

MK7 to MK7.5 Euro Taillight Retrofit Guide (MQB)

Overview

This guide covers the installation and coding process for upgrading an **MK7 MQB vehicle** with **MK7.5 LED taillights**

The harness provides **OEM-style functionality**, including:

- Sweeping turn signals
- Full LED brake, tail, and reverse operation

This is a **plug-and-play retrofit harness** designed to work directly with factory wiring. No splicing, relays, or power taps are required.

Tools Required

- VCDS or OBDeleven (PRO version)
- Laptop or mobile device
- Trim removal tools

Preparation

1. Turn off the ignition and remove the key.
2. Open the hood — it must remain **open during all coding changes**.
3. Wait for the vehicle to **go into sleep mode** before beginning.
 - (You'll hear relays click off and see all cluster lights fade.)
4. Connect your diagnostic device to the **OBD-II port**.

5. Remove the trunk trim panels to access the taillight connectors.
-

Harness Routing & Connection

1. The harness includes both **4-pin and inner 2-pin harness** , color-matched for easy installation.
2. Each connector is pre-installed, but if routing through the grommet is tight, you may **de-pin the connector** temporarily.
3. Match all wires **by color** when re-pinning.
4. Connect the **outer** and **inner** taillights on both sides using the supplied connectors.
5. Ensure that each side's harness is connected correctly:
 - **Left harness → left taillight**
 - **Right harness → right taillight**
 - **Inner harness to inner tails 2 pin**
6. Secure the harness along the trunk using OEM clips or tape for a clean, factory-style finish.

At the taillight side:

- Use the supplied **4-pin and inner 2-pin harness** for the inner and outer taillights.
 - Color match the wires and fully seat terminals into their respective connectors.
 - Ensure the **left harness connects to the left taillight**, and the **right to the right taillight**.
-

Accessing the Central Electronics Control Module (CECM)

Using VCDS

1. Turn the ignition ON.
2. Open **VCDS** → **[Select Control Module]** → **[09 – Central Electronics (CECM)]**.
3. Choose **[Security Access – 16]** and enter **31347**.
4. Go to **[Adaptation – 10]**.
5. Use the search bar to find each **Leuchte** channel.
6. Apply the coding values listed in your chart.
7. Select **Do It!** and exit the controller.

Using OBDeleven

1. Turn ignition ON and open the OBDeleven app.
2. Navigate to **Control Units** → **09 Central Electronics (CECM)**.
3. Tap **Security Access**, enter **31347**, then go to **Adaptations**.
4. Use the search bar and type **“Leuchte”** to locate lighting channels.
5. Apply the coding values listed in your chart.
6. Tap **Save** after each change.

⚠ Important:

After completing all coding, **turn the ignition OFF, close all doors, and wait 3–5 minutes** for the car to go to sleep. The changes will only take effect once the vehicle fully powers down and restarts.

Coding Adjustments

LEUCHTE20BR LA71 — BRAKE LIGHTS, BOTH SIDES	#	Property	Value
	1	Lasttyp	34 - LED Bremsleuchten
	2	Lampendefektbitposition	09
	3	Fehlerort mittleres Byte DTC-DFCC	2B
	4	Lichtfunktion A	Brake light / Bremslicht
	5	Lichtfunktion B	Not active
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	Always
	8	Lichtfunktion C	Not active
	9	Lichtfunktion D	Not active
	10	Dimmwert CD	0
	11	Dimming Direction CD	maximize
	12	Lichtfunktion E	not active
	13	Lichtfunktion F	not active
	14	Dimmwert EF	0
	15	Dimming Direction EF	maximize
	16	Lichtfunktion G	not active
	17	Lichtfunktion H	not active
	18	Dimmwert GH	0
	19	Dimming Direction GH	maximize

