

Installation manual  
APS advance  
Rear view camera

Artikelnr. 37020  
36839

Audi Q5 8R – MMI 3G

## Content

General advice .....	1
Safety Instructions .....	2
References of legal regulations for operation .....	2
Scope of delivery .....	2
Installation instruction .....	3
Connection video loom .....	7
Coding .....	8

## General advice

While developing this product, your personal safety combined with the best operating service, modern design and an up-to-date production technique was especially taken into account.

Unfortunately, despite the utmost care injuries and/or damages might occur due to improper installation and/or use.

Please read the attached instruction manual completely with great care and keep it!

All articles of our production line pass through a 100 % check - for your safety and security.

We reserve the right to carry out technical changes which serve the improvement at any time.

According to each article and purpose, it is sometimes necessary to check each country's legal regulations before installing and starting the unit.

In case of guarantee claims, the device has to be sent back to the seller in the original packaging with the attached bill of purchase and detailed defect's description. Please pay attention to the manufacturer's return

requirements (RMA). The legal warranty directions are valid.

The guarantee claim as well as the operating permission becomes invalid due to: Der Garantieanspruch und auch die Betriebserlaubnis erlischt durch:

- a) unauthorized changes to the device or accessories which have not been approved or carried out by the manufacturer or its partners*
- b) opening the device's frame*
- c) device's repairs carried out by one's own*
- d) improper use / operation*
- e) brute force to the device (drop, wilful damage, accident etc.)*

During installation, please pay attention to all safety relevant and legal directions. The device has only to be installed by trained personnel or similarly qualified people.

---

## Safety Instructions

Installation requires special knowledge.

Do not install the unit yourself. For safe and reliable installation, consult a dealer having special knowledge.

- *Never use bolts or nuts from the car's safety devices for installation. If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the unit, it may cause an accident.*
- *Use the unit with a DC 12V negative ground car. This unit cannot be used in large trucks which use a DC 24V battery. If it is used with a DC 24V battery, it may cause a fire or accident.*
- *Avoid installing the unit in following places: - Where it would hinder your safe driving. - Where it could damage the car's fittings.*
- *This unit is only for use in the following vehicles. Only connections described within this instruction guide are allowed or required to use for installation.*
- *For damage impact caused by faulty installation, unsuitable connections inappropriate vehicles Kufatec GmbH & Co. KG assumes no liability.*
- *We advise you that these units process data out of the MOST - protocol from the vehicle. As the supplier of this device we don't know the overall system you are working with. If our device causes damage due to other changes made by to the vehicle Kufatec GmbH & Co. KG assumes no liability.*
- *Kufatec GmbH & Co. KG supplier do not guaranty the use of the product for changing's within a new vehicle series.*
- *If the car manufacturer's don't agree with the installation of our device by reason of warranty the Kufatec GmbH & Co. KG assumes no liability. Please check conditions and warranty before you begin the installation.*
- *Kufatec GmbH & Co. KG supplier reserves the right to change the device specifications without notice.*
- *Errors and changes excepted.*

## References of legal regulations for operation

Only use this unit in the intended domain.

If you use it in a foreign domain, if the unit is not installed properly, or if the unit will be reconstructed, the guarantee will expire.

## Scope of delivery

Wiring

Control unit (Only in case of item number 36839)

Camera (Only in case of item number 36839)

## Installation instruction

The following table shows the cable layout, as well as the position of the individual components.

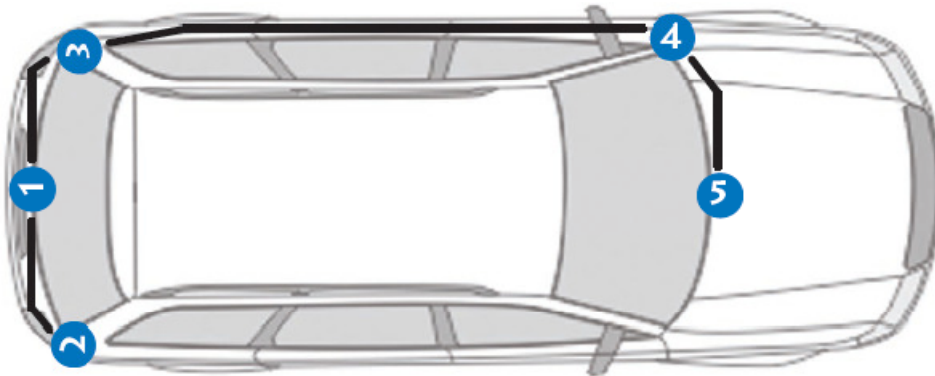


Fig. 1

1 – Rear view cam

2 – Fuse box

3 – Rear view cam control unit

4 – CAN-connector

4 – MMI 3G main unit

Remove the break down triangle. Loosen the screw located behind (Fig 2). Remove the cover of the trunk.



