



Car headliner – fibre optic light installation guide

Car headliner fibre optic light installation steps

	<h3>Remove the headliner</h3>
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	<h3>Use appropriately sized drill bits (0.75/1.0/1.5 mm) to drill holes on the roof.</h3> <p>Tips:</p> <ul style="list-style-type: none">• Use a pen to mark the drill points on the back of the panel to find the drilled holes easily• Start inserting the fibres starting from furthest from the light engine to avoid the cables tangling up.
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	<h3>Creating a pattern</h3> <ul style="list-style-type: none">• choose the pattern• print the CAD file according to your roof ceiling size with the ratio of 1:1• Place the pattern on the back of the roof panel• Drill hole according to pattern.• Insert the fibres through the holes
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Fixing the optical fibres at the drill points.

- Push through the fibres the holes from the back of the panel. You can later clip the extending fibres short from the front of the panel, with a nail clip
- Use an awl to punch holes through the cloth roof, if needed
- Use a hot melt glue or glass glue to fix the optical fibres in place. We don't recommend using a quick viscose glue.



Organise the optical fibres.

Bundle up the fibres with tape and then place them into the connector.



Insulate the roof from the inside

To protect the optical fibres and prolong their life, we recommend using some insulation foam to make sure that the fibres don't touch the metal roof directly. If exposed to direct sun, the metal roof can heat up significantly and can contribute to the deterioration of the fibres.



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Trimming

Cut the excess fibres from the front of the panel.



Light engine placement.

We recommend placing the light in the C-pillar or in the car boot, whichever is more convenient for later maintenance and better for ventilation. Connect the 12 V power supply or to the ceiling lights of the car. If you're unsure of this step, we recommend consulting with a car technician.



Restore the interior roof

Secure the interior roof panel back to its position.



Enjoy the result!