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Document Information

Location: Body Exterior & Electrical

Topic: Electrochromatic (EC) Roof Glass diagnosis

Condition: Permanent

Diagnostic Trouble Codes: N/A

Measure

Please refer the below information when diagnosing faults relating to McLaren GT electrochromatic roof glass.

Care Point - Please wait a minimum of 60 seconds before disconnecting electrical connectors after the battery has been disconnected

Care Point - Orange coloured wiring harnesses and electrical connectors are Hazardous Voltage (HV) and must be handled correctly. The 12V battery must also first be disconnected. Note the electrochromatic system operates at 110v.

Please refer to image 1.1 for a brief system overview of the main components and how they interact with the system. The 3 main components to consider when carrying out diagnoses on the system are:

- EC Glass Controller
- EC Glass Switch Panel
- EC Roof Smart Glass

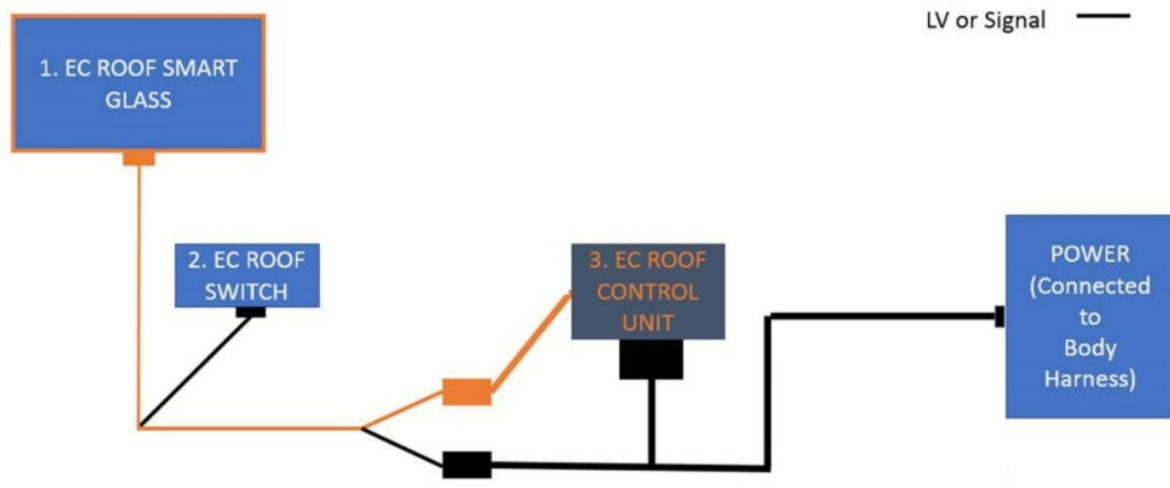


Figure 1.1 - EC glass basic system

overview

For diagnosing issues related to this system, please first follow the steps below:

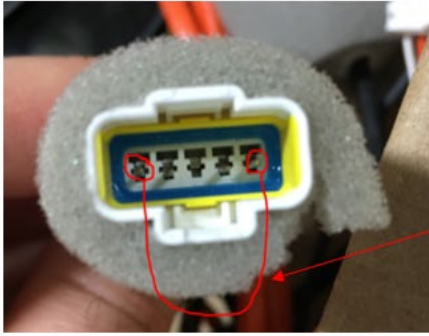
- Check fuses for cigarette lighter and EC roof glass fuse (EC roof fuse is located above the fuse box on a separate bracket above electric city)
- Check all connectors are fully engaged in the correct orientation. Take extra care as connectors and be forcefully connected in reverse. See image 1.2.



There is a key to prevent the connector Engaging in wrong way but it has been noticed with a bit of extra force it is possible to have it connected wrong way
There is two off this connector on the EC roof loop
One next to switch another one next to control unit.

Image 1.2 - EC system connect orientation

- Check the electrical continuity between the outer 2 pins for the loop to the EC glass. If there is no continuity between the outer 2 pins of the glass, the loop within the glass may be damaged. See Image 1.3.



This can be tested in two connectors:

- first with glass connected check the connector by the EC roof control unit (under interior trim behind RH seat)
- Secondly at glass connector next to switch by head liner

Figure 1.3 - EC glass basic system

overview

- If all electrical connections are in good working order, the fault is likely to be related to the controller, switch or EC Roof Glass.

If the fault still remains please open a Technical Request for further guidance.

Parts Information

N/A

Attachments

N/A

KA Update Information

22/09/2021 - First Release

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