

V1.2

**INSTALLATION
GUIDE**



CAR MEDIA SYSTEMS



VN815-VO-U1-DAB

INFOTAINMENT
TOUCHSCREEN NAVICEIVER
VISION SERIES FOR ANDROID™

IMPORTANT NOTES

This guide is an aid for the professional installation of the device.

Please note the following notes before installation:

- Always handle all parts of the device and the components of your vehicle with care.
- Under all circumstances observe the regulations of the vehicle manufacturer and do not make any changes to the vehicle which could impair driving safety.
- For safety reasons, disconnect the vehicle battery's ground connection before installation.
- Please always pay attention to the correct polarity of the connections.
- Please do not modify any harnesses or connections of the device or the vehicle as this may affect the warranty.
- Make sure that no cables are squashed or cause a short circuit.
- Do not lay cables in front of the airbags, e.g. in the dashboard or in a way that affects their function.



IMPORTANT NOTE FOR YOUR VEHICLE'S SERVICE STATION

After installation of the ESX Naviceiver inside the vehicle, the device is not recognized as the original radio and causes an error message in the fault memory of the vehicle (depending on the vehicle, for example „Infotainment CAN, no communication“). This error message is normal in connection with our ESX device and can not be deleted.

RECOMMENDED TOOLS



 T25

**Torx T25 screw-
driver or bit**



Plastic mounting wedges



Cable ties

RECOMMENDED ACCESSORIES



VNA-RCAM-HI










Connection unit for original VW rear
Cam module with variable line display
VNA-RCAM-HI



VNA-RCAM-LO

Connection unit for original VW
rear Cam module with static line
display VNA-RCAM-LO

SCOPE OF DELIVERY

ITEM	FIGURE	QUANTITY
Main device		1
System connector QUADLOCK standard		1
System connector POWER QUADLOCK		1
CAN-Bus decoder		1
USB adapter cable for factory USB port		1
Antenna adapter Fakra on ISO		1
AV connector with all audio and video connections and additional USB port		1
GPS antenna		1
DAB antenna		1

MICRO SD SLOT FOR NAVIGATION SOFTWARE



Here you can insert the MicroSD card of the navigation software. For the device to have access, you may need to assign the access path in the Apps menu under “Settings”.

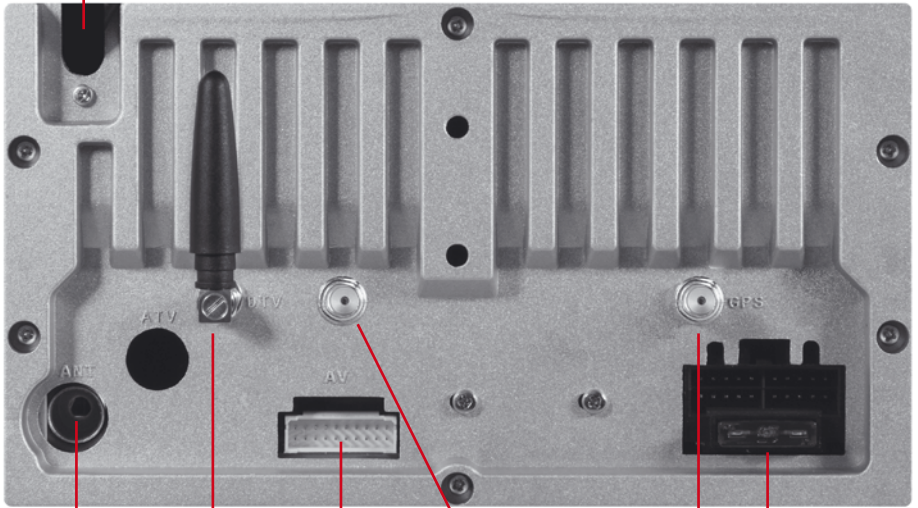
RESET BUTTON



If the device stops responding to input, the system is overloaded or crashed. Then reboot the system by pressing the reset button (RES) on the front panel. Use a suitable object, such as a paper clip or a ballpoint pen. After pressing the reset button, the system re-starts without losing your previous settings.

WIRING DIAGRAM

USB ports and external microphone port (optional)



Radio antenna

WiFi antenna

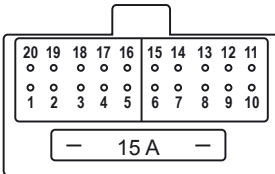
AV connector

DAB antenna

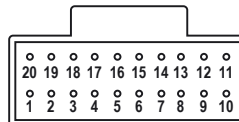
GPS antenna

System connector with device fuse

System connector with device fuse



AV connector



- 1 BATTERY (+12V)
- 2 REAR RIGHT OUT (+)
- 3 FRONT RIGHT OUT (+)
- 4 REAR LEFT OUT (-)
- 5 FRONT LEFT OUT (-)
- 6 ACC +
- 7 REVERSE CONTROL
- 8 ANT/AMP CONTROL
- 9 KEY2 (SPARE BIT)
- 10 CAN-RX

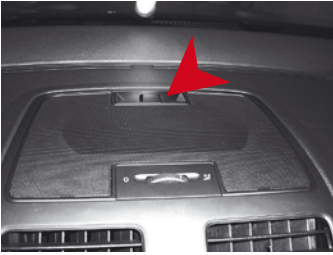
- 11 LIGHT CONTROL
- 12 STEERING GND
- 13 KEY1
- 14 CAN -TX
- 15 BRAKE CONTROL
- 16 FRONT LEFT OUT (+)
- 17 REAR LEFT OUT (+)
- 18 FRONT RIGHT OUT (-)
- 18 REAR RIGHT OUT (-)
- 20 GND (BATTERY -)

