

Alu-CabTM

MAKE IT BETTER

FITMENT INSTRUCTIONS

ModCAP Base, Camper / Cabin & Tent Filler Kit

Installation Instructions

Installation and fitment instructions includes the tools required, fasteners included in the kit, and the hardware included in the kit.

Please follow the instructions and check installation steps with the images in this document.

Alu-Cab recommends that all sealing work is allowed to cure for 24 hours, after which you may drive the vehicle on normal paved roads. Before driving off-road with your Alu-Cab product or operating your roof conversion, an additional cure period of 48 hours is required.

Failure to follow these instructions will void your warranty. Please ensure that you follow the sealant manufacturers curing time as per their technical data sheet.

These times may differ slightly from the times we have recommended.

Service Enquiries email
queries@alu-cab.com

Installation Instructions

1

ModCAP Canopy Camper Fitment

How to use this guide

The following guide uses the **CC2-BO-DC** Camper to demonstrate fitment.

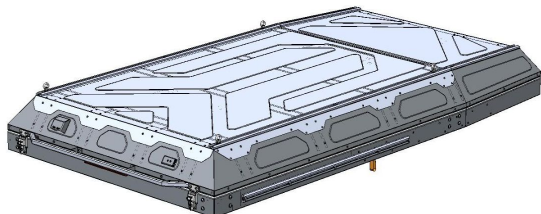
This guide can also be used for the following:

1. CC2-BO-FSL
2. CC2-BO-FSS
3. CC2-BO-XC
4. CC2-BO-LCD

There are **3** main items required for this guide:

A

CC2-BO-TENT



B

CC2-A-BO-DC-TFM

OR

CC2-A-BO-FSL-TFM

OR

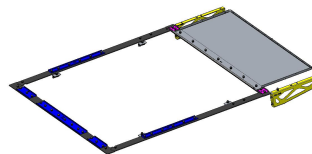
CC2-A-BO-FSS-TFM

OR

CC2-A-BO-XC-TFM

OR

CC2-A-BO-LCD-TFM



C

CC2-BO-DC-BASE

OR

CC2-BO-FSL-BASE

OR

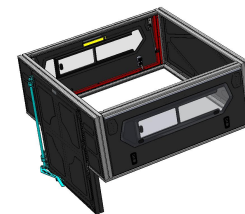
CC2-BO-FSS-BASE

OR

CC2-BO-XC-BASE

Or

CC2-BO-LC-BASE



Installation Instructions

ModCAP Canopy 2 Sleeper Camper Fitment

Tools & Items Required

1.1

10mm Ring Spanner/Socket

13mm Ring Spanner/Socket

5mm Allen Key

Items

1.2

Turpentine

Cloth

Black sealant, silicone or Sikaflex

Window Cleaner

1.3

Fasteners Supplied (DC TFM)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	FFW-M8-X	M8x25mm OVERSIZED WASHER S/S - DIN 9021	4
2	HEX-M8x20	M8x20 HEX BOLT S/S	8
3	HEX-M8x25	M8x25 HEX BOLT S/S	49
4	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	16
5	NY-M8	M8 NYLOC NUT S/S	63
6	NCAP-M8	NUT CAP-08mm	67
7	FW-M8	M8x16mm FLAT WASHER S/S - DIN 125	57
8	BHD-M8x20	M8x20 B/HD BOLT S/S	6
9	RIV-4815ASS	SEALED BLIND RIVET	21
10	NUT-M8	M8 HEX NUT S/S	6
11	SW-M8	M8 SPRING WASHER S/S	4
12	BHD-M8x16	M8x16 B/HD BOLT S/S	4

Installation Instructions

ModCAP Canopy 2 Sleeper Camper Fitment

Fasteners Supplied (FSL TFM)

1.4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	FFW-M8-X	M8x25mm OVERSIZED WASHER S/S - DIN 9021	6
2	HEX-M8x20	M8x20 HEX BOLT S/S	12
3	HEX-M8x25	M8x25 HEX BOLT S/S	55
4	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	18
5	NY-M8	M8 NYLOC NUT S/S	67
6	NCAP-M8	NUT CAP-08mm	73
7	FW-M8	M8x16mm FLAT WASHER S/S - DIN 125	49
8	RIV-4815ASS	SEALED BLIND RIVET	13

Fasteners Supplied (FSS TFM)

1.5

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	FFW-M8-X	M8x25mm OVERSIZED WASHER S/S - DIN 9021	6
2	HEX-M8x20	M8x20 HEX BOLT S/S	12
3	HEX-M8x25	M8x25 HEX BOLT S/S	53
4	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	26
5	NY-M8	M8 NYLOC NUT S/S	69
6	NCAP-M8	NUT CAP-08mm	79
7	BHD-M8x16	M8x16 B/HD BOLT S/S	4
8	SW-M8	M8 SPRING WASHER S/S	4
9	FW-M8	M8x16mm FLAT WASHER S/S - DIN 125	51
10	NUT-M8	M8 HEX NUT S/S	4
11	BHD-M8x20	M8x20 B/HD BOLT S/S	4
12	RIV-4815ASS	SEALED BLIND RIVET	17

1.6

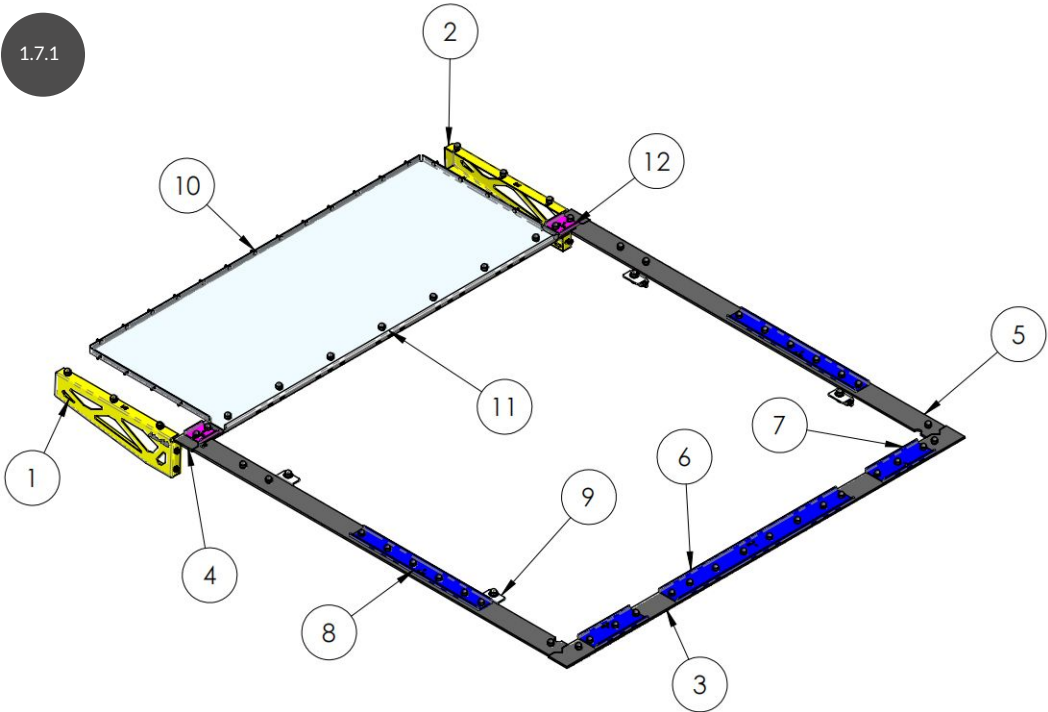
Fasteners Supplied (XC TFM)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	HEX-M8x25	M8x25 HEX BOLT S/S	55
2	FW-M8	M8x16mm FLAT WASHER S/S - DIN 125	49
3	NY-M8	M8 NYLOC NUT S/S	67
4	NCAP-M8	NUT CAP-08mm	73
5	FFW-M8-X	M8x25mm OVERSIZED WASHER S/S - DIN 9021	6
6	HEX-M8x20	M8x20 HEX BOLT S/S	12
7	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	18
8	RIV-4815ASS	SEALED BLIND RIVET	15

Installation Instructions

ModCAP Canopy 2 Sleeper Camper Fitment

DC TFM



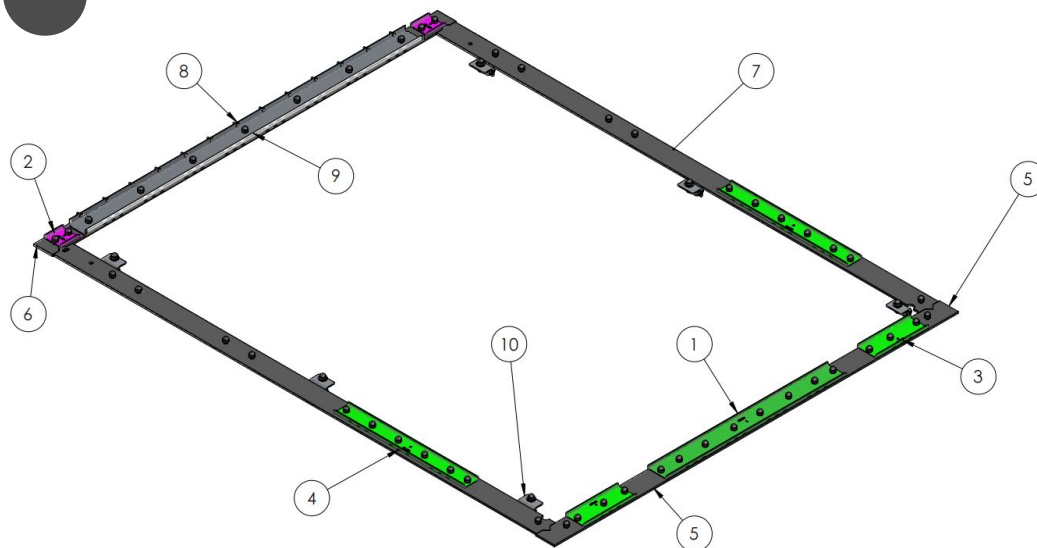
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	162-DC-REIN-BRKT-01	REINFORCEMENT BRACKET	1
2	162-DC-REIN-BRKT-02	REINFORCEMENT BRACKET	1
3	CC-BO-BASE-R001	CC BO REAR RUBBER SEAL	1
4	CC-BO-BASE-R002	CC BO FRONT RUBBER SEAL	1
5	CC-BO-BASE-DC-R003	CC BO DC SIDE RUBBER SEAL	2
6	CC-BO-BASE-P001	CC BO REAR CLAMP PLATE 01	1
7	CC-BO-BASE-P005	CC BO CLAMP PLATE 05	2
8	CC-BO-BASE-P006	CC BO SIDE CLAMP PLATE 06	2
9	CC-BO-BASE-P007	CC BO CENTRE MOUNTING ANGLE	4
10	CC2-BO-DC-TENT-FLR-P001	CC2 BO DC TENT FILLER PANEL	1
11	CC-BO-RUB-P-1277mm	RUB-P - 1277mm	1
12	CC-BO-BASE-P003	CC BO CLAMP PLATE 03	2

