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JKU

Jeep



Installation Instructions

Note: Glass EmuWings

Remove the handles from the wing panel & upon reassembling, use some loctite on all threads (nuts & screws) to prevent them loosening over time.

Parts List

Frame	Foam Seal, Gas Strut Mounts and Striker Plates attached
Door Panel	Handles attached
Hinges	Assembled With face plates and strut mounts
Support Brackets	
Weather Strip	
Pinch Weld Rubber	
Glue	310ml Sikaflex 291
Gas Struts	
Bag of bolts	4mm steel bolts, washers and Nylocs. 6mm nuts and washers Pan Head bolts
Instructions, Stickers & Flyer	

Tools Required

*Optional

Allen Keys	4mm and 2.5mm
Small Flat Bladed Screwdriver	
Philips screwdriver	
Clamps	
Spanners	7mm, 10mm and 27mm
Caulking/Glue Gun	
Rags	
*Chalk Pen	
Cleaning Fluid	To remove wax and grease from surfaces

These instructions detail the installation of your new EmuWing(s). Allow 1 - 2 hours to fit (excluding curing time.) Read the instructions thoroughly before starting.

Important information:

Handles

Please note the following:

When reassembling your EmuWing, you **must** use some Loctite on the threads and screws to prevent them loosening.

Failure to do so may result in loss of the handle and lock and will not be covered under the warranty and any replacement will need to be purchased.

Glass

Remove the handles from the wing panel & upon reassembling, use some Loctite on the threads of all nuts & screws to prevent them loosening over time.

E.g., Remove handles, tint panel, reassemble handles using lock tight on all nut & screw threads.

Failure to do so may result in loss of the handle and lock and will not be covered under the warranty and any replacement will need to be purchased.

Installation

To watch a video of EmuWings being installed, go to:

https://emuwing.com.au/installation_docs_instal_videos.html

Warranty

Twelve months replacement warranty on faulty parts upon correct installation. Parts will not be covered under warranty if the EmuWing has been incorrectly installed.

You may also need to bend the cams on the door locks to compress the bottom part of the rubber seal. To do this, remove the cam by taking the screw out from the back of the handle. Put the cam into a vice so that any bend is applied away from the square hole – do not distort or bend this part of the cam. Bend slightly & then retest until the correct rubber compression is achieved. When reinstalling the cam use some thread locker to avoid losing handles & locks.

***Do not open the Wing as this will cause the rubber to roll & possibly not adhere.** If they are not already, carefully close the door handles & lock the Wings. They need to be left alone for a few hours to allow the rubber to set - preferably in a warm spot. The glue is heat activated. Leave the car in the sun to activate the 3M glue on the back of the weather seal. Ensure it gets some heat into the panel – leave the wing closed for Approx.. 24 hours while the glue on the weather seal sets – (depending on the climate).

Optional:
The striker plates supplied can be glued to the inside of your canopy to prevent the cams rubbing on the body of the vehicle. Use the supplied glue to attach the striker plates in place.

Time to enjoy the ultimate in vehicle access – your EmuWings!

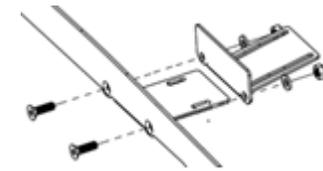
Safe travelling!

1: Fixing the frame.

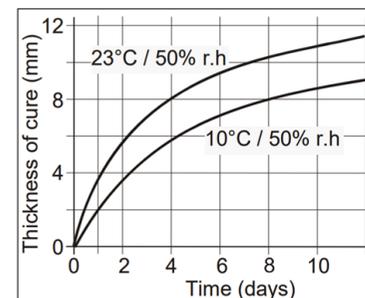
Once the window is removed, thoroughly clean around the opening. Before applying glue, surfaces must be clean, dry & free from all traces of grease, oil & dust. Apply an even bead of glue around the opening paying **particular attention** to corners increasing the bead enough to fill any high spots between the body of the vehicle & the frame. Ensure there are no gaps in the bead & it is applied evenly. Get clamps & place them close by, you will need them as you place the frame into position.

Carefully place the frame on the glue. Secure the frame in place with clamps. Once secured, you can adjust the frame so it is centrally located with an **even gap** around the outside edges.

