



FITMENT INSTRUCTIONS

TOYOTA HILUX REVO DC & XC CANOPY CAMPER

Installation Instructions

Preliminary information

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.



Service Enquiries email
queries@alu-cab.com

Installation Instructions

Canopy Fitment – Tools, Fasteners & Hardware

1.1

Tools & Items Required

| |
|--------------------------|
| 10mm Ring Spanner/Socket |
| 13mm Ring Spanner/Socket |
| 5mm Allen Key |

Items

| |
|-------------------------------------|
| Turpentine |
| Cloth |
| Black sealant, silicone or Sikaflex |
| Window Cleaner |

1.2

Fasteners Supplied (included with Side Boxes)

| | |
|-------------------------|----|
| M8 FLAT WASHER | 14 |
| M8 OVERSIZED WASHER | 4 |
| M8 PLASTIC NUT CAP | 14 |
| M8 NYLOCK NUT | 14 |
| M8X30 B/HD BOLT S/S | 4 |
| M8X20 HEX HEAD BOLT S/S | 10 |

Installation Instructions

Canopy Fitment – Tools, Fasteners & Hardware

1.3

Hardware supplied

| | |
|-----------------------------|---|
| 162-REVO-FNT-LH-MNT-BRKT-01 | 1 |
| REVO-FNT-RISER-LH-01 | 1 |
| CMB-000-002 | 2 |
| 162-REVO-CNT-MNT-ANG-01 | 2 |
| REVO-RER-RISER-PLT-LH-01 | 1 |
| 162-REVO-RER-LH-MNT-BRKT-01 | 1 |
| 162-REVO-FNT-RH-MNT-BRKT-01 | 1 |
| REVO-FNT-RISER-RH-01 | 1 |
| REVO-RER-RISER-PLT-RH-01 | 1 |
| 162-REVO-RER-RH-MNT-BRKT-01 | 1 |

| ITEM NO. | PART NUMBER | DESCRIPTION | MATERIAL | QTY. |
|----------|--------------------------------------|------------------------------|--------------------------------|------|
| 1 | 162-REVO-BOT-SUPP-BRKT-01-02 | BOTTOM SUPPORT BRACKET | 1060 Alloy (3mm) | 1 |
| 2 | 162-REVO-INNER-BOX-LH-01-01 | INNER BOX LH | 1060 Alloy (2mm) | 1 |
| 3 | 162-REVO-INNER-BOX-RH-01-00 | INNER BOX RH | 1060 Alloy (2mm) | 1 |
| 4 | 162-REVO COV PLT-LH-01-01 | COVER PLATE LH | 1060 Alloy Tread Plate (1.6mm) | 1 |
| 5 | 162-REVO COV PLT-RH-01-01 | COVER PLATE RH | 1060 Alloy Tread Plate (1.6mm) | 1 |
| 6 | EXZZZ17C Pinch Weld Boot Rubber Seal | Pinch Weld Boot Rubber Seal | EPDM 60 Durometer | 2 |
| 7 | DIN 9021 M8x24 Flat Washer | M8x24 Flat Washer | AlSi 316 | 15 |
| 8 | DIN 985 M8 Nyloc Nut | Nyloc Nut | AlSi 316 | 15 |
| 9 | DIN 933 M8x20 Hex Head Bolt | Hex Head Bolt | AlSi 316 | 15 |
| 10 | 483-080 | SPRING WASHER - M8 | AlSi 304 | 15 |
| 11 | 483-060 | SPRING WASHER - M6 | AlSi 316 | 26 |
| 12 | 483-100 | SPRING WASHER - M10 | Material <not specified> | 2 |
| 13 | M6 Cage Nut | M6 Cage Nut | Zinc Plated Steel | 26 |
| 14 | M6x16 Button Head Hex Socket Screw | Button Head Hex Socket Screw | AlSi 316 | 26 |
| 15 | M6x18 Oversized Flat Washer | Oversized Flat Washer | AlSi 316 | 26 |
| 16 | M8 Nut Cap | Plastic Nut Cap | PE Low/Medium Density | 15 |
| 17 | M10x30 Flat Washer | Oversized Flat Washer | AlSi 316 | 2 |
| 18 | DIN 933 M10x30 Hex Head Bolt | Hex Head Bolt | AlSi 316 | 2 |

NOTE the supplied mounting kit works on both double cab and extra cab Toyota Hilux

Installation Instructions

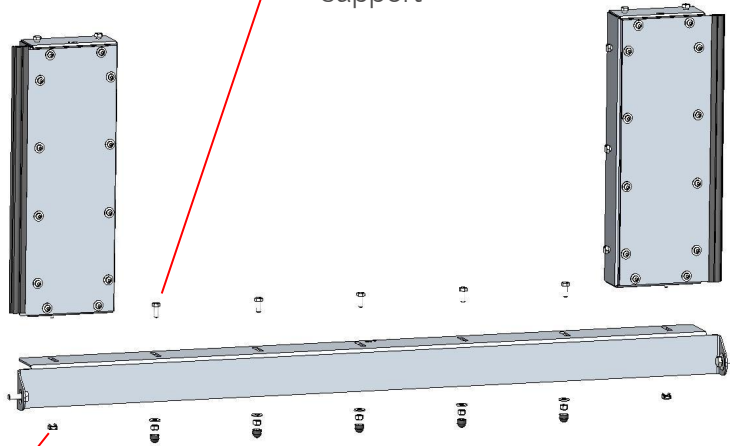
2

Filler Panel Assembly:

Fit lower door frame to filler panel assembly as shown. Assemble side filler panels and bottom support first and then attach it to the vehicle

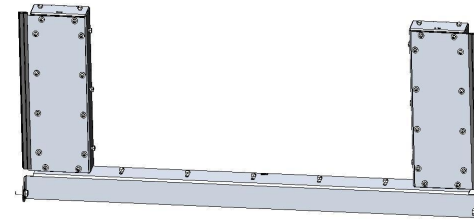
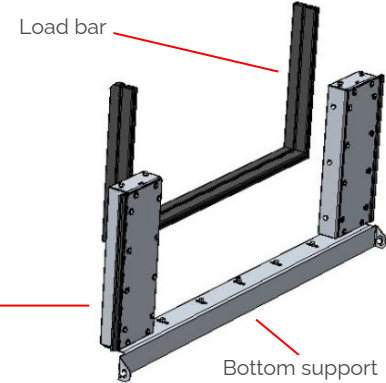
2.2

Place the hex bolts in the load bar track and then fasten the load bar down onto the bottom support with nuts underneath the bottom support