Installation Instructions

ModCAP Canopy 2 Sleeper Camper Fitment

FSL TFM

1.7.2



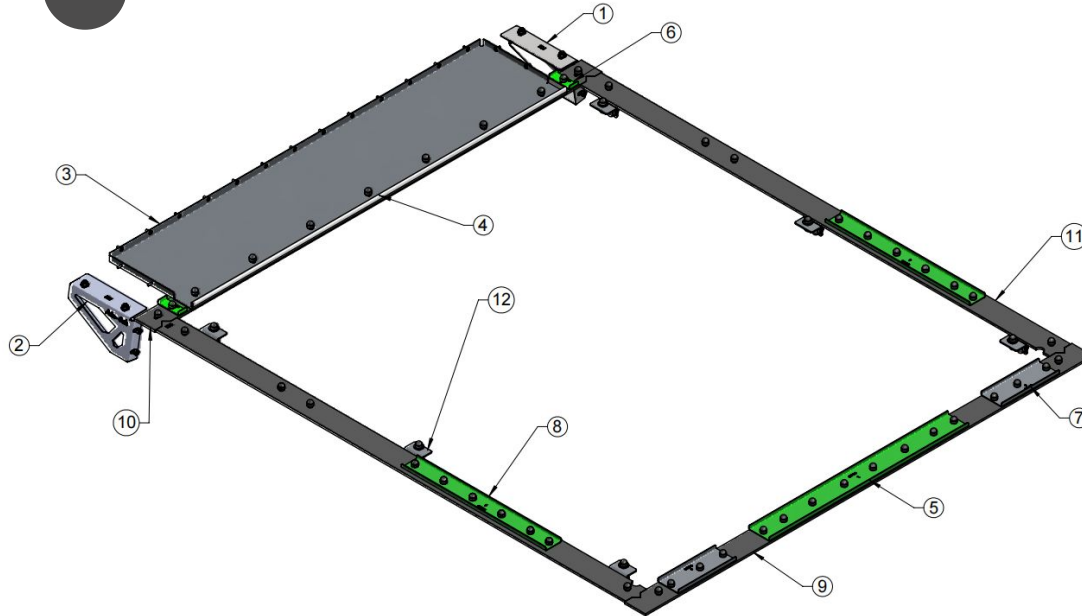
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	CC-BO-BASE-P001	CC BO REAR CLAMP PLATE 01	1
2	CC-BO-BASE-P003	CC BO CLAMP PLATE 03	2
3	CC-BO-BASE-P005	CC BO CLAMP PLATE 05	2
4	CC-BO-BASE-P006	CC BO SIDE CLAMP PLATE 06	2
5	CC-BO-BASE-R001	CC BO REAR RUBBER SEAL	1
6	CC-BO-BASE-R002	CC BO FRONT RUBBER SEAL	1
7	CC-BO-BASE-FSL-R003	CC BO SIDE RUBBER SEAL	2
8	CC2-BO-FSL-TENT-FLR-P001	CC2 BO FSL TENT FILLER	1
9	CC-BO-RUB-P-1287 mm	RUB-P - 1277mm	1
10	CC-BO-BASE-P007	CC BO CENTRE MOUNTING ANGLE	6

Installation Instructions

ModCAP Canopy 2 Sleeper Camper Fitment

FSS TFM

1.7.3



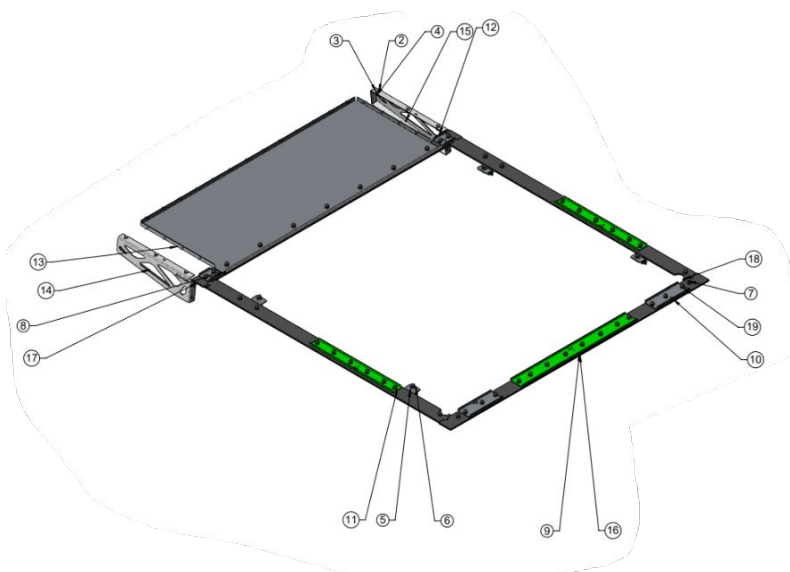
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	165-55-FS-REIN-BRKT-RH-01	REINFORCEMENT BRACKET RH	1
2	165-55-FS-REIN-BRKT-LH-01	REINFORCEMENT BRACKET LH	1
3	CC2-BO-FSS-TENT-FLR-P001	CC2 BO FSS TENT FILLER	1
4	CC2-BO-FSS-BASE-RUB-P - (1295mm)	PINCHWELD RUBBER	1
5	CC-BO-BASE-P001	CC BO REAR CLAMP PLATE 01	1
6	CC-BO-BASE-P004	CC BO CLAMP PLATE 04	2
7	CC-BO-BASE-P005	CC BO CLAMP PLATE 05	2
8	CC-BO-BASE-P006	CC BO SIDE CLAMP PLATE 06	2
9	CC-BO-BASE-R001	CC BO REAR RUBBER SEAL	1
10	CC-BO-BASE-R002	CC BO FRONT RUBBER SEAL	1
11	CC-BO-BASE-FSS-R003	CC BO SIDE RUBBER SEAL	2
12	CC-BO-BASE-P007	CC BO CENTRE MOUNTING ANGLE	6

Installation Instructions

ModCAP Canopy 2 Sleeper Camper Fitment

LCD TFM

1.7.3



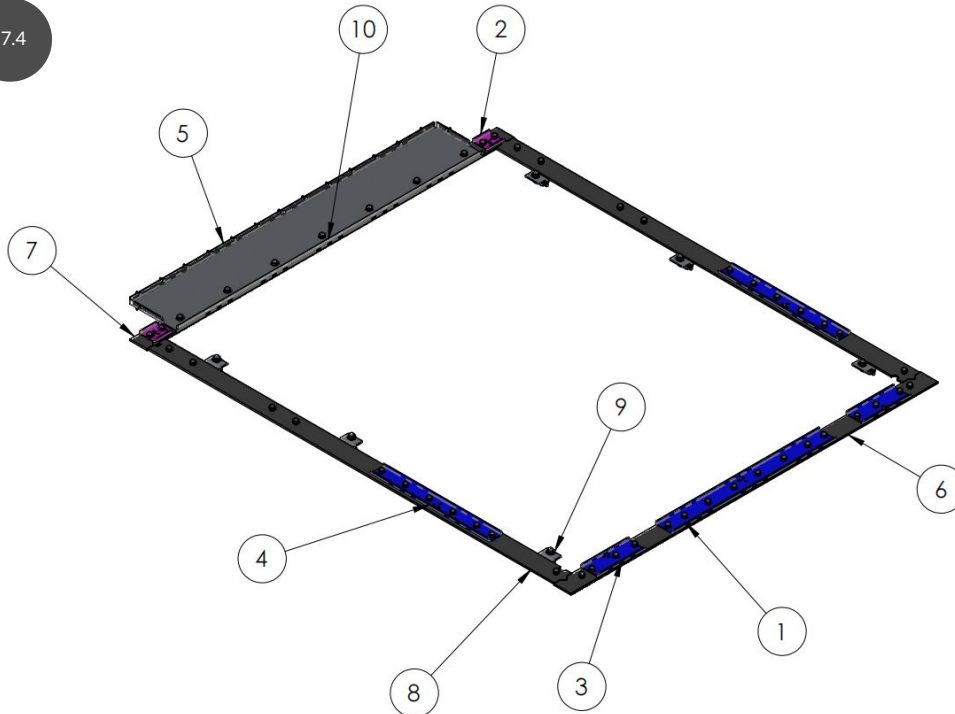
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	NY-M8	M8 NYLOC NUT S/S	67
2	HEX-M8x20	M8x20 HEX BOLT S/S	18
3	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	22
4	NCAP-M8	NUT CAP-08mm	71
5	CC-BO-BASE-P007	CC BO CENTRE MOUNTING ANGLE	4
6	FFW-M8-X	M8x25mm OVERSIZED WASHER S/S - DIN 9021	4
7	HEX-M8x25	M8x25 HEX BOLT S/S	49
8	CC-BO-FSL-RUB-P-1297mm	RUB-P - 1297mm	1
9	CC-BO-BASE-P001	CC BO REAR CLAMP PLATE 01	1
10	CC-BO-BASE-P005	CC BO CLAMP PLATE 05	2
11	CC-BO-BASE-P006	CC BO SIDE CLAMP PLATE 06	2
12	CC-BO-BASE-P003	CC BO CLAMP PLATE 03	2
13	CC2-BO-LCD-TENT-FLR-P001	CC2 BO LCD TENT FILLER PANEL	1
14	163-TLC-REIN-BRKT-LH-01	CC LCD REIN BRACKET LHS	1
15	163-TLC-REIN-BRKT-RH-01	CC LCD REIN BRACKET RHS	1
16	CC-BO-BASE-R001	CC BO REAR RUBBER SEAL	1
17	CC-BO-BASE-R002	CC BO FRONT RUBBER SEAL	1
18	CC-BO-BASE-LCD-R003	CC-BO-BASE-LCD-SIDE-RUB	2
19	FW-M8	M8x16mm FLAT WASHER S/S - DIN 125	45
20	RIV-4815ASS	SEALED BLIND RIVET	21
21	BX-TFM-1	BOLT-ON TENT FILLER AND MOUNT - FIT DC & LCD - BOX - 545 X110 X 1315	1

