

VL2-MIB2-E - Installation Manual

This interface can insert video onto 5 inch Volkswagen vehicles with 5 inch monitors with cd-drive above the monitor and Seat vehicles with Radio Swing (MIB2 Entry).

This product offers 2 video inputs, 1 rear-view camera input and 1 RGB input.

- Internal Daughter board is used, so Video and Reverse video can be easily switched and displayed from whichever state. The user press and holds the assigned steering wheel key to switch the input.
- Automatic switch into reverse camera mode, and the installer can choose the OEM reverse camera or installed camera using DIP5.



1 User's Operations



- Use the Voice key to switch the interface. [Press and Hold]
- The Reverse signal is automatically generated by interface.

Reverse camera installation :

When the driver goes to Reverse, the green wire from CAN box will become 12V [Volkswagen], this wire can give power to camera, it will also force the interface to display Reverse Video.

- When DIP5=OFF[UP state], the interface assumes that the car has OEM camera, and the OEM picture will be displayed.
- When DIP5=ON[Down state], the interface assumes that the car has NO-OEM camera, and the inserted video will be displayed.
- The driver may press the switch key["MENU" key in VW], the interface will switch from inserted camera picture to OEM picture.[this situation assumes that the CAR has OEM PDC picture.]

2. DIP settings of interface box

Some settings must be selected by the dip-switches on the video interface. Dip position down is ON and position up is OFF.



Dip	Function	ON (down)	OFF (up)
1	RGB-input	enabled	disabled
2	CVBS AV1-input	enabled	disabled
3	CVBS AV2-input	enabled	disabled
4	RGB-input resolution	VGA 800x480	RGB NTSC 400x240 or 480x240
5	Rear-view cam type	after-market	factory or none
6	No function	-	set OFF
7	Monitor selection	Try all 4 possible combinations of dip 7 and 8 to find the best picture (quality and size)	
8			

The 6PIN power connector signal definition between the Can box and interface box

YELLOW power supply of 12V BATT.

RED when=12V, the interface works. This wire is automatically generated by can box.

