

FITMENT INSTRUCTIONS

Alu-CabTM



Icarus Roof Conversion to suit Land Rover Defender 110

All rights reserved. No part of this document may be reproduced, translated, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the owner.

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.

DISCLAIMER

Alu-Cab

1. Icarus roof conversion Fitment – Tools, Fasteners & Materials

The tables below show the equipment, i.e. tools and fasteners required to start the Icarus roof conversion fitment onto a Land Rover.

1.1. Tools & Items Required:

TOOLS	ITEM
Ratchet	Turpentine
13mm Socket	Cloth
13mm Ring Flat Spanner	Black sealant, silicone or Sikaflex
Drill	
Drill Bit Ø6.5mm	
Light wight mallet	
10mm Ring flat spanner	
17mm ring flat spanner	
6mm Allen key	
Small quick grip	
Stanley knife/ box cutter	

1.2 Fasteners supplied: (Included with Icarus)

ITEM	QTY
6x60 Button Head Screws	5
6x25 Button Head Screws	30
M6 Nylock nuts	35
M6 Flat Washers	42
M6 Spring Washers	42
Ø4.8x15 black Rivets	34

1.3 Hardware Required: (Included with Icarus)

ITEM	DESCRIPTION	QTY
19x19x3 Alu Angle	internal trim piece 1 - RHS	1
19x19x3 Alu Angle	internal trim piece 1 - LHS	1
19x19x3 Alu Angle	internal trim piece 2 - RHS	1
19x19x3 Alu Angle	internal trim piece 2 - LHS	1
Internal trim carpet RHS	-	1
Internal trim carpet LHS	-	1
Icarus roof conversion	-	1
Helpers shock brackets	1 LHS & 1 RHS	2
Shocks	150 N 450 mm long	2
Spring poles	1100 mm long	2

**IMPORTANT
NOTICE**



It is important to check for any leaks that may be occurring through the roof or door areas, before starting the roof conversion. This will ensure that you are aware of problem areas that may arise when the roof conversion is completed.



STEP 1 :

Once you've checked the vehicle for any leaks, you can then set about preparing the vehicle by covering any areas inside the vehicle that may be susceptible to damage when removing the roof. Once all the parts are covered you can begin stripping the interior roof linings, seat belt mounts , and anything that may be attached or affected by the fact that you are about to remove the roof.