Installation Instructions

ModCAP Canopy 2 Sleeper Camper Fitment

XC TFM

1.7.4



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	CC-BO-BASE-P001	CC BO REAR CLAMP PLATE 01	1
2	CC-BO-BASE-P003	CC BO CLAMP PLATE 03	2
3	CC-BO-BASE-P005	CC BO CLAMP PLATE 05	2
4	CC-BO-BASE-P006	CC BO SIDE CLAMP PLATE 06	2
5	CC2-BO-XC-TENT-FLR-P001	CC2 BO XC TENT FILLER PANEL	1
6	CC-BO-BASE-R001	CC BO REAR RUBBER SEAL	1
7	CC-BO-BASE-R002	CC BO FRONT RUBBER SEAL	1
8	CC-BO-BASE-XC-R003	CC-BO-BASE-XC-R003	2
9	CC-BO-BASE-P007	CC BO CENTRE MOUNTING ANGLE	6
10	CC-BO-RUB-P-1277mm	RUB-P - 1277mm	1

Installation Instructions

2

Inspect Tent Filler Mounting (TFM):

Inspect TFM and supplied Rubber, ensure all rubbers are correct and match according to its colour code (See rubber matrix)

Rubber Matrix

CC BO DC SIDERUBBER SEAL

CC BO XC SIDE RUBBER SEAL

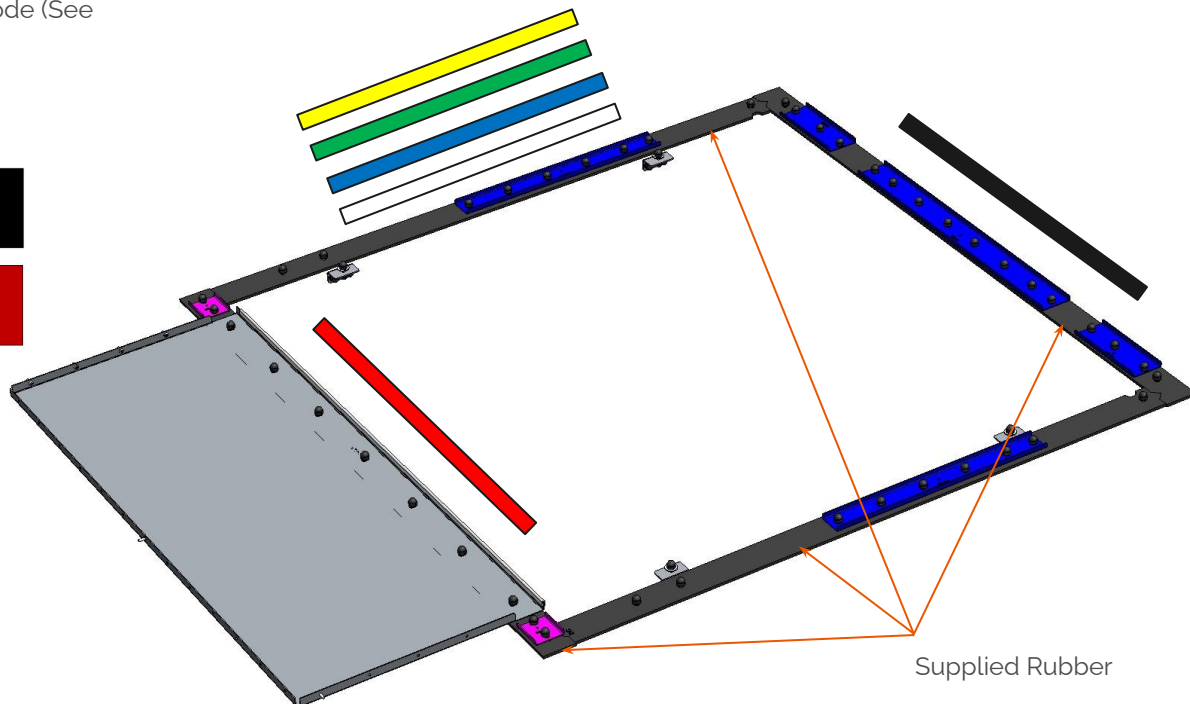
CC BO FSL SIDE RUBBER SEAL

CC BO FSS SIDE RUBBER SEAL

Universal front & rear rubbers

CC BO REAR RUBBER SEAL

CC BO FRONT RUBBER SEAL



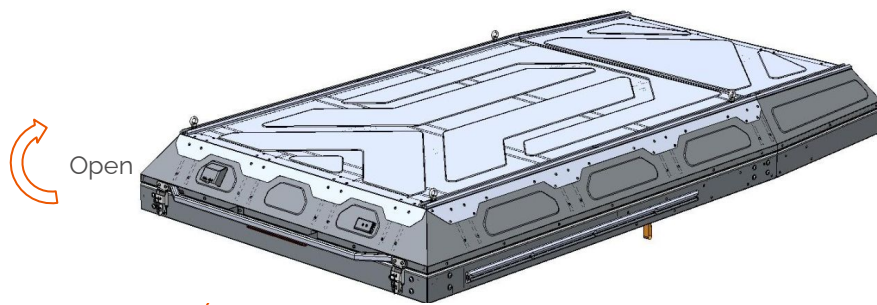
Supplied Rubber

Installation Instructions

3

Tent/TFM Positioning:

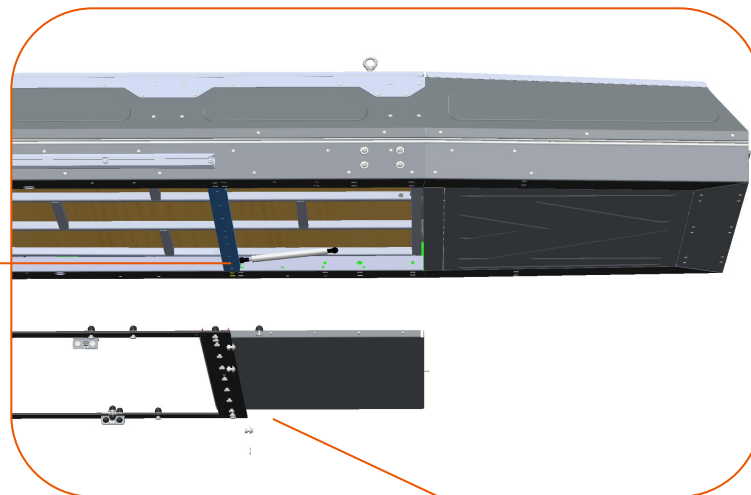
Open the tent and place it on it's base.



Tent (CC2-BO-TENT)

Support bar
(CC-BO-BASE-P002)

Move support bar (supplied with tent - see CC2-BO-TENT) to the correct position.



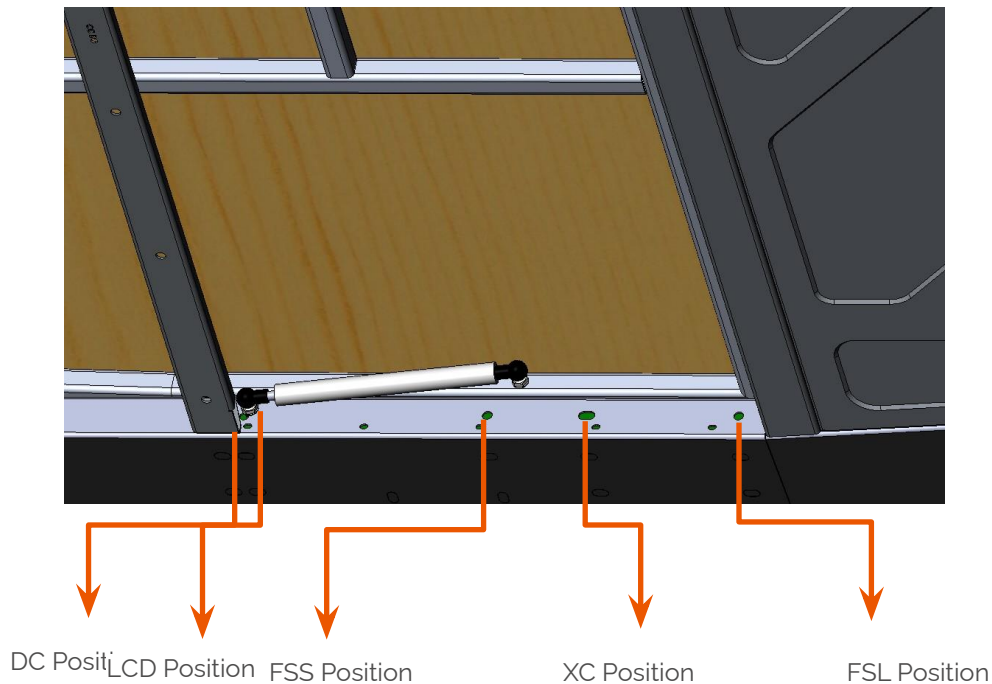
Support bar and **Tent Filler Panel** should align.

Installation Instructions

3.1

Tent/TFM Positioning (Support Bar):

Support bar specific positioning.



