

FITMENT INSTRUCTIONS

FORD RANGER 2022 (DC & XC) Canopy Camper and ModCAP Camper

RANGER 22 DISCLAIMER J BRACE



Ford has given instruction that the new Ford Ranger requires a reinforcement bracket for any canopy and accessory fitted to the vehicle's load body.

For information about the J Brace kit, contact your local Ford Dealer.

Ford part number: AMN1WJ27726AA

FITMENT OF J BRACE: The J Brace must be fitted prior to installing the canopy or canopy camper. Alu-Cab will not accept any liability for damages to the canopy or vehicle if the J Brace is not fitted or fitted post-fact.

All dealers, please note it will be your responsibility to record proof of fitment of the J Brace for warranty purposes.

DISCLAIMER



Safety Notice - Lifting and Handling of Product

Do not attempt to lift, move, or suspend the canopy, canopy camper, or any related product using eyebolts, eye nuts, or any components attached to the cargo rails or roof accessory tracks.

These points are not engineered or rated for lifting loads and may result in serious injury, product damage, or failure if used.

For all lifting and handling operations, only use approved lifting methods such as:

- A forklift positioned securely beneath the base structure, or
- Outrigging poles attached to the designated lifting brackets supplied or approved by Alu-Cab.

Always ensure lifting equipment and methods comply with applicable safety standards. Improper lifting may void the warranty on this product.



Service Enquiries email queries@alu-cab.com



RANGER 22 DISCLAIMER SEALING OF LOADBIN

Alu-Cab is committed to providing the highest quality products and customer service. However, it is necessary to take note of specific design aspects of the OEM Ford loadbin. Despite our best efforts in the design and manufacture of Alu-Cab products, the loadbin has certain limitations that may affect its performance.

Please be advised that due to the current design of the loadbin, there is an inherent risk of leakage. Even with the canopy or canopy camper sealed to the loadbin to the best possible standards, complete prevention of water ingress cannot be guaranteed.

To aid in the above point we have included a roll of butyl rubber that should be used to seal any visible holes.

We apologize for any inconvenience this may cause and recommend taking additional precautions to protect your cargo from water exposure. Should you experience any issues, our customer service team is here to assist you.



Main Points of ingress lie in the front of the Load Bin. Build the butyl rubber up to seal in two places per LHS/RHS



Preliminary Information



Installation and fitment instructions including tools required, fasteners included in kit, and the hardware included in kit. Please follow the instructions and check installation actions with the images in this document.



Please be sure to lay out all parts provided on a table or flat surface in order to check that all required parts are accounted for and prevent potential frustration at a later stage.



Canopy Camper Fitment – Tools, Fasteners & Materials The tables below show the equipment, i.e. tools and fasteners required to start the Canopy Camper Fitment of a Ford Ranger 2022 Double Cab/ Extra Cab.

1.1 Tools & Items Required

TOOL		
Ratchet	Flat Nose Pliers	
Hand Drill	Phillips Screwdriver	
10mm Socket	Panel Clip Removal Tool	
13mm Socket	Flat Nose Pliers	
13mm Ring Flat Spanner		
T40 Torx Bit		

Fasteners Supplied (included with filler kit)

ITEM	QTY
M8x20mm Hex Bolt	8
M8x25mm Hex Bolt	6
M8x30mm Hex Bolt	8
M8 35mm Hex Bolt	6
M8 Flat Washer	12

ITEM	QTY
M8 Oversized Washer	20
M8 Spring Washer	16
M8 Nyloc Nuts	12
M8 Plastic Nut Caps	32

Please be sure to lay out all parts provided on a table or flat surface in order to check that all required parts are accounted for and prevent potential frustration at a later stage.



1.3 Hardware Required

ITEM	QTY
Front Left Mounting Bracket	1
Front Right Mounting Bracket	1
Rear Left Mounting Bracket	1
Rear Right Mounting Bracket	1
Universal Bracket	4
Ranger Rear Mounting Bracket	2
Standard Shim 01	24

ITEM	QTY
Bottom Filler Panel	1
Left Hand Filler Panel	1
Right Hand Filler Panel	1
Rubber Strip	1

Consumables Required

ITEM
Turpentine
Shop Rags
Black sealant, silicone or Sikaflex
Window Cleaner



Left, Right and Front Load Bin Capping.

Figure 1 and Figure 2 below are illustrations of the left and right replacement load bin capping for the Ford Ranger 2022 Double Cab / Extra Cab.