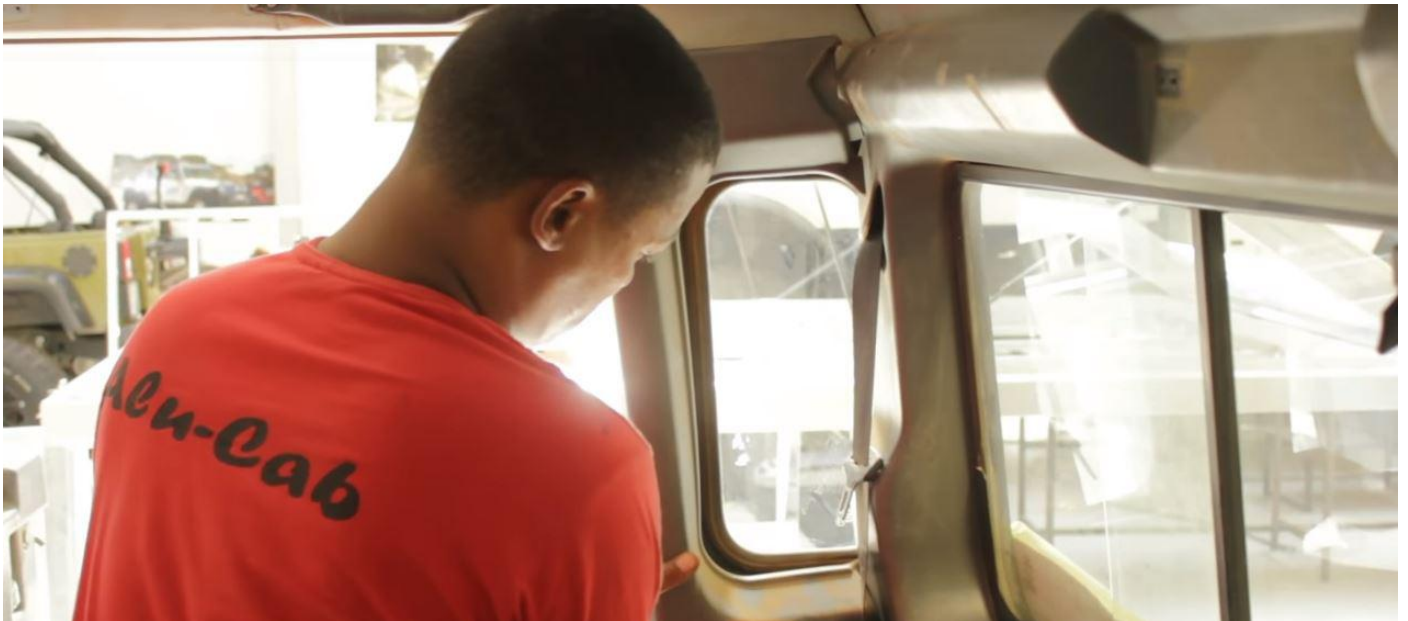


WARNING

Always wear appropriate PPE (Personal protection equipment) when fitting this product. 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.

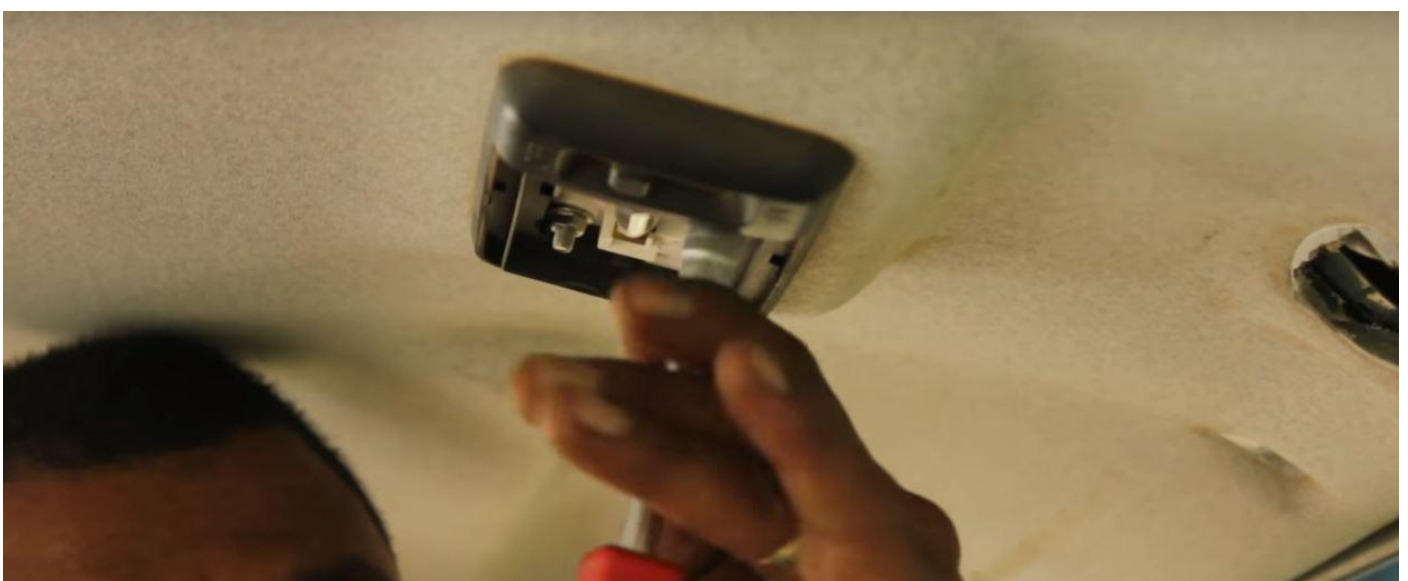
STEP 2 :

Be sure that when removing all interior window linings, sun visors, mirror mounts etc, that you store them in a safe place, as some of these parts will be re-installed during the installation of the Icarus roof conversion.