LEUCHTE21BR RC8 — DYNAMIC 12V	#	Property	Value
	1	Lasttyp	36 - LED Kleinleistung
	2	Lampendefektbitposition	00
	3	Fehlerort mittleres Byte DTC-DFCC	00
	4	Lichtfunktion A	Aktive Blinkfunktion hat ein auf 1 gesetztes zugeordnetes Bit in na dynamisch blinken
	5	Lichtfunktion B	not active
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	Always
	8	Lichtfunktion C	not active
	9	Lichtfunktion D	not active
	10	Dimmwert CD	0
	11	Dimming Direction CD	maximize
	12	Lichtfunktion E	not active
	13	Lichtfunktion F	not active
	14	Dimmwert EF	0
	15	Dimming Direction EF	maximize
	16	Lichtfunktion G	not active
	17	Lichtfunktion H	not active
	18	Dimmwert GH	0
	19	Dimming Direction GH	maximize

LEUCHTE23SL HLC10 — LEFT TURN SIGNAL	#	Property	Value
	1	Lasttyp	38 - LED Blinkleuchten
	2	Lampendefektbitposition	00
	3	Fehlerort mittleres Byte DTC-DFCC	41
	4	Lichtfunktion A	Blinken links Hellphase
	5	Lichtfunktion B	not active
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	Always
	8	Lichtfunktion C	not active
	9	Lichtfunktion D	not active
	10	Dimmwert CD	0
	11	Dimming Direction CD	maximize
	12	Lichtfunktion E	not active
	13	Lichtfunktion F	Not active
	14	Dimmwert EF	0
	15	Dimming Direction EF	maximize
	16	Lichtfunktion G	not active
	17	Lichtfunktion H	Not active
	18	Dimmwert GH	0
	19	Dimming Direction GH	maximize

LEUCHTE24SL HRA65 — RIGHT TURN SIGNAL	#	Property	Value
	1	Lasttyp	38 - LED Blinkleuchten
	2	Lampendefektbitposition	00
	3	Fehlerort mittleres Byte DTC-DFCC	42
	4	Lichtfunktion A	Blinken rechts Hellphase
	5	Lichtfunktion B	not active
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	Always
	8	Lichtfunktion C	not active
	9	Lichtfunktion D	not active
	10	Dimmwert CD	0
	11	Dimming Direction CD	maximize
	12	Lichtfunktion E	not active
	13	Lichtfunktion F	not active
	14	Dimmwert EF	0
	15	Dimming Direction EF	maximize
	16	Lichtfunktion G	not active
	17	Lichtfunktion H	not active
	18	Dimmwert GH	0
	19	Dimming Direction GH	maximize

LEUCHTE27NSL RC6 — RUNNING LIGHTS, BOTH SIDES	#	Property	Value
	1	Lasttyp	43 - allgemeine LED
	2	Lampendefektbitposition	0
	3	Fehlerort mittleres Byte DTC-DFCC	47
	4	Lichtfunktion A	Standlicht allgemein (Schlusslicht; Positionslicht; Begrenzungslicht)
	5	Lichtfunktion B	not active
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	Always
	8	Lichtfunktion C	not active
	9	Lichtfunktion D	not active
	10	Dimmwert CD	10
	11	Dimming Direction CD	maximize
	12	Lichtfunktion E	not active
	13	Lichtfunktion F	not active
	14	Dimmwert EF	0
	15	Dimming Direction EF	maximize
	16	Lichtfunktion G	not active
	17	Lichtfunktion H	not active
	18	Dimmwert GH	0
	19	Dimming Direction GH	maximize

LEUCHTE28RFL LC11 — LEFT REVERSE LIGHT	#	Property	Value
	1	Lasttyp	43 - allgemeine LED
	2	Lampendefektbitposition	11
	3	Fehlerort mittleres Byte DTC-DFCC	49
	4	Lichtfunktion A	Rueckfahrlicht
	5	Lichtfunktion B	not active
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	Always
	8	Lichtfunktion C	not active
	9	Lichtfunktion D	not active
	10	Dimmwert CD	0
	11	Dimming Direction CD	maximize
	12	Lichtfunktion E	not active
	13	Lichtfunktion F	not active
	14	Dimmwert EF	0
	15	Dimming Direction EF	maximize
	16	Lichtfunktion G	not active
	17	Lichtfunktion H	not active
	18	Dimmwert GH	0
	19	Dimming Direction GH	maximize