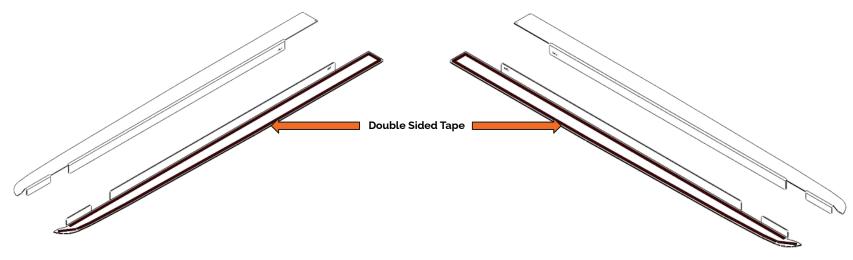


Fig 1. Left Load Bin Capping

Fig 2. Right Load Bin Capping



Front Load Bin Capping

Figure 3 below is an illustration of the front replacement load bin capping for the Ford Ranger 2022 Double Cab / Extra Cab.

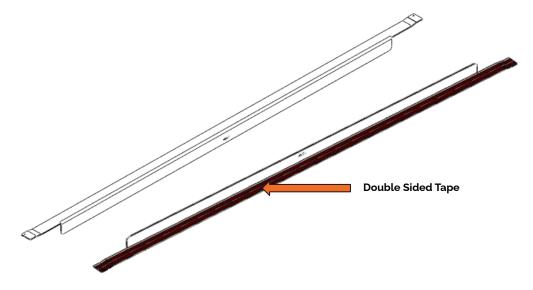


Fig 3. Front Load Bin Capping





Removing the OEM styling Bar

Figure 4 (Images A-F) below illustrates how to remove the OEM styling bar from the Ford Ranger 2022 double cab / extra cab load bin sequentially.

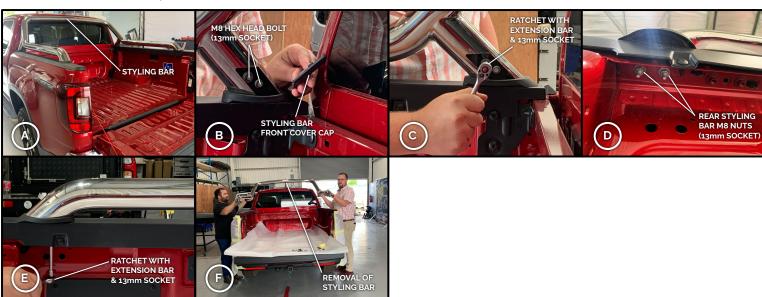


Fig 4. Image A - F



PANEL REMOVAL TOOL

Installation Instructions

Removing the plastic capping

Figure 5 (Images G-L) below illustrate how to remove the left and right hand side plastic OEM loadbin capping.

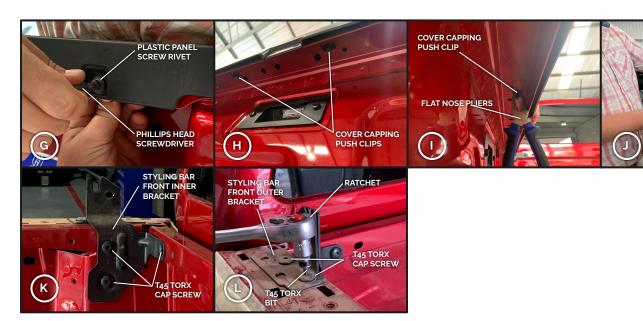


Fig 5. Image G - L



Removing the plastic capping (commercial double cab/ extra cab variant)

Figure 6 (Images M-T) below illustrate how to remove the left and right hand side plastic OEM loadbin capping as well as the tie down rails.



Fig 6. Image M - T



4

Installing the Canopy Camper Load Bin Replacement Capping

Figure 7 (Images U-W) below illustrates how to install the load bin capping left, right and front replacement capping.

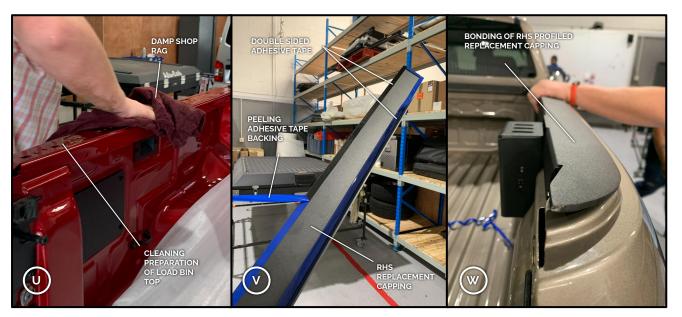


Fig 7. Image U - W

Please see page 3 for extra information on loadbin sealing.



Removal of the Tie-down Loops

Figure 8 (Images X-Z) below illustrates the the position of the front and rear tie-down anchors which will need to be removed with a T45 Torx Bit.



Fig 8. Image X - Z



Front ,Centre and Rear Canopy/Camper Mounting Brackets

Figures 9 and 10 below illustrate the canopy mounting brackets for the Ford Ranger 2022 Double Cab / Extra Cab.