2.1

Attach the side fillers to the bottom support

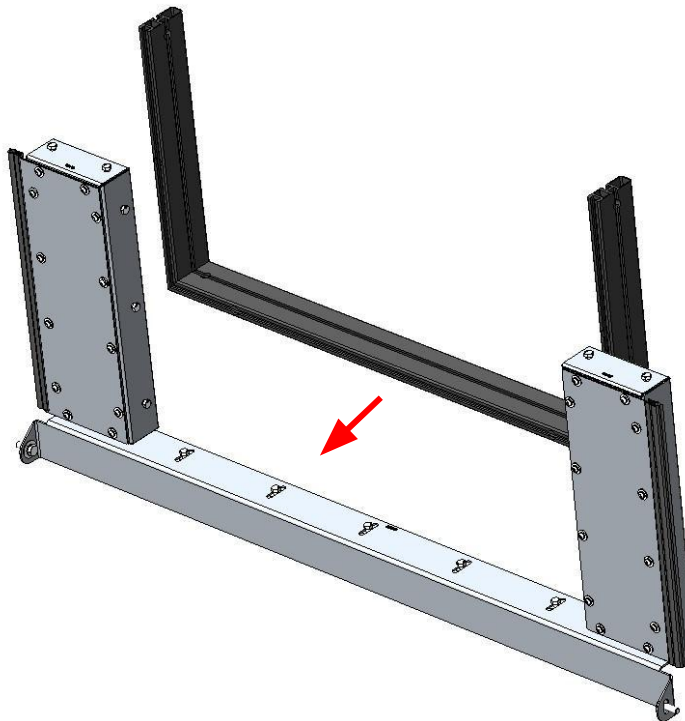


Example: Side fillers connected to bottom support

Installation Instructions

2

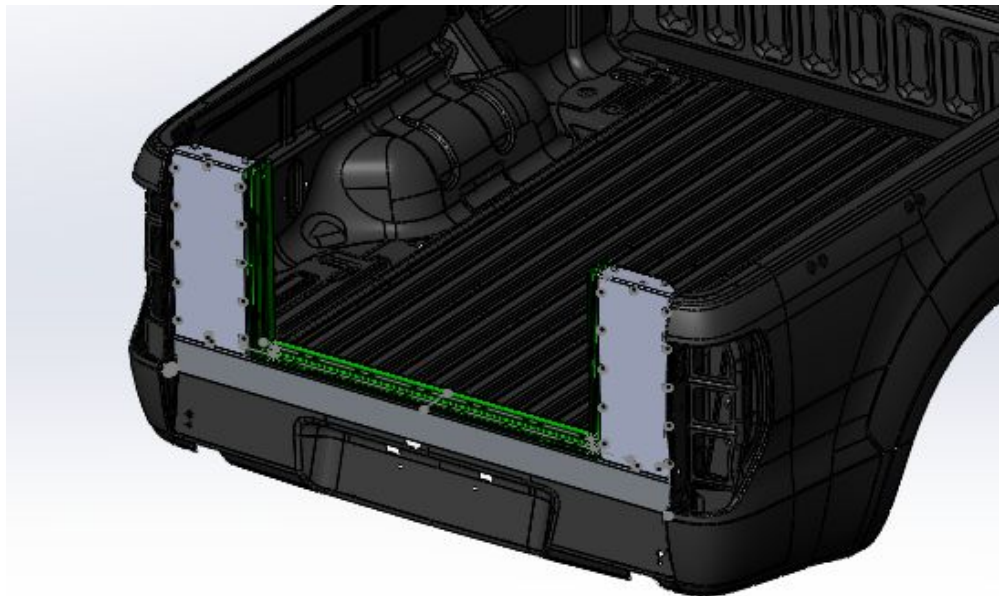
Fit lower door frame to filler panel assembly as shown:



Installation Instructions

3.1

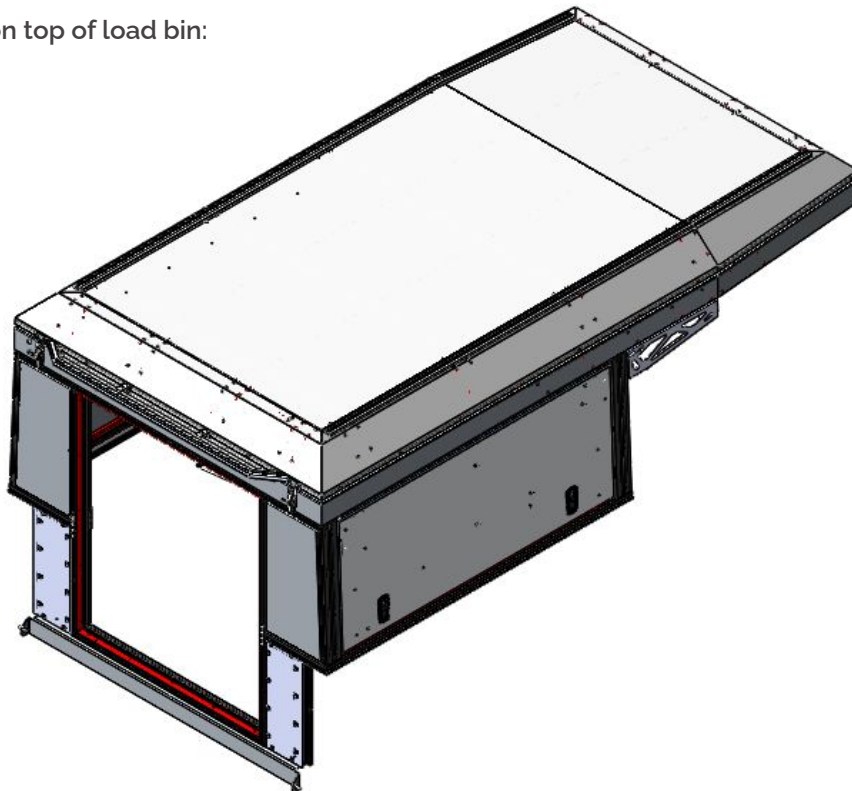
Mount filler panel assembly to load bin as shown:



Installation Instructions

3.2

Mount canopy camper base unit on top of load bin:



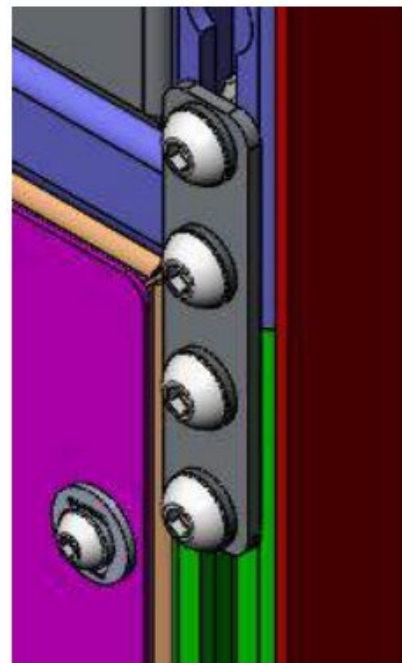
Installation Instructions



Installation Instructions

4

Connect rear filler panel assembly and base unit as shown:

