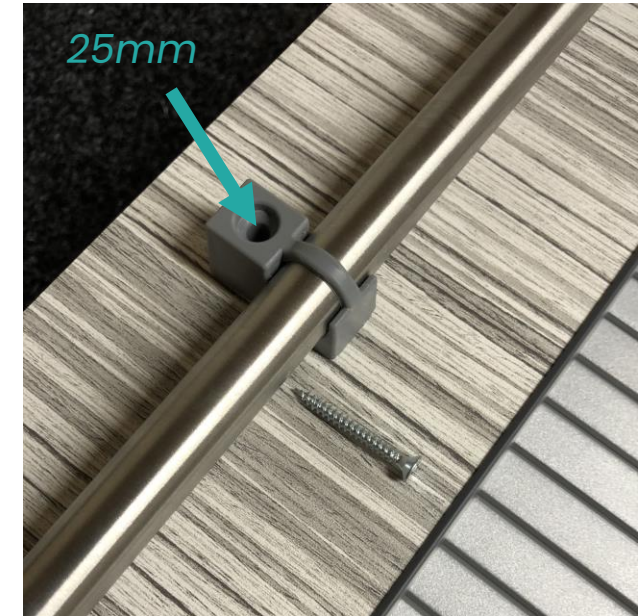
FITTING THE TABLE LEG AND RAIL



Rail 30mm from top of unit face



Fit the rail using a 25mm screws



Fit the center support using a 25mm screw

TABLE STOWAGE



Offer the table in and fit the left side storage holder, ensure it's not too tight



Now fit the stowage clips using 30mm screws, the front one alone is sufficient, you will also find it easier removing the table when fitted

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 15mm screws

TOP LOCKER ASSEMBLY

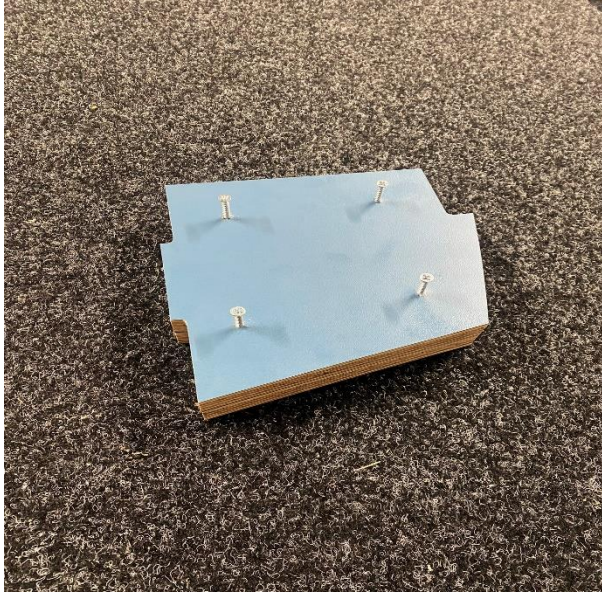


Before fitting the top locker and splashback, if you have a low fitting pop top such as the 'High-low roof' this is a good time to dry fit your units, because you may need to trim the top of the left fridge pod to fit.

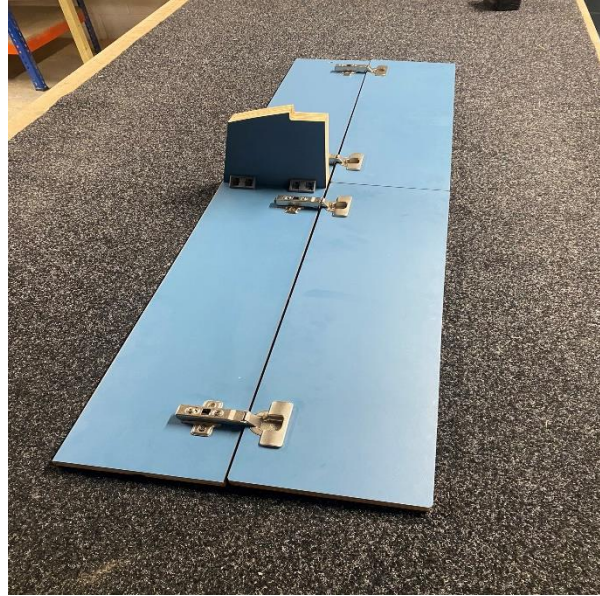
The way the units are designed allows you to trim accordingly, thus allowing you to position the locker in a lower position. Please note, pilot holes both sides will then be obsolete.

This is a lightweight top locker, do not overfill

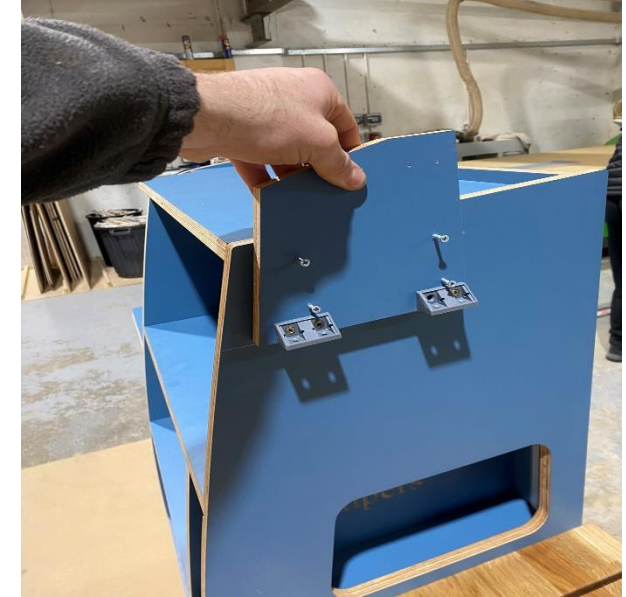
TOP LOCKER ASSEMBLY



Screw the two top locker dividers together



Fit the top locker hinges to the doors and attach to the base, then fit the dividers into the rebate



Screw the top locker end panel (R) to the wardrobe, using the line to position correctly

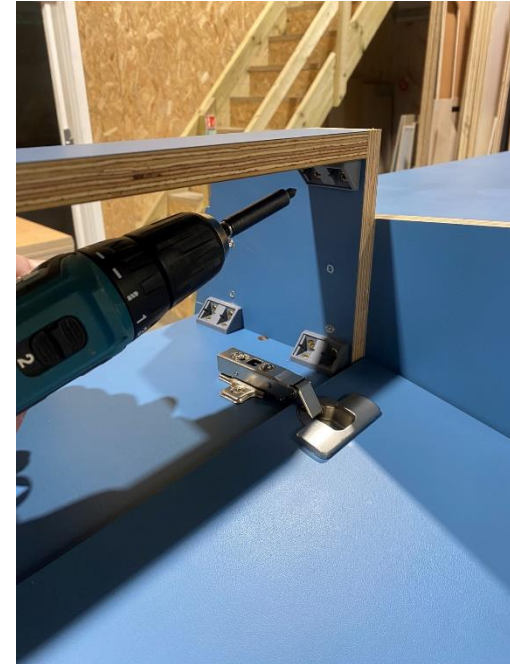
TOP LOCKER ASSEMBLY



Fit two 2 x chock blocks to the top locker support

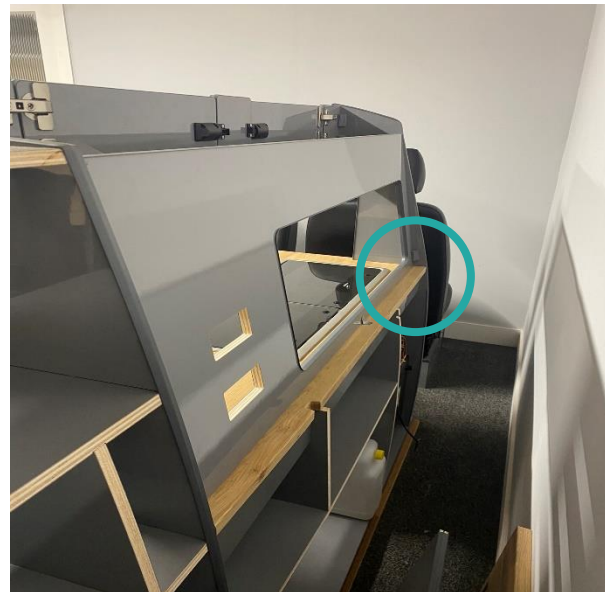


Hang the top locker, use the pilot holes to align in the correct position



Fit the top locker top support

SPLASH BACK



Offer the splash back up, allow it to sit on the worktop surface and lean into the base of the top locker

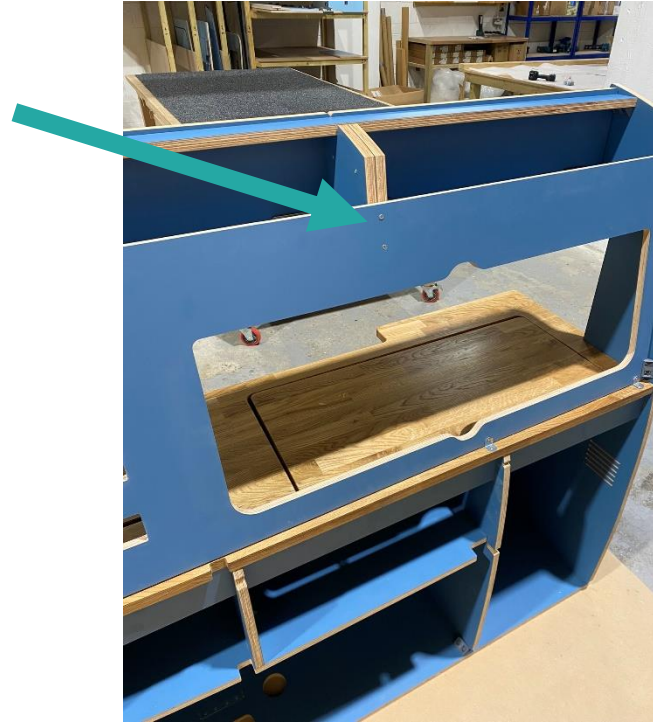


Fit the splash back with 3 x small L brackets on the rear with 15mm screws

TOP LOCKER ASSEMBLY



Measure from the worktop surface to the underside of the top locker to ensure its parallel before the next step



