



Installation Guide: Custom Headlights

Custom headlights can enhance the appearance and functionality of your vehicle. This installation guide will walk you through the process of installing custom headlights. Please follow these instructions carefully and take all necessary safety precautions. If you are not comfortable with the installation process, it is recommended to seek professional help or installation.

Tools and Materials Needed:

- Custom headlights
- Screwdrivers (Phillips and flathead)
- Socket set
- T15 & T20 Torx Bits (if necessary)
- Protective gloves
- Bulbs (if not included with the new headlights)
- Towel or cloth
- Glass Cleaner/Isopropyl Alcohol
- Basic electrical tools (for wiring, if required)

Installation Steps:

1. Preparation

Before you begin, start the vehicle and turn your steering wheel to full lock and turn off the vehicle. Make sure to disconnect your vehicle's battery to prevent any electrical accidents. Ensure that your vehicle is parked on a level surface, and you have enough workspace to work safely.

For alignment purposes, place your vehicle on a level surface and park it approximately 10 feet away from a flat wall or garage door. Use masking tape to mark the horizontal and vertical centres of the old headlight beam pattern on the wall.

2. Remove the front bumper

- Open the bonnet of your vehicle and locate the screws or bolts securing the **top of the grille/bumper**.
- Carefully remove these screws or bolts using the appropriate tools.
- Locate and remove the screws/bolts in **each wheel arch** and **bottom of the bumper**.
- Starting from each end (where the bumper meets the fender) gently pull the bumper away from the fender, this will release the clips. Do this at both ends.

- Push the clips on the bottom of the bumper to release it from the plastic splash liner. Your bumper can now be moved to the left-hand side of the vehicle and sat down on something soft to prevent scratching.

3. Remove your existing headlights

- Remove the plastic scrivenets and/or screws holding the small plastic liners in place and remove them to reveal the headlight mounts/mounting screws.
- Remove all mounting screws.
- Gently pull the old headlights out of their mounting sockets and disconnect the electrical connections if necessary.

3. Aligning the New Headlights

Proper alignment of the new headlights is essential for optimal visibility and safety. Use the following steps to align your new headlights:

1. Install the new custom headlights into the same mounting sockets.
2. Turn on the headlights and adjust them to match the masking tape marks you made on the wall. Typically, the top of the light beam should align with the horizontal line, and the brightest point should be slightly to the right of the vertical center.
3. Consult your vehicle's owner's manual for specific instructions on headlight alignment. You may need to adjust the set screws provided with the custom headlights to achieve the correct alignment with body panels. If your headlights are contacting any body panels, loosen the mounting screws and adjust set screws until the headlights have 1-2mm clearance to body panels.
4. Repeat this process for both headlights until they are properly aligned.

4. Wiring (If Necessary)

If your custom headlights require wiring, see our wiring instructions on our website for more information regarding wiring.

5. Condensation Prevention

Condensation inside the headlight housing in most cases can occur, especially in newly installed headlights. The reason for this is the process we use to open the headlights originally. The headlights are split apart and resealed in an oven; this can cause the headlight housing to “sweat” on reassembly.

After installation, we recommend leaving the high beam dust cap off the headlight for 24 hours to allow the headlight fitting to air out and allow the air inside the headlight to neutralise.

Headlight fittings can “fog up” in humid conditions. This is due to the air temperature on the inside of the headlight fittings being at a different temperature than the ambient air temperature outside. **If you experience this**, remove the high beam dust cap and the fog will clear on its own.

PLEASE NOTE: Most of the time, condensation/ fogging DOES NOT mean that the headlight is not sealed. If the headlights are not sealed properly, you will have pooling of water on the inside. Condensation, a lot of the time is a very common occurrence especially in custom headlight fittings fitted with LED bulbs.

Standard Halogen bulbs produce a huge amount of non-contact heat, so in normal conditions the halogen bulb would heat up enough to evaporate all moisture in the headlight fitting.

LED on the other hand, do not produce non-contact heat and run very cool compared to halogen bulbs, so there isn't as much heat in the housing to evaporate any moisture.

6. Final Check

Before you complete the installation:

- Reconnect the electrical connections.
- Secure the new custom headlights in place by tightening the screws or bolts.
- Reconnect your vehicle's battery.
- Turn on your headlights to ensure they are functioning correctly.

7. Adjusting for Final Fit

Check the fit of the new headlights with the body panels of your vehicle. If necessary, adjust the set screws or mounting points to ensure a snug and secure fit.

8. Cleaning

Wipe down your new custom headlights with a clean cloth using either glass cleaner or isopropyl alcohol. Do not use a completely dry cloth with no lubricant as this will scratch the headlight lens.

Cleaning your headlights will help maintain their appearance.

PLEASE NOTE: When cleaning your headlights as part of the washing process for your vehicle, DO NOT spray directly with a pressure washer as this could potentially damage the clear coat on the headlight lenses.

9. Optional extras to note

In terms of longevity, it may be a good idea to consider applying some sort of protectant to your headlight lenses; headlights are not designed to last forever. **Two popular** options are Clear PPF (Paint protection film): This is a physical layer of permanent protection which will safeguard your headlight lenses from stone chips, harsh UV rays and general wear and tear on your headlight lenses. This will aid keeping these headlights looking brand new for as long as possible. If you are interested in having some PPF installed onto your headlights, speak with your local vinyl wrapping/paint protection shop.

The next popular option is a ceramic coating. A ceramic coating is a chemical protectant that provides a layer of protection from harsh UV from the sun, preventing your headlight lenses from yellowing. The only downside to ceramic coating is that it doesn't protect from stone chips, and doesn't last forever.

Congratulations! You have successfully installed custom headlights on your vehicle. Always test your headlights in the dark to ensure they provide proper illumination and adjust them if necessary for the best visibility. If you encounter any issues during or after the installation, consult the manufacturer's instructions or seek professional assistance.