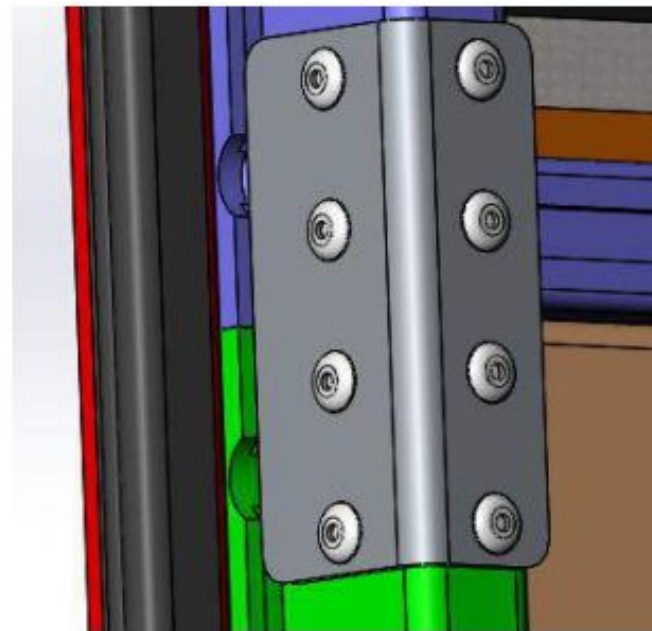
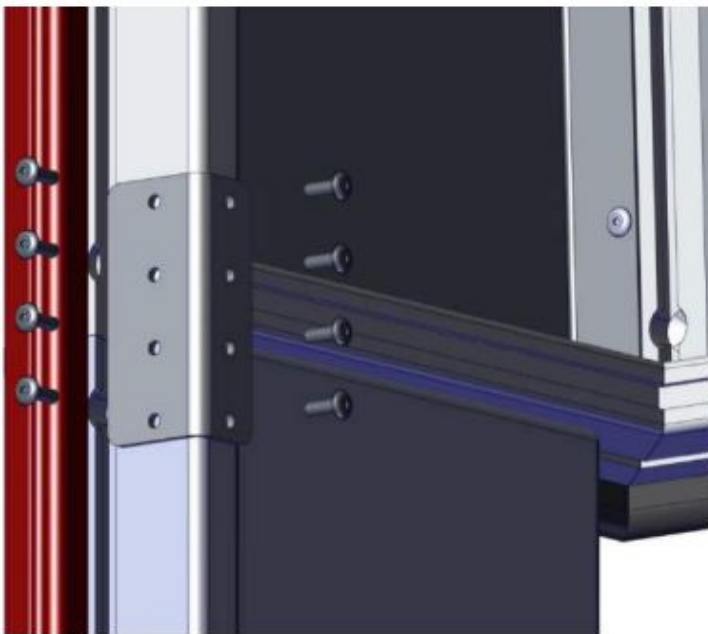


OUTER MOUNTING ON BOTH JOINTS

Installation Instructions

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Connect rear filler panel assembly and base unit as shown:



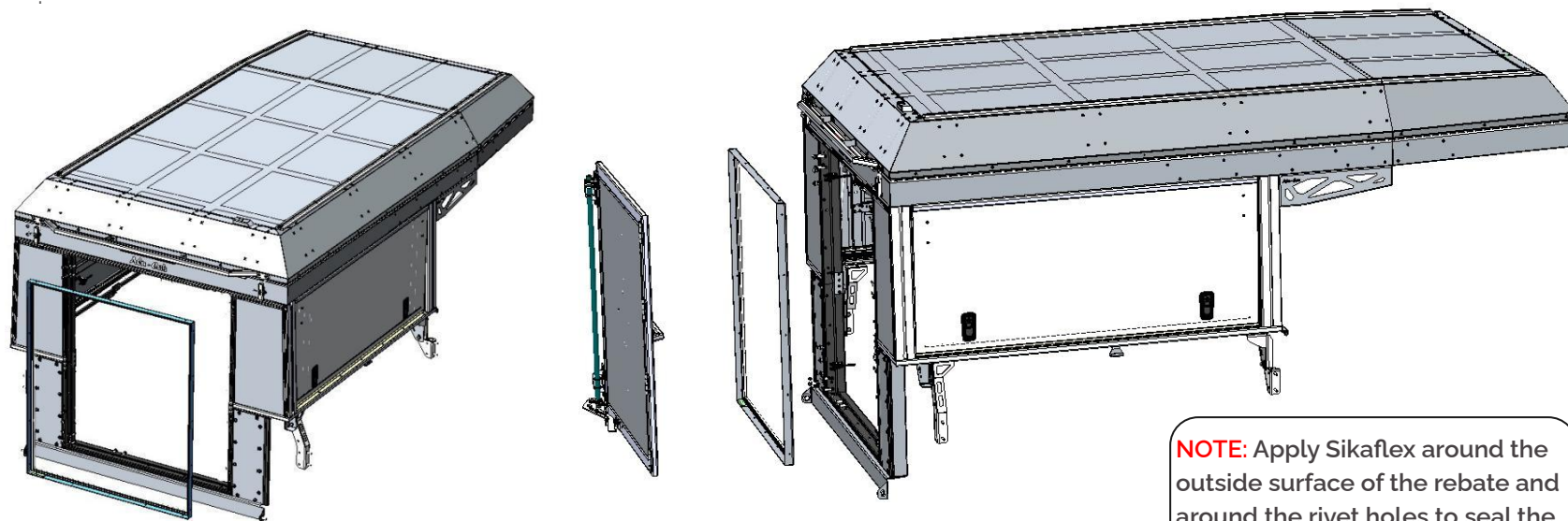
INNER MOUNTING ON BOTH JOINTS

Installation Instructions

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Rebate and Door Assembly:

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

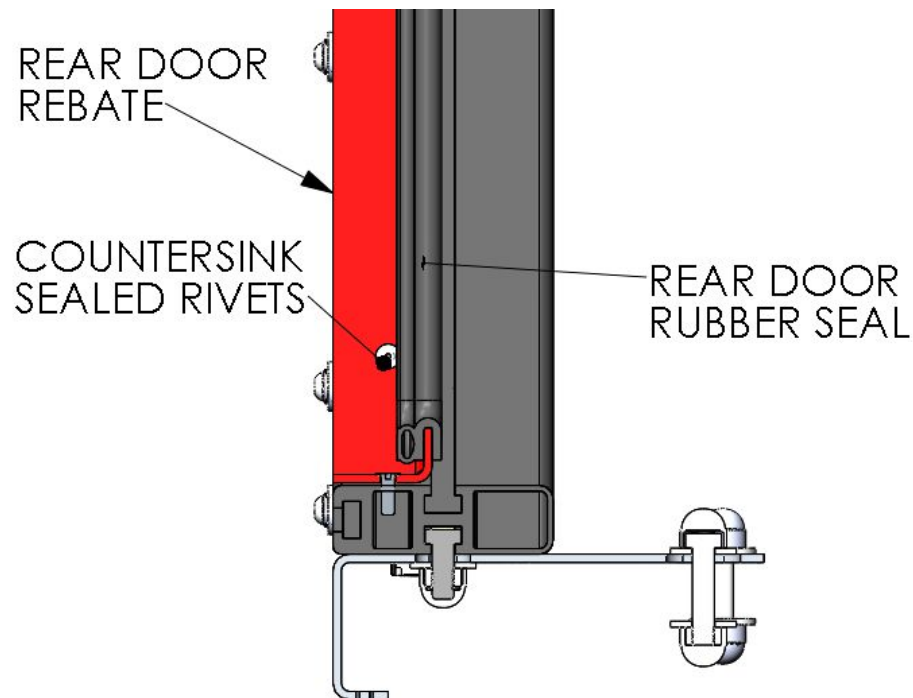


NOTE: Apply Sikaflex around the outside surface of the rebate and around the rivet holes to seal the rebate.