Screw through the splashback into the dividers



For further strength, screw through the splashback into the top locker base, ensure you are screwing in the correct place by measuring (pilot drill first)

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 such as kickboards and the slimline bottom wardrobe door, fit the return block into the rebate using a chock block, this will provide a return to fit the magnetic hinges as before

If you have purchased furniture only skip to slide 101 for fitting





COOLWHIP
CAMPER CONVERSIONS

*ELECTRIC PACKAGE
INSTALLATION INSTRUCTIONS*



COOLWHIP
CAMPER CONVERSIONS

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 electrical
components
and loom



Fit earth cables to
van earth point



Connect to
Leisure battery

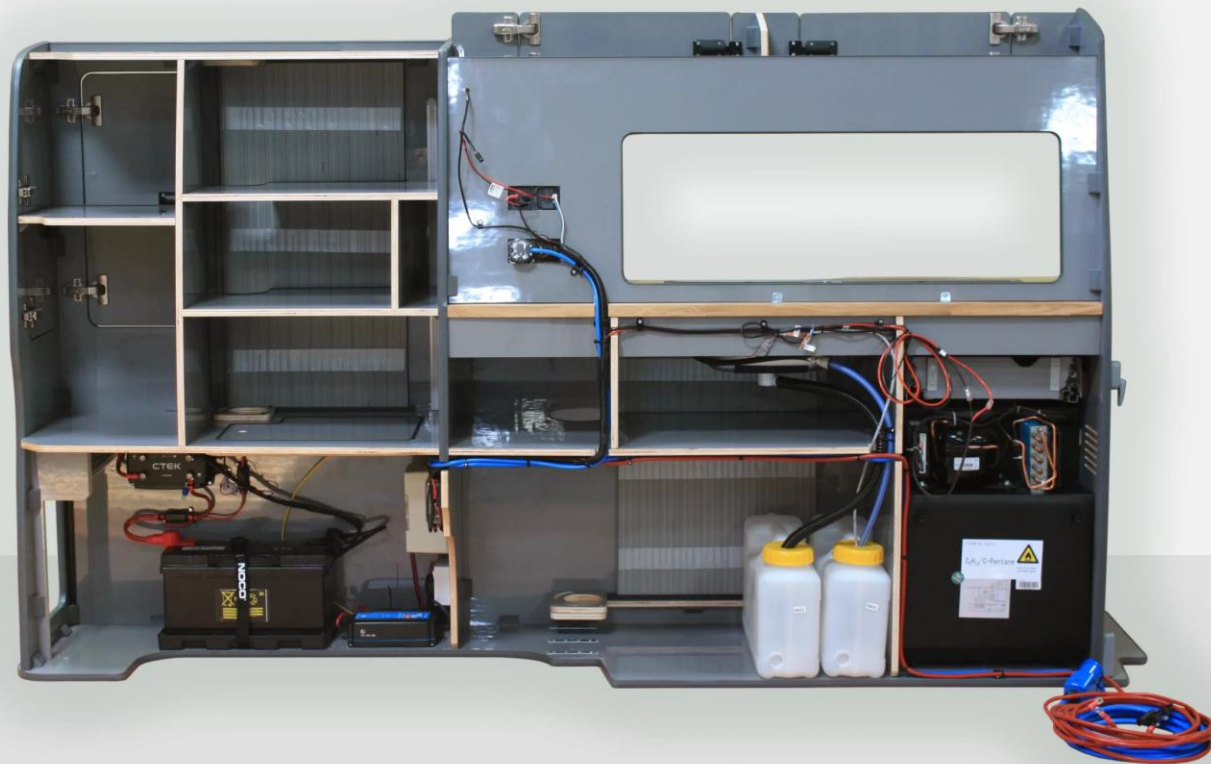


Secure the
units



Connect to
Vehicle battery &
240 hook





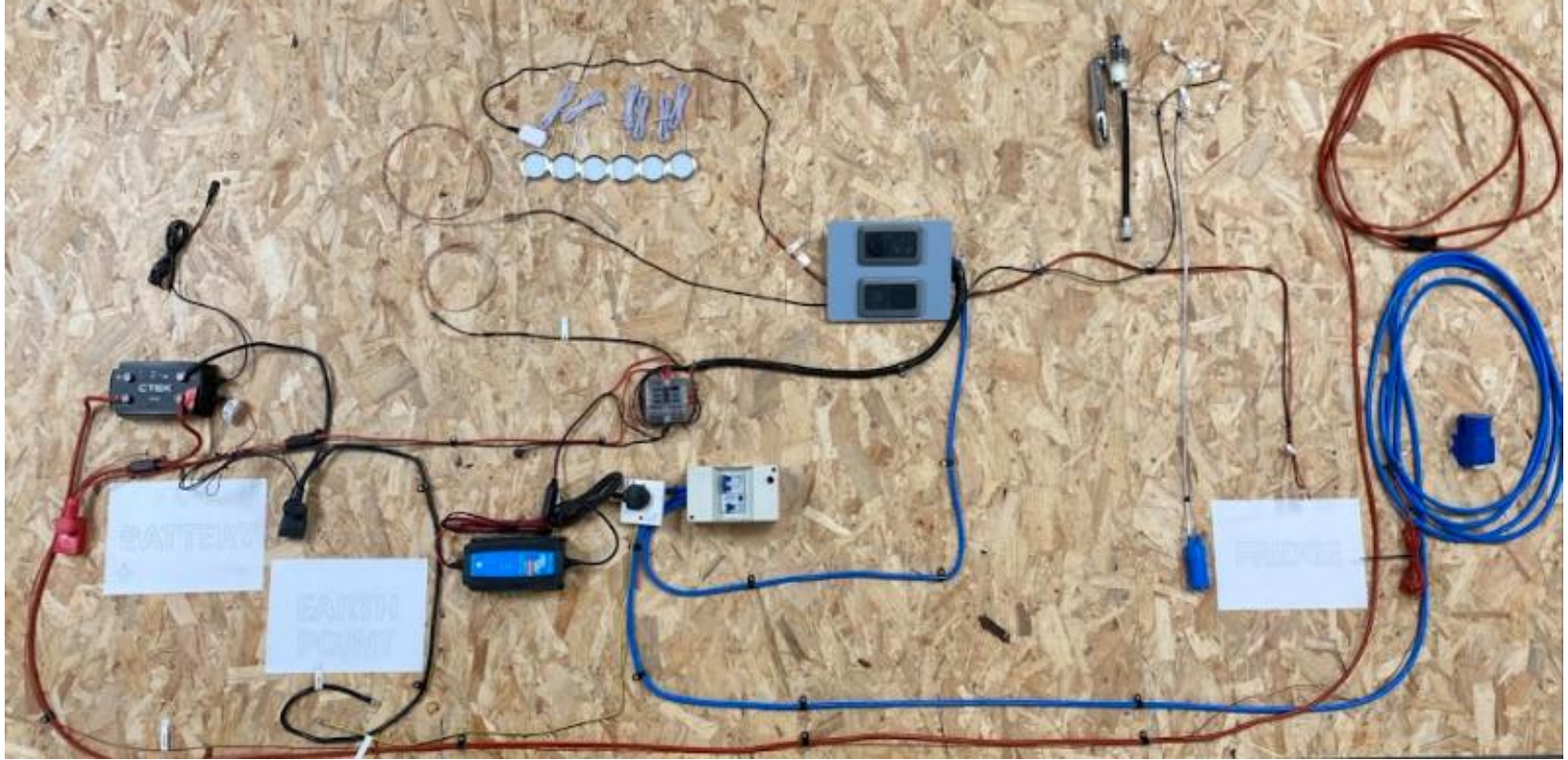
DISCLAIMER

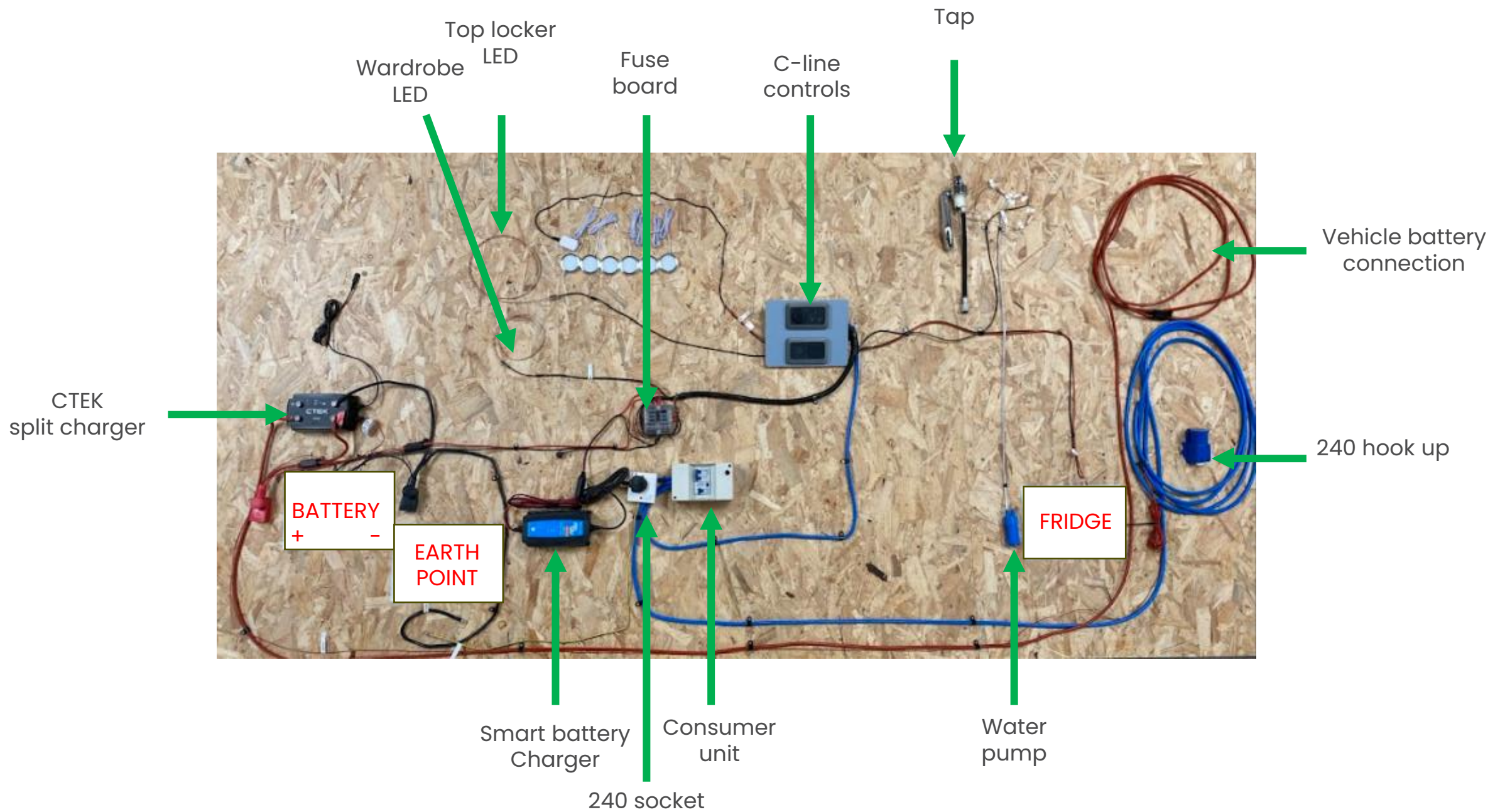