LEUCHTE29RFL RA64 — RIGHT REVERSE LIGHT	#	Property	Value
	1	Lasttyp	43 - allgemeine LED
	2	Lampendefektbitposition	11
	3	Fehlerort mittleres Byte DTC-DFCC	49
	4	Lichtfunktion A	Rueckfahrlicht
	5	Lichtfunktion B	not active
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	Always
	8	Lichtfunktion C	not active
	9	Lichtfunktion D	not active
	10	Dimmwert CD	0
	11	Dimming Direction CD	maximize
	12	Lichtfunktion E	not active
	13	Lichtfunktion F	not active
	14	Dimmwert EF	0
	15	Dimming Direction EF	maximize
	16	Lichtfunktion G	not active
	17	Lichtfunktion H	not active
	18	Dimmwert GH	0
	19	Dimming Direction GH	maximize

ENABLE SWEEPING	Außenlicht_Blinker-Richtungs_blinken_links (Turn signal left)	Active
	Außenlicht_Blinker-Richtungs_blinken_rechts (Turn signal right)	Active
	Außenlicht_Blinker-Warnblinken_Zuendung_AUS (Hazards ignition off)	Active
	Außenlicht_Blinker-Warnblinken_Zuendung_EIN (Hazards ignition on)	Active
	Außenlicht_Blinker-ZV_Blinken_auf (unlock)	Active
	Außenlicht_Blinker-ZV_Blinken_zu (lock)	Active

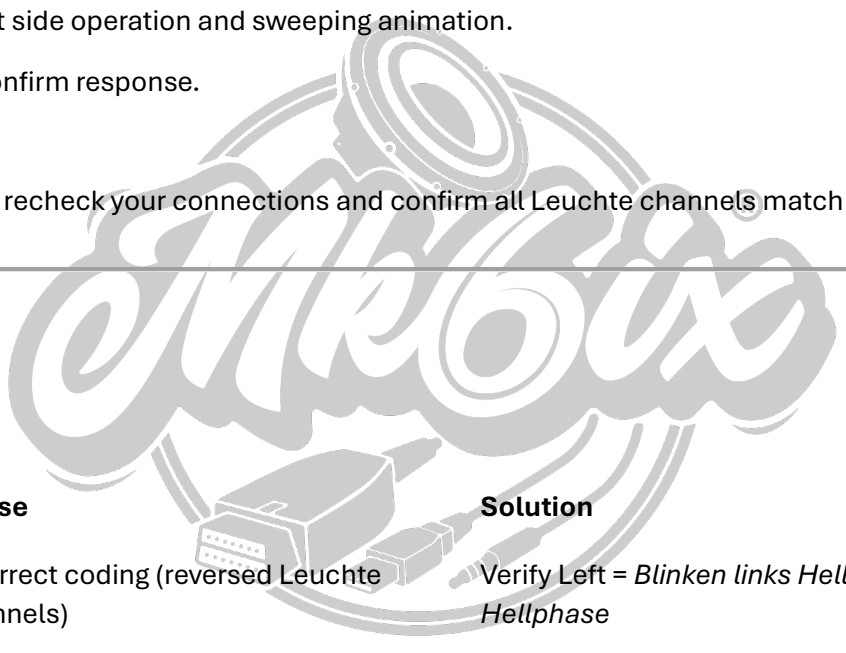
Testing

After the CECM has cycled:

- Check **running lights** for even illumination.
- Test **turn signals** for correct side operation and sweeping animation.
- Press the **brake pedal** to confirm response.
- Verify both **reverse**

If any function behaves incorrectly, recheck your connections and confirm all Leuchte channels match the coding reference.

Troubleshooting



Issue	Cause	Solution
Both turn signals flash together	Incorrect coding (reversed Leuchte channels)	Verify Left = <i>Blinken links Hellphase</i> , Right = <i>Blinken rechts Hellphase</i>
Light not functioning	Terminal not fully seated	Reseat the terminal and check continuity
Warning message on dash	Incorrect Dimmwert or Lasttyp	Recheck coding values

Final Steps

1. Clear any fault codes from the CECM.
2. Reinstall trunk trim panels.
3. Perform a final light check.

Notes

- Always back up your factory adaptation values before making changes.
- The hood must remain open during coding to prevent CECM timeout.
- Allow the vehicle to fully enter sleep mode for coding changes to apply.