Installation Instructions

Tent/TFM Positioning (Support Bar): Land Cruiser Specific

3.2

Land Cruiser
Specific

DC/XC
FSL/FSS

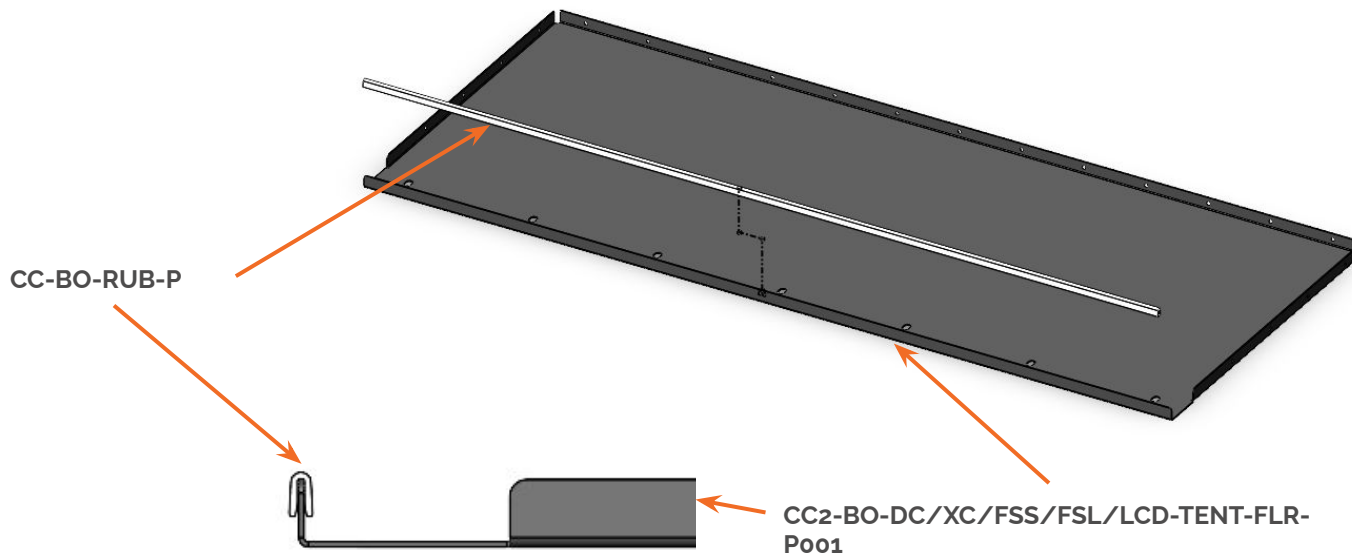
The orientation of the Support Bar is different for the LC, as indicated on these images.

Installation Instructions

4

TFM fitment:

Fit the supplied pinchweld (CC-BO-RUB-P) to the lip of
(CC2-BO-DC/XC/FSS/FSL/LCD -TENT-FLR-P001)



Installation Instructions

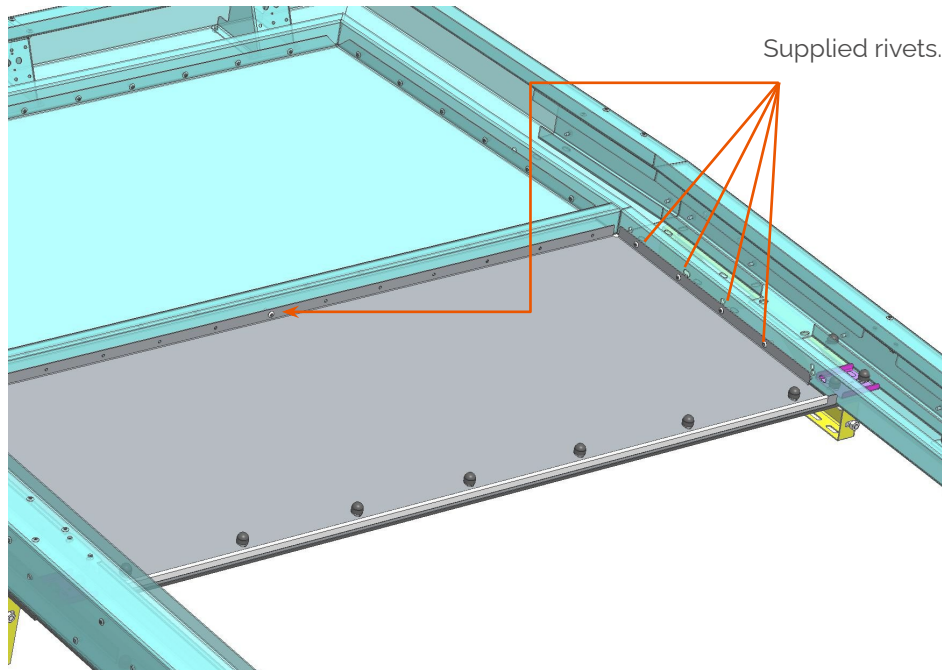
4

TFM fitment:

With pinchweld in place fit the **Tent filler panel** using the supplied sealed blind rivets (RIV-4815ASS)

Rivet QTY per TFM spec:

1. DC/LCD = x21
2. FSL = x13
3. FSS = x17
4. XC = x15

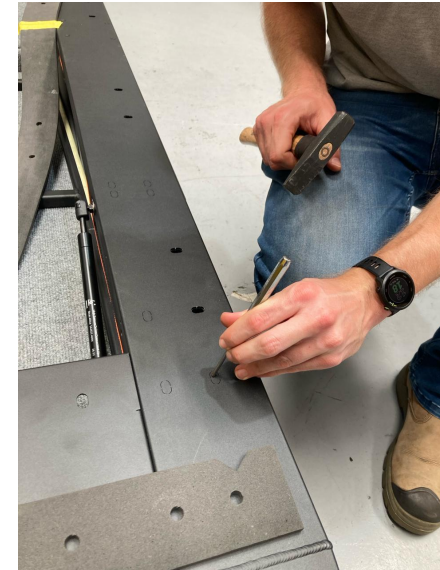
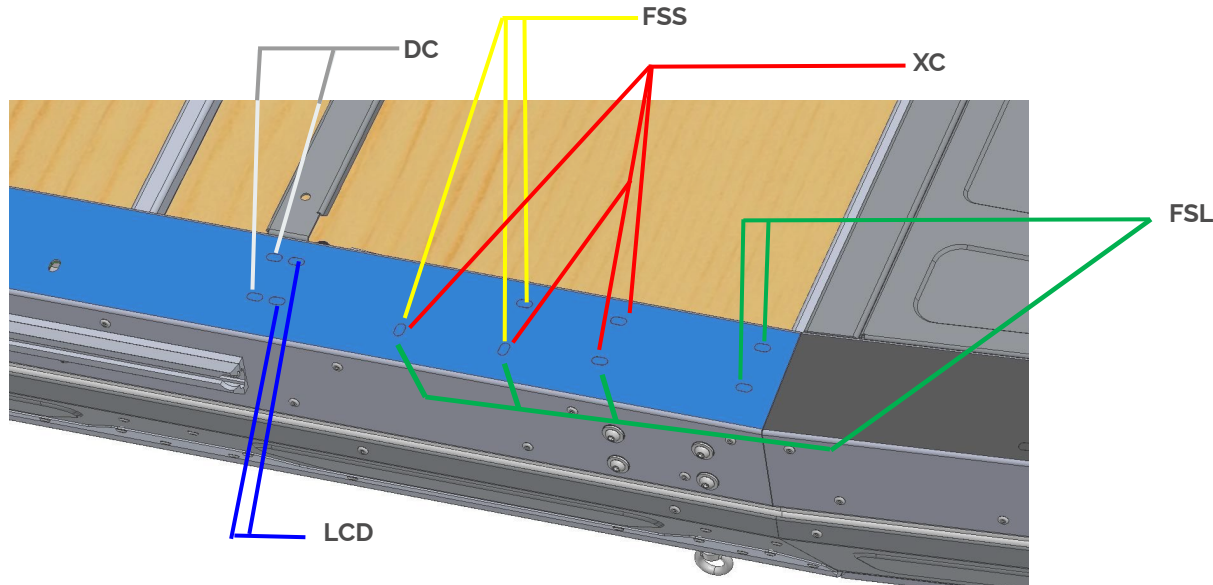


Installation Instructions

5

Base Preparation:

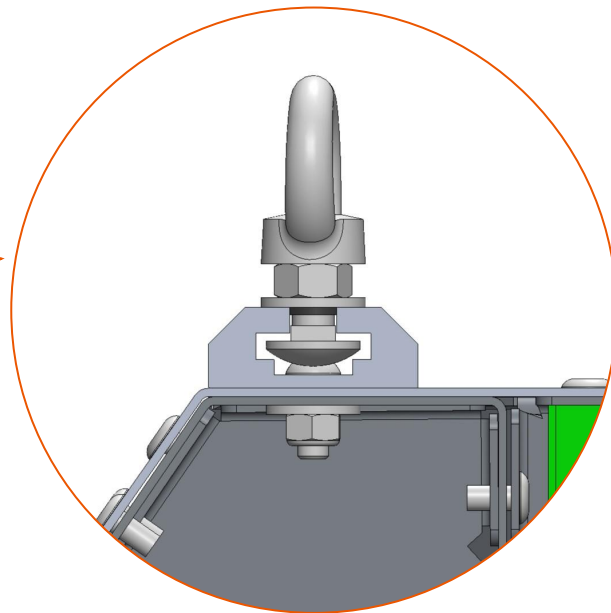
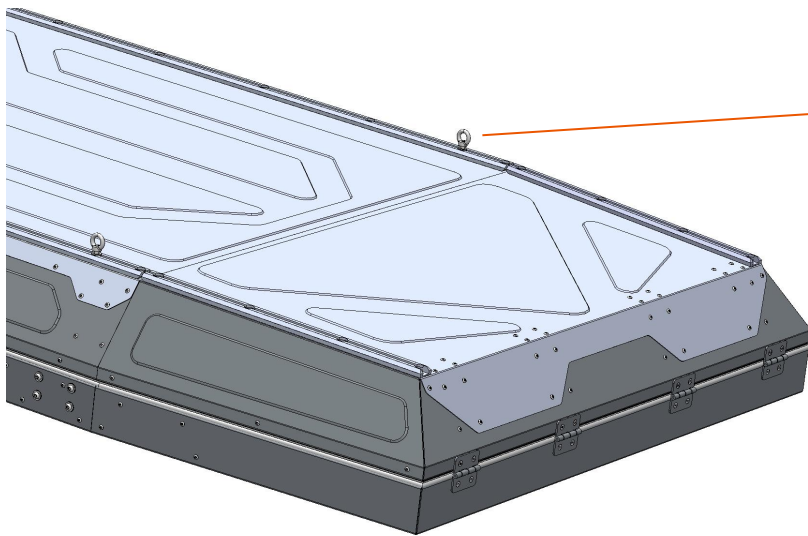
- 1) Flip the tent onto it's lid.
- 2) Lay the rubbers out and remove knockouts in the base as needed to match the supplied rubbers (the rubbers as part of the TFM being used).