Please note, this instruction manual is a guide to how we recommend the following stages are carried out. Although the looms and components are prewired and labelled, you will require a basic understanding of electrics. If you are not confident in this process, we recommend seeking advice or help from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

All components and looms are pre-tested on our mock up kit to pass quality control before leaving us, any issues 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.





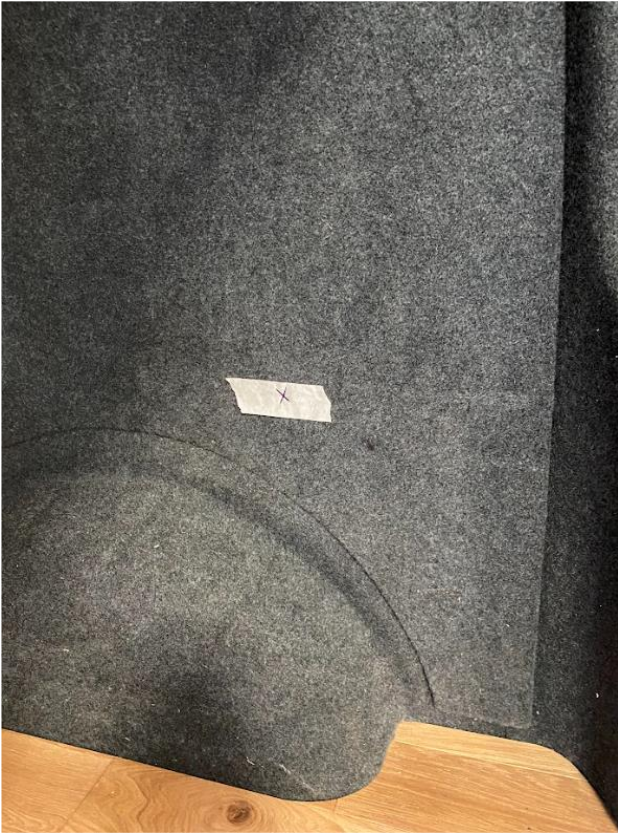


VAN EARTH POINT

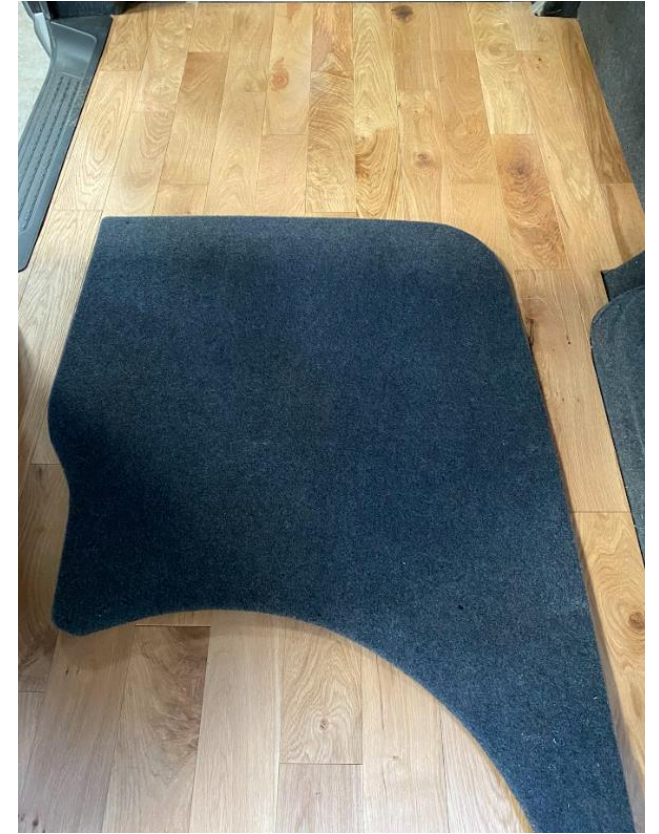
In order to access the vehicle earth point on the T5/6, you will need remove and cut a hole in the O/S (driver side) rear quarter panel. In the following slides we will show you exactly where and how to do this.

If you are unable to remove the panel, we have measured exactly where the earth point is for you to access without removing the panel.

VAN EARTH POINT



Mark the earth point 330mm from the rear of the panel and 450mm from the van floor