Installation Instructions

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Rebate and Door Assembly:

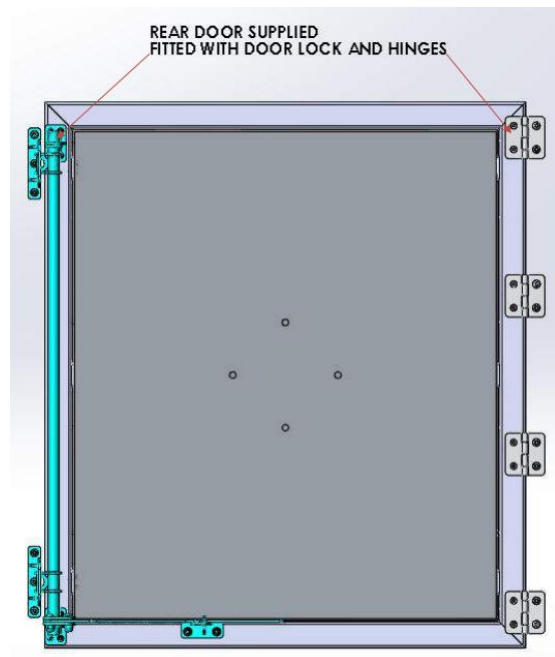


Installation Instructions

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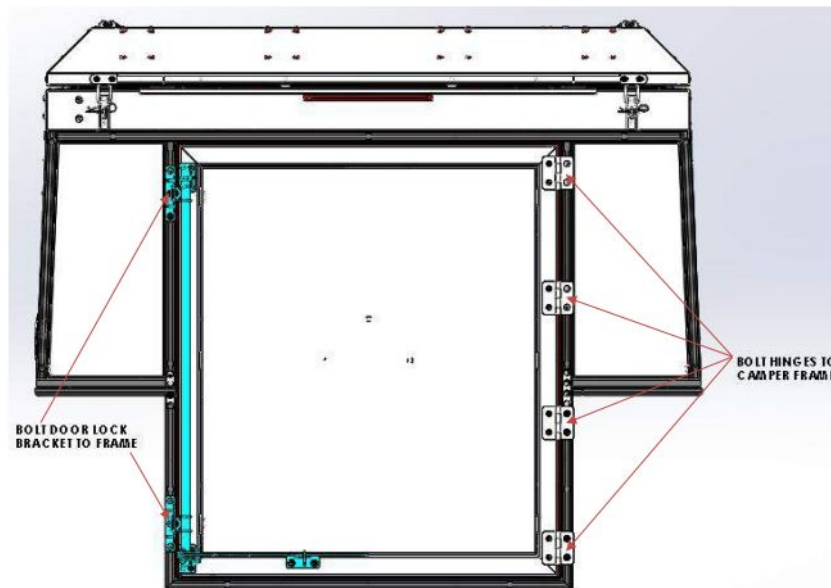
Rear door mounting:

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.



7

Attach hinges and lock to camper frame:

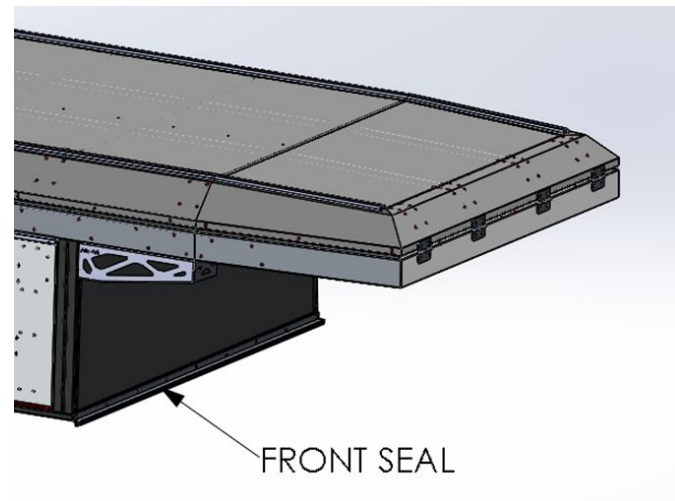
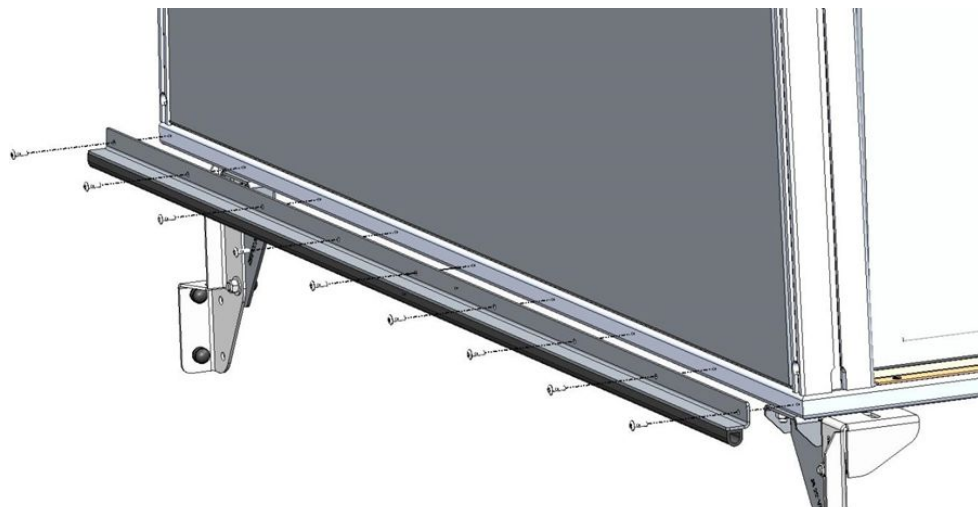


Installation Instructions

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Front Angle Seal (Double Cab only):

Fit the front seal to canopy camper frame:

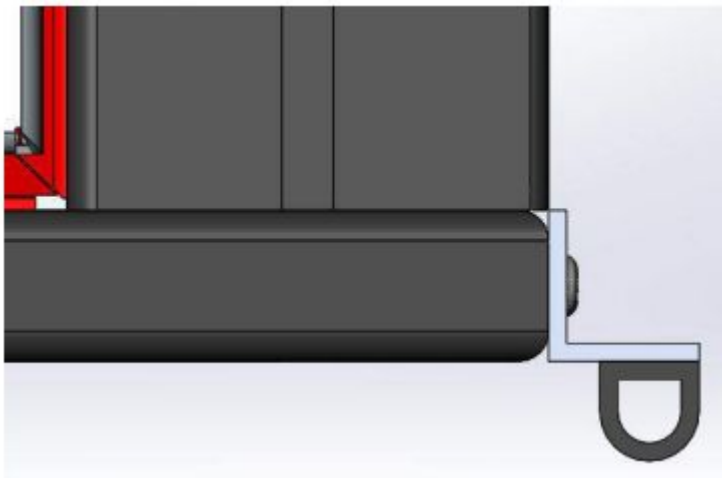


Installation Instructions

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Front Angle Seal (Double Cab only):