Fig.2



Fig.3



Fig.4

Remove the screws shown in Figure 3, 4 and remove the trim of the tailgate (Figure 5). This is just stuck and can be pulled from its socket.



Fig.4



Fig.5



Furthermore, please refer to the bottom of the tailgate cover (Fig. 6). Remove the covering in (Fig. 7) This is simply clipped on. Loosen the screws of the lashing points, and the screw behind the lever for the backrest (Fig. 8).



Fig.6



Fig.7



Fig.8

The hook (Fig. 9) is firstly twisted then withdrawn (Figure 9). The underlying screw is loosened (Fig. 10). Remove the pins of the D-pillar trim to remove it (Fig. 11).



Fig.9



Fig.10

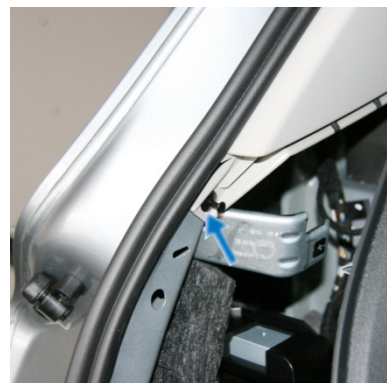


Fig.11

Loosen the nuts on the button for the tailgate operation (Fig. 12, 13) and take them out (Fig. 14).



Fig.12



Fig.13



Fig.14

Install the camera (Fig. 15). Connect the 2-pole and the GRAY FAKRA connector from the supplied cable kit to the RFC (Fig. 16). Start by routing the cables in the direction of the reversing camera control unit (Fig. 17).



Fig.15

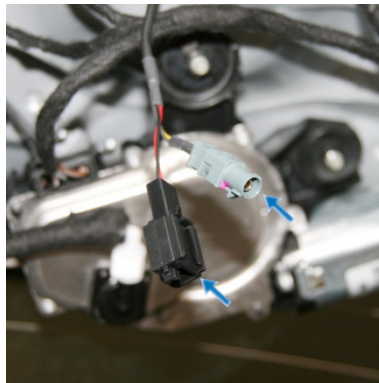


Fig.16



Fig.17

Connect the video cable (GRAY) coming from the camera to the terminal of the RFC control unit (GRAY) (Fig. 18). Connect also the GREEN FAKRA connector and the main wiring harness for RFC control unit (Fig. 18). Attach the brown wire (terminal) to the ground-point of the left D-pillar (Fig. 19). Mount the RFC interface as shown in Figure 20.



Fig.18



Fig.19



Fig.20

Begin with laying the CAN and video cable into the front area (Fig. 21). Remove the rear and front skirting board (Fig. 22). Run the lines, using an auxiliary line (Fig. 23) towards the left A-pillar. Lay the video cable further in the direction of main unit.



Fig.21



Fig.22



Fig.23



Loosen the screws shown in Figure 24, 25, 26 and remove the panel from the steering wheel.



Fig.24



Fig.25

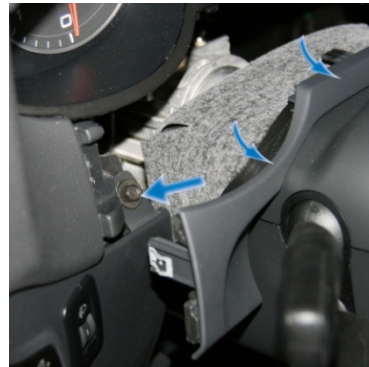


Fig.26

Remove the lever for the hood opening and the covering of the left A-pillar. This is the lock (Fig. 28) removed. Furthermore, loosen the screw shown in Figure 29.



Fig.27



Fig.28



Fig.29

Remove the CAN-disconnect plug (Fig. 30). To do this, slide to the right to unlock. See Figure 31. Release the connector lock in Fig. 32 and take the CAN connector out from the rear (Fig. 33).