Remove the panel

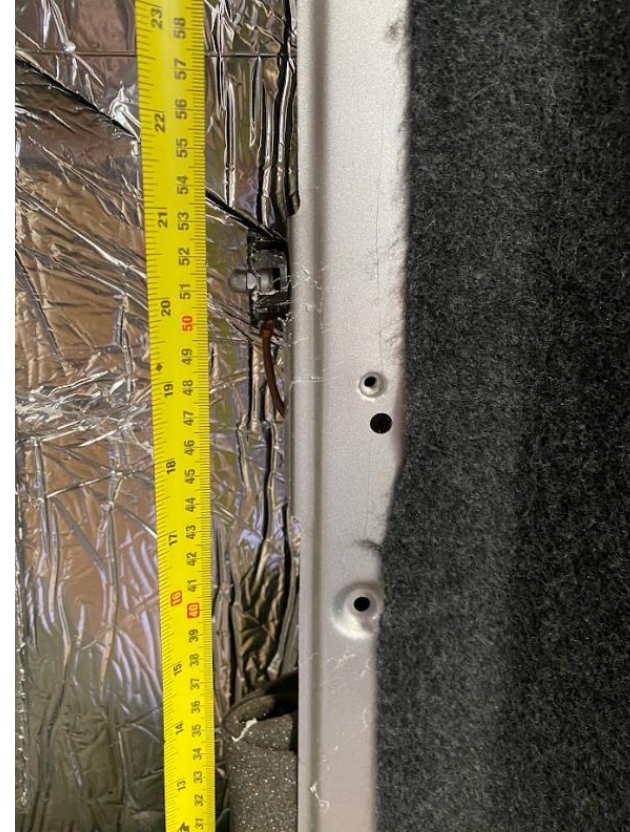
VAN EARTH POINT



VAN EARTH POINT LOCATION



100mm from the rear panel position



500mm from the van floor

VAN EARTH POINT



Fit the earth cables



Re attach the OS rear
quarter panel

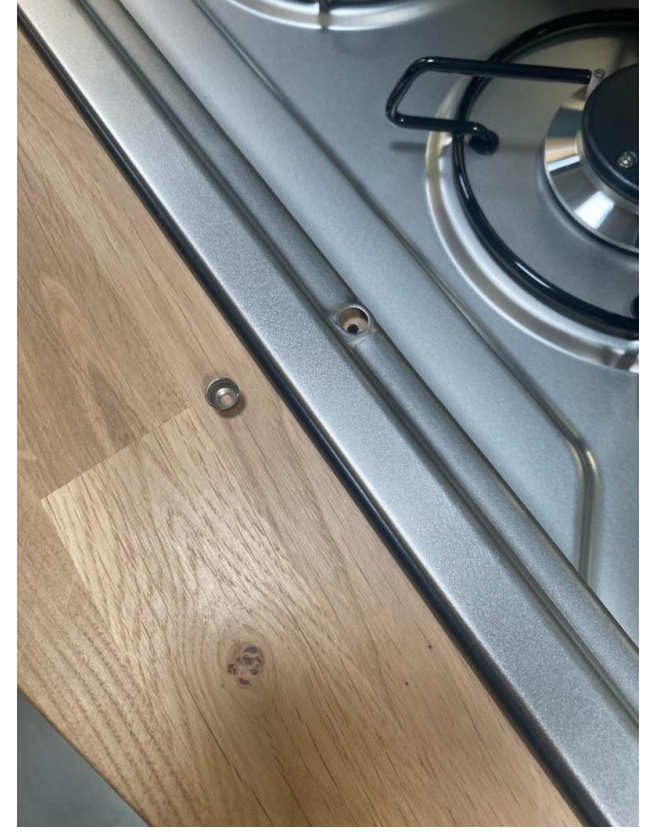
SINK/ GRILL COMBO



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

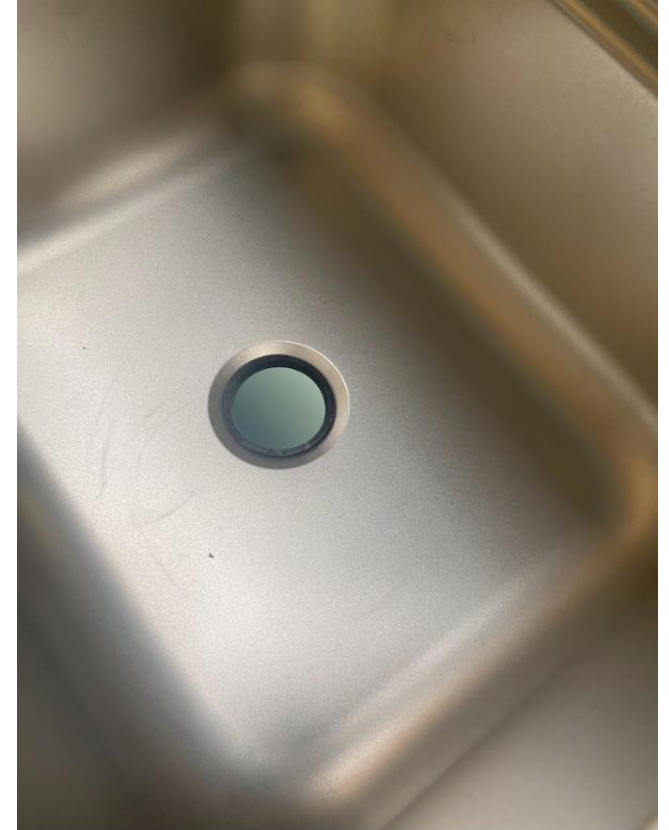
SINK/ GRILL COMBO



Screw into the template using the screws provided with the appliance



Fit the black screw caps

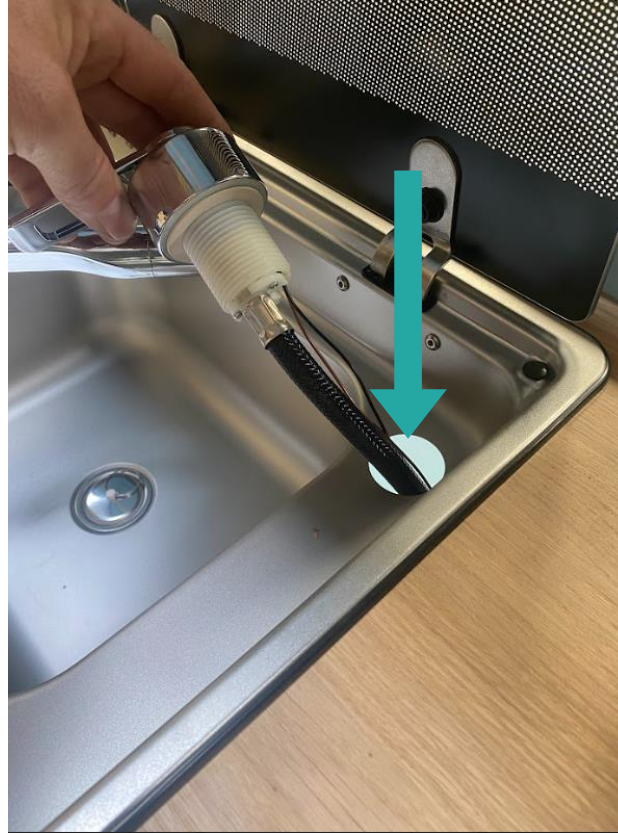


Fit the plug rubber seal

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

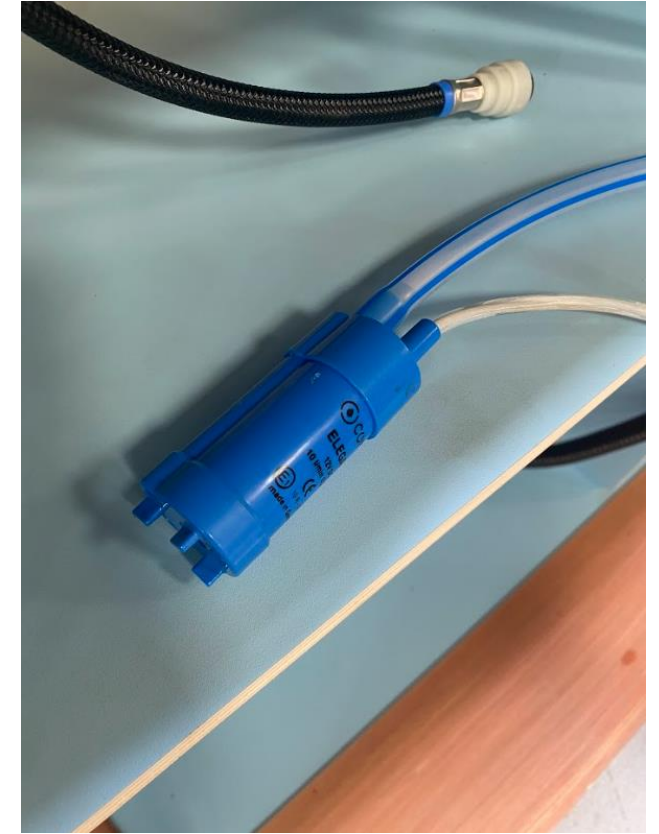
SINK/ GRILL COMBO



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

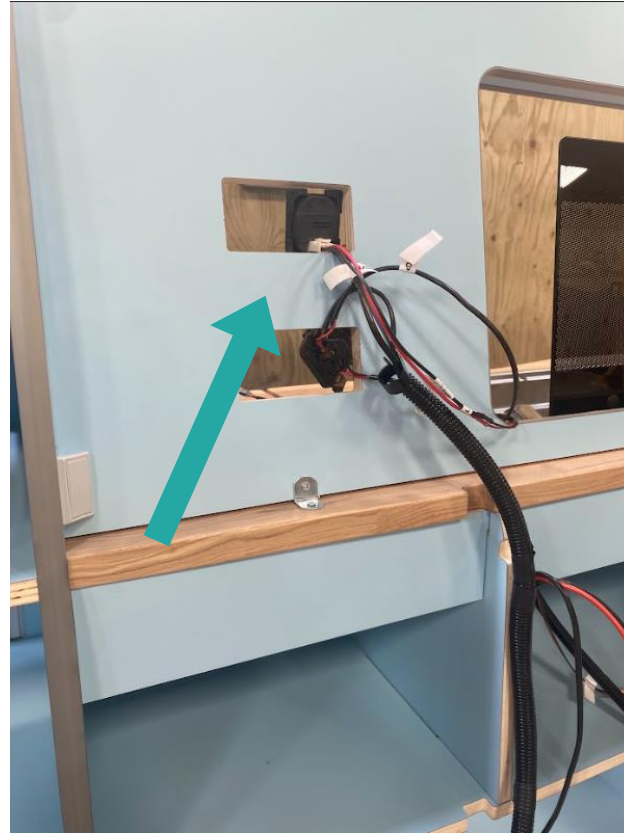
STOP & READ

Always use 15mm screws unless stated otherwise, failure to do so will result in screwing through the furniture board

