

VW Golf MK7: US Halogen to Euro LED Conversion

Requirements:

- 1 VW cable harness for LED conversion (5G1 052 200A)
- 1 Grey or grey/black wire (length: 4m / 13ft)
- 2 Colored wires (free choice of color, will be referred to as wire “X” and “Y”)
- 5 000 979 025 E, wire with crimp terminal attached, available at VW dealer
- 8 Butt connectors

CAUTION: This guide shows similarities with the instructions included with the VW cable harness, although their manual is not made for US cars, therefore if you own a US Golf, do not follow those instructions. However you should keep this manual by your side, it may contain useful information required to remove interior trim, safety procedures, etc. Before you start, I suggest you read the whole guide, if there is something you don't understand, please do not proceed!

Electrical Installation:

1. Disconnect the earth cable from the battery
2. Fit the VW 3-wire harness and the 2 additional colored wires (“X” and “Y”) along the left side of the car, starting from the BCM to the rear left taillight.
3. Unlock the connector housings “A” and “C” from the BCM.
4. Remove the wire in chamber **65 from connector A**, cut off the crimp contact and extend using a single wire **000 979 025 E** and a butt connector.
Then insert it in chamber **3 of connector C**
5. Remove the wire in chamber **10 from connector C**, and put in in chamber **9 of connector C**
6. Locate the wire in chamber **60 from connector A**, cut the wire a few inches before the connector and extend with **wire “X”** using a butt connector.
Isolate the loose end of the cutted wire using electrical tape and seal with a heat shrink tube.
7. Locate the wire in chamber **31 from connector C**, cut the wire a few inches before the connector and extend with **wire “Y”** using a butt connector.
Isolate the loose end of the cutted wire using electrical tape and seal with a heat shrink tube.
8. Connect the 3 ends of the VW harness in the BCM connectors as follows:
 - **Blue wire** in chamber **10 of connector C**
 - **Yellow wire** in chamber **72 of connector A**
 - **White wire** in chamber **65 of connector A**
9. On the left-outside rear taillights, open the secondary interlock on the connector, remove the wire in **position 4**, cut off the crimp contact and **extend it with a grey wire** using a butt connector.
(this step can also be accomplished without cutting: by attaching a male terminal to the grey wire, inserting it in the crimp contact and sealing it with a heat shrink tube)
10. Insert the crimp contact of the **blue wire** of the VW harness in **position 4** of the connector.

11. Attach a single wire **000 979 025 E** to **wire “X”** using a butt connector, insert in **position 3** of the connector and close the secondary interlock.
12. Route the **newly extended grey wire**, together with the **yellow wire** of the VW harness on the left C-column upward to the roof, through the rubber tube in the hatch to the left-inner taillight.
13. Open the secondary interlock on the connector of the left-inner taillight, remove the grey/black wire in **position 1** and insert it in **position 3** of the connector.
14. Insert the crimp contact of the **yellow wire** of the VW harness in **position 5** of the connector.
15. Cut the grey wire so that it has the same length as the yellow wire, the piece of wire you cut off will be used to connect both inner taillights (this piece should be approx. 1,5m or 5 ft).
Make sure you have enough slack, both wires should stay a bit loose.
Join the ends of **both grey wires** and a single wire **000 979 025 E** using a butt connector and insert in **position 1** of the connector.
Now close the secondary interlock.
16. Open the secondary interlock on the right-inner taillight connector and remove the red/grey wire in **position 1** and insert in **position 3**.
17. Route the **remaining end of the grey wire** to the right-inner taillight, attach a single wire **000 979 025 E** using a butt connector and insert it in **position 1** of the connector.
Close the secondary interlock.
18. Route **wire “Y”** together with the **white wire** of the VW harness on the left C-column upward to the roof and on to the right-outside taillight.
19. On the right-outside taillight, open the secondary interlock on the connector, remove the wire in **position 4**, isolate the crimp contact using electrical tape and seal with a heat shrink tube.
20. Insert the crimp contact of the **white wire** of the VW harness in **position 4** of the connector.
21. Attach a single wire **000 979 025 E** to **wire “Y”** using a butt connector and insert in **position 3** of the connector and close the secondary interlock.
22. Reconnect earth cable to the battery.

Note: To get the rear fog-lights working, you will need a light switch with rear fog function (euroswitch), no additional steps are needed, a simple replacement of your current light switch will do.

