



ZENIT SKYLIGHT INSTALLATION SEQUENCE GUIDE

PLEASE NOTE that this information material only shows the main elements of the workflow process!

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Universal car skylight



Renault Zoe electric car

You will find our video presentation in our website or simply by scanning this QR code:



2024 Edition 1



Carton contents:



Upper part: Skylight upper frame with glass, seal, and opening mechanism; Hardtop template; Adhesive sponge gasket;

Intermediate part: 4 upholstery linings;

Lower part: Skylight lower clamping frame; Decorative lower cover frame; Upholstery template; U-profile for the lower frame; Set of retaining bolts for the lower clamp frame; 4 Snap fasteners for the decorative cover frame.

Please note that the templates made in the printing house may slip aside minimally during printing, so it is important to take accurate measurements several times when preparing for their installation!

Necessary tools and equipment:



- **electric cutting machine with metal disc** → if there is a stay plate crosswise under the hardtop and it must be cut
- **electric hot air blower** → if there is a dehumidifier under the roof or stay plates, rubber sheets, etc. are glued onto the inner surface of the hardtop
- **spatula** → if there is a dehumidifier under the roof or stay plates, rubber sheets, etc. are glued onto the inner surface of the hardtop
- **rag** → sweep away sheet debris after cutting (the remainder may scratch the roof paint)
- **clean cloth and cleaning agent with spray head** → to clean the surface around the cut
- **silicon spray** → to protect the plastic seal of the upper frame
- **seat cover** → to protect the seats during assembly

- **electric sheet metal shears** → to do precise cutting on the hardtop
- **manual sheet metal shear** → to cut the hardtop
- **drilling machine (also with drill bit of high-speed steel and step drill)** → to fix lower / upper template
- **scalpel** → to do marking and accurate cut in the upholstery
- **flat hand file for metal** → to grind after cutting the hardtop
- **flat pliers (of wide jaw)** → to correct the unevenness left after cutting the hardtop
- **manual screwdriver** → to put the decorative frame on and fit the opening mechanism
- **long sharp scissors (for cardboard)** → to cut the lower template out (The upper one is cut together with the hardtop!)
- **two measuring tapes** → for preparations, when it is measured where to take place the skylight; two for the sake of accuracy, ensured by measuring it up on both sides at the same time; especially if two people work
- **plate screws** → to clamp the two templates together from the bottom top
- **insulating tape** → to fix the cut-out template of the upper hardtop
- **permanent marker** → to outline the lower upholstery template in preparation for cutting

Installation process:

Vehicle inspection; design

The installation process is planned, the tools and the site are prepared. It is mapped out where and how to install the skylight. The hardtop is pushed repeatedly from above and the upholstery too is from below to learn what to expect when cutting the hardtop. The frames are tried therein. You can find out that the window fits, it's comfortably installed, there's no air pocket in it, lighting or other stay plates crosswise. For the installation, exact measurement, common sense and creativity are important. Even during the processes, it is worth giving the frame some checks and trying it therein. Every car is different, so review the specifics of your own vehicle! Below a general installation with the typical steps is described. Two people should work to make one of them capable of keeping the necessary tools and surfaces.

Carton inspection, skylight preparation

Preparing the frames with seals; installing the U-profile, gluing the sponge on it. Covering the interior to protect the seats.

0. Installation survey

Upper template

1. Placing a template to cut out the hardtop; measurements

Measurements made from the hardtop and the upholstery as well. Adhesive bonding. Arrows point in the direction of travel. Drill it and cut a smaller hole in the middle. Set a scalpel in it from above, so a further measurement can be made from the side of upholstery to increase accuracy.

Lower template

2. Cutting out the upholstery

Drill down at the two marked points. Place bolts in them. Fasten the trimmed upholstery template from below with the screws. Contour it. Remove the upholstery template, then use a scalpel to cut out the upholstery along the line. Try to fit the lower frame in it.

Then it becomes visible what else lies between the upholstery and the hardtop. At the cut out, these will be removed.

3. Cut-out on hardtop

Proceed more and more outward from the smaller hole. To be accurate in the end, cut it not exactly on the line, but 1 mm beyond the line. Remove the template bonded onto the hardtop. Sweep away the debris. Try to insert the upper frame. It must move a bit. It must not be tight! File off protruding parts of the panel. Clean it up.

4. Preparing the frames

Place the channel section onto the lower frame. Stick the sealing sponge onto the upper frame (with the protruding locking mechanism). Cut off the missing parts so that the seal fits exactly.