FUSE BOARD AND MAIN LOOM



Screw the fuse board into place using the pilot holes provided

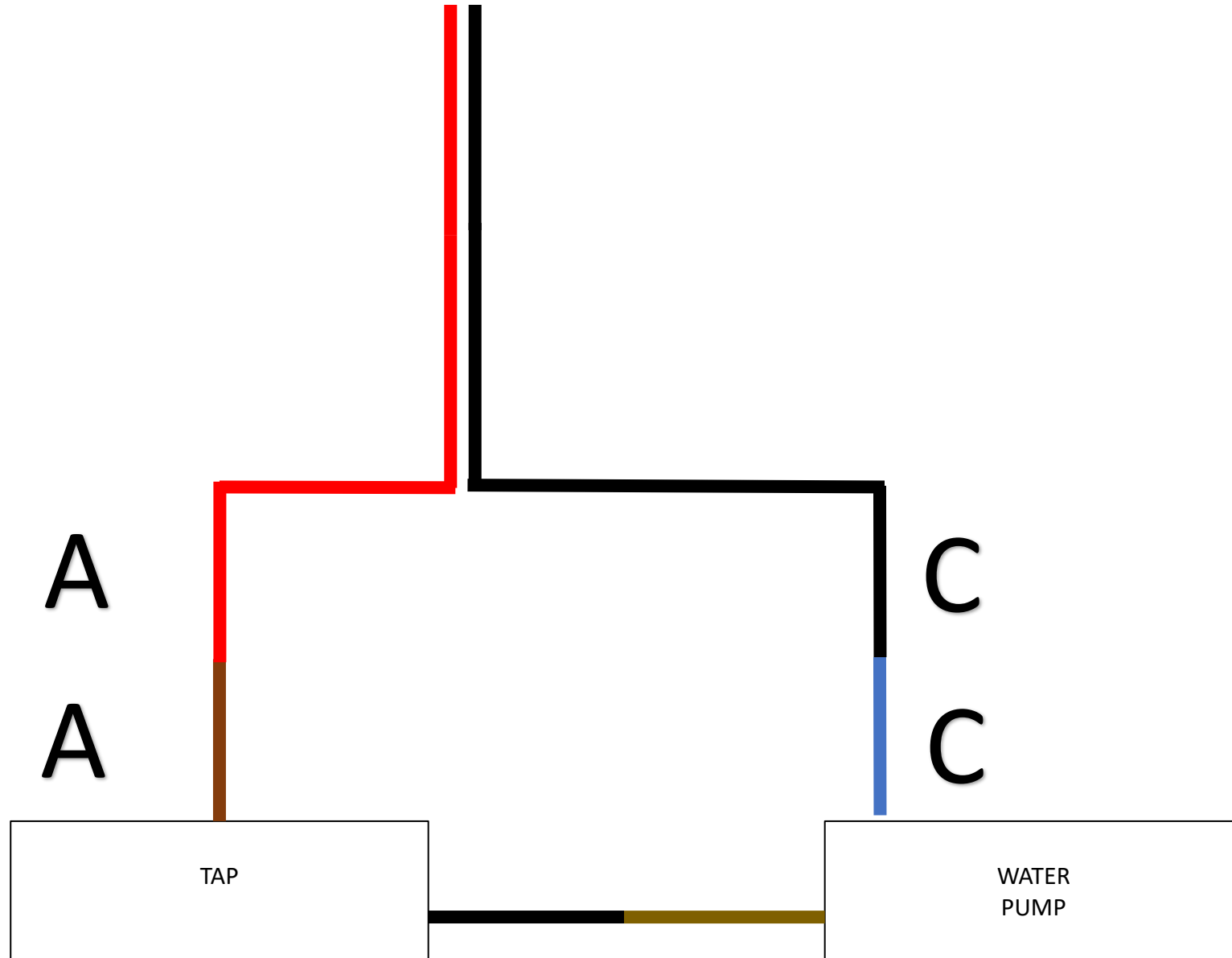


Feed the control switches through the C-line cut outs



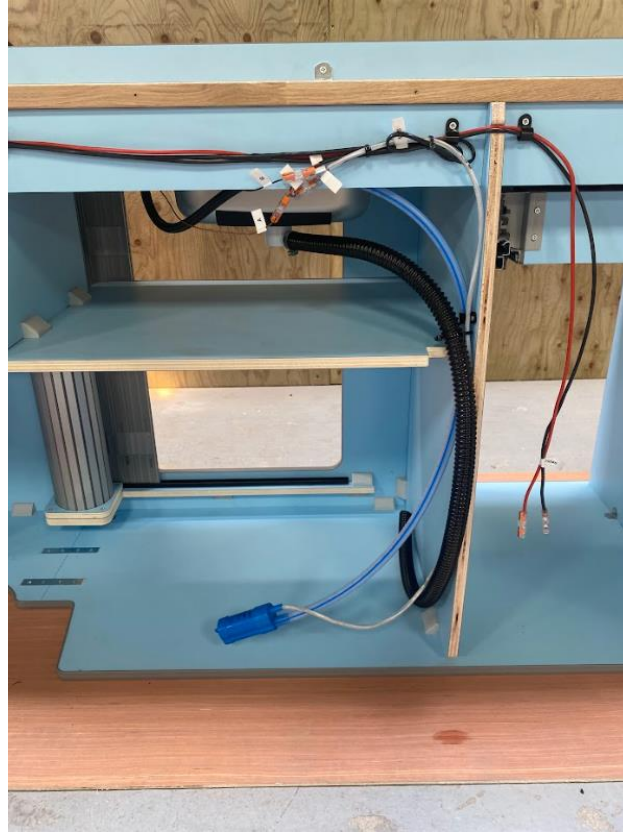
Using the cut outs in the furniture, run the fridge and tap cables into place and p clip into position

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

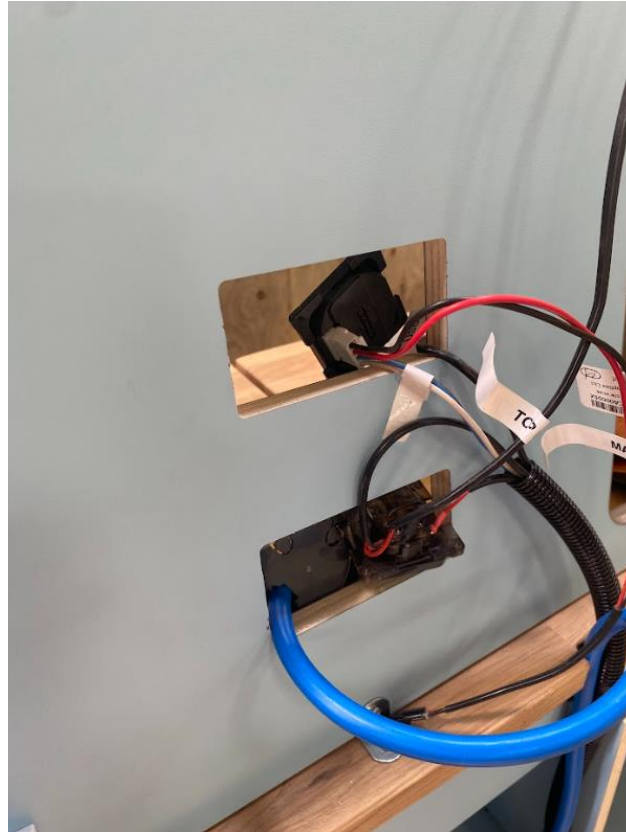


Finally refit both faces

C-LINE CONTROL PANEL



Remove the back cover of the 240 C-line socket



Now feed all controls through the C-line cut outs



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

C-LINE CONTROL PANEL



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

CTEK/ BATTERY CHARGER AND TRAY



Screw the CTEK split charge into position



Screw the smart charger into position and connect



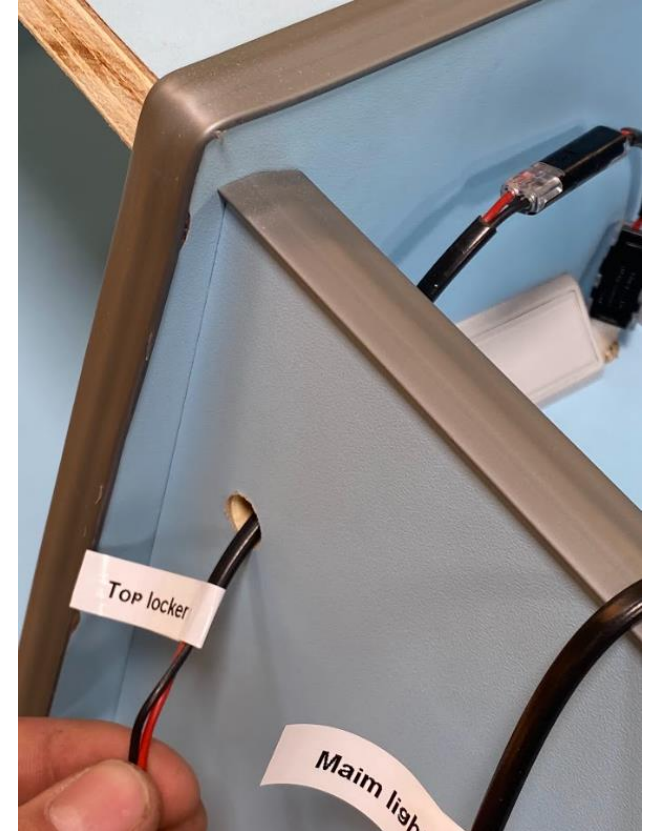
Before fitting the battery tray remember to feed the strap underneath



