

MK7 - MK7.5 NAR LED (MQB) Instruction Manual

Overview

This guide covers the installation and coding procedure to retrofit **MK7.5 NAR LED taillights** onto **MK7 North American vehicles (MQB platform)**.

The harness is **fully plug-and-play**, requiring no external power feeds, relays, or splicing.

Harness Description

- The kit includes **two identical harnesses** for the left and right sides.
 - Each harness connects directly between the factory 7-pin MK7 taillight connector and the 7.5 LED taillight connector.
 - All factory functions are retained, including **brake, turn, running, and reverse** lights.
 - OEM-sealed connectors ensure a clean, factory-quality installation.
-

Preparation

1. Turn off the ignition and remove the key.
 2. Open the hood it must remain **open during coding or testing**.
 3. Wait until the vehicle **enters sleep mode** (you'll hear relays click off and interior lights fade).
 4. Remove the trunk liner to access taillight connectors.
 5. Install both harnesses by connecting each side inline between the factory body connector and taillight plug.
 6. Route wiring neatly along OEM paths and secure with factory clips or tape.
-

Accessing the Central Electronics Control Module (CECM)

Using VCDS

1. Turn ignition ON.
2. Open **VCDS** → **[Select Control Module]** → **[09 – Central Electronics (CECM)]**.
3. Select **[Security Access – 16]**, enter **31347**.
4. Choose **[Adaptation – 10]**.
5. In the search bar, type “**Leuchte**” to locate the lighting channels.
6. Apply the LED taillight coding values as per your configuration table.
7. Save each change and exit.

Using OBDeleven

1. Turn ignition ON and open **OBDeleven** → **Control Units** → **09 Central Electronics (CECM)**.
2. Tap **Security Access**, enter **31347**, then select **Adaptations**.
3. Use the search function to locate **Leuchte** channels.
4. Apply the LED taillight values one by one.
5. Tap **Save** after each edit.

Important: After completing all coding, turn ignition OFF, close all doors, and wait **3–5 minutes** for the car to go to sleep. The CECM must fully reset before changes take effect.

Coding Adjustments

LEUCHTE 20 (Brake Light Left)	#	Property	Value
	1	Lasttyp	43 - allgemeine LED
	2	Lampendefektbitposition	10
	3	Fehlerort mittleres Byte DTC-DFCC	39
	4	Lichtfunktion A	Brake light
	5	Lichtfunktion B	Blinken links Hellphase
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	always
	8	Lichtfunktion C	Blinken links Dunkelphase
	9	Lichtfunktion D	not active
	10	Dimmwert CD	0
	11	Dimming Direction CD	minimize
	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

LEUCHTE 21 (Brake Light Right)	#	Property	Value
	1	Lasttyp	43 - allgemeine LED
	2	Lampendefektbitposition	20
	3	Fehlerort mittleres Byte DTC-DFCC	3A
	4	Lichtfunktion A	Brake light
	5	Lichtfunktion B	Blinken rechts Hellphase
	6	Dimmwert AB	127
	7	Lichtansteuerung HD AB	always
	8	Lichtfunktion C	Blinken rechts Dunkelphase
	9	Lichtfunktion D	not active
	10	Dimmwert CD	0
	11	Dimming Direction CD	minimize
	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

LEUCHTE 23 (Running Light Left)	#	Property	Value
	1	Lasttyp	43-allegemeine LED
	2	Lampendefektbitposition	0A
	3	Fehlerort mittleres Byte DTC-DFCC	29
	4	Lichtfunktion A	Standlicht allgemein (schlusslicht; Positionslicht, begrenzungslight)
	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

LEUCHTE 24 (Running Light Right)	#	Property	Value
	1	Lasttyp	43-allegemeine LED
	2	Lampendefektbitposition	1A
	3	Fehlerort mittleres Byte DTC-DFCC	2A
	4	Lichtfunktion A	Standlicht allgemein (schlusslicht; Positionslicht, begrenzungslight)
	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

LEUCHTE 28 (Reverse Light Left)	#	Property	Value
	1	Lasttyp	43 - allgemeine LED
	2	Lampendefektbitposition	0B
	3	Fehlerort mittleres Byte DTC-DFCC	31
	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

LEUCHTE 29 (Reverse Light Right)	#	Property	Value
	1	Lasttyp	43 - allgemeine LED
	2	Lampendefektbitposition	1B
	3	Fehlerort mittleres Byte DTC-DFCC	32
	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

Testing

After the vehicle wakes up:

1. Turn ignition ON and verify all functions:
 - Running lights
 - Brake lights
 - Turn signals (left/right independently)
 - Reverse lights
 - Rear fog (if equipped)
2. If both turn signals flash together, verify that:
 - **Blinken links Hellphase** = Left turn
 - **Blinken rechts Hellphase** = Right turnEnsure they are not reversed.

Final Steps

1. Clear any stored DTCs from the CECM.
 2. Reinstall trunk panels and confirm connectors are secure.
 3. Perform a final test of all light functions with ignition ON.
-