Fit the front seal to canopy camper frame:



NOTE: THE FITTING OF THE FRONT SEAL IS APPLICABLE TO DOUBLE CAB VEHICLES ONLY AND NOT EXTRA CAB

Installation Instructions

9

Bottom mount

Hardware Supplied:

| PART NUMBER | DESCRIPTION | MATERIAL | QTY. |
|--------------------------------|----------------------------|--------------------------|------|
| REVO-RER-RISER-PLT-LH-01-00 | REAR RISER PLATE LH | Mild Steel (3mm) | 2 |
| REVO-RER-GUSS-LH-01-00 | GUSSET PLATE | Mild Steel (3mm) | 2 |
| M8x25 Hex Head Bolt | Hex Head Bolt | Material <not specified> | 8 |
| 483-080 | SPRING WASHER - M8 | AISI 304 | 8 |
| DIN 125A M8 Flat Washer | Flat Washer | AISI 316 | 8 |
| M8 Nut Cap | NUT CAP | PE Low/Medium Density | 8 |
| REVO-RER-RISER-PLT-RH-01-00 | REAR RH RISER | Mild Steel (3mm) | 2 |
| REVO-RER-GUSS-RH-01-00 | GUSSET PLATE | Mild Steel (3mm) | 2 |
| 162-REVO-FNT-LH-MNT-BRKT-01-00 | FRONT LH MOUNT BRACKET | AISI 304 (3mm) | 1 |
| 162-REVO-FNT-RH-MNT-BRKT-01-00 | FRONT MOUNT BRACKET RH | AISI 304 (3mm) | 1 |
| DIN 933 M8x20 Hex Head Bolt | Hex Head Bolt | AISI 316 | 12 |
| DIN 9021 M8x24 Flat Washer | Oversized Flat Washer | AISI 316 | 14 |
| ISO 7040 M8 Nyloc Nut | Nyloc Nut | AISI 316 | 12 |
| M8 Nut Cap | NUT CAP | PE Low/Medium Density | 12 |
| 162-REVO-RER-LH-MNT-BRKT-01-00 | REVO REAR LH MOUNT BRACKET | AISI 304 (3mm) | 1 |
| 162-REVO-RER-RH-MNT-BRKT-01-00 | REAR RH MOUNT BRACKET | AISI 304 (3mm) | 1 |
| DIN 125A M8 Flat Washer | Flat Washer | AISI 316 | 4 |

Installation Instructions

10.1

Fitting the Canopy Camper Mounting Brackets:

Place and align the Canopy Camper on the Vehicle load bin.:

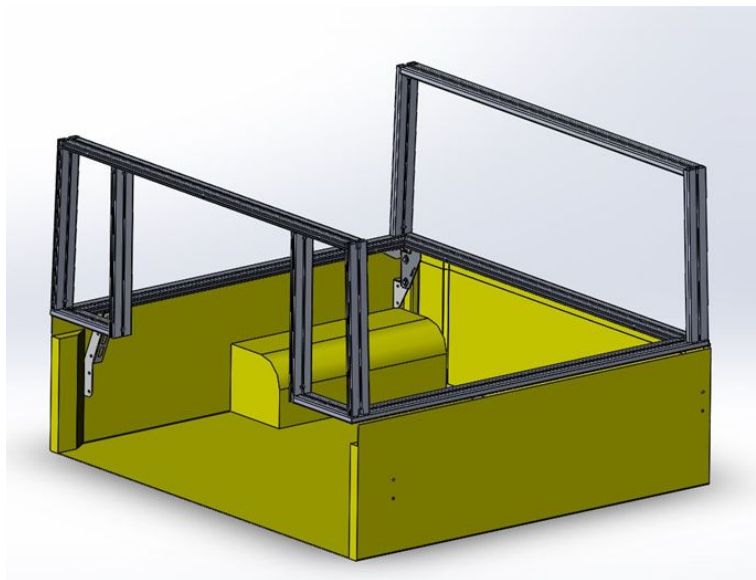


Figure 1: Canopy Camper Aligned with Load Bin



Note: When placing the canopy, ensure that there is enough clearance between the canopy and the cab so that there is no contact when vehicle flexes or moves.

Installation Instructions

10.2

Rear mounting Brackets:

Mount the Revo Rear LH Riser Bracket Assembly to the existing holes in the Load bin, as shown in the images below.

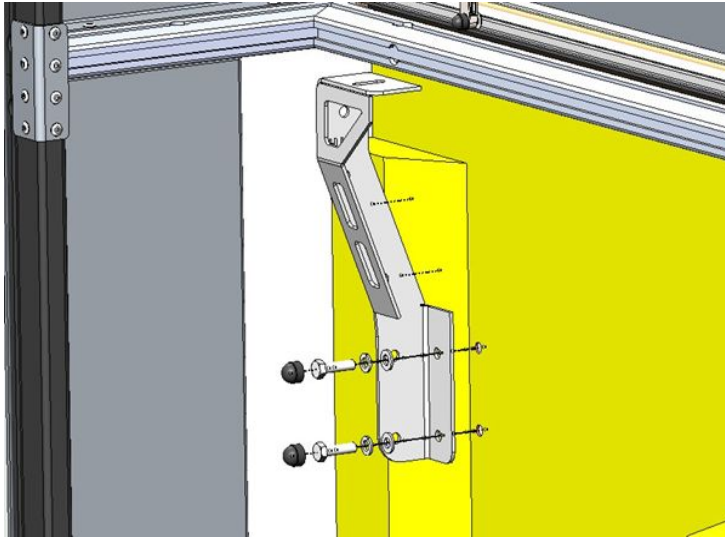


Figure 2: Position Rear Riser Bracket and fasten with M8x30 hex head bolts, washers, nyloc nuts and nut cap over existing holes. Spring Washers on top of the Flat Washer and finish off places the nut caps on the hex bolts

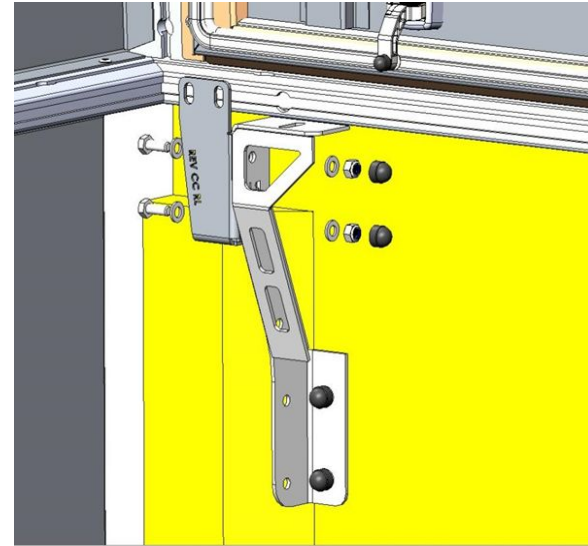


Figure 3: Top Rear Mount Bracket positioned with M8x20 hex head bolts, washers, nyloc nuts and nut caps.

Installation Instructions

10.3

Rear mounting Brackets:

Slide 2x M8x20 hex bolts into nut slot on the camper frame and fasten the brackets to the frame of the camper.