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



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



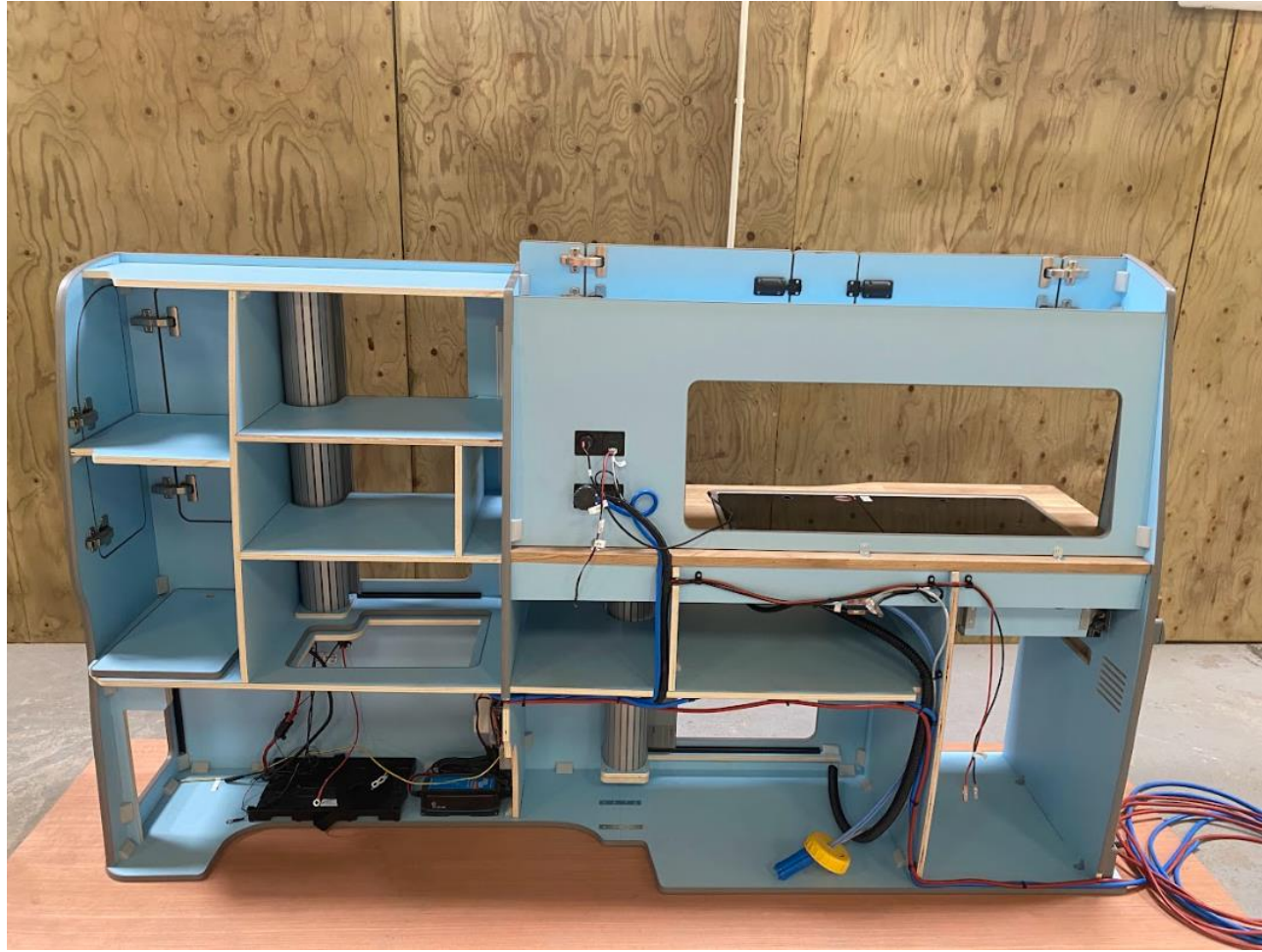
Feed the top locker LED through the splashback hole and connect to the Qijie joiner, ensure the fit is correct

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.

P-CLIP CABLE TIDY





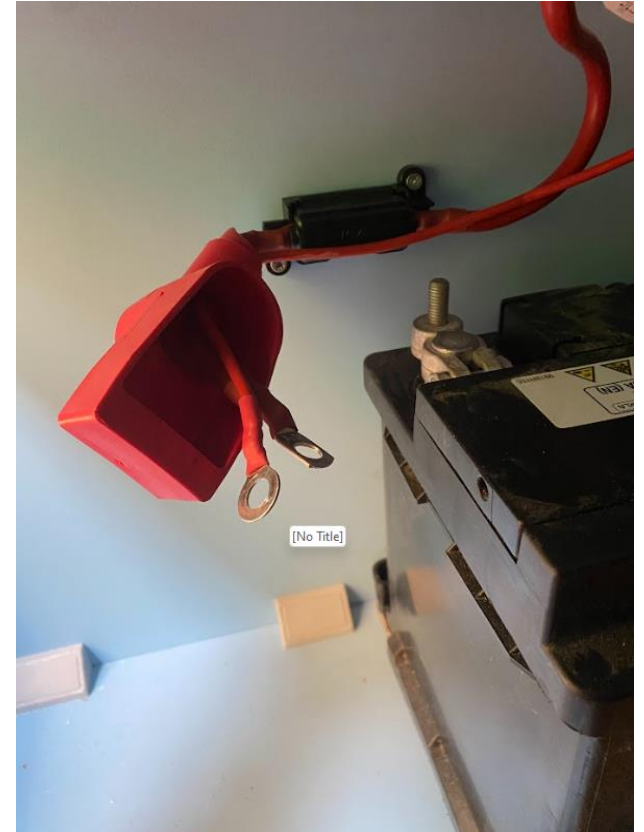
CONNECTING THE LEISURE BATTERY



Attach the battery terminals

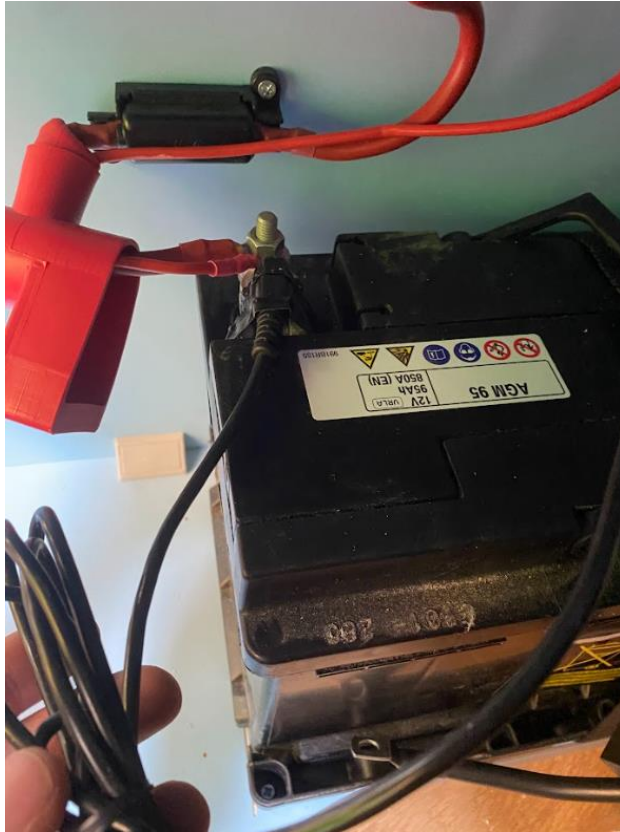


Fit the battery to the stary and
secure with the strap



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

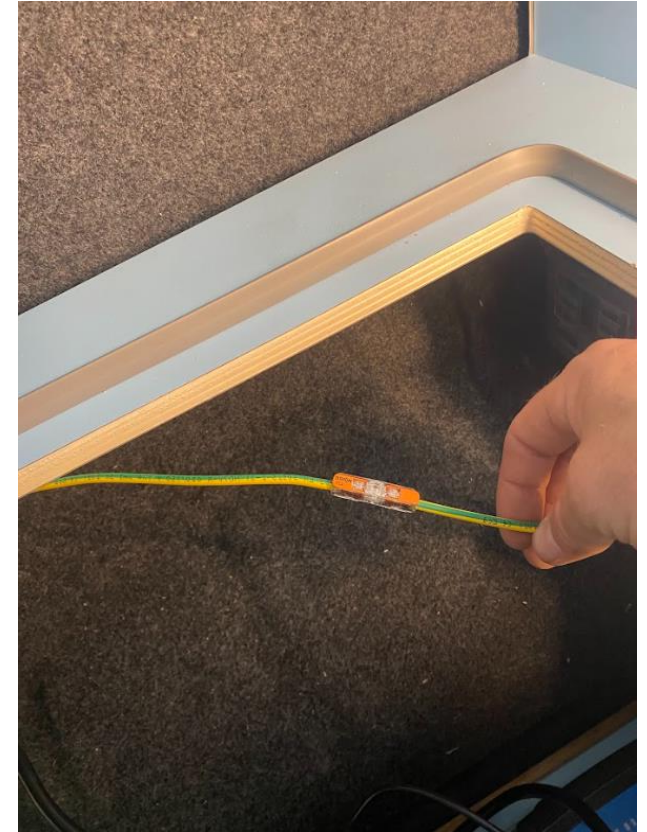
CONNECTING THE LEISURE BATTERY



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

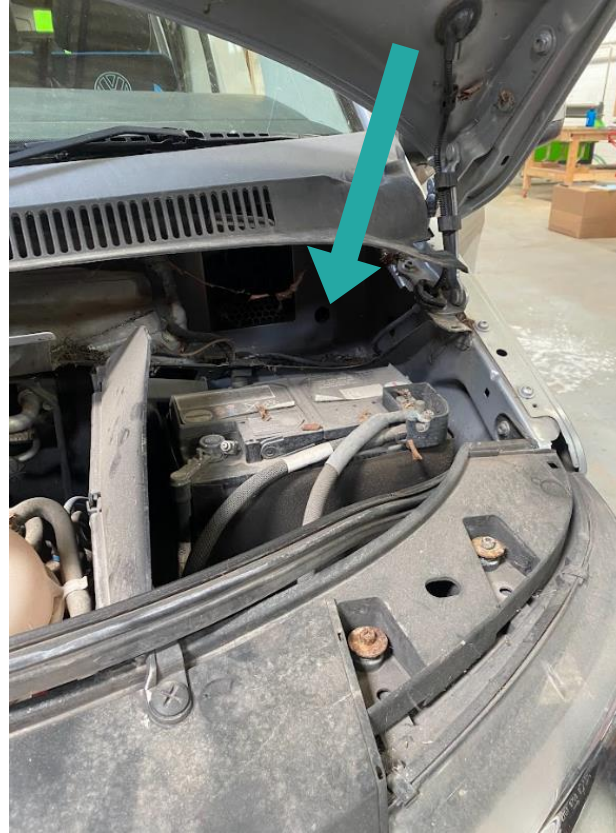


Offer the units into position but do not fit into place

CONNECTING TO THE VEHICLE BATTERY



Firstly, remove the cover above the vehicle battery



Locate the firewall hole



Fit a 25mm rubber grommet

CONNECTING TO THE VEHICLE BATTERY



Cut and fit a rubber grommet to the cover above the battery



Remove the lower panel below the NS glovebox



Feed some guide wire through the hole to establish the path, we have used some old BT cable in the picture