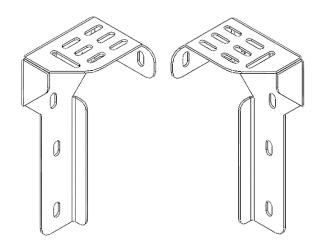
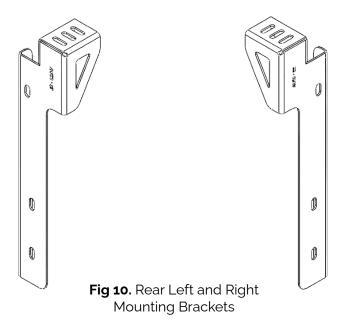


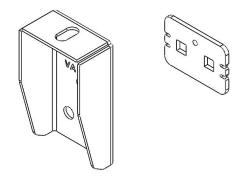
Fig 9. Front Left and Right Mounting Brackets





Front ,Centre and Rear Canopy/Camper Mounting Brackets

Figures 11 and 12 below illustrate the centre mounting canopy camper mounting brackets for the Ford Ranger 2022 Double Cab / Extra Cab.









Installing Front, Centre and Rear Mounting Brackets.

Figure 11 and 12 below illustrates the front right and left mounting bracket position on the load bin respectively.

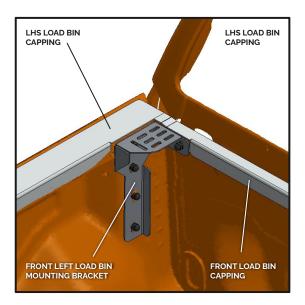


Fig 13. Right Front Mounting Bracket

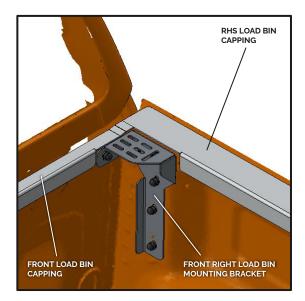


Fig 14. Left Front Mounting Bracket



Installing Front, Centre and Rear Mounting Brackets (Special instances). Cargo Rails and Load Bin Liners.

Figure 15A-D below illustrates load bin cargo rails that are present in certain models of vehicles. These need to be removed as they interfere with the loadbin mounting brackets. These can be refitted once the rear mounting brackets have been installed. If the rubberising on the vehicle's load bin is particularly thick it will be necessary to trim the welded bush on the cargo rail mounting bracket, refer to 15D to help identify this part.



Fig 15 A-D. Load Bin Cargo Rails





Installing Front, Centre and Rear Mounting Brackets (Special instances). Cargo Rails and Load Bin Liners.

In cases where your vehicle model has the plastic load bin liner included, the portions of the liner where the placement of the canopy mounting brackets are to be fitted to the load bin, will need to be trimmed away with a utility knife. Figure 16A and 16B below illustrates the front and rear right section of the liner that would need to be trimmed.



Fig 16 A. Rear Bracket Liner Trimming Section



Fig 16 B. Front Bracket Liner Trimming Section



Installing Front and Rear Mounting Brackets.

Figure 17 and 18 below illustrates the front right and left mounting bracket position on the load bin respectively.

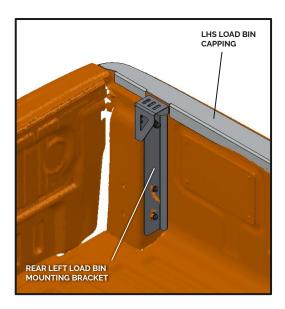


Fig 17. Left Rear Mounting Bracket

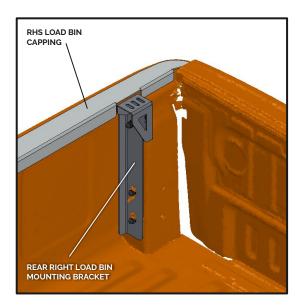
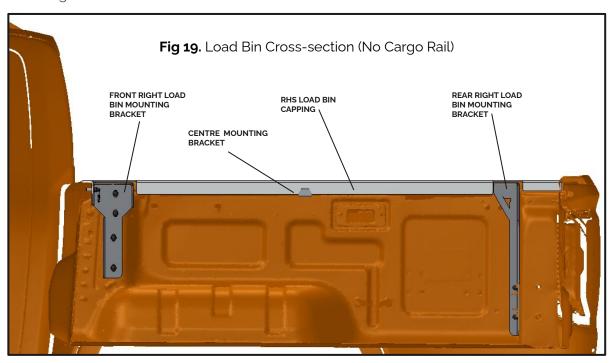


Fig 18. Right Rear Mounting Bracket



Figure 19 Cross-section of the load bin illustrating front, rear and centre mounting brackets in their respective positions for a vehicle with no cargo rail.