5. Setting the upholstery insert

Glue the 4 upholstery inserts in between the hardtop and the upholstery 1 cm inside. Cut off the parts remained out so that the seal fits exactly.

6. Bolting

Insert the top and bottom frame. Attach the lower frame with the screws at its four corners, then advancing from the middle, bolt it up, insert the bolts, and advance outwards so that the frame is to smooth over the hardtop. At the end, tight the bolts.

7. Putting up the decorative frame

Put up the decorative bear frame from below so that its edges are aligned with the top frame. Fix it with the 4 snap fasteners.

8. Silicone spray

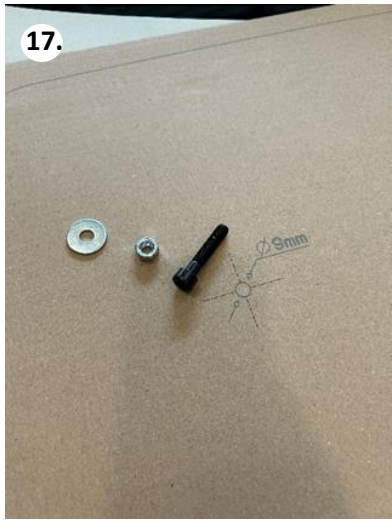
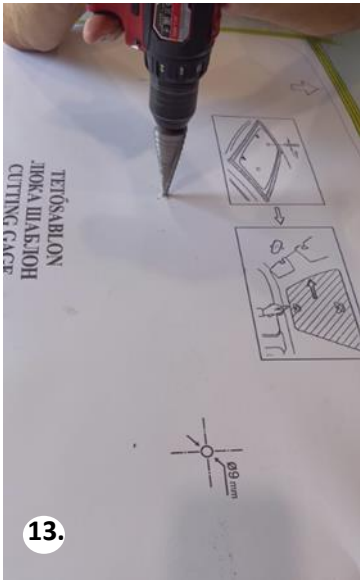
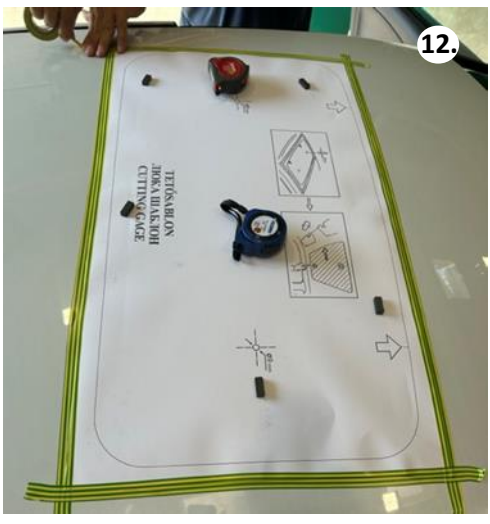
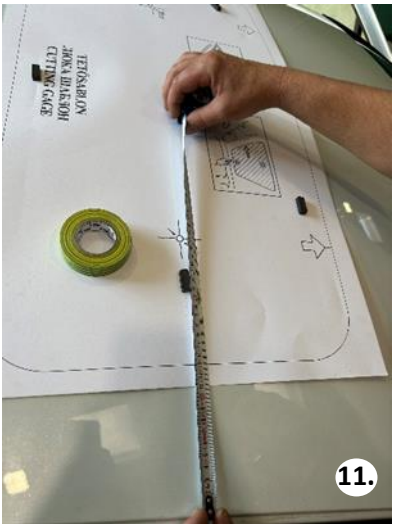
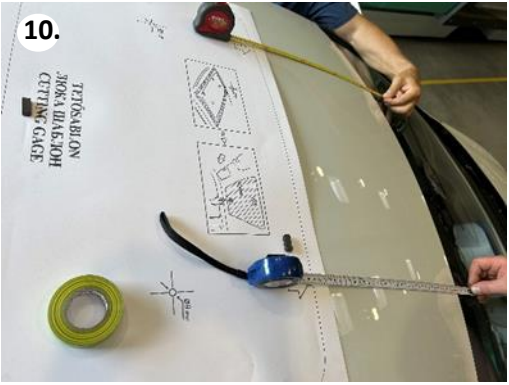
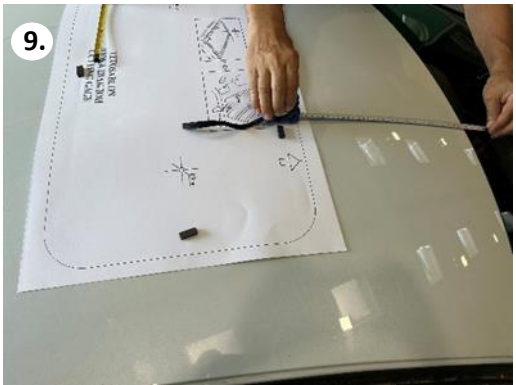
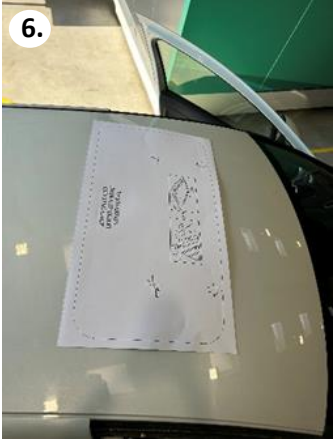
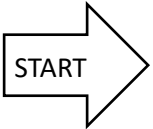
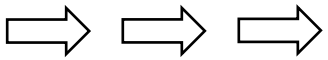
Spray the black silicone-based plastic seal of the upper frame from above with silicone. It is recommended to be done every month during general vehicle cleaning.