SMART ALTERNATOR

From 2015 the Later T5 BlueMotion and T6 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 follow the path of both the red vehicle battery cable and artic blue 240 cable until slide 115 where you can plug into the fuse board. If you are unsure if you have a smart alternator please see link below

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

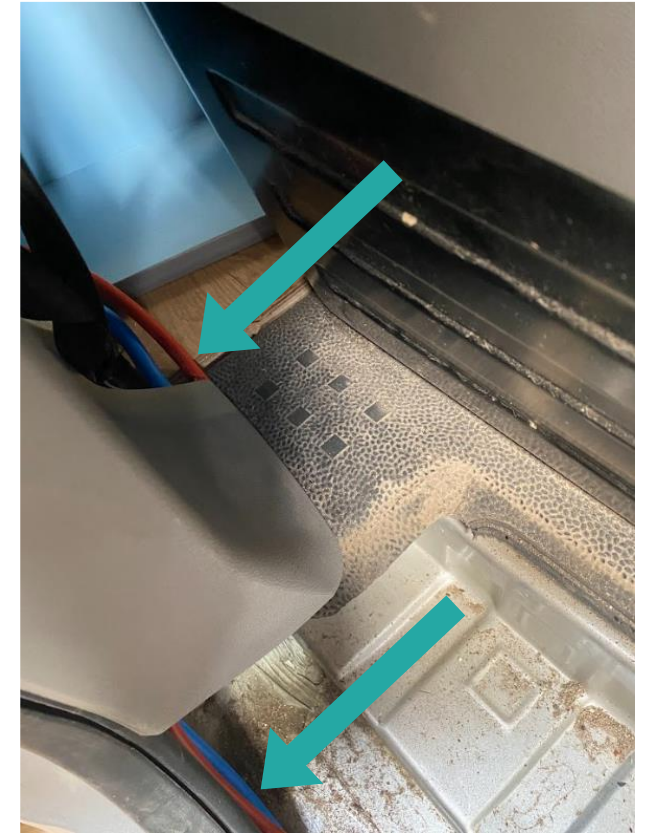
CONNECTING TO THE VEHICLE BATTERY



Remove the lower panel on the
drivers side



Remove the drivers sidestep



Cable tie the two cables and
feed underneath the pillar trim
into the sidestep

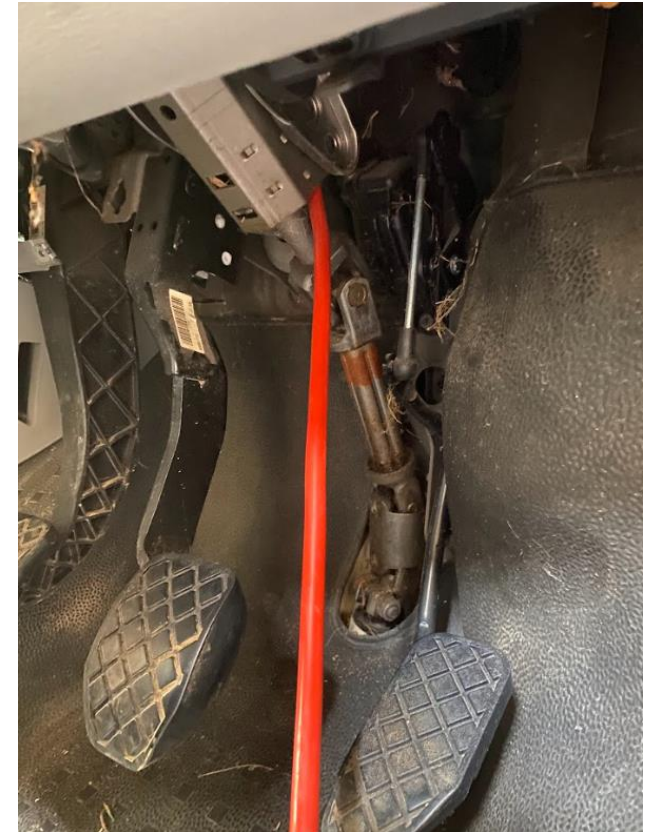
CONNECTING TO THE VEHICLE BATTERY



Continue to feed the cables
along the sidestep



Tape the end of the blue
approximately 2m from
the red end



Feed the red end over and
behind the pedals and through
the centre console

SMART ALTERNATOR



Remove the 15amp fuse from the centre column second down



Insert the 15amp fuse into the piggyback and fit in the same location

SMART ALTERNATOR

The previous slide determines your switch/ ignition live fuse (in most cases) however some fuse boxes can slightly differ.

If your leisure battery is not charging when the engine is on, you may not be piggybacked to a correct switch/ ignition fuse. Please see video link below for more helpful info

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

CONNECTING TO THE VEHICLE BATTERY



Now pull both cables through to the passenger footwell, this stage requires patience!



Attach the cables to the guide wire and pull through the firewall hole



Pull both through then remove the guide wire and tape

Before proceeding to connect to the vehicle battery and fitting the 240 hook up, ensure you have stowed away both cables correctly and safely. This is imperative near the pedals, make sure you have cable tied them together; above the pedals as high as possible to one of the pre-existing vehicle looms, safely out the way and *not* impeding any pedal motion. You can now refit the sidestep, rubber trims and panels