6.6

Figure 20 Cross-section of the load bin illustrating front, rear and centre mounting brackets in their respective positions for a vehicle with a cargo rail.

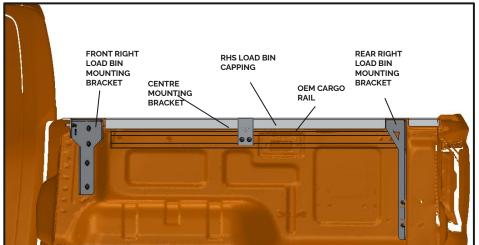
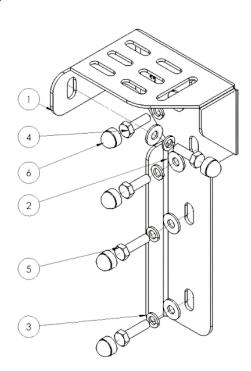




Fig 20. Load Bin Cross-section (with Cargo Rail)



Figure 21 below illustrates the Front Right Mounting Bracket Sub-Assembly

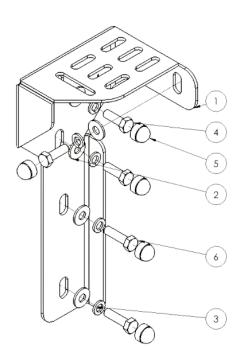


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	C2-VA23-M-BKT-P001	FORD RANGER CANOPY FRONT RIGHT MOUNTING BRACKET	1
2	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	5
3	SW-M8	M8 SPRING WASHER S/S	5
4	HEX-M8x25	M8x25 HEX BOLT S/S	3
5	HEX-M8x30	M8x30 HEX BOLT S/S	2
6	NCAP-M8	NUT CAP-08mm	5

Fig 21. Front Right Mounting Bracket Assembly



Figure 22 below illustrates the Front Left Mounting Bracket Sub-Assembly

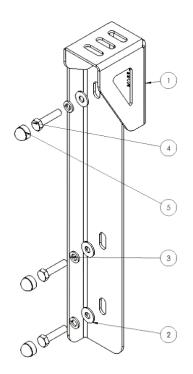


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	C2-VA23-M-BKT-P002	FORD RANGER CANOPY FRONT LEFT MOUNTING BRACKET	1
2	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	5
3	SW-M8	M8 SPRING WASHER S/S	5
4	HEX-M8x25	M8x25 HEX BOLT S/S	3
5	NCAP-M8	NUT CAP-08mm	5
6	HEX-M8x30	M8x30 HEX BOLT S/S	2

Fig 22. Front Left Mounting Bracket Assembly



Figure 23 below illustrates the Rear Right Mounting Bracket Sub-Assembly

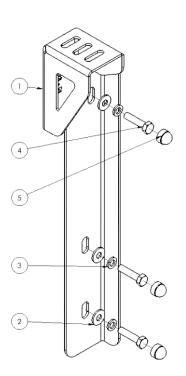


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	C2-VA23-M-BKT-P003	FORD RANGER CANOPY REAR RIGHT MOUNTING BRACKET	1
2	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	3
3	SW-M8	M8 SPRING WASHER S/S	3
4	HEX-M8x35	M8x35 HEX BOLT S/S	3
5	NCAP-M8	NUT CAP-08mm	3

Fig 23. Rear Right Mounting Bracket Assembly



Figure 24 below illustrates the Rear Left Mounting Bracket Sub-Assembly

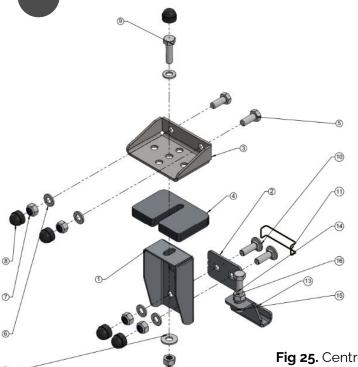


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	C2-VA23-M-BKT-P004	FORD RANGER CANOPY REAR LEFT MOUNTING BRACKET	1
2	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	3
3	SW-M8	M8 SPRING WASHER S/S	3
4	HEX-M8x35	M8x35 HEX BOLT S/S	3
5	NCAP-M8	NUT CAP-08mm	3

