TL-MK6-GLI-LED-HAL-R1 - TAILLIGHT - MK6 GLI (LED TO HALOGEN PQ35) - Install Guide)

Introduction

This harness converts the factory MK6 GLI LED taillights to a 4-pin halogen configuration, allowing you to use aftermarket taillights. This is **not** a plug-and-play harness; it requires wiring modifications. If you're uncomfortable with wiring or splicing, please consult a knowledgeable professional.

Important: North American GLI factory LED taillights use a PWM signal combining brake and turn signals on a single circuit, which cannot currently be altered directly. The provided solution involves splicing into the third brake light and front turn signals to achieve separate brake and signal outputs.

Overview

This harness converts factory **MK6 GLI LED taillights** to a **4-pin halogen configuration**, allowing the use of **aftermarket taillights**.
This is **not plug-and-play** and requires direct wiring to the **CECM**.
The harness separates the combined brake and turn signal output used on factory LED tails by sourcing new signal lines from the **third brake light** and **front turn signals**.

Harness Description

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

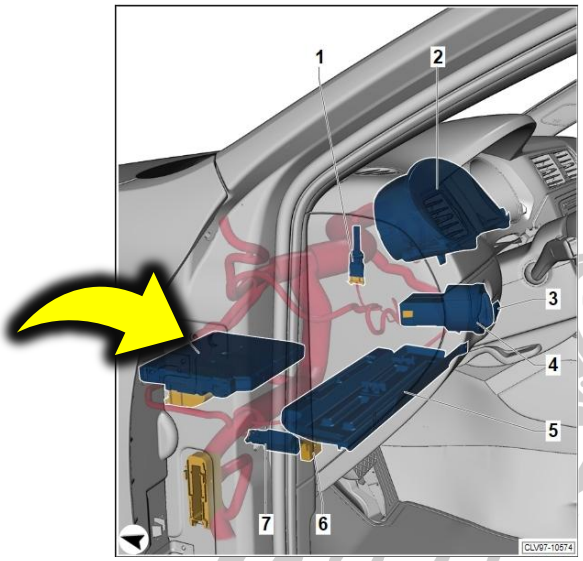
Installation Procedure

Step 1 – Harness Connection

1. Connect the labeled harness plugs to the corresponding inner and outer taillight assemblies.
2. Ensure all connections are secure.
3. Inner taillight connectors are interchangeable.

Step 2 – Wire Routing

1. After connecting the taillights, route the **four loose wires** to the **CECM**.
2. Run them along the **driver's side** interior trim toward the front of the vehicle.
3. The **CECM** is located **beneath the steering wheel**.
4. Leave enough slack for movement and reassembly.

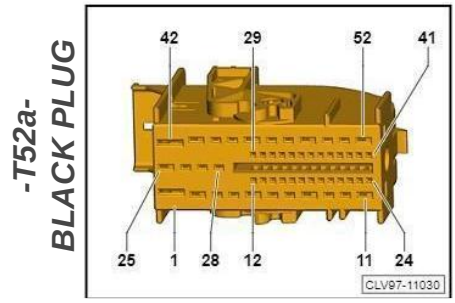


Wire Labeling and CECM Pinout

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

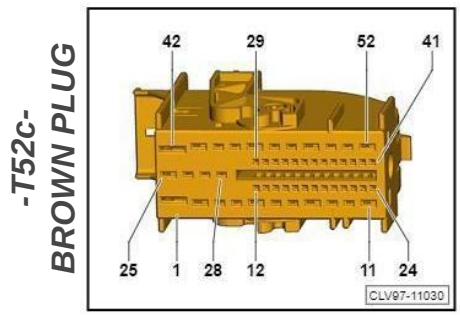
Connector T52a (52-pin black connector)

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



Testing

After completing all wiring:

1. Reconnect the battery.
2. Turn the ignition ON.
3. Verify:
    - Brake lights illuminate properly.
    - Left and right turn signals flash independently.
    - No error messages appear on the dashboard.

If any function fails, recheck the CECM pin connections and wire continuity.

Final Notes

- Always confirm pin locations before making connections.
- Incorrect wiring can cause malfunctions or electrical damage.
- If you are not comfortable soldering or modifying wiring, seek professional installation.

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