- 1 VIDEO OUT 2
- 2 GND
- 3 VIDEO OUT 1
- 4 CAMERA IN
- 5 GND
- 6 AUX VIDEO IN
- 7 AMPLIFIER CONTROL
- 8 REAR RIGHT OUT
- 9 REAR LEFT OUT
- 10 FRONT RIGHT OUT

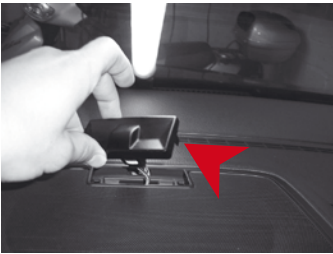
- 11 FRONT LEFT OUT
- 12 SUBWOOFER OUT
- 13 GND
- 14 AUX IN-LEFT
- 15 GND
- 16 AUX IN-RIGHT
- 17 GND
- 18 USB-DP
- 18 USB-DN
- 20 USB +5V

INSTALLATION

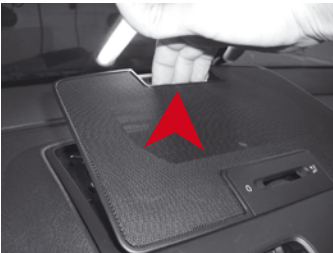
VOLKSWAGEN GOLF V (2003-2009)



Remove the light sensor from the ventilation grille (depending on model, if applicable) below the windshield.



Lift the sensor carefully, after you have slightly loosen the left and right fixings. Then disconnect the cable connector, but make sure that the connector slips not inside.



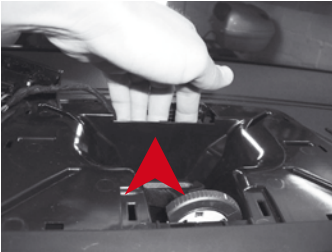
Carefully lift the ventilation grille and set it aside.



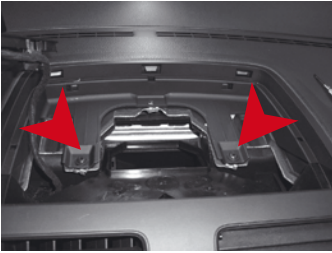
Remove the fixing screw of the ventilation cover.

INSTALLATION

VOLKSWAGEN GOLF V (2003-2009)



Carefully lift the ventilation cover and set it aside.



Remove both screws (Torx 25) of the ventilation.



Carefully lift the ventilation frame upward, but only a bit, the frame is still connected with the original radio.



Carefully pry on both sides the upper panel from the lower radio panel. Best is to use a plastic mounting wedge to avoid scratching the surface.

INSTALLATION

VOLKSWAGEN GOLF V (2003-2009)



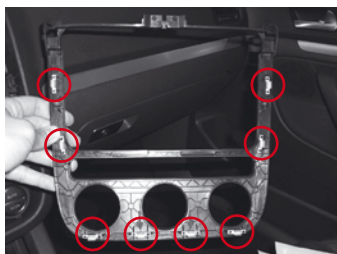
Lift the upper panel a bit.



Remove both screws of the panel and loose the radio slightly.



Carefully remove the panel around the radio.



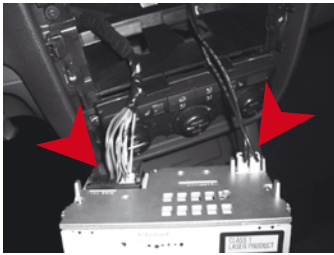
NOTE: The panel is held by 8 clips

INSTALLATION

VOLKSWAGEN GOLF V (2003-2009)



Remove the 4 screws (Torx 25) which hold the radio. Then pull the radio out of the bay.



Then disconnect the both antenna connectors (depending on car and configuration) and the huge car specific connector from the radio. If the original Fakra antenna plug does not fit mechanically into the ESX device, we recommend the usage of an adaptor.



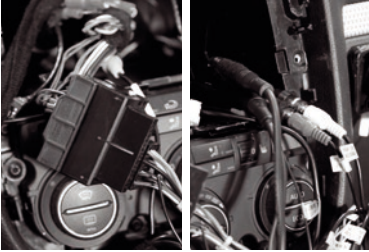
After the remove of the original radio.



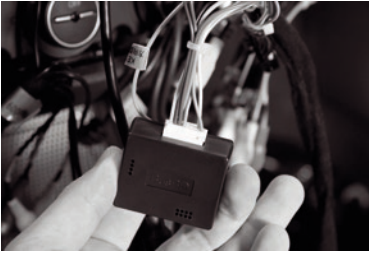
Mount the DAB antenna at the front passenger windshield and route its cable inside the A pillar to the center console. Also place the GPS and lay its cable up to the center console.

INSTALLATION

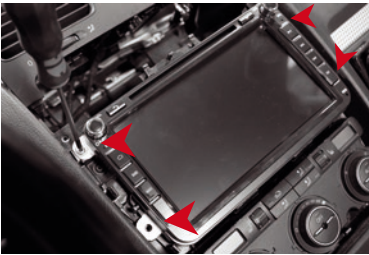
VOLKSWAGEN GOLF V (2003-2009)



Now plug the adapter plug onto the original wiring harness of your vehicle and connect all remaining plugs.



Connect the CAN-BUS decoder to the wiring harness.



After connecting all the plugs and connections, slide the new radio into the center console. Attach all 4 screws to mount the radio.



Fasten all the panels and devices that you removed to mount the radio.



CAR MEDIA SYSTEMS



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