Fig 24. Rear Left Mounting Bracket Assembly



Figure 25 below illustrates the Centre Mounting Bracket Sub-Assembly



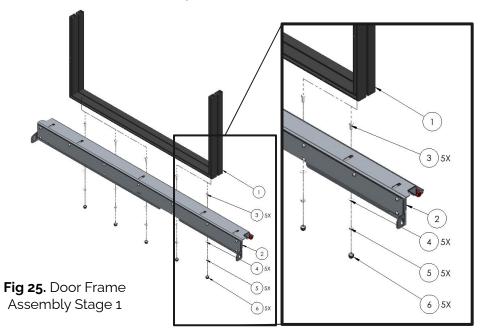
	1			
NO.	PART NUMBER	Revision	DESCRIPTION	QTY
1	CC-VA23-M-BKT-P002	00	VA23/FR22 CHANNEL BRACKET	1
2	AC001-CAN-MNT-BRKT- 01	01	CANOPY MOUNTING BRACKET	1
3	AC001-STD-SHIM-01	00	STANDARD SHIM 01	8
4	CC-VA23-M-BKT-P001	00	VA23/FR22 NUT PLATE	1
5	CMB-000-002	00	BOTTOM MOUNT BRACKET	1
6	HEX-M8x20		M8x20 HEX BOLT S/S	2
7	FW-M8		M8x16mm FLAT WASHER S/S - DIN 125	5
8	NY-M8		M8 NYLOC NUT S/S	5
9	NCAP-M8		NUT CAP-08mm	6
10	HEX-M8x30		M8x30 HEX BOLT S/S	1
11	FFW-M8		M8x20mm OVERSIZED WASHER S/S - DIN 9021	1
12	SQN-M8x25		M8x25 CUP SQ BOLT S/S	2
13	ELAS-BAND-14		ELASTIC BAND NO.6	1
14	NUT-M8		M8 HEX NUT S/S	1
15	HEX-M8x50		M8x50 HEX BOLT S/S	1
16	SW-M8		M8 SPRING WASHER S/S	1

Fig 25. Centre Mounting Bracket Assembly



Canopy Camper Installation

Figure 25 below illustrates the first steps in assembling the doorframe and filler kit. M8x20mm Hex bolts needs to slid into the bottom of the doorframe, and bolted to the bottom filler with M8 oversized washers and M8 Nyloc Nuts. The nuts to be covered with M8 nut caps.



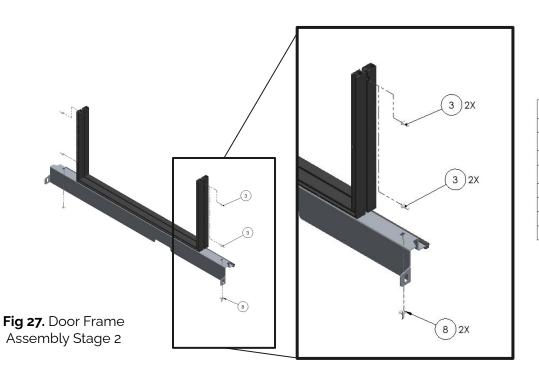
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	162-LWR-DOR-FRA-01	LOWER DOOR FRAME	1
2	FR22-DC-BOT-SUPP-BRKT-01	VA23 CC BOTTOM FILLER	1
3	HEX-M8x20	M8x20 HEX BOLT S/S	5
4	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	5
5	NY-M8	M8 NYLOC NUT S/S	5
6	NCAP-M8	NUT CAP-08mm	5
7	RUB-MDS-(1.35m)	DOOR RUBBER SEAL	1

Fig 26. Table with fasteners required.



Canopy Camper Installation

Figure 27 illustrates the second step in the in the assembly of the rear door frame. Two M8x20 bolts needs to be slid into each side of the nut slot. A M6 cage nut needs to be clipped into the rectangular cutout on each side of the bottom support brace.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	162-LWR-DOR-FRA-01	LOWER DOOR FRAME	1
2	FR22-DC-BOT-SUPP-BRKT-01	BOTTOM SUPPORT BRACKET	1
3	HEX-M8x20	M8x20 HEX BOLT S/S	9
4	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	5
5	NY-M8	M8 NYLOC NUT S/S	5
6	NCAP-M8	NUT CAP-08mm	5
7	RUB-MDS-(1.35m)	DOOR RUBBER SEAL	1
8	CAGE-M6	M6 CAGE NUT	2

Fig 28. Table with fasteners required.



Canopy Camper Installation

Figure 29 shows the last part of the pre-assembly of the rear filler it before fitting it to the camper. Bolt the 2 filler panels with the open section on the inside. The fasteners required for sideways fitting is 4x M8 Oversized flat washer, 4x M8 Nyloc Nuts and 4x Nut Caps. The downwards fastening uses M6 oversized washer, M6 Button Head Bolt and M6 nut cap. Lastly seal with supplied Rubbers and shown below. The cover plate on the bottom filler can be removed to easily access any bolts that fit into the doorframe and allow correct fastening once the camper and filler kit are in the correct position. Use the supplied Plastic washers between the bottom filler and the loadbin of the vehicle to prevent any scratches.