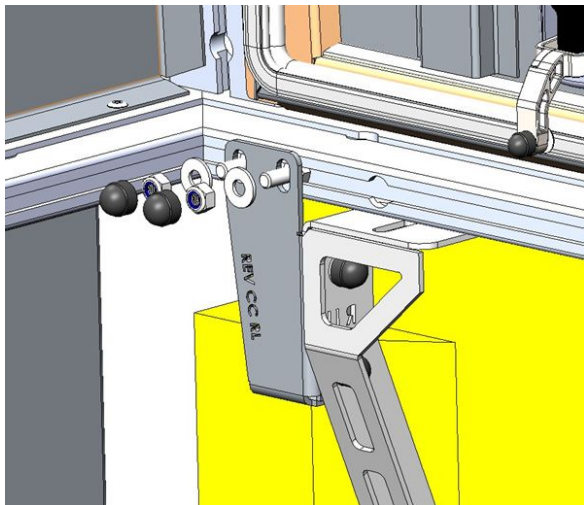


Figure 4: Position the Rear Mounting Bracket over the inserted Hex Bolt and fasten with a Washer and Nyloc Nut

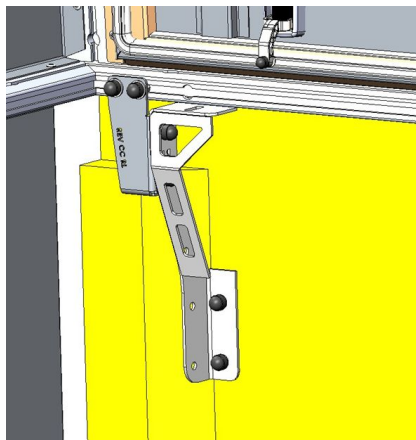


Figure 5: End result left hand side



Figure 6: End result right hand side

Installation Instructions

10.4

Front mounting Brackets: **(NOTE - Double Cab specific)**

Installing the Front Mounting Bracket to the Canopy Camper

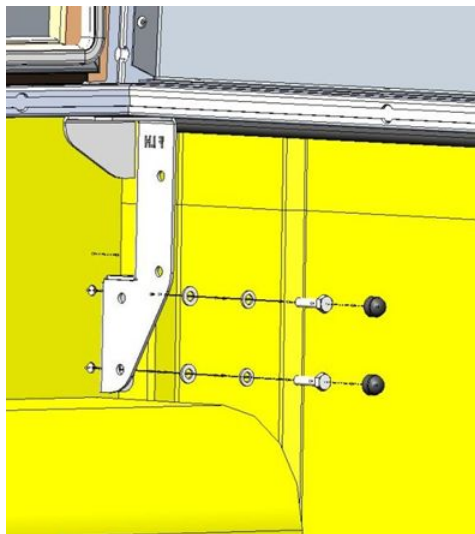


Figure 7: Position Front Riser Brackets over the mounting holes on the load bin and fasten with 2x M8x30 Hex bolts, washers, nyloc nuts and nut caps.

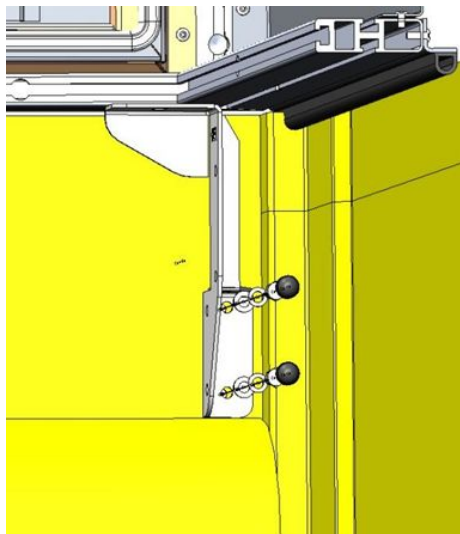


Figure 8: Slide 2x M8x20 hex bolts into nut slot on the camper frame

Installation Instructions

10.4

Front mounting Brackets: (**NOTE** - Double Cab specific)

Installing the Rear Mounting Bracket to the Canopy Camper

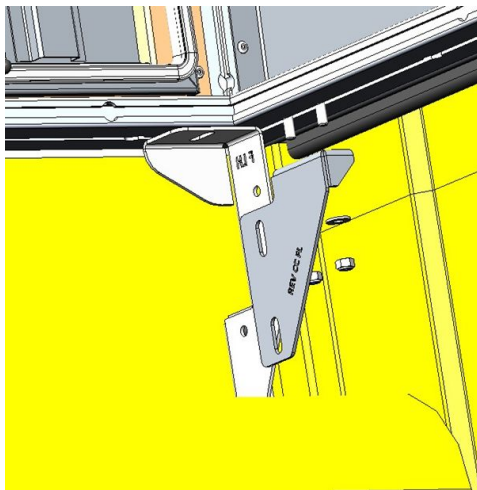


Figure 9: Position the Front Mounting Bracket over the inserted Hex Bolts and fasten with supplied washers and nuts

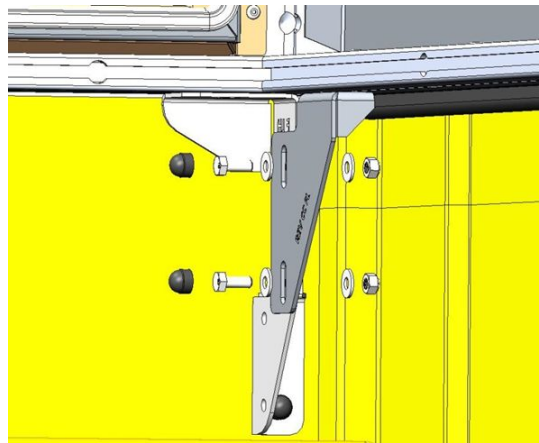


Figure 10: Fasten the tow brackets with M8x20 hex bolts, washers, nyloc nuts and nut caps

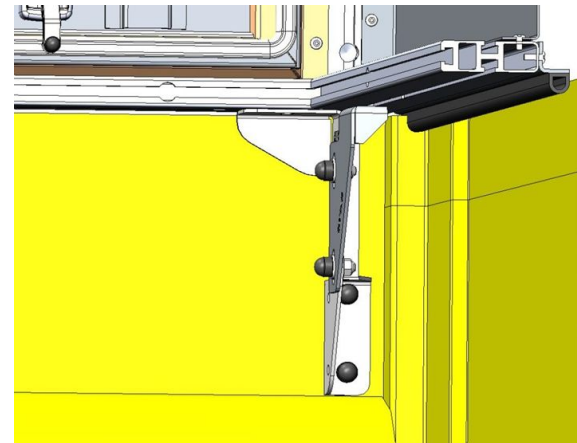


Figure 11: End result

Installation Instructions

10.5

Front mounting Brackets: (**NOTE** - Extra Cab specific)