6

Eye nuts and cup squares:

Flip the tent over and slide eye nuts, cup squares into cargo rails.

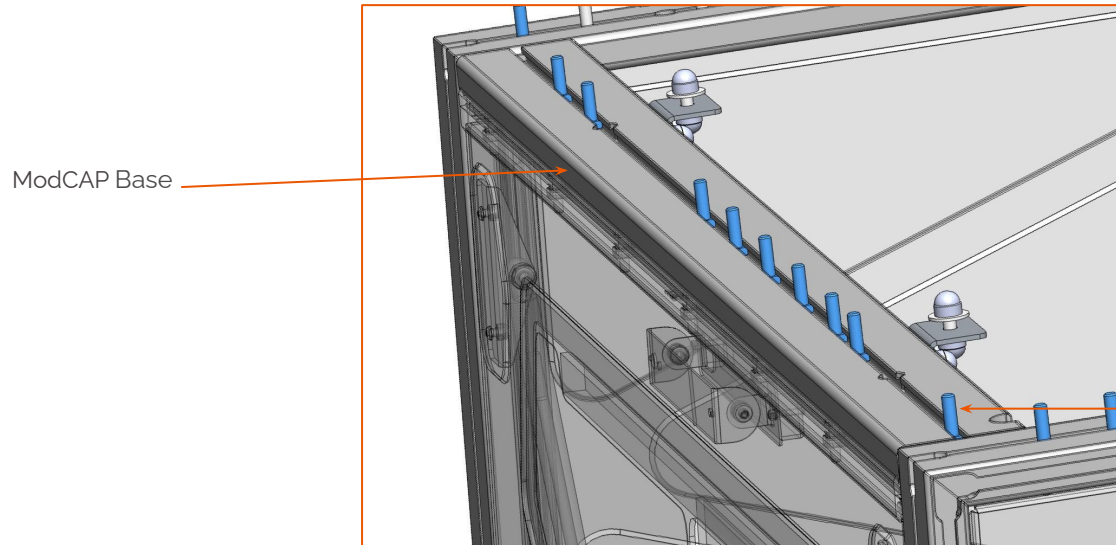


Installation Instructions

7

Base Preparation:

Prep the base by sliding bolts into the top nut slot of the load bar (Bolt amount is determined by cutouts in rubbers).



Bolts (HEX-M8x25)

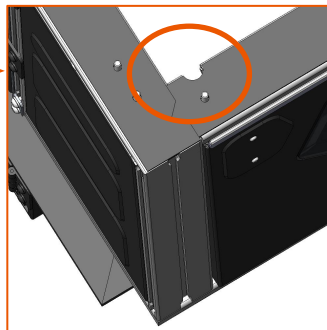
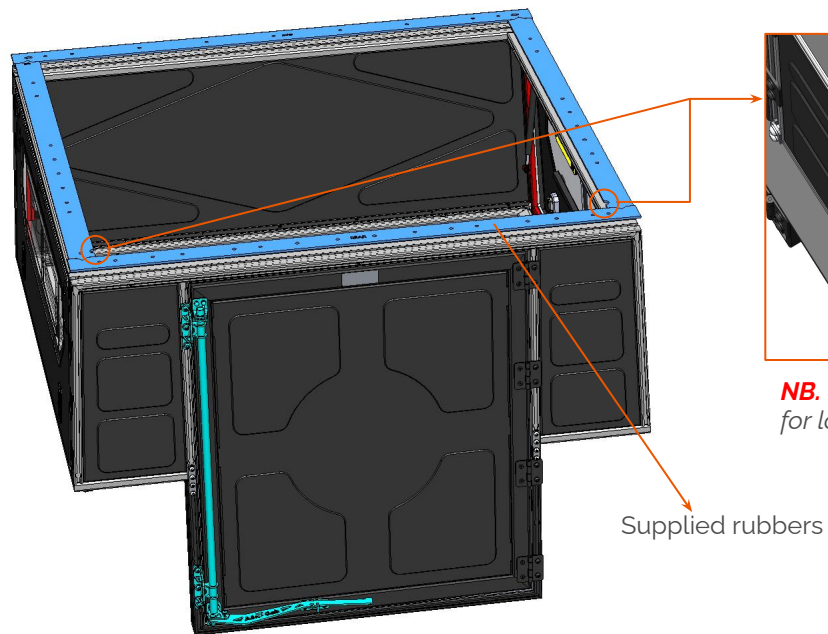
Bolts QTY required for loadbar per TFM spec:

1. **DC** = x45 (out of the x49 total)
2. **FSL** = x49 (out of the x55 total)
3. **FSS** = x47 (out of the x53 total)
4. **XC** = x49 (out of the x55 total)
5. **LCD** = x45 (out of the x49 total)

Installation Instructions

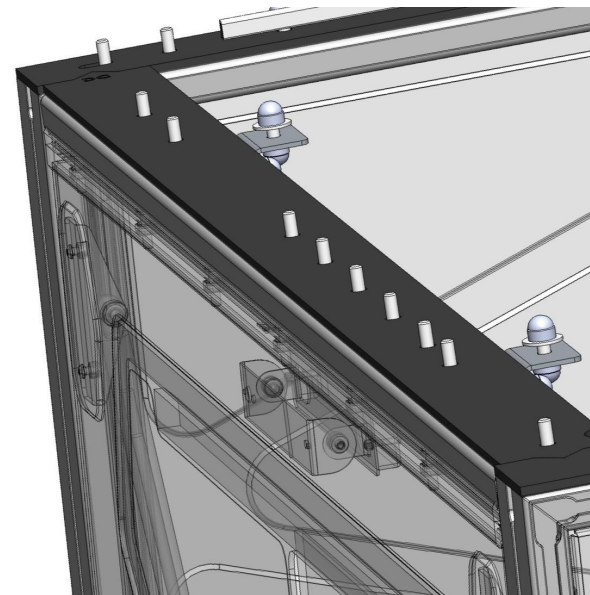
Bolts & Rubbers:

1. Lay the supplied rubbers out.



NB. Please note cutouts for looms on each side.

2. Slide bolts in nut slot to match cutouts in rubbers.



Installation Instructions

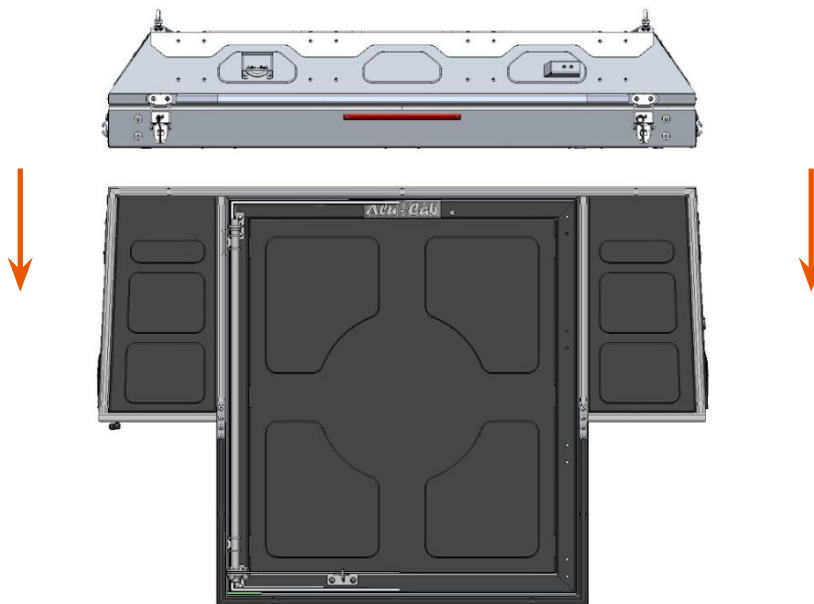
Camper/Cabin + Base attachment:

9

Lift tent using a Gantry or similar device and lower it onto the ModCAP base.



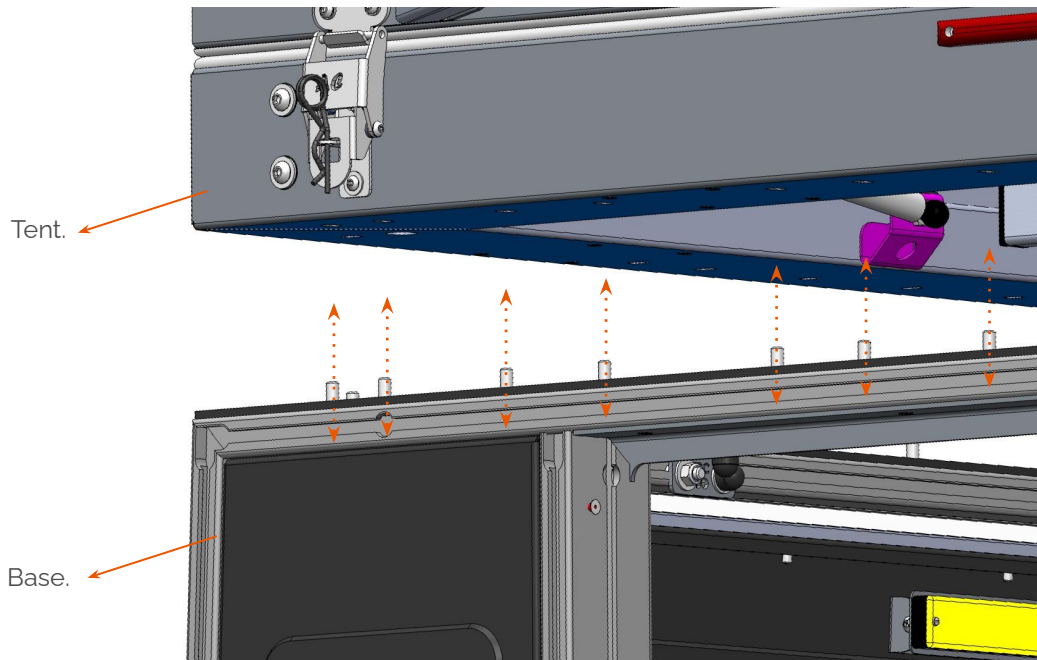
Note do not sling the tent through just the eye nuts. Ensure to sling around the entire tent body.