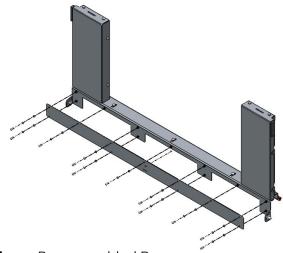


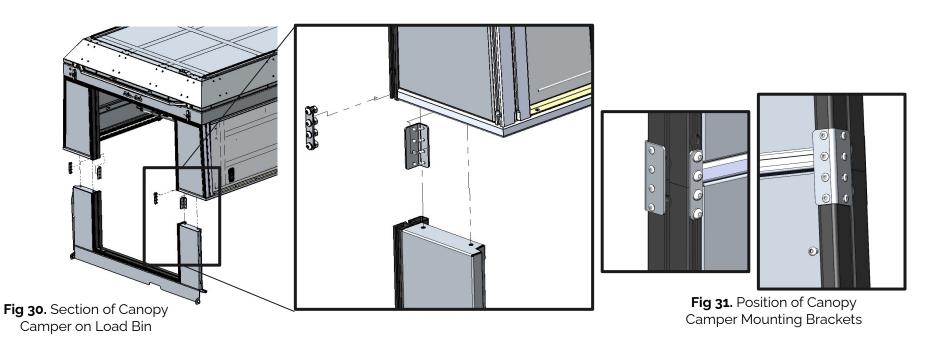
Fig 29. Pre-assembled Rear Filler.

ITEM NO.	PART NUMBER	Revision	DESCRIPTION	QTY
1	CC-FK-VA23-A02	00	VA23/FR22 BOTTOM FILLER COVER PLATE SPONGE RUBBER APPLICATION	1
2	CC-FK-VA23-P001	02	VA23 CC BOTTOM FILLER	1
3	CC-FK-VA23-P002	02	VA23 CC REAR SIDE FILLER BOX LH	1
4	CC-FK-VA23-P003	02	VA23 CC REAR SIDE FILLER BOX RH	1
5	HEX-M8x20		M8x20 HEX BOLT S/S	11
6	FFW-M8		M8x20mm OVERSIZED WASHER S/S - DIN 9021	11
7	NY-M8		M8 NYLOC NUT S/S	11
8	NCAP-M8		NUT CAP-08mm	11
9	CAGE-M6		M6 CAGE NUT	13
10	BHD-M6x16		M6x16 B/HD BOLT S/S	2
11	FFW-M6		M6x18mm OVERSIZED WASHER S/S - DIN 9021	2
12	SW-M6		M6 SPRING WASHER S/S	13
13	FFW-M10		M10x30mm OVERSIZED WASHER S/S - DIN 9021	2
14	SW-M10		M10 SPRING WASHER S/S	2
15	HEX-M10x25		M10x25 HEX BOLT S/S	2
16	RUB-MDS-(1.35m)	00	DOOR RUBBER SEAL	1
17	BHD-M6x20		M6x20 B/HD BOLT S/S	11
18	FW-M6		M6x12mm FLAT WASHER S/S - DIN 125	11
19	PW-M10X30	00	PLASTIC WASHER (NYLON) - (ID-10mm; OD-30mm; 2.5mm THICK)	2
20	CC-FK-VA23-R002	00	SPNG-RUB-1020-85mm	2



Canopy Camper Installation

Slide in 2x M8x20 bolts into the each side of the camper underneath the 2x rear bottom pieces. The 2x side filler panels gets bolted to the camper via the 2x holes in the top of each panel. The hardware required is 4x M8 oversize washers, 4x M8 Nyloc nuts and M8 nut caps. Secondly angular plates is riveted in position from the side and inside and on the outside, a nut plate is bolted in place with 4x M8 hardware on each side. 2x Above the joint and 2x below the joint.





Rebate and Door Assembly:

Fit rear door rebate with Ø4.8 x 15 sealed countersunk rivets as shown.

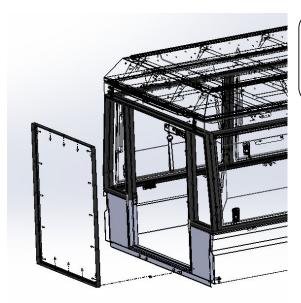


Fig 32. Fitting Door Frame

NOTE: Apply Sikaflex around the outside surface of the rebate and around the rivet holes to seal the rebate.