generated ACC =12V when key in ignition state

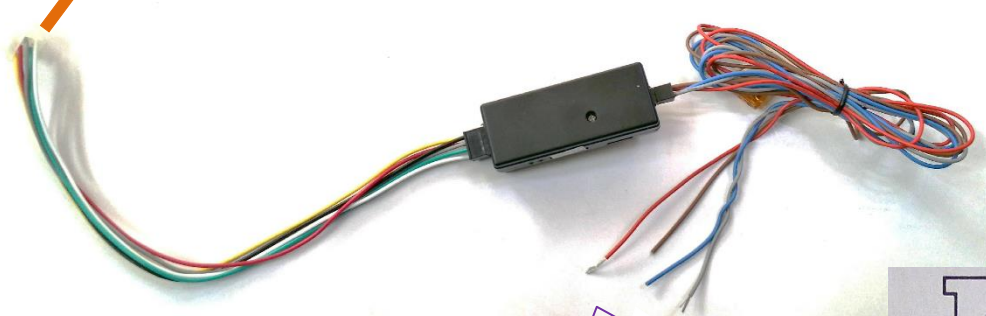
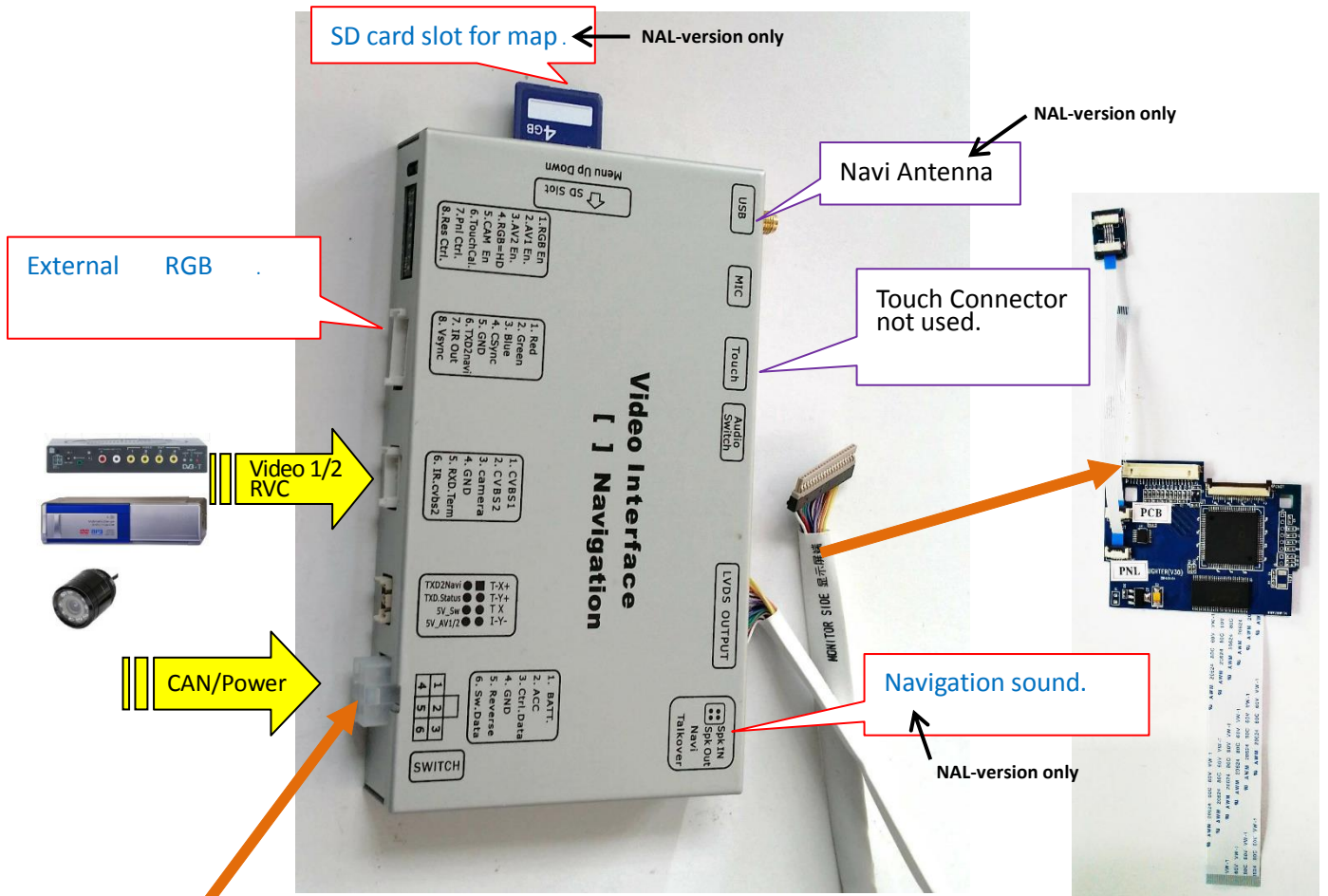
BLACK Ground

GREEN reverse trigger signal [when =12V the reverse video is enabled], this wire can also be used to give power to reverse camera. It can offer 1A in reverse mode.

WHITE Can box generated switch signal wire, when=12V, this interface switches.[max.25V]

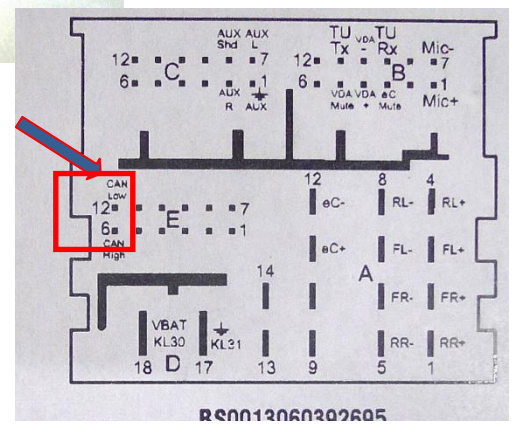
GRAY CAN-bus control data

3 System connection



The 4 input wires of the CAN box:

- Red with fuse (power supply) --- to the BATT/ACC of the car.
- Black (Ground) -----to the black ground wire.
- Blue (CAN high) -----to the can high as the label on CD shows.
- Gray (CAN low)----- the can low as the label on CD shows.