Installation Instructions

Tent + Base attachment:

- 9.1 Shift tent until all bolts align. **Warning** there is a chance for pinching to occur here. Use a spanner or similar tool to realign any bolts that are not falling on the holes in the tent base.



1. Lower tent and align bolts.

2. Do a final alignment check that the tent and camper base are in straight.

Note: For each removal and reapplication of the ModCap Tent it will be necessary to order a set of new nylock nuts. This is to ensure that the nuts can still lock onto the bolts thread and will not loosen during any prolonged use.

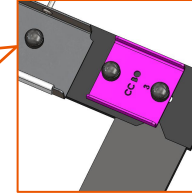
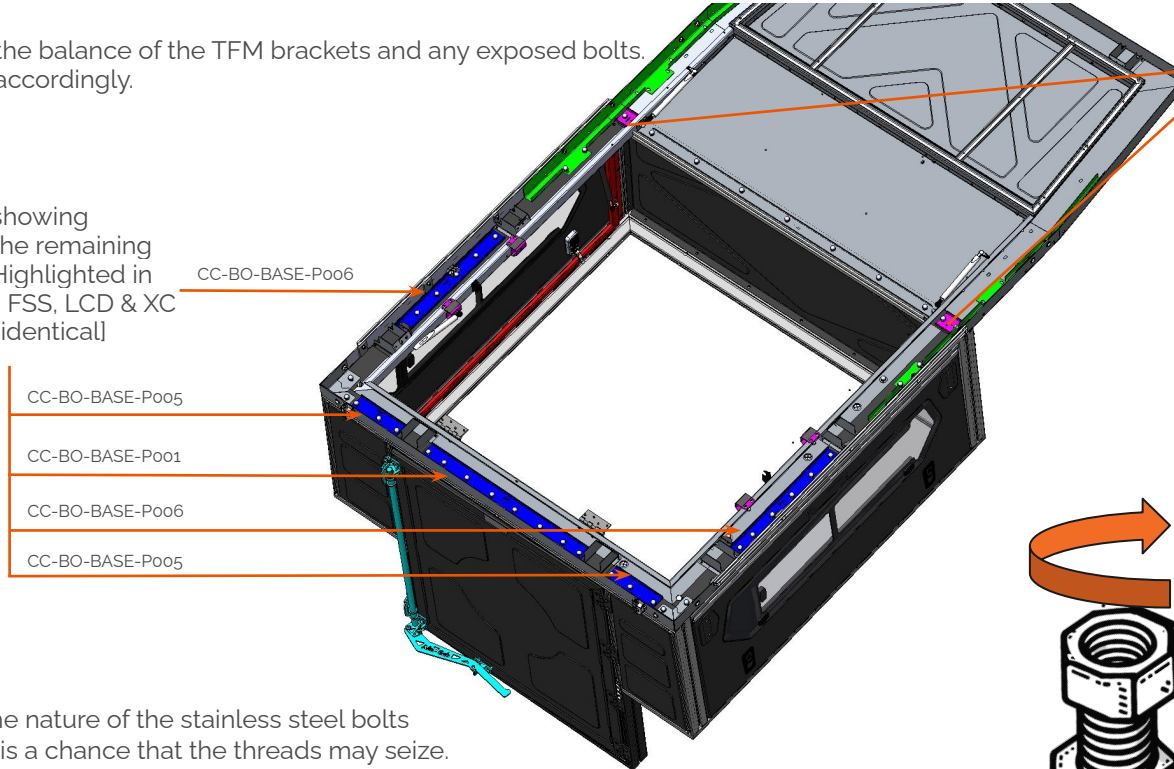
Installation Instructions

Tent + Base attachment:

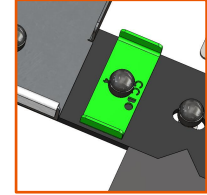
9.2

Fit the balance of the TFM brackets and any exposed bolts. Fit accordingly.

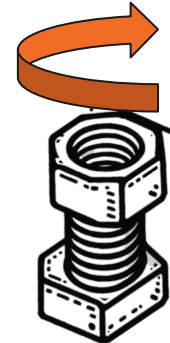
Sectional view showing placements of the remaining TFM brackets (Highlighted in **blue**). [DC, FSL, FSS, LCD & XC brackets are all identical]



The following bracket (CC-BO-BASE-P003) is found in the TFM of DC, LCD, FSL & XC



The following bracket (CC-BO-BASE-P004) is found in the TFM of FSS



Note: Torque each rubber compression nylock nut to 10N.m.

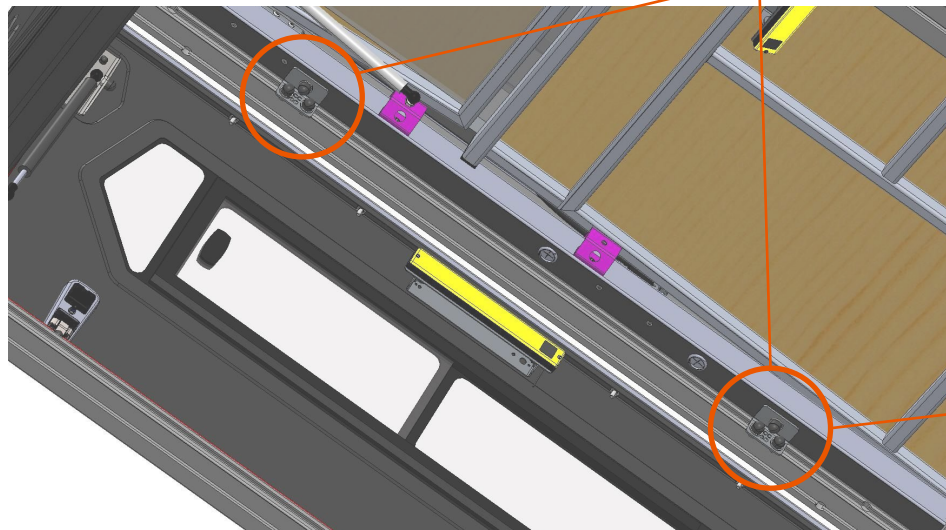
Note: Due to the nature of the stainless steel bolts and nuts there is a chance that the threads may seize. To extend the lifespan of the bolts a thread lubricator like Copperslip is recommended.

Installation Instructions

Tent + Base attachment:

9.3

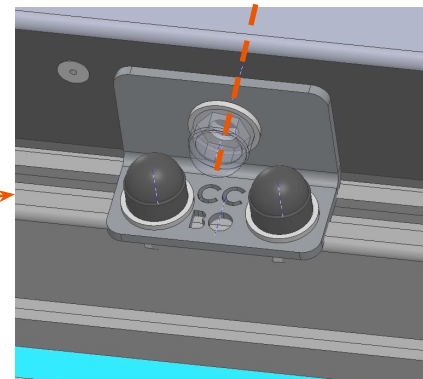
Attach the internal brackets (**CC-BO-BASE-P007**) included with the TFM and drill out the holes in the tent as required (The centre hole in the bracket).



Brackets on each side (Left & Right sides:

1. CC2-A-BO-**DC**-TFM = 2 per side
2. CC2-A-BO-**FSL**-TFM = 3 per side
3. CC2-A-BO-**FSS**-TFM = 3 per side
4. CC2-A-BO-**XC**-TFM = 3 per side
5. CC2-A-BO-**LCD**-TFM = 2 per side

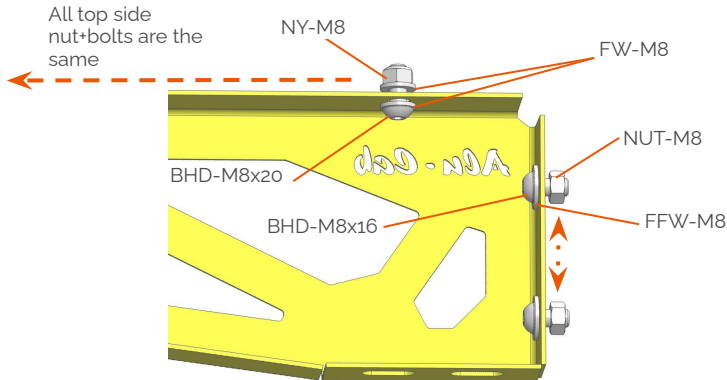
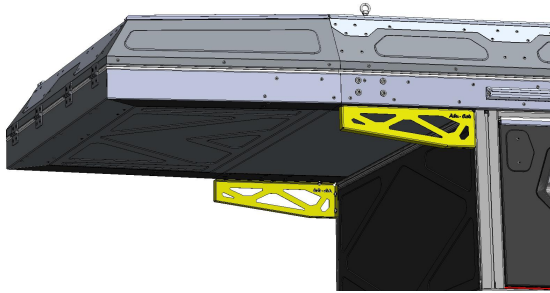
Ø9mm Hole required for drilling.



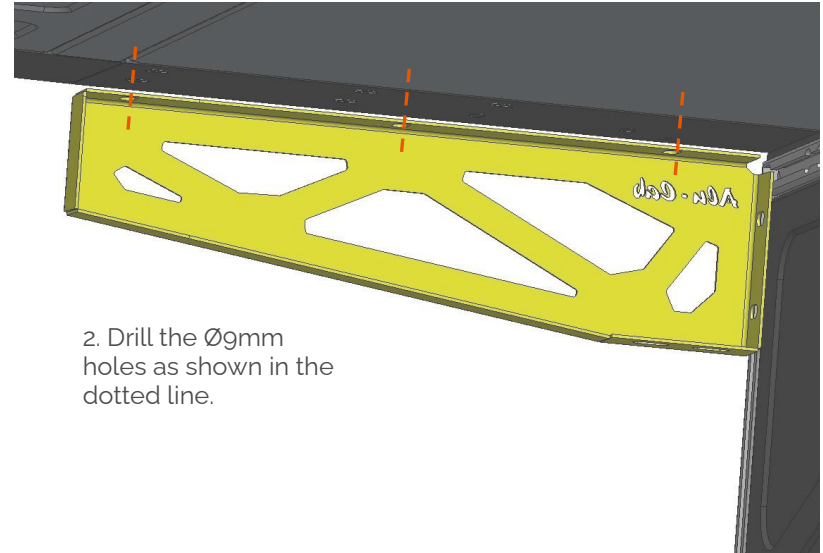
Installation Instructions

DC and FSS specified brackets

- 10 For DC and FSS specifically there are support brackets (highlighted in yellow) that fit to the front of camper.