Installing the Rear Mounting Bracket to the Canopy Camper

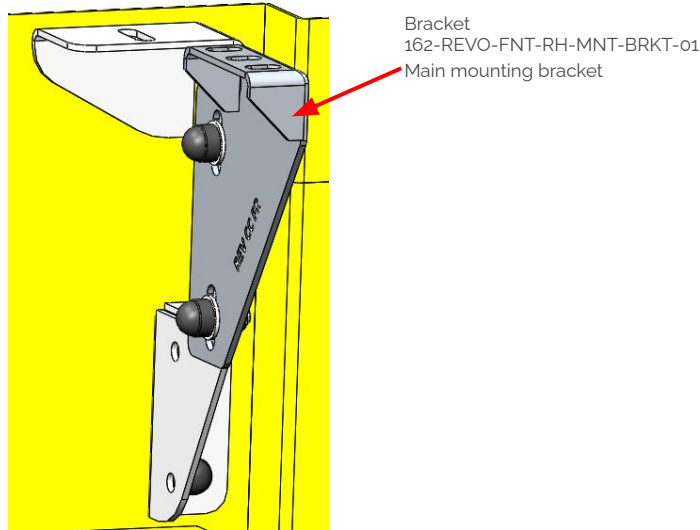


Figure 12: Reverse the main mounting brackets - Use the bracket labeled "Front Left" on the right side of the vehicle, and the bracket labeled "Front Right" on the left side of the vehicle"

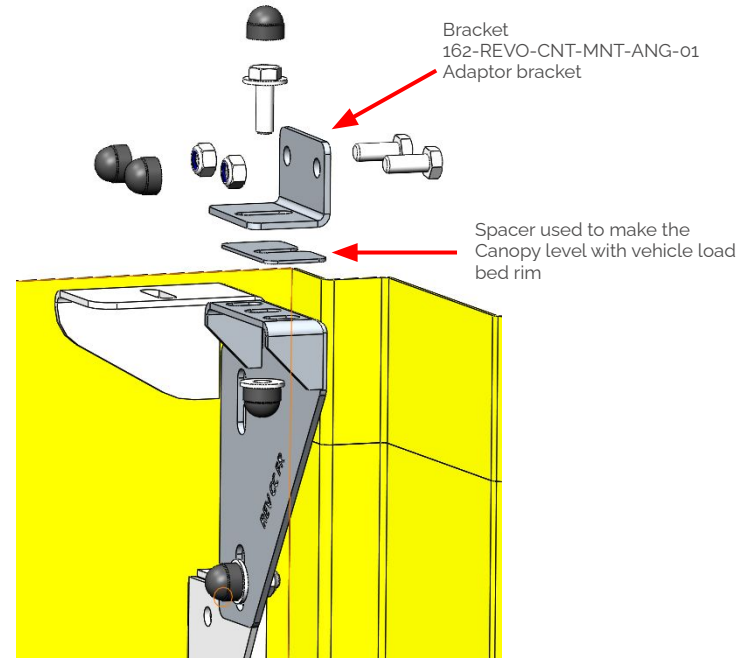
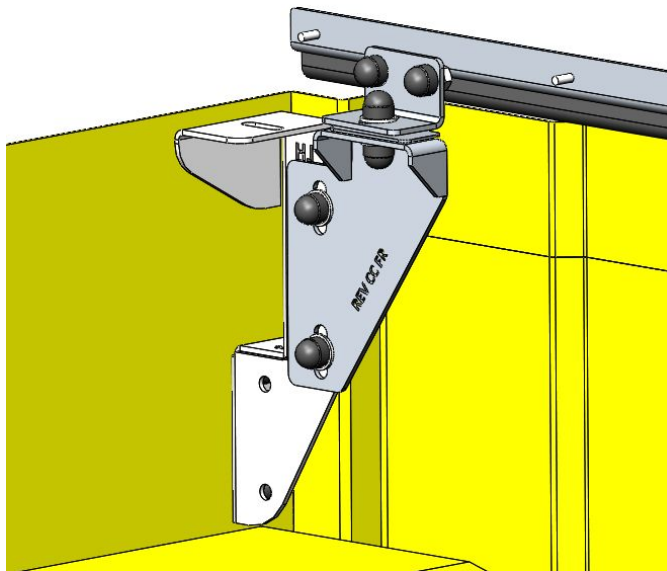
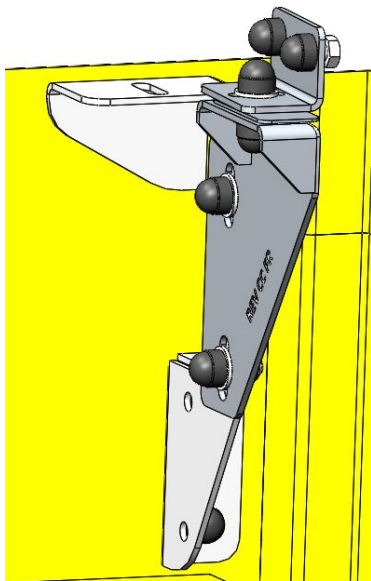


Figure 13: Feed two M8x20 hex bolts into the canopy nut rail. Mount adapter bracket to main bracket, add nuts to the nut rail bolts and then tighten when in place.

Installation Instructions

10.5

Front mounting Brackets: (**NOTE** - Extra Cab specific)



End result



Installation Instructions

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Centre Mounting Brackets:

Hardware supplied

| ITEM NO. | PART NUMBER | DESCRIPTION | MATERIAL | QTY. |
|----------|-------------------------|----------------------|----------------|------|
| 1 | CMB-000-002 | BOTTOM CLAMP BRACKET | AISI 304 (3mm) | 1 |
| 2 | DIN 125A M8 Flat Washer | Flat Washer | AISI 316 | 1 |
| 3 | ISO 7040 M8 Nyloc Nut | Nyloc Nut | AISI 316 | 1 |
| 4 | M8x80 Hex Head Bolt | Hex Head Bolt | AISI 316 | 1 |

Installation Instructions

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Centre Mounting Brackets:

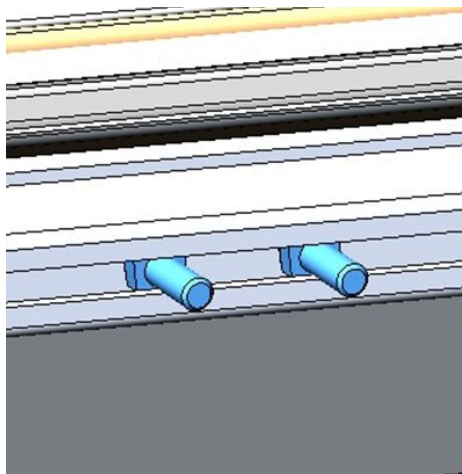


Figure 14: Slide 2x M8x20 hex head bolts into the nut slot frame on side of canopy

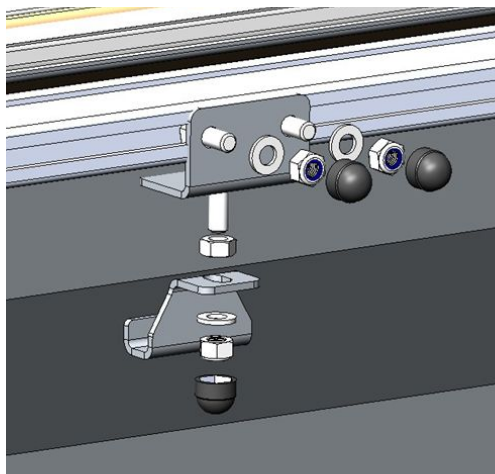


Figure 15: Position the angle bracket over the bolts and fasten using the accommodating washers, nyloc nuts and nut caps. Attach the hook bracket to the underside of the load bin lip and fasten it to the angle bracket using a M8x25 hex head bolt, washers, nylock nut and nut cap.



