

Audi A4L installation manual

This interface offers RGB, AV inserting onto A4/A5/Q5 panel in a plug-n-play way without cutting wire or using solders. It also offers these functions:

- super Stable,Clear and high-resolution RGB processing for Navigation map display.
- automatic camera switch.
- Optional adjustable reverse guideline display for helping reversing.
- Speed pulse, Reverse, Night lamp signals decoded from the CAN bus for the aftermarket navigation.

Installation location:



Remove the big plastic part shown by the yellow arrow, [No screws, only hooks], then the total plastic can be taken down, and then the 4 screws can be seen.

Remove the 4 screws, then the panel can be taken down, the interface can be installed behind it.



There is a 10P cable which is carrying the signals, the interface will be inserted onto this cable.



(2) System connection



One 70cm LVDS cable to the panel.

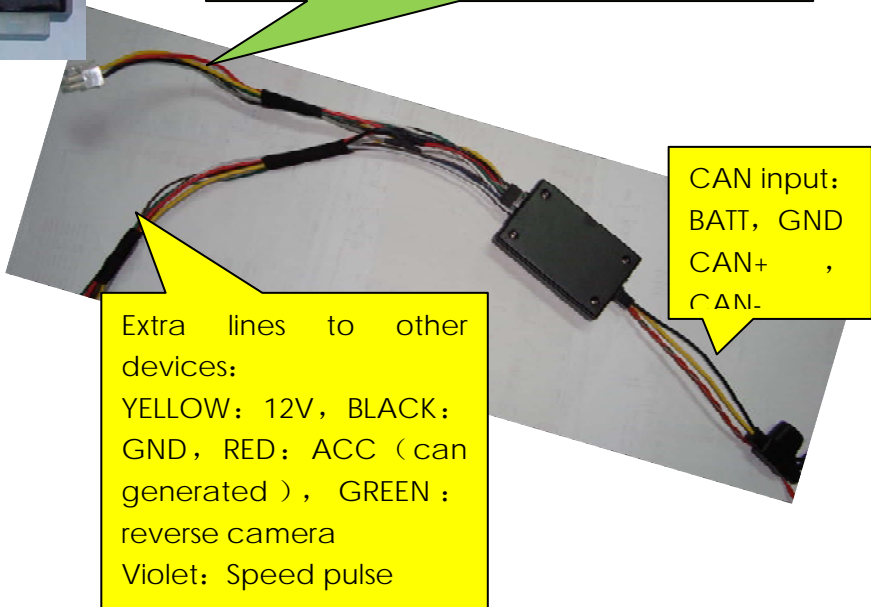


6Pin connector to the Box:
Yellow: Battery 12V, **BLACK**: GND,
RED: ACC (can generated),
GREEN: REVERSE,
WHITE: Switch signal[=-5V when MODE pressed].
GREY: Please do not use.

Navigation:



DVD/TV/ Camera:

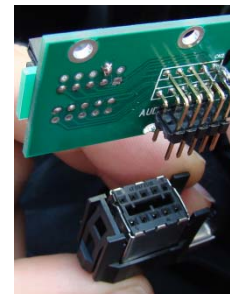
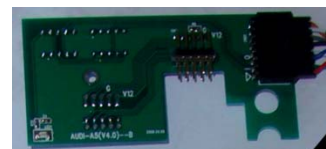
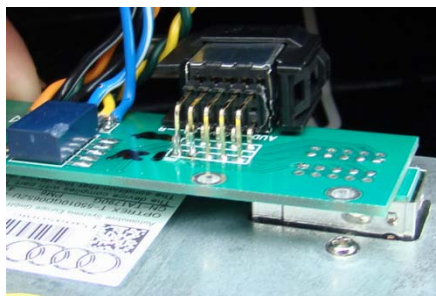


CAN input:
 BATT, GND
 CAN+ ,
 CAN-

Extra lines to other devices:
YELLOW: 12V, **BLACK**: GND, **RED**: ACC (can generated), **GREEN**: reverse camera
Violet: Speed pulse

Daughter board for panel:

The original cable should be inserted onto the daughter board, while the daughter board can be inserted into Panel by the 10P connector, One M2 screw will fix the daughter board, there are noses to prevent the daughter board, and cable to be inserted in the



(2) DIP switches and INPUT switches



DIP	1	2,3	4	5	6	7	8
Function	RGB	AV1/2	Empty	Green wire	Empty	Reverse	Empty
When =ON	Enable	Enable	dip	trigger to LVDS, otherwise to cam- AV	Dip	Guidelines display	Dip

There are 2 ways for the user to switch the inputs, Every input can be disabled/Enabled by DIP switch.:

- (1) Mode key on the steering wheel.
- (2) The user can press the red keypad to switch the input.

(3) 3 keys

There are three keys on the side of box, the user can press the keys to adjust these values:

Items	Functions
Brightness/Contrast/Color	The color tuning of each input
H Loc	The Horizontal location of picture.
CAM TOP L/R, Cam bottom L/R	The Camera guideline's Top Left/Right location, Bottom Left/Right location, these values can be tuned to suit the car body most according to the camera angle. The guideline can be disable by DIP7.

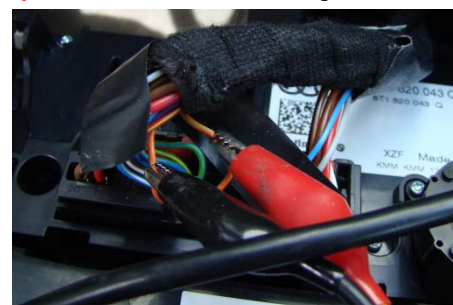
(4) CAN connection

The CAN bus on the Air Conditioning console[just under the CD player] is very easy to get out, and has more data than the CD player. The two arrows in the picture are CAN-HIGH[wire: Orange-Green, **RED pick**], and CAN-LOW [Orange-BROWN, **BLACK pick**].

The Can bus box is receiving data from the car and generate the signals.

The user can use the red keypad to switch the input.

The user can also press the mode key on the steering wheel to switch the input. [pic below.]



(3) Parameters

Interface Box side:

Video input	:	0.7V ~1Vpp
Sync input	:	TTL level [Negative polarity]
BATT	:	12V[Max.30V]
Reverse[Green]	:	12V [Internal Relay]
Switch[White]	:	Valid at >3V. TTL valid. [max.35V]

CAN box side:

CAN H/L	:	Audi level.
Reverse output	:	=BATT[12V,max 0.2A] when in Reverse, otherwise 0V.
ACC output	:	=BATT[12V,max out 0.5A] [This ACC is generated according to CAN activity, ACC=0V when CAN stops, so =12V 30 seconds more even car's key out.]
Lamp	:	=BATT[12V] when car's evening lamps turns on,otherwise =0V. [max out 0.2A]
Speed Pulse	:	+5V AC digital output[AC : Center=0V], ratio: 7 pulses/Second =1 KM/H.
Switch[White wire]	:	=5V when user press "MODE" key on the steering wheel.

[CAN wrong connection is not hurting device, when correctly connected, the LED in the box should be **blinking** when can data available.]