

MK6.5 GLI (PQ35) – ALPTECH CLEAR TAILLIGHT INSTALL GUIDE

Overview

This harness converts **factory MK6.5 GLI LED taillights** to a **5-pin configuration** for use with **ALPTECH Clear LED taillights**.

It connects directly to the **CECM** for proper signal separation between brake and turn functions. The **V2 harness** has been updated for full compatibility with OEM PWM output, meaning **no coding adjustments are required**.

Harness Description

- Designed **specifically for ALPTECH Clear LED taillights**.
 - Both **outer and inner taillight assemblies** connect via pre-terminated two-pin links:
 - **Left side:** Red wire
 - **Right side:** Yellow wire
 - Each **outer taillight** includes a **4-pin connector** for the supplied resistors.
 - The **resistors must remain connected** to prevent bulb-out warnings.
 - Route the harness along the **driver's side trunk trim**, leaving adequate slack at the hinge for trunk movement.
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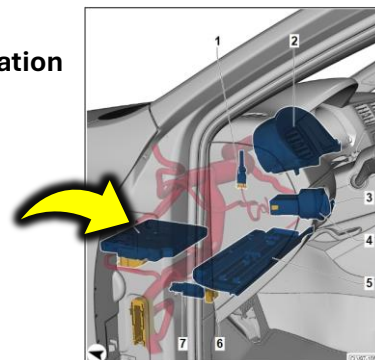
Harness Routing

1. Connect both **outer and inner taillights** on each side.
 2. Route the main harness along the **driver's side interior** toward the **CECM** (beneath the steering wheel).
 3. Approximately **15 feet of wire** is provided for routing to the front of the vehicle.
 4. Follow the **factory wiring path**, securing with **fabric loom tape** or **OEM-style clips**.
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CECM Wiring and Pinout

Connect each loose wire to the correct **CECM pin location** as shown below.
All pin assignments are verified for the **PQ35 platform**.

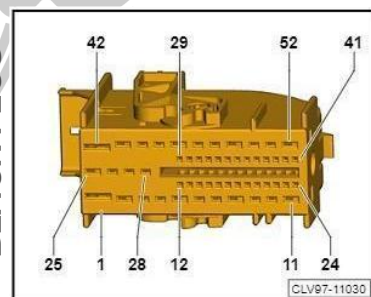
CECM Location



Connector T52a (52-pin black connector)

Pin Number	Function	Factory Wire Color	Harness Wire Color
45	High-Level Brake Light	Red/Black	Orange
10	Left Turn Signal (Front Feed)	Black/White	Red

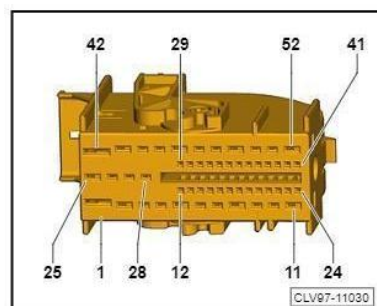
-T52a-
BLACK PLUG



Connector T52c (52-pin brown connector)

Pin Number	Function	Factory Wire Color	Harness Wire Color
50	Right Turn Signal (Front Feed)	Black/Green	Yellow

-T52c-
BROWN PLUG



Connection Notes

1. Turn ignition **OFF** and **disconnect the battery**.
 2. **Solder** all connections for reliability, and **insulate** with heat-shrink tubing.
 3. If soldering isn't possible, **wire taps** may be used.
 4. **Reconnect the battery** only after all wiring is complete.
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Testing

1. Turn ignition **ON**.
 2. Confirm all light functions:
 - **Brake lights** illuminate evenly.
 - **Turn signals** operate correctly on both sides.
 - **No flicker or bulb-out warnings** appear.
 3. If a light behaves incorrectly, recheck **pin placement** and **connection integrity**.
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Notes

- Always verify **pin positions** before connecting to the CECM.
 - Do **not repurpose or modify** this harness for other taillight brands.
 - Ensure resistors remain connected at all times.
 - This harness is **specific to ALPTECH Clear Taillights** for MK6.5 GLI (PQ35).
 - **MK6IX** is not responsible for improper wiring or installation errors.
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