STEP 3 :

One needs to be sure that you strip all existing wiring to the existing roof as well as water lines that run to the back of the window washer, and plug points that may be attached to rear wiring.



STEP 4 :

You will have to cut the line to the rear plug as the loom will not slide out the existing roof and rejoin it when the new roof is into position.



STEP 5 :

You can then set about the tedious task of loosening all the bolts that bolt the roof down to the A-frame, A-pillar, B-pillars and some of the gutter lengths that run down the vehicle's length.



STEP 6 :

You will then need to cut the glue line that joins the windscreen frame to the roof. Be cautious when doing so, as it is a thick strong layer of glue that bonds the roof to the window frame. Use a carpet knife, or Stanley knife, as some may know it. Be careful not to damage the paint on the windscreen frame.



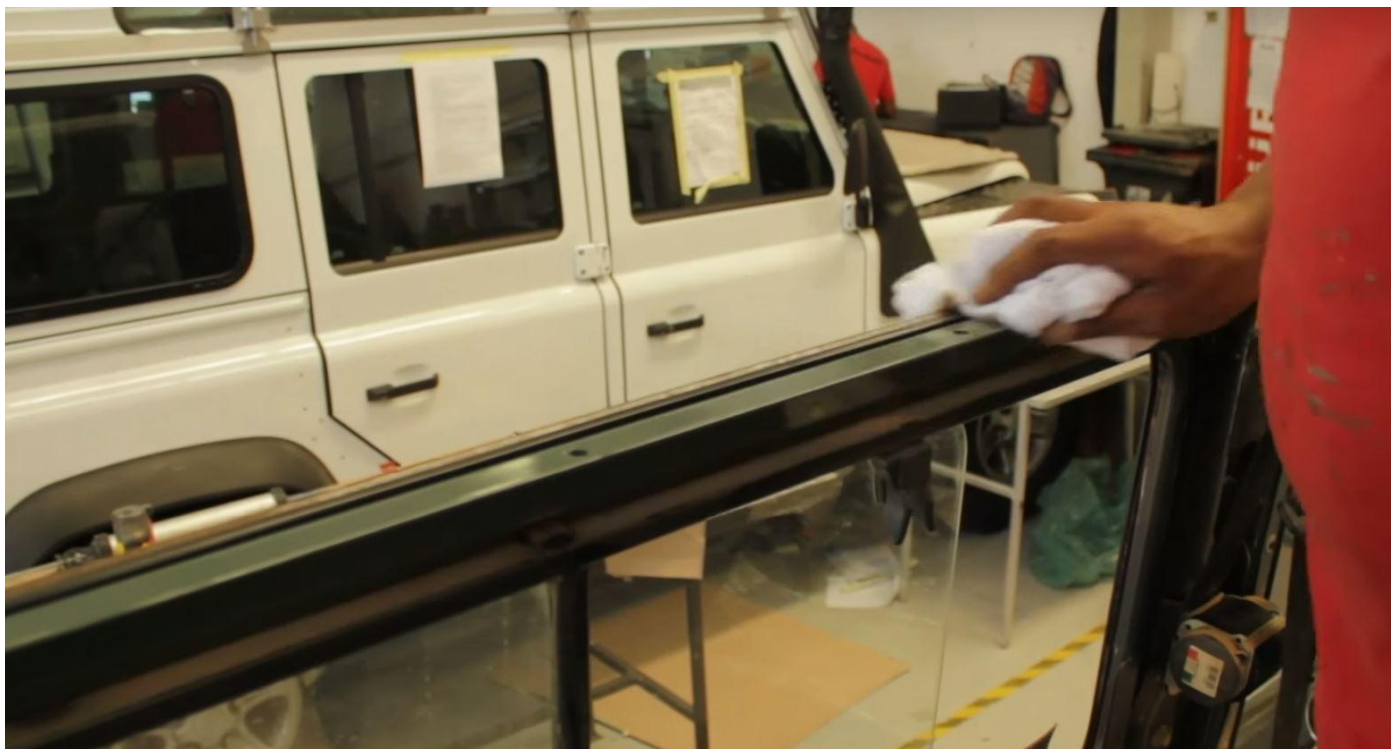
STEP 7 :