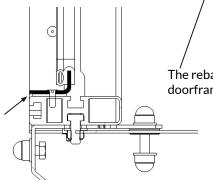
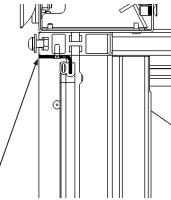


Fig 33. Door Frame Bottom Cross section

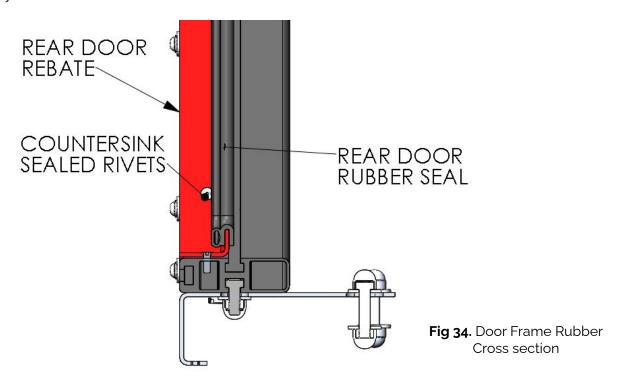


The rebate must be fitted flush with the outside of the doorframe and the riveted in place.

Fig 34. Door Frame Top
Cross section



Rebate and Door Assembly:

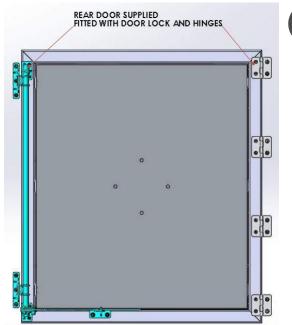




7.7

Rear door mounting:

Fit rear door by mounting 4 x Butt hinges to camper frame as shown. Centre rear door, top to bottom and the hinge centres left to right. Also mount the door lock to the camper frame.



Attach hinges and lock to camper frame:

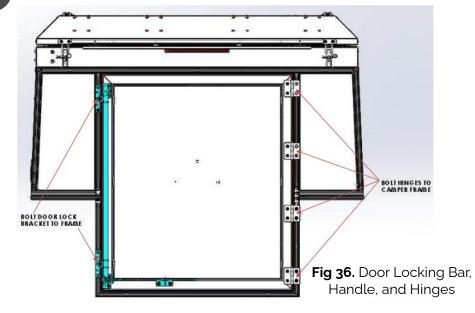
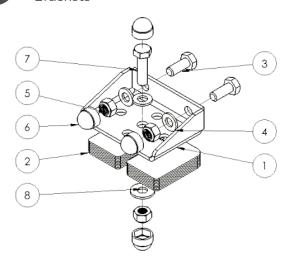


Fig 35. Door Locking Bar & Handle



8.1

Figure 37 below illustrates the Canopy Camper Mounting Bracket Sub-Assembly that will be used on the front and Rear Brackets



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	AC001-CAN-MNT-BR KT-01	CANOPY MOUNTING BRACKET	1
2	AC001-STD-SHIM-01	STANDARD SHIM 01	8
3	HEX-M8x20	M8x20 HEX BOLT S/S	2
4	FW-M8	M8x16mm FLAT WASHER S/S - DIN 125	3
5	NY-M8	M8 NYLOC NUT S/S	3
6	NCAP-M8	NUT CAP-08mm	4
7	HEX-M8x30	M8x30 HEX BOLT S/S	1
8	FFW-M8	M8x20mm OVERSIZED WASHER S/S - DIN 9021	1

Fig 37. Canopy Camper Mounting Bracket Assembly



Canopy Camper Installation

8.2

Figure 38 below illustrates the alignment of the Canopy Camper from front to back and Figure 39 illustrates the position of the canopy-to-load-bin mounting bracket positions.

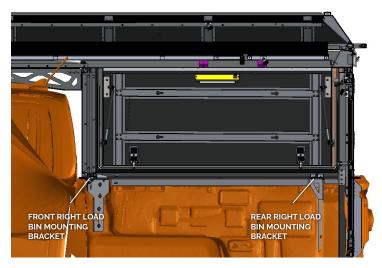


Fig 38. Section of Canopy Camper on Load Bin

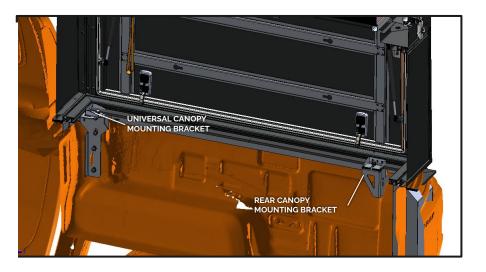


Fig 39. Position of Canopy Camper Mounting Brackets



Canopy Camper Installation

Figures 40 and 41 below illustrate how the canopy mounting brackets key into the nut-slots in the base frame of the canopy and how to use the shim plates for completing the mounting of the Ford Ranger Double Cab /Extra Cab 2022 Canopy Camper.