Fig.30

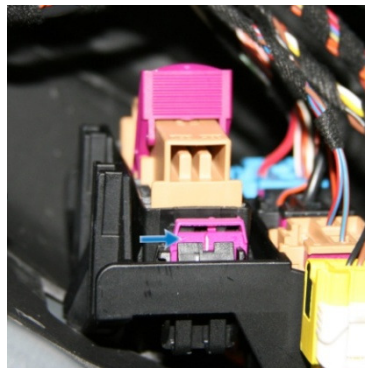


Fig.31



Fig.32

NOTE: In case of **Right hand drive** vehicles the CAN connector can be located behind the fuse (Fig.33).



Fig.33

Release Pink lock button (Fig. 35) and remove cover. Furthermore, remove the pink security lock in Figure 36.



Fig.34

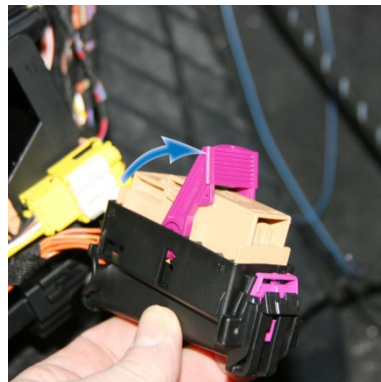


Fig.35

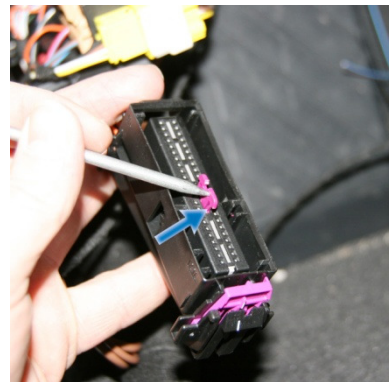


Fig.36

Press the lock (Fig. 37) and remove the casing of the CAN connector. The CAN wires are twisted pair to integrate in the area of **PIN 18-23** Low and High. Lay the video line (Fig. 38) coming from the A-pillar in the direction of the main unit. The connection to the Quad-Lock connector is carried out by a total of two lines in the following way. Please refer to the blue markings in the Figure.

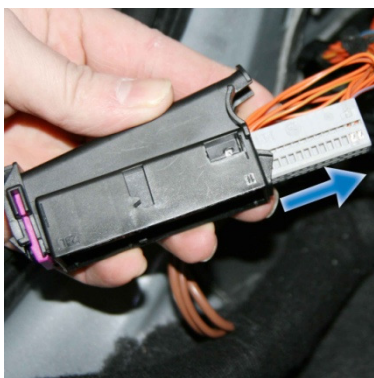


Fig.37

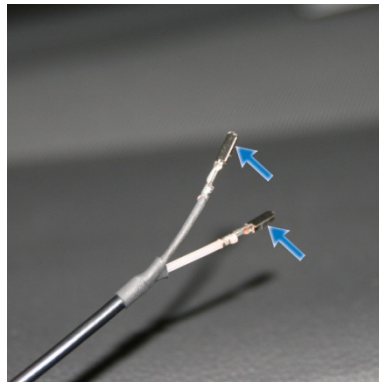


Fig.38



Fig.39

## Connection video loom

### MMI 3G unit

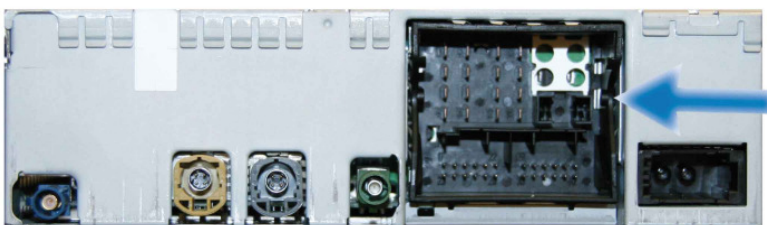


Fig.40

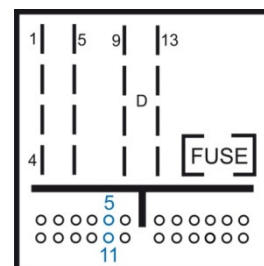


Fig.41

**Transparent – PIN 11**

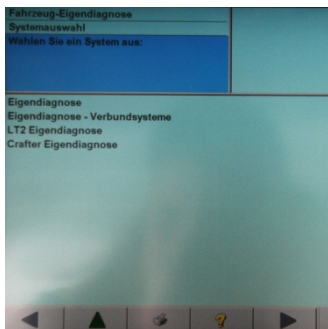
**Black – PIN 5**

The cable for continuous positive is taken from the fuse box behind the right trunk panel (Fig. 39). Please check before installation which fuse carries continuous positive.

