

HL-MK5-1210-HW-R1 - HEADLIGHT - MK5 (12-PIN TO 10-PIN HARDWIRE PQ35) - Install Guide

Overview

This harness is designed for **MK5 PQ35 vehicles** originally equipped with the **12-pin factory Xenon connector**. Because Volkswagen never produced the **12-pin female counterpart**, this harness requires **direct hardwiring** to the factory wiring. Once installed, it restores full OEM functionality for low beam, high beam, DRL, and turn signal control through the **CECM (Central Electronics Control Module)**.

Note:

This is **not a plug-and-play kit**. It requires cutting and splicing into the existing wiring. If you're not confident working with automotive wiring, it's strongly recommended that you seek assistance from someone experienced with electrical work.

Harness Description

- Each side includes one **10-pin connector** with six pre-terminated wires.
- A built-in **capacitor** stabilizes voltage on PWM (pulse-width-modulated) circuits to prevent flickering.
- All wires are color-coded for easy identification.

Preparation

1. Turn off the ignition and remove the key.
2. Open the hood — keep it **open during installation**.
3. Wait for the vehicle to **enter sleep mode** (you'll hear relays click off).
4. Disconnect the negative battery terminal.

5. Remove front bumper or access panels as needed to reach the headlight wiring.

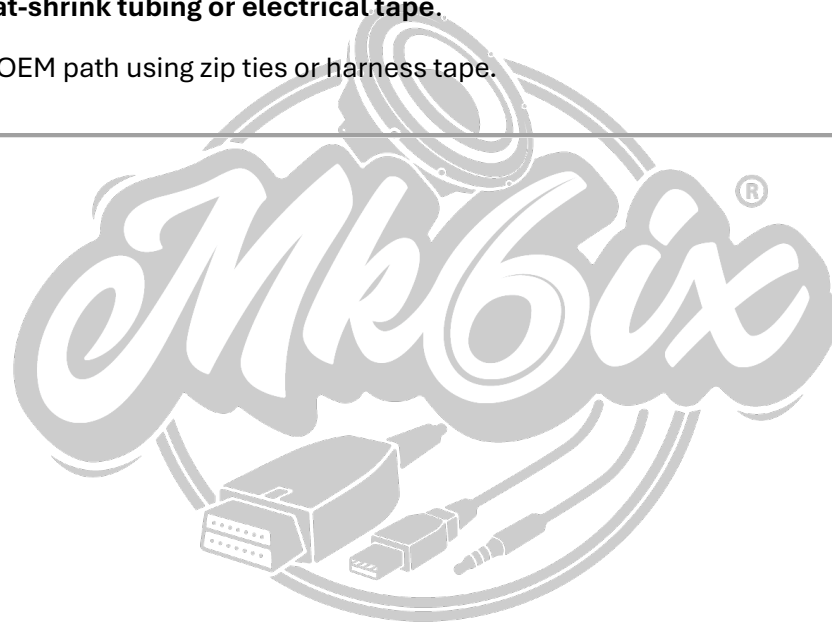
Wire Identification

Function	Wire Color (Harness Side)	Description
Low Beam	Yellow	Main headlight feed
High Beam	White	High beam shutter
DRL / City Light	Gray	Daytime running or parking light
Ground	Brown	Shared system ground
Turn Signal	Green	Turn indicator feed
Side Marker / DRL Blue		Optional auxiliary function

Verify wire colors on your vehicle before cutting. Volkswagen factory colors can vary slightly depending on trim level and region.

Installation Procedure

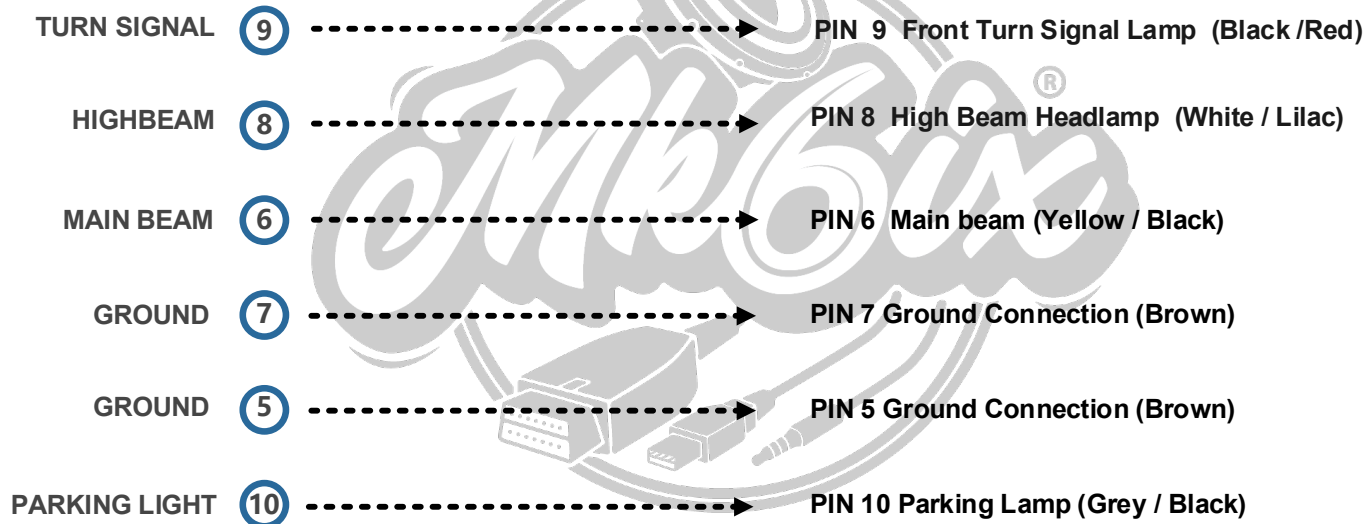
1. **Disconnect the factory 12-pin connector** from the headlight housing.
 2. **Cut the connector** from the vehicle harness, leaving sufficient length for splicing.
 3. Strip both harness and factory wires approximately **5–7 mm**.
 4. **Match wire colors** according to the table above.
 5. Crimp or solder the connections (soldering is recommended for long-term reliability).
 6. Insulate each joint with **heat-shrink tubing or electrical tape**.
 7. Secure all wiring along the OEM path using zip ties or harness tape.
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RIGHT SIDE HEADLAMP