Once the glue line is cut, you will have to force the roof upwards and away from the last part of binding glue. With the help of others, or machinery, you may remove the roof from the vehicle.



STEP 8 :

Now you will have to set about cleaning the remaining glue that sits on top of the vehicle frame where the roof was removed.



STEP 9 :

You will then need to place the new Icarus Roof Conversion into position, where the old OEM roof once was. Make sure it is seating correctly, and ensuring all the corners are squared up, and in the right position for you to start marking up the drilling holes.





Mark and drill all your holes, in the Icarus Roof Conversion, using the existing holes in the mounting flange as reference for location and size. After this, you can drop your bolts in the front end to be sure that you are in the right position and that the back end is ready to drill.

Once drilling is complete and you are satisfied that you've marked and drilled all your holes, you can then remove the roof conversion in order to cleanup and prep with glue/bonding adhesive before final fitment.

STEP 10 :

Apply the bonding adhesive to the top edges, where the new roof conversion will seat down and seal in position.



In the windscreen area, be sure to apply at least 3 layers of bonding adhesive to help to prevent the chance of wind or water blowing through between the roof and windscreen area.



It is very important that when lowering the Icarus Roof Conversion into position, that you make sure that you try and land the square positions as close as possible, in order to prevent messing due to having to shift the roof around to try and locate into the correct position.

STEP 11 :

Once you are certain the Icarus Roof Conversion is now in the correct position, you can start bolting the roof conversion to the body. While bolting down the roof you can also set about replacing the door seals and checking if all doors are fitting correctly and that they are all lining up as they should.



You will notice that there is no angle plate or aluminum for you to mount the door seals at the top of the door on the front 2 doors. These angles we supply separately. You will need to drill these into position, and apply bonding adhesive behind the plates.



Once you have fitted the Icarus Roof Conversion, you can align the rubber door seal mount with the existing Land Rover's door seal mount area.



STEP 12 :

Now you can set about installing your map shelf and sun visors. This should be simple as you have pre-drilled the holes, so it should easily bolt into position.



It is important to drill up at the front area where the sun visor will mount, using the existing holes from the sun visor. We recommend using a 7mm hole which will help to allow you to mount the roof console when fitting the final parts.

STEP 13 :

At the rear end there are 2 helper shocks which drop into steel brackets. The bracket hole tabs should be aligned with the base of the Icarus Roof Conversion (As shown below). You need to bolt these into position first, and then use the other tab holes, as reference for drilling.



STEP 14 :

Once you've completed bolting down your Icarus Roof Conversion, you can now bolt in the internal panels that close off the roof conversion and give it a nice finished look.



You have now basically finished the installation and have to put back the original plastics and panels that have been removed. Some may require trimming where they do not line up 100% with the new conversion.



By now you should have successfully fitted your

Land Rover Icarus Roof Conversion.

All that's left to do is pull the vehicle outside, pop open your new roof, fit the spring poles and see how well your new roof conversion works.



Should you experience any problems, please contact us so that we can assist you.

Enquiries: queries@alu-cab.co.za
Tel: +27 21 703 3028