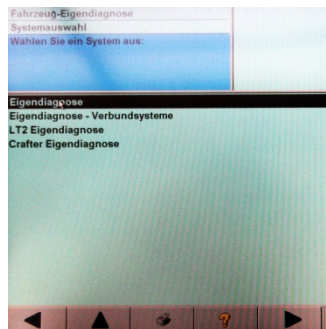


# Coding

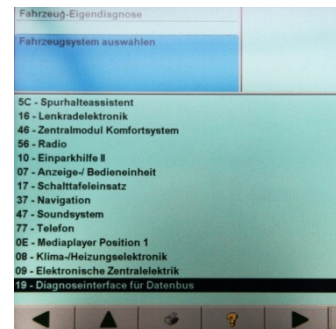
After installation the system needs to be coded. Please contact an Audi dealer. In order to code the vehicle system you need to choose the **Self-Diagnosis**. Please complete the coding step by step as shown on images below.



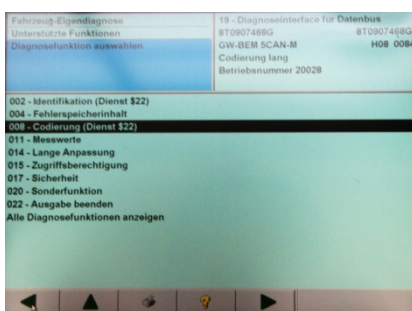
Vehicle self diagnostic



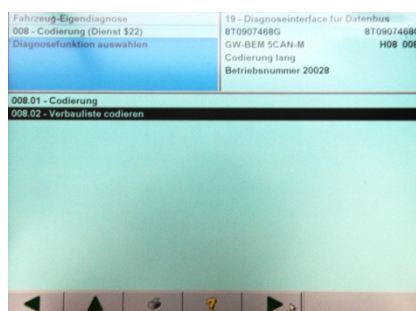
Self diagnostic



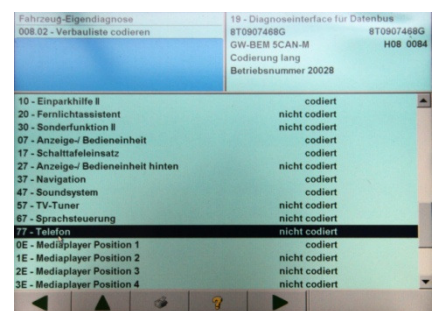
Address 19 (CAN Gateway)



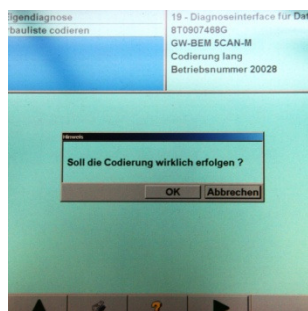
008 Coding



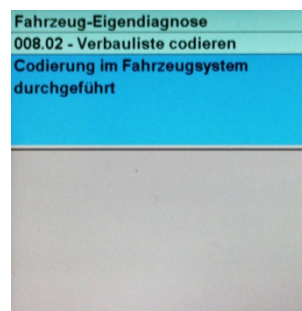
Component list



RVC to „coded“



Confirmation

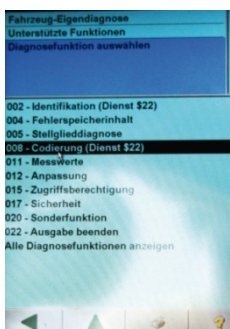


Coding completet

## Address 5F

Byte 07 - set Bit 1 to 1

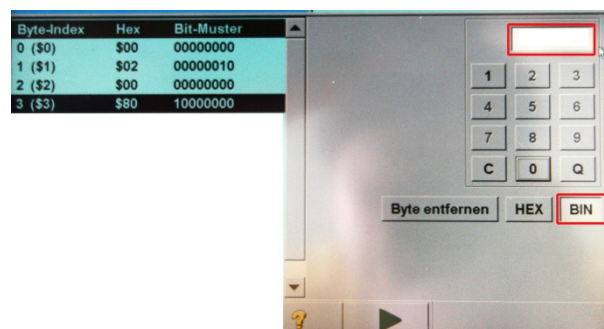
xxxxxx1x



Coding



Master



select BIN - enter value + confirmation