CONNECTING TO THE VEHICLE BATTERY

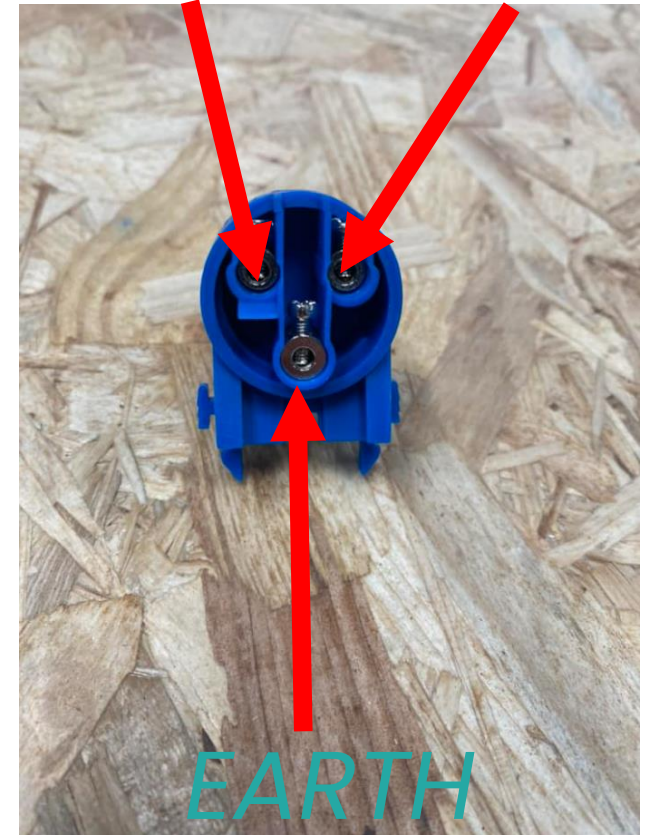
LIVE NEUTRAL



Locate the finish position
of both cables and cut
any excess



Wire the 3 core artic 240
cable to the hook up



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

CONNECTING TO THE VEHICLE BATTERY



Fit the 240 hook up and screw into position

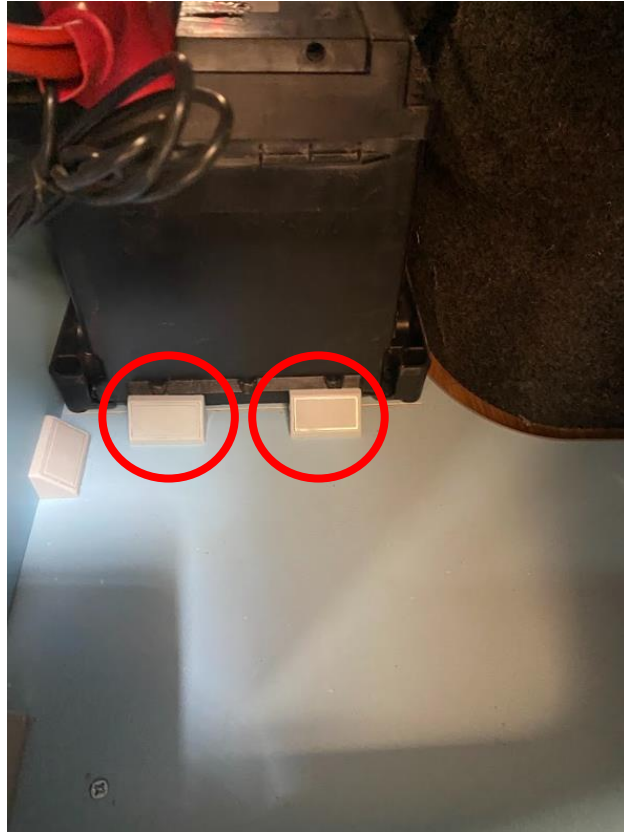


Connect the red split charge cable stud to the vehicle battery live

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



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

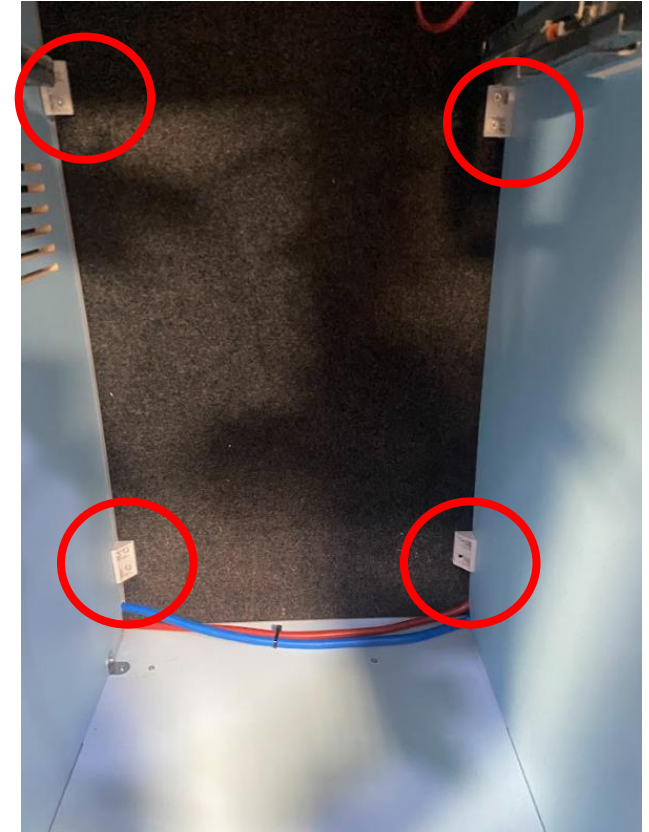
FITTING THE UNITS



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.

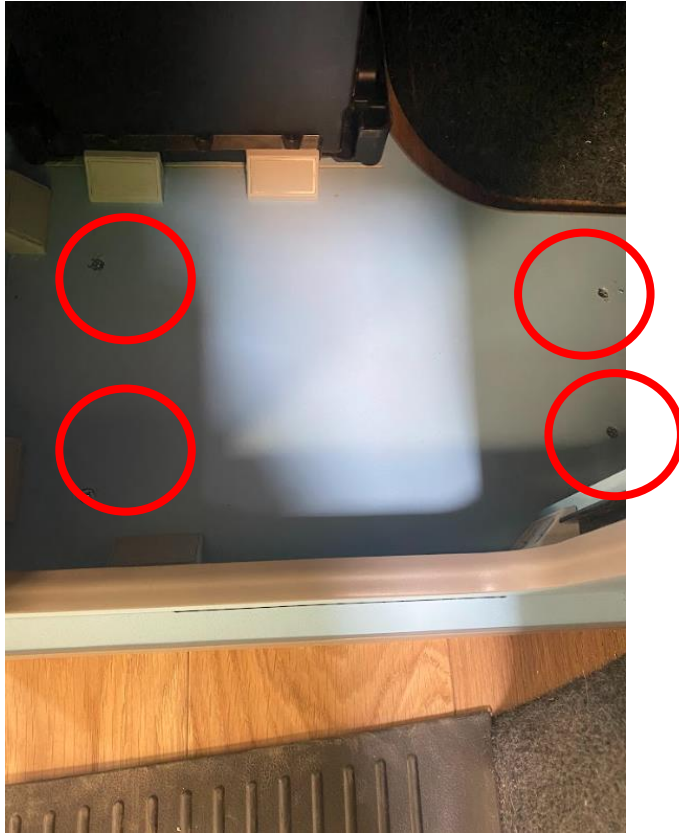


Ensure the units are pushed back and as flush as possible. Key tip, attach the block to the unit first, then into the ply



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

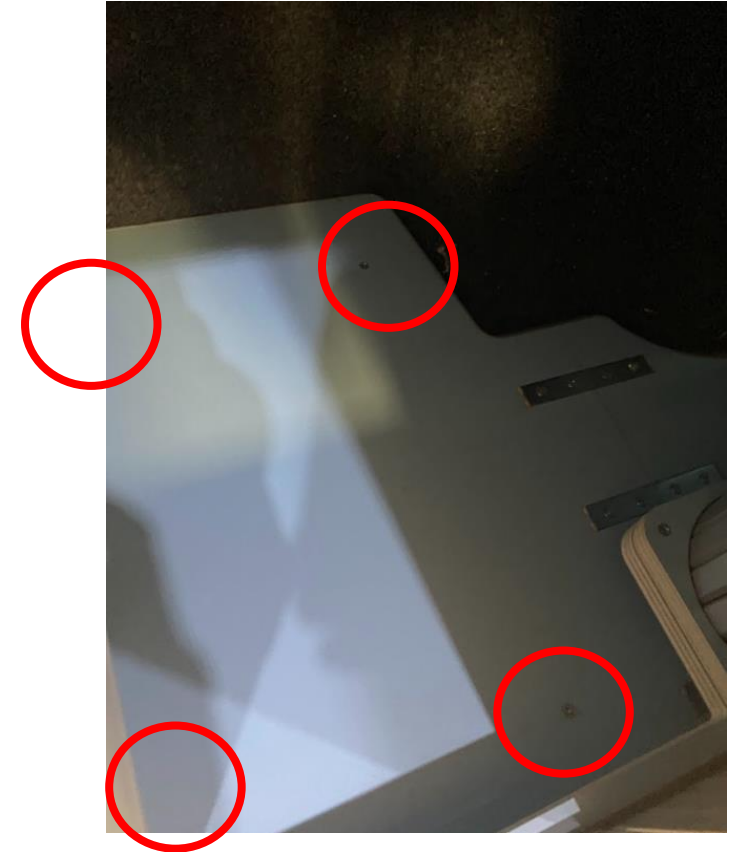
FITTING THE UNITS



Now screw into the floor using 25mm screws.

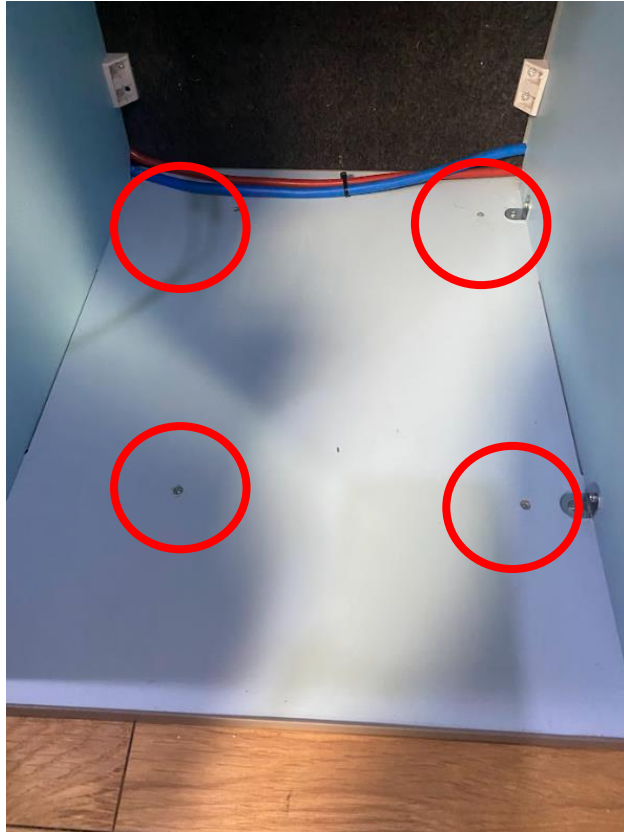


Remove the battery access flap in the rear wardrobe to locate the two pilot holes, be mindful of the electrics, for slimline use the lower door built for this reason

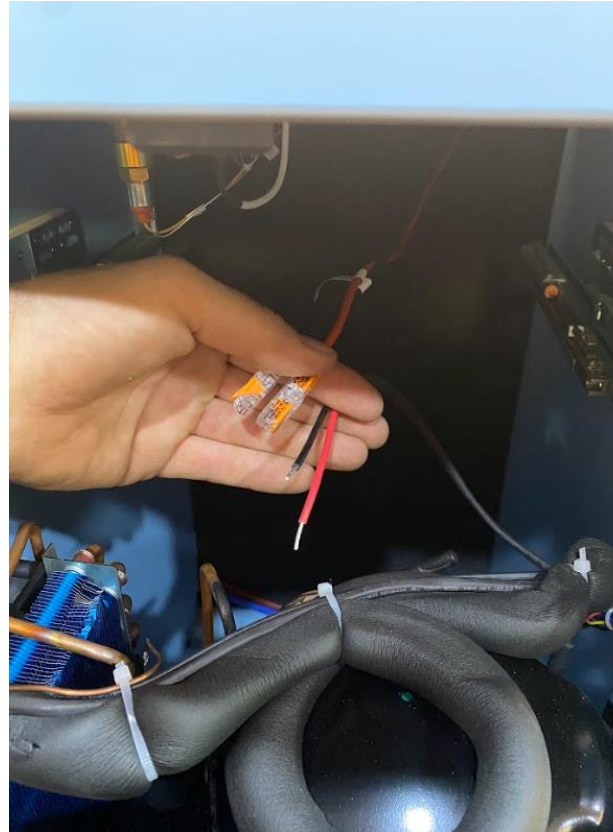


Continue in the main compartment.

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



Remove the fridge fixing point caps, screw through into the aperture, use 25 or 30mm screws, be mindful not to screw through the ply



COOLWHIP
CAMPER CONVERSIONS

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INFO

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