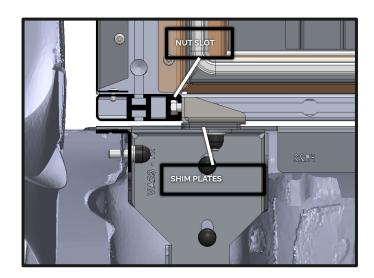


Fig 40. Universal Canopy Mounting Bracket

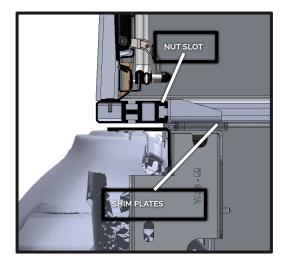


Fig 41. Canopy Mounting Bracket

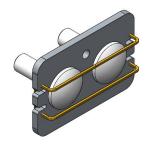


Canopy Camper Installation

Centre mount bracket installation for Load Bin with Cargo Rail

Fit 2 off M8x25 Cup Square Bolts to the nut plate and secure them using supplied elastic. Slide Completed assembly into Cargo Rail.





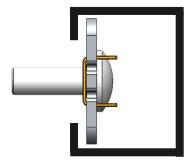


Fig 42. Bottom Brackets for Centre Mount

Fig 43. Nut Plate to Fitted with Cup Square Bolts

Fig 44. Nut Plate Fitted into Cargo Rail



Canopy Camper Installation

Centre mount bracket installation for Load Bin with Cargo Rail

Fit bottom mount bracket onto the 2 cup square bolts. Fit top mount bracket to canopy camper frame, fasten them together using supplied shims and M8x30 Hex Bolt







Fig 46. Top Mount Bracket Fitted



Canopy Camper Installation

Centre mount bracket installation for Load Bin without Cargo Rail

Fit the top mount bracket to canopy camper frame.

Slide Supplied M8x50mm Bolt through the correct hole.

Ensure that the bottom bracket hooks into the load bin lip.

Tighten the supplied hex nut and nylock nut in tandem to hold bottom bracket parallel to the top mount bracket. Fasten tightly to secure.

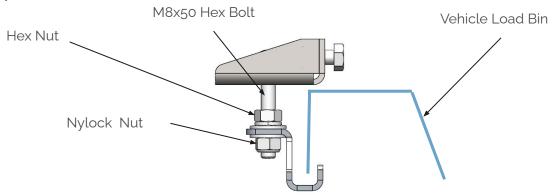


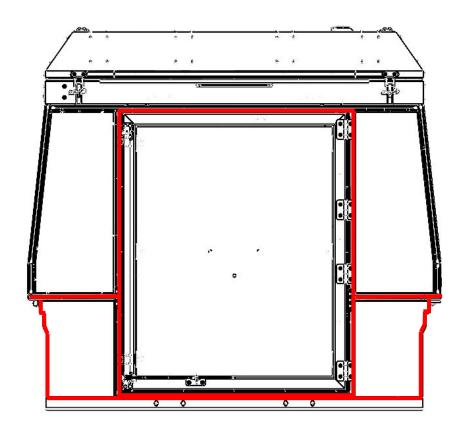
Fig 47. Centre Mount Bracket Completed Assembly (No Cargo Rail)



Sealing canopy to base:

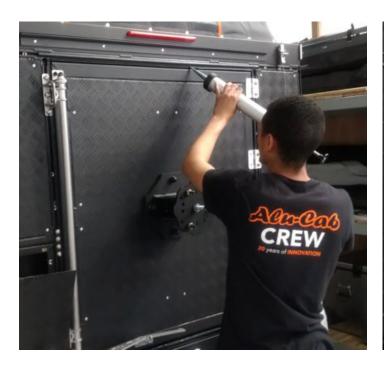
Use Sikaflex where there are shut / joining lines between parts that are not welded

Red line indicate when Sikaflex needs to be applied to seal between assembled parts



Sealing canopy to base:

Use Sikaflex where there are shut / joining lines between parts that are not welded.





Dip one's finger into soapy water and smooth over the sealant by gently running a finger over the bead.



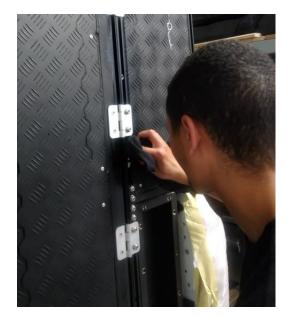
10.3

OPTIONAL Sealing canopy to vehicle body:

Use Sikaflex between the Canopy Camper and the vehicle body



Ensure that the rest of the vehicle is covered against any extra sealant or spillage when sealing the canopy camper to the vehicle's body. NOTE: This step is only done at the customer's approval.



Use Turpentine and a cloth to clean away any extra sealant or mess



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Review all instructions information carefully before installation.

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

Always wear appropriate PPE (Personal protection equipment) when fitting our products. Although the mounting kit is designed to be DIY, if you have any doubts or concerns, contact an accredited fitment centre to carry out the work. Alu-Cab will not be liable for any injury to persons, and/or damage to products and/or vehicles.

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