10 PIN HARNESS SIDE

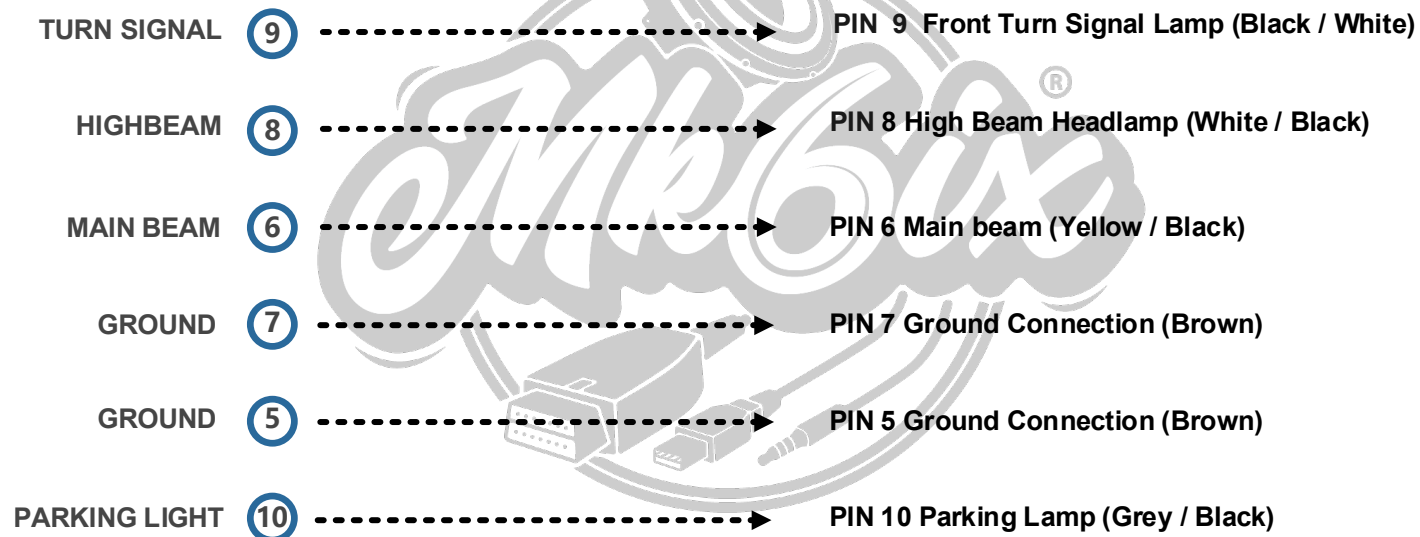
FACTORY HARNESS SIDE



LEFT SIDE HEADLAMP

10 PIN HARNESS SIDE

FACTORY HARNESS SIDE



Installation Procedure:

Step 1: Preparation

- Disconnect vehicle battery.
- Remove necessary panels to access the factory headlight wiring harness.

Step 2: Wire Identification and Connection

Follow the tables above to properly identify and match the harness wires to the factory wiring.®

- Clearly separate **left and right sides** for clarity.

Step 3: Making Connections

- Cut factory connectors (if necessary).
 - Strip wires and connect using provided butt connectors.
 - **Recommended:** Solder all connections and cover with heat-shrink tubing for improved durability and safety.
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Final Steps

1. Reconnect the vehicle battery.
2. Turn ignition ON and test:
 - Low beam
 - High beam
 - Turn signal
 - DRL / parking light
3. Confirm no flickering or fault codes appear.
4. If everything operates correctly, reinstall all removed panels and ensure wires are properly secured.

Troubleshooting

Issue	Possible Cause	Solution
Flickering or dim light	Poor ground or PWM interference	Verify ground connection and ensure capacitor is in place
One light inoperative	Mis-wired or loose connection	Confirm color match and pin alignment
Both lights off	Blown fuse or open circuit	Check headlight fuse and harness continuity