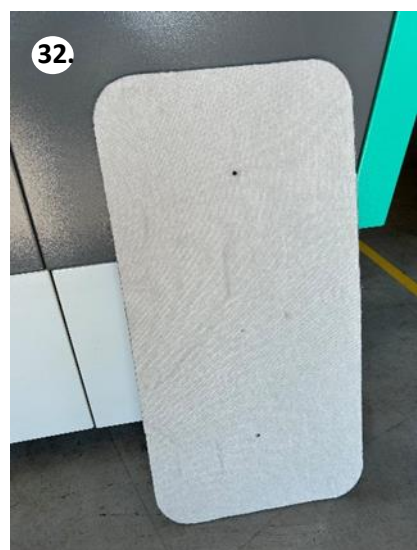
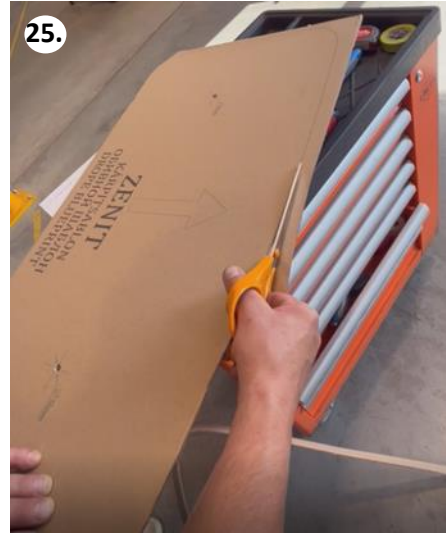
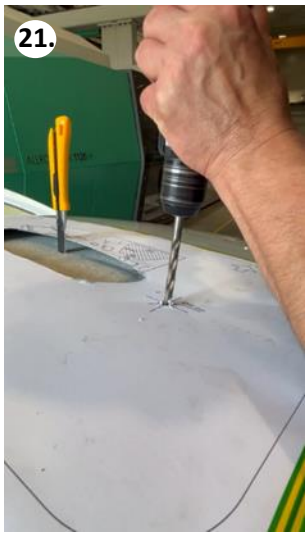
9. Inserting the glass

Insert the glass equipped with the opening mechanism into the upper frame at the hinges. Then with a manual screwdriver, fit the opening mechanism into the frame locking mechanism at its red part.

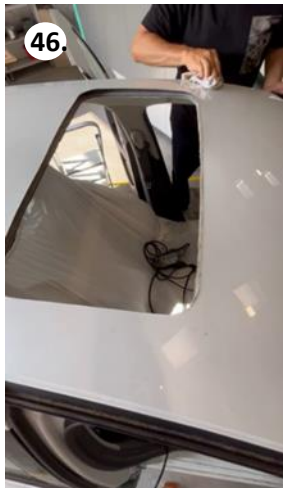
By turning the opening mechanism, the skylight can be raised, that is opened or closed.

Installation steps on pictures:











*** For the Renault Zoe, there is an extra stiffening member under the hardtop and in place of the antiglare shields, there are butyl rubber sheets bonded to the hardtop. Hardtop stiffener and vibration-damping profile of plate can be found in several types of cars. Otherwise, we can overlook the asterisked part.