Coding:

CAUTION: Before making ANY changes, you should run and Save a controller channel map of Adaptation in address 09, if you don't know how to do this, please visit: http://wiki.ross-tech.com/wiki/index.php/Control_Module_Maps
If anything goes wrong, use this channel map to retrieve your original coding

Now that all wires are in place, we need to perform some coding, make sure you code as follows:

(1)-Leuchte16BLK SLB35BLK SL KC9-Lasttyp 16	37 - allgemeine LED bis 12W
(4)-Leuchte16BLK SLB35BLK SL KC9-Lichtfunktion A 16	Blinken links Hellphase
(6)-Leuchte16BLK SLB35BLK SL KC9-Dimmw ert AB 16	100
(1)-Leuchte17TFL R BLK SRB3TFL R BLK SR KC3-Lasttyp 17	37 - allgemeine LED bis 12W
(4)-Leuchte17TFL R BLK SRB3TFL R BLK SR KC3-Lichtfunktion A 17	Blinken rechts Hellphase
(6)-Leuchte17TFL R BLK SRB3TFL R BLK SR KC3-Dimmw ert AB 17	100
(1)-Leuchte18BLK HLA60-Lasttyp 18	38 - LED Blinkleuchten
(4)-Leuchte18BLK HLA60-Lichtfunktion A 18	Blinken links Hellphase
(6)-Leuchte18BLK HLA60-Dimmw ert AB 18	100
(1)-Leuchte19BLK HRC31-Lasttyp 19	38 - LED Blinkleuchten
(4)-Leuchte19BLK HRC31-Lichtfunktion A 19	Blinken rechts Hellphase
(6)-Leuchte19BLK HRC31-Dimmw ert AB 19	100
(1)-Leuchte20BR LA71-Lasttyp 20	34 - LED Bremsleuchten
(5)-Leuchte20BR LA71-Lichtfunktion B 20	not active
(8)-Leuchte20BR LA71-Lichtfunktion C 20	Standlicht allgemein (Schlusslicht; Positionslicht; Begrenzungslicht)
(10)-Leuchte20BR LA71-Dimmw ert CD 20	10
(11)-Leuchte20BR LA71-Dimming Direction CD 20	maximize
(12)-Leuchte20BR LA71-Lichtfunktion E 20	not active
(14)-Leuchte20BR LA71-Dimmw ert EF 20	0
(1)-Leuchte21BR RC8-Lasttyp 21	34 - LED Bremsleuchten
(5)-Leuchte21BR RC8-Lichtfunktion B 21	not active
(8)-Leuchte21BR RC8-Lichtfunktion C 21	Standlicht allgemein (Schlusslicht; Positionslicht; Begrenzungslicht)
(10)-Leuchte21BR RC8-Dimmw ert CD 21	10
(11)-Leuchte21BR RC8-Dimming Direction CD 21	maximize
(12)-Leuchte21BR RC8-Lichtfunktion E 21	not active
(14)-Leuchte21BR RC8-Dimmw ert EF 21	0
(1)-Leuchte23SL HLC10-Lasttyp 23	34 - LED Bremsleuchten
(2)-Leuchte23SL HLC10-Lampendefektbitposition 23	00
(3)-Leuchte23SL HLC10-Fehlerort mittleres Byte DTC-DFCC 23	00
(4)-Leuchte23SL HLC10-Lichtfunktion A 23	Brake light
(6)-Leuchte23SL HLC10-Dimmw ert AB 23	100
(8)-Leuchte23SL HLC10-Lichtfunktion C 23	Standlicht allgemein (Schlusslicht; Positionslicht; Begrenzungslicht)
(10)-Leuchte23SL HLC10-Dimmw ert CD 23	10
(12)-Leuchte23SL HLC10-Lichtfunktion E 23	Blinken links aktiv (beide Phasen)
(15)-Leuchte23SL HLC10-Dimming Direction EF 23	minimize
(2)-Leuchte24SL HRA65-Lampendefektbitposition 24	00
(3)-Leuchte24SL HRA65-Fehlerort mittleres Byte DTC-DFCC 24	00
(1)-Leuchte24SL HRA65-Lasttyp 24	34 - LED Bremsleuchten
(4)-Leuchte24SL HRA65-Lichtfunktion A 24	Brake light
(6)-Leuchte24SL HRA65-Dimmw ert AB 24	100
(8)-Leuchte24SL HRA65-Lichtfunktion C 24	Standlicht allgemein (Schlusslicht; Positionslicht; Begrenzungslicht)
(10)-Leuchte24SL HRA65-Dimmw ert CD 24	10
(12)-Leuchte24SL HRA65-Lichtfunktion E 24	Blinken rechts aktiv (beide Phasen)
(15)-Leuchte24SL HRA65-Dimming Direction EF 24	minimize
(1)-Leuchte26NSL LA72-Lasttyp 26	1 - LED Tagfahrlichtmodul Versorgung
(4)-Leuchte26NSL LA72-Lichtfunktion A 26	Nebelschlusslicht wenn kein Anhaenger gesteckt und Rechtsverkehr
(6)-Leuchte26NSL LA72-Dimmw ert AB 26	63
(1)-Leuchte27NSL RC6-Lasttyp 27	32 - allgemeine LED bis 12W
(4)-Leuchte27NSL RC6-Lichtfunktion A 27	Standlicht allgemein (Schlusslicht; Positionslicht; Begrenzungslicht)
(6)-Leuchte27NSL RC6-Dimmw ert AB 27	10

This guide was made by Sigi_DR for the users of GolfMK7.com.
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