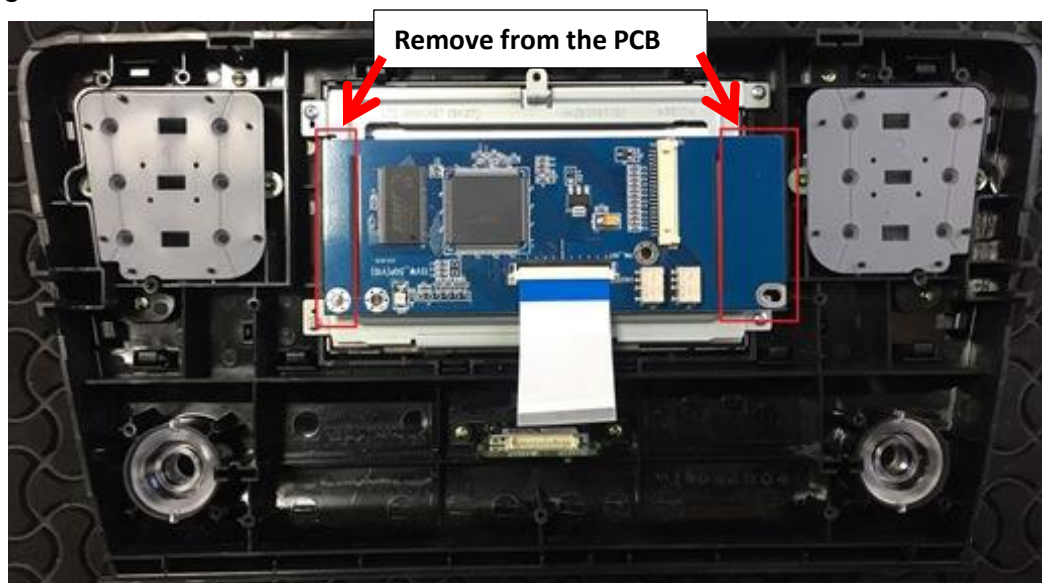
4 Daughter board installation

The daughter board needs to be installed inside the monitor,

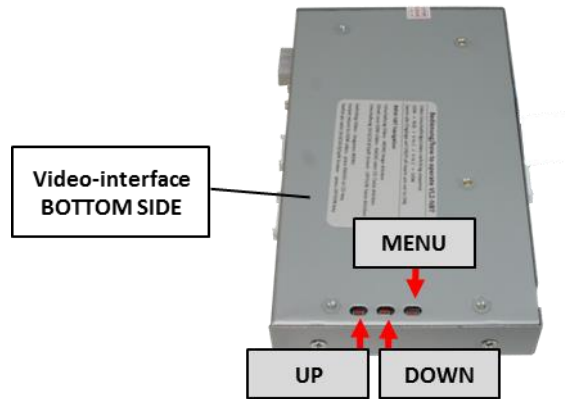
VW



Radio Swing - Skoda



5. the 3 side key buttons

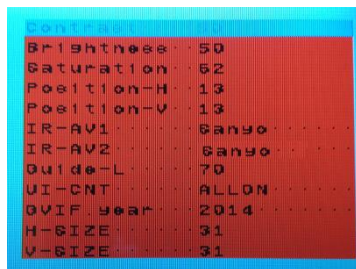


The picture settings are adjusted by the 3 buttons on the video-interface. Press the MENU button to open the OSD settings menu or to switch to the next menu item. Press UP and DOWN change the selected value. The buttons are embedded in the housing to avoid accidental changes during or after installation. Picture settings must be done separately for RGB, AV1 and AV2 while the corresponding input is selected and visible on the monitor. AV2 and CAM share the same settings which must be adjusted in AV2.

Note: The OSD menu is only shown when a working video source is connected to the selected video-input of the interface.

The following settings are available:

- Contrast
- Brightness
- Saturation
- Position H (horizontal)
- Position V (vertical)
- Guide-CNTRL (guide lines ON/OFF)



7. Parameters

No.	name	parameter
1	RGB map resolution	800X480 HD suggested.
2	Av1, , cam video	0.7Vpp with 75 ohm impedance NTSC/PAL/SECAM automatic switch
3	GPS antenna	5V active antenna from the golden finger connector.
4	Reverse Control wire	>5V will force into camera mode. All these wires can tolerate 12V for <10 seconds.
5	Normal Power consumption	4.8W
6	Standby current	< 10uA
7	Reverse trigger threshold	>5V trigger
8	Work temperature	-40 ~ +85C
9	Size	15.2 * 9 * 2.1CM
11	USB	OTG function,1A output with surge of 3A.
12	Compatible with maps	Navione, navitel, Igo, Primo.sygic, etc.