

MK6 GLI (PQ35) – LED TO HALOGEN TAILLIGHT CONVERSION

Overview

This harness converts **factory MK6 GLI LED taillights** to a **4-pin halogen configuration**, allowing the installation of **aftermarket halogen-style taillights**.

This setup is **not plug-and-play**. It requires direct wiring to the **CECM** and separates the combined brake and turn signal output used on factory LED systems.

Harness Description

- Designed for **North American MK6 GLI models** originally equipped with **factory LED taillights**.
 - Converts the **combined PWM brake/turn output** into **separate analog signals** for halogen taillights.
 - Four loose wires are provided for connection to the **CECM**.
 - **Outer and inner taillight connectors** are labeled; **inner connectors are interchangeable**.
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Preparation

1. Turn ignition **OFF** and **disconnect the battery**.
 2. Remove the **trunk liner** to access taillight connectors.
 3. Ensure all taillight surfaces are clean and free from debris before connecting.
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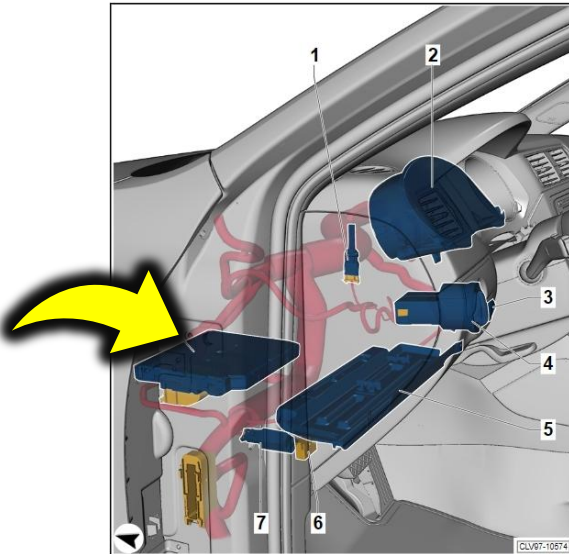
Installation

Step 1 – Harness Connection

1. Connect the labeled harness plugs to the corresponding **inner and outer taillight assemblies**.
2. Verify that all connectors are fully seated and locked.
3. **Inner connectors are interchangeable** between both sides.

Step 2 – Wire Routing

1. Route the **four loose wires** along the **driver's side interior trim** toward the **CECM**.
2. The **CECM** is located **beneath the steering wheel**, behind the lower dash panel.
3. Secure the wiring neatly using **fabric loom tape** or **factory-style clips**.
4. Leave enough slack to allow for trunk and panel movement.

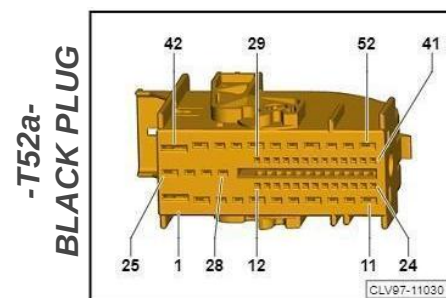


Wire Labeling and CECM Pinout

Connect each of the four loose wires to their corresponding pin on the CECM connectors according to the table below:

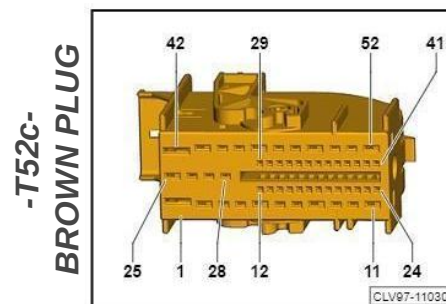
Connector T52a (52-pin black connector)

Pin Number	Function	Factory Wire Color
45	High-Level Brake Light	Red/Black
10	Left Turn Signal (front signal)	Black/White



Connector T52c (52-pin brown connector)

Pin Number	Function	Factory Wire Color
50	Right Turn Signal (front signal)	Black/Green



These connections source clean, independent signal outputs directly from the CECM, separating the shared brake and turn circuits used by factory LED tails.

Testing

1. Reconnect the battery.
2. Turn the ignition **ON**.
3. Test all lighting functions:
 - **Brake lights** illuminate evenly.
 - **Left and right turn signals** flash independently.
 - **No bulb-out warnings** appear on the cluster.
4. If a function does not operate as expected, recheck **pin connections** and **wire continuity**.

Final Notes

- Always double-check **pin positions** before making final connections.
- Do **not** splice or modify the harness for other applications.
- If soldering, use **heat-shrink tubing** for insulation and protection.
- Professional installation is recommended if you are not experienced with automotive wiring.

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