Figure 16: End result

13

Repeat these steps for the other side of the Canopy Camper and Load Bin:

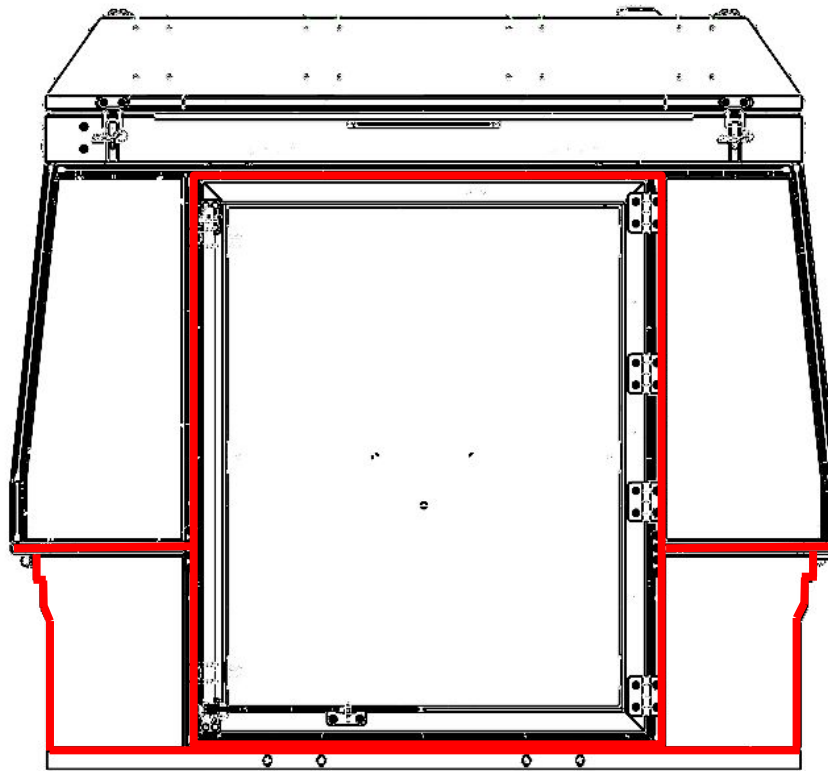
Installation Instructions

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Sealing canopy to base:

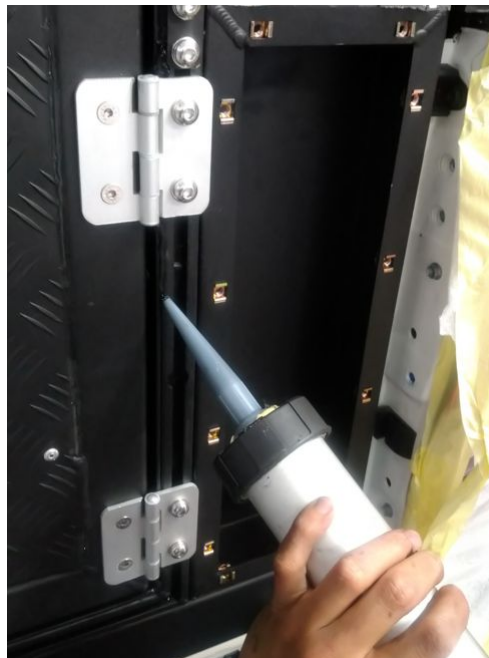
Use Sikaflex where there are shut / joining lines between parts that are not welded

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



Installation Instructions

- 13 Sealing canopy to base:
Use Sikaflex where there are shut / joining lines between parts that are not welded



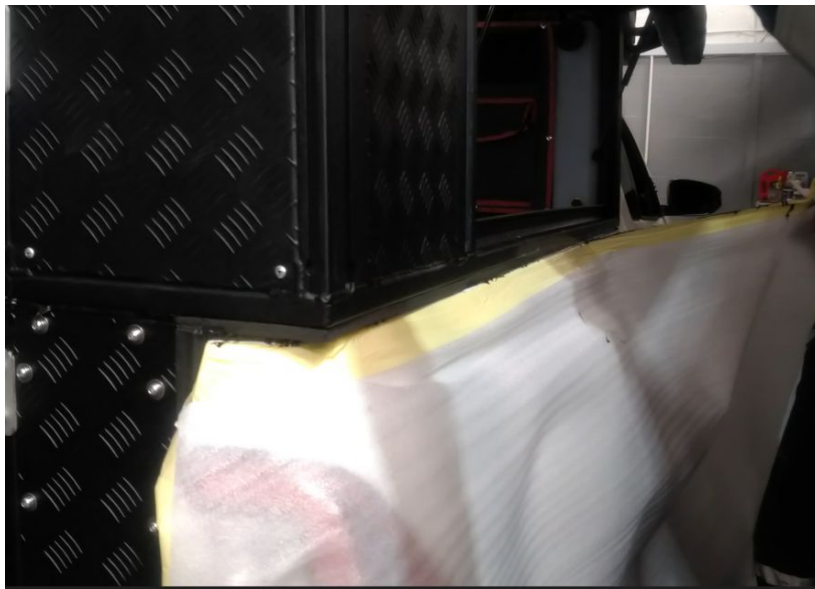
Dip one's finger into soapy water and smooth over the sealant by gently running a finger over the bead.

Installation Instructions

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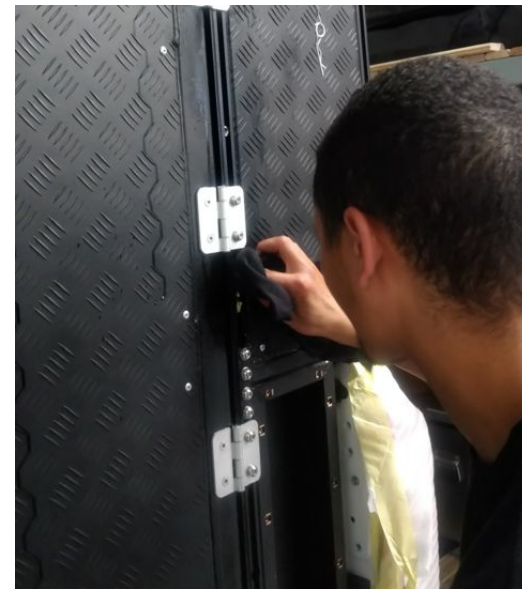
OPTIONAL Sealing canopy to vehicle body:

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

Installation Instructions

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Allowing Sealant to Cure:

The Sikaflex takes 24 hours to cure, try and move the vehicle as little as possible during this time. Once the curing has been completed do a final inspection of the vehicle.

If everything is in order you have successfully completed the installation of an Alu-Cab Canopy Camper to your vehicle.

Well done!!

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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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