1. Dry fit the brackets in the front of camper (slide nuts and use bolts in the base without fastening yet) and markout the position in the tent base for where they need to be drilled.



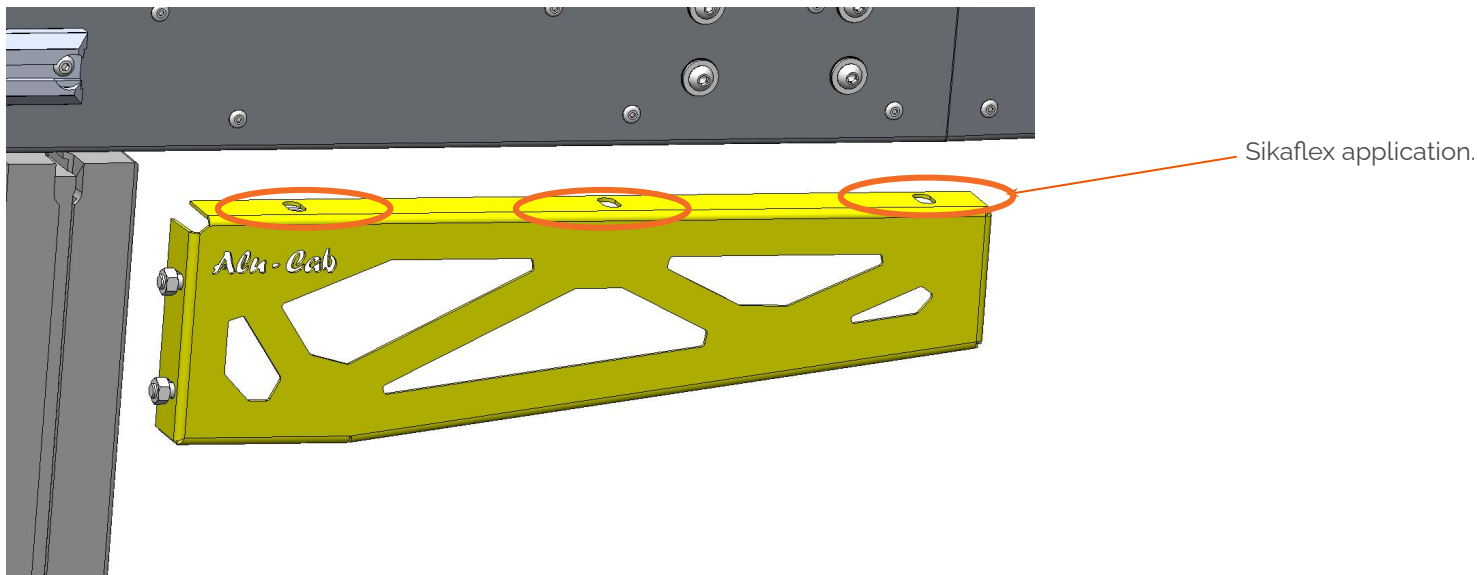
2. Drill the Ø9mm holes as shown in the dotted line.

Installation Instructions

DC and FSS specified brackets

10.1

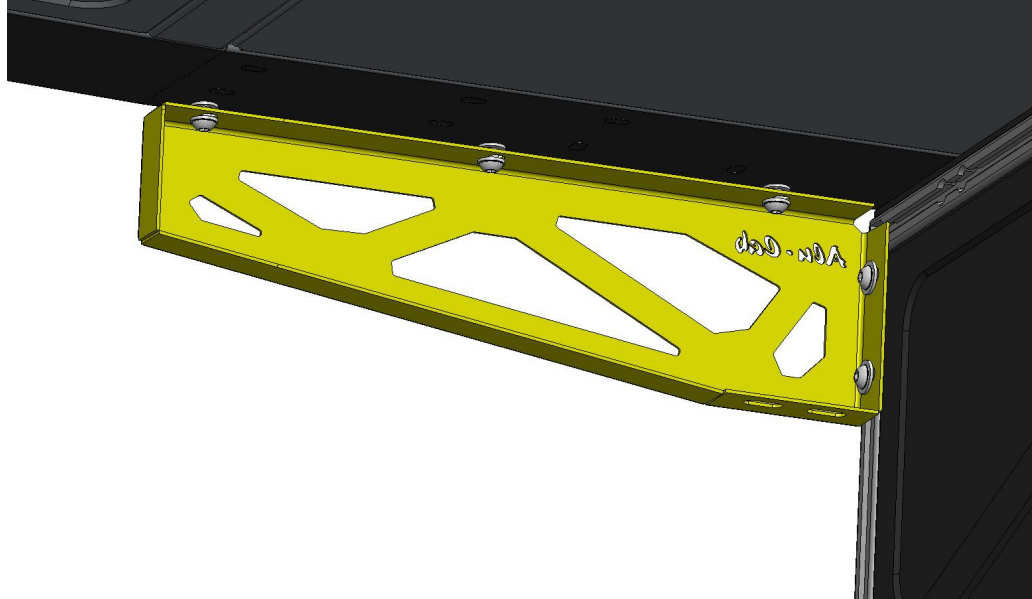
Apply Sikaflex to the top of the bracket as shown in diagram. Ensure that the holes drilled into the base of the tent are sealed around the perimeter.



Installation Instructions

DC and FSS specified brackets

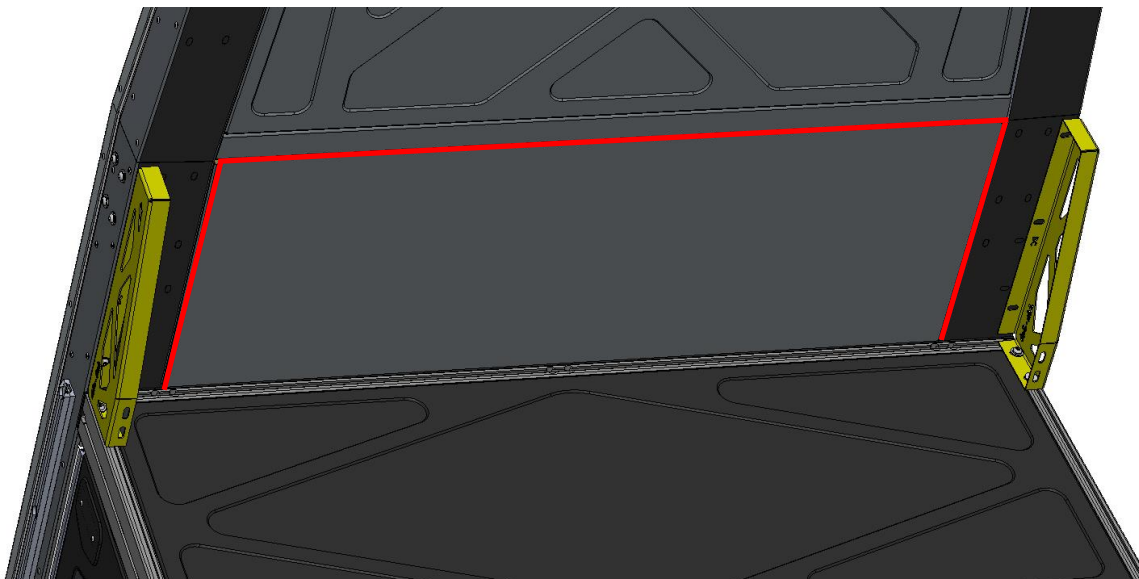
10.2 Slide bolts through and fasten it down.



Installation Instructions

Sealing and Finishing

- 11 If the Tent filler panel is extended (as **DC** and **FSS**) then Seal the underside of the Tent Filler panel on the 3 sides shown below. See **red marking**.

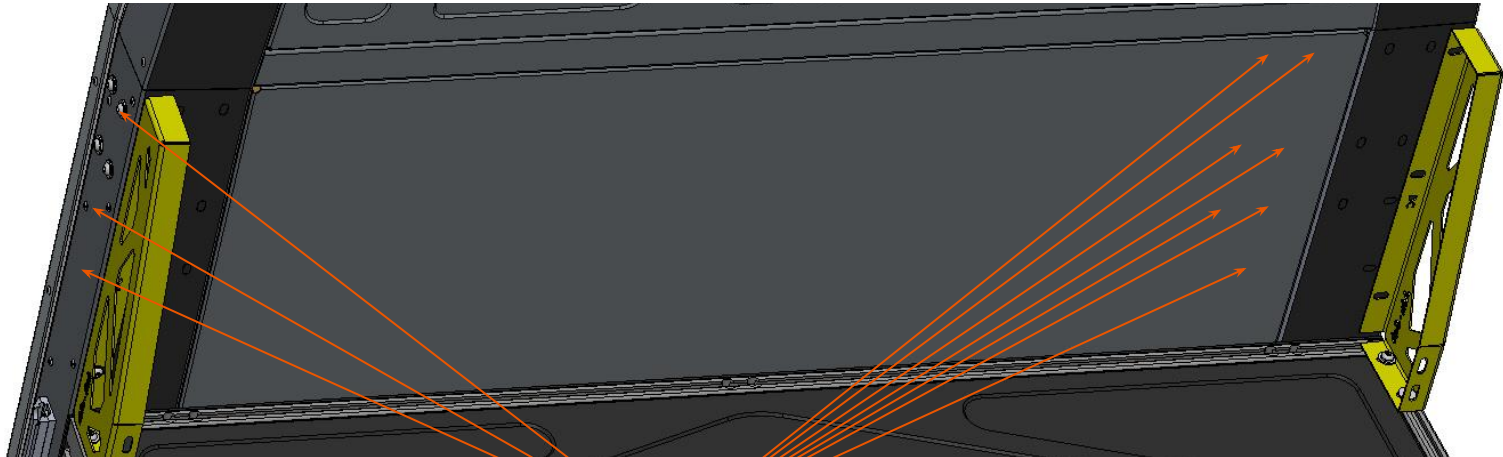


Installation Instructions

Sealing and Finishing

11

Identify which knockouts have not been utilized and seal them. Sealing can be accomplished by applying a bead of sika onto the knockout and working it into the laser cut gap of the knockouts with a soapy rag or finger.