Attach support brackets to the frame. (Carefully roll back rubber to get the Allen key into bolt. Press firmly back in place). Once the nuts are on the bolts, the frame needs to be adjusted up so the bolts touch the body of the vehicle. Ensure the gaps on either side of the frame are close to equal. The nuts on the support brackets can be tightened to provide additional support but only until light pressure is achieved on the glue. These can be tightened once it has dried.



Once the frame is in place, apply the rest of the clamps - paying attention to the corners & leave to dry for **at least 24 hours**. Whilst the glue is wet & the frame is clamped, carefully clean up any excess glue from around the frame.



DO NOT proceed with fitting any hardware to the frame until the glue has set & the frame is securely in place.

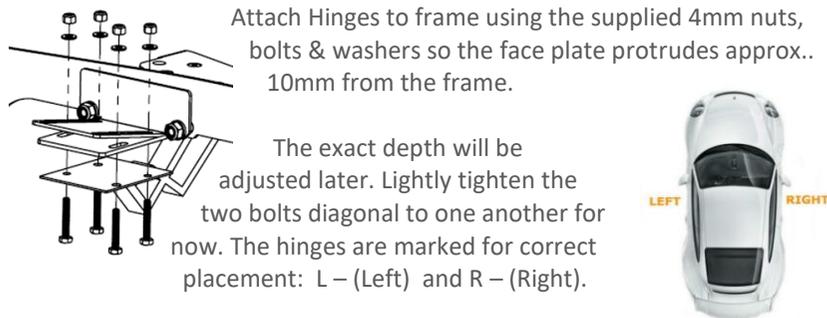
*Chart 1.

2: Attaching the wing panel.

Work carefully at this point as the glue may not be fully cured,
See *Chart 1, page 1.

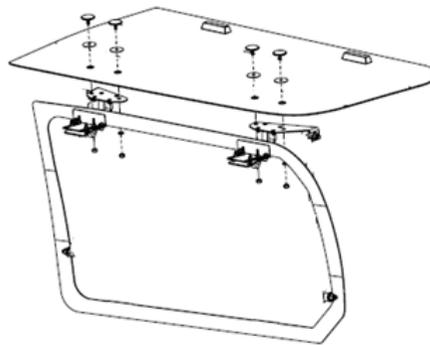
Tighten support brackets; they only need enough pressure to gently clamp the body. Do not over tighten these bolts.

Ensure the two bolts are evenly tightened so the slots in the two brackets align.



When the hinges are in the closed position, place the door panel centrally; we suggest using a spacer at the bottom of the door panel to lift it up slightly so that the panel is aligned correctly with the handles in the closed position.

Placing Pan Head bolts on the outside of the Wing panel; fit a washer & nut on the inside.



Once all four pan heads are in place loosely, the panel can be adjusted so it sits centrally.

NOTE: when the gas struts are attached, the hinges will compress approx. 2mm so allow for this when adjusting.

The depth of the door can be adjusted later, once the seal has been attached.

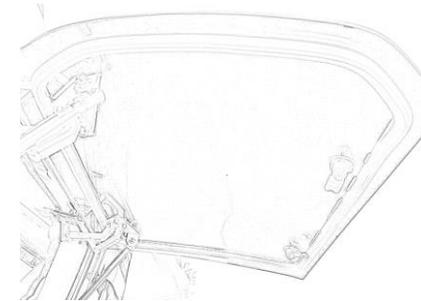
3: Adjusting Wing panel & fitting seal

Once the Wing panel is in correct position, check everything is tight & attach gas struts.

If Wing panel is correctly aligned the weather seal can be attached to the inside, otherwise note any adjustments & **remove the gas struts** before making any adjustments.

Once you are happy with the alignment, carefully mark inside the Wing panel around the inside edge of the frame - chalk pens are great for this.

Once Wing is marked, the weather seal can be attached to the Wing **following outside of the marked lines**, so the seal will line up with the foam rubber on the frame (if the seal does not align correctly moisture and dust will find its way into the back of the vehicle).



Once the weather seal is in place, close the Wing panel & check the depth to ensure it compresses the rubber seal.

To adjust the depth & compress the seal, disconnect the gas struts. Loosen the hinges from the top supports, apply pressure evenly to the top edge of the Wing until you see the rubber behind compress slightly. Holding this pressure, re-tighten the bolts. At this stage the other nuts & bolts can be tightened.