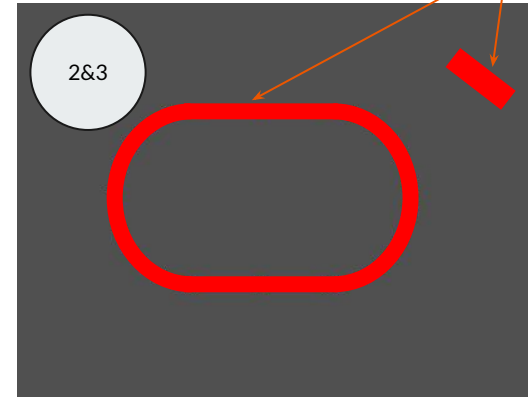
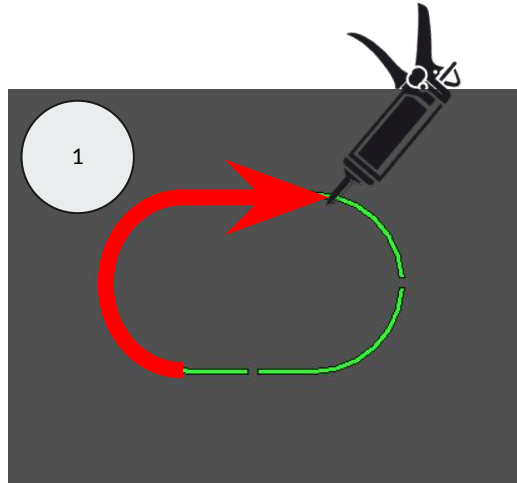
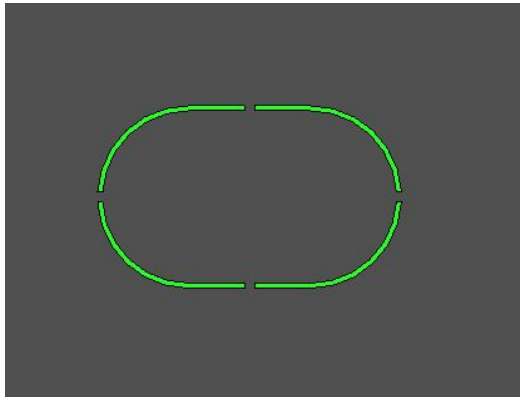
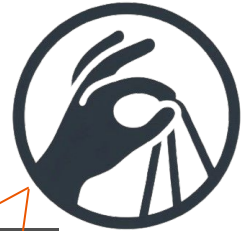
Unutilized Knockouts

Installation Instructions

Sealing and Finishing

The knockouts in the base of the ModCap Tent can be identified by the image below. Correct sealing procedure is as follows:

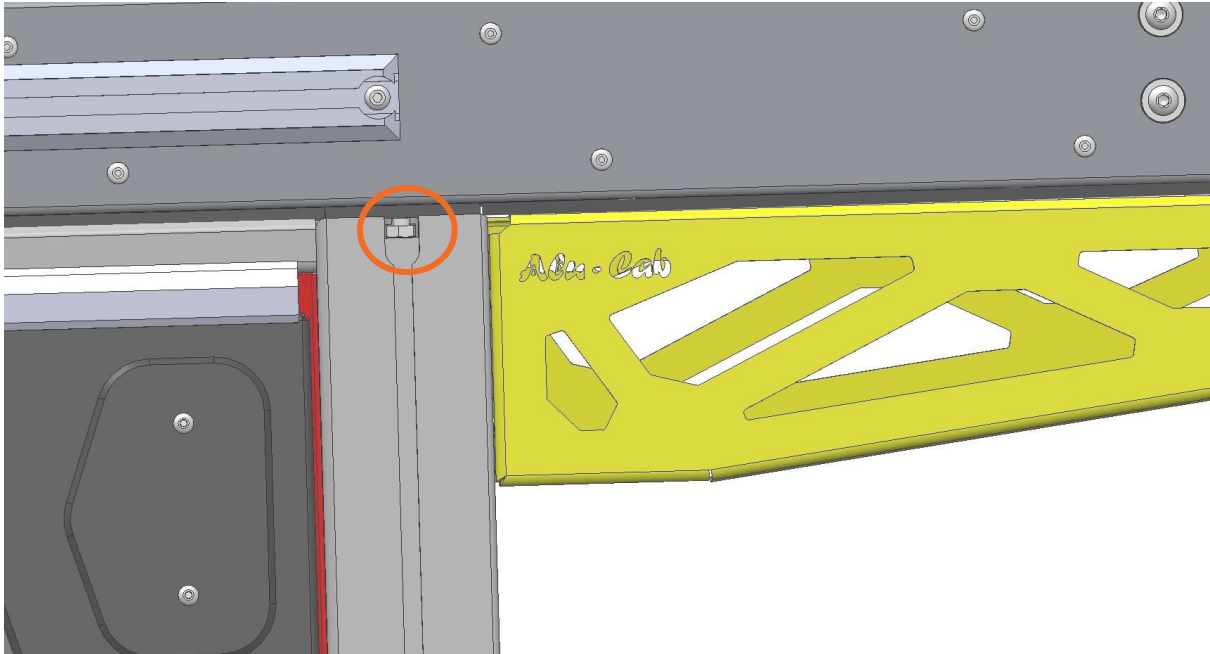
1. Apply bead of sikaflex to the entire perimeter of the knockout, using the nozzle to push some sikaflex through the gap.
2. Wet a rag with soapy dishwater and use it to further push the sikaflex into the gap.
3. Remove any excess sikaflex and allow to cure.



Installation Instructions

11.1 Sealing and Finishing

Seal the Camper/Cabin base in the corners on each side, shoot a large bead of sika that properly fills the nut slot, preventing any ingress of water.



Installation Instructions

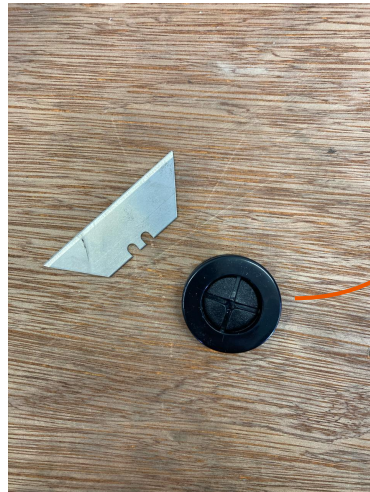
12 Loom installation

Instructions on how to install the Loom.

1. Locate the connector fitted to the side door LEDs.



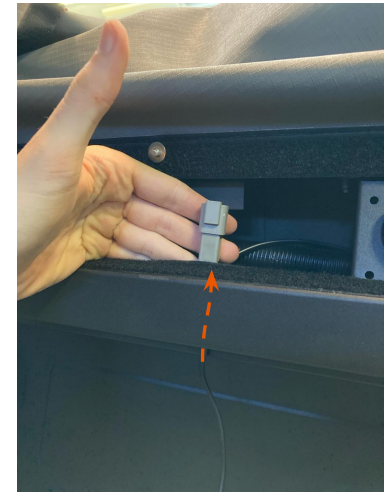
2. Cut the supplied grommet open.



3. Install the supplied grommet into the base of the ModCAP Camper sheet metal.



4. Push the connector through the grommet.



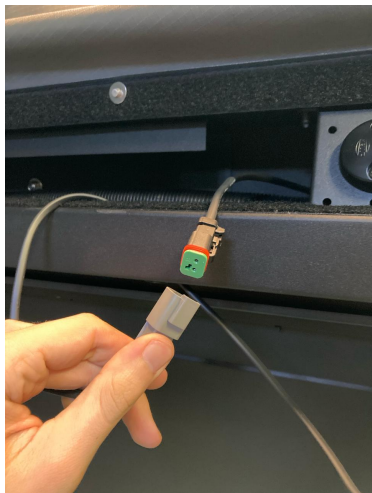
Installation Instructions

12

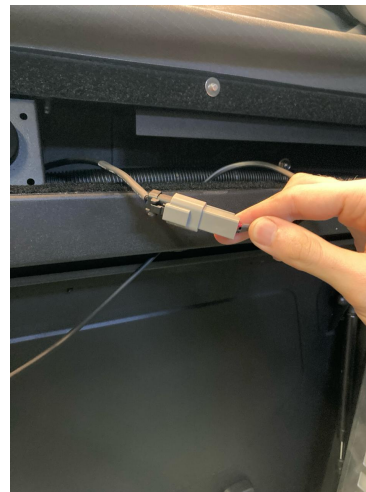
Loom installation

Instructions on how to install the Loom.

5. Connect the male and female connectors together.



6. Repeat on LHS and RHS doors, as well as rear door.



Installation Instructions

12

Loom installation

Instructions on how to install the Loom.

7. Locate the 7 core and solar loom tucked into the base of the Modcap Tent



8. Route the loom through the cutout in the Modcap Tent Base



9. Reinstall all canvas and tuck any wires away behind canvas



Installation Instructions

13 Complete and ready to fit.

Your ModCAP Camper is now ready to fit to your vehicle. Follow the standard canopy camper mount and filler instructions to complete your vehicle specific installation.



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Any damages, direct or incidental to the installer and/or property due to incorrect installation of any parts are the responsibility of the installer. Due to the various applications and fitment options available, the responsibility lies with the user to ensure all mounting points are secure and tight before every trip.

If unsure, consult with your Distributor regarding the operations of our products.

Users are advised to be mindful of the load they are carrying and drive in accordance with road conditions.

WARNING

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