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# **AUDI-VC**

# NTV-KIT789



### Overview

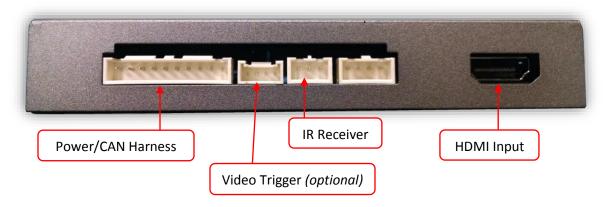
The *AUDI-VC* Kit interfaces a backup camera input (with active parking lines), 1 additional composite video input and an HDMI source into the *Virtual Cockpit* cluster screen equipped in select 2017+ Audi A4, Q7, Q5, TT or R8 vehicles. Installation is performed behind the radio (inside glove box).

### **Kit Contents**



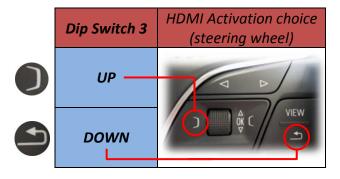
# **Interface Connectors**





# **Dip Switch Settings**

Dip SW:	1	2	3	4 (trans)	5	6
UP	No HDMI	A4 / Q7/Q5	See below	AUTOMATIC	Leave UP	Leave Down
DOWN	Adding HDMI	TT	See below	MANUAL	Leave UP	Leave Down





**Note:** Remove power to the unit prior to making adjustments to the dip switches

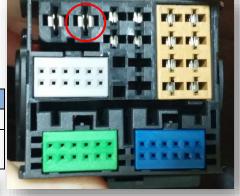
### **AUDI-VC Installation**

1. Remove the MIB radio module located in glove box – this will require an 8mm socket and possibly a right-angle driver. Disconnect any associated

harnesses and set the radio aside.

2. Grab the provided 'Power/CAN Harness' from the AUDI-VC kit. Connect the following wires to the car:

Interface wires	Connect to car	Location
Black (Ground)	Chassis Ground	PIN 15 (Radio plug)
Red (ACC 12v)	ACC 12v (+)	Black/White or Black/Blue @
		pass fuse box



3. Locate the factory *Pink (For AUDI's with NAV, this connector is GRAY)*, 4-pin round connector that was removed from the radio in step 1. Connect this factory plug to the AUDI-VC

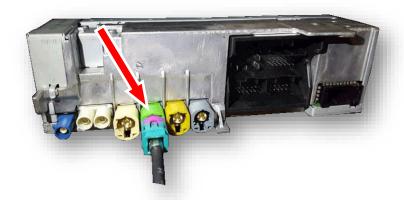
interface at the port labeled 'LVDS OUT'.\*



 Connect the smaller white plug side of the provided LVDS Video Cable to the port on the AUDI-VC interface labeled 'LVDS IN'.



 Connect the free end of the provided LVDS Video Cable (green) back to the factory radio at the bright GREEN cluster LCD port.



6. Connect the provided 12-pin plug & play portion from the main power harness to the main factory MIB radio connector as shown below. Pay attention to the orientation, as this is vital to proper operation:

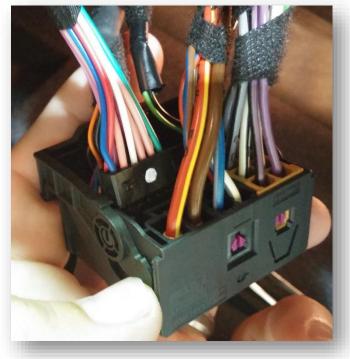


Connect OEM 12-pin to provided 12-pin (black, PIN-side). *NOTE: printed arrow location on provided 12-pin plug vs OEM plug.* 

Connect the female 12-pin side of the plug & play portion to the OEM main MIB connector as shown. Note the paint dot must face towards the thick power wires.

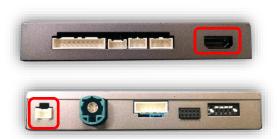
If the connector does not secure properly, zip tie the harness in place to surrounding wires *leaving slack so that the connector stays in place*. Use a spot of glue on the back side if you're still concerned with this.

Note: sometimes it is easier to connect the main plug back to the MIB module first and then connect this 12-pin in.



7. Connect ground and power for your camera, you may use the provided **brown** wire (labeled 'REAR12VOUT') for power for convenience. **NOTE:** This power source will only supply 12v when the vehicle is in reverse (if forced rear camera is desired at any time, you'll need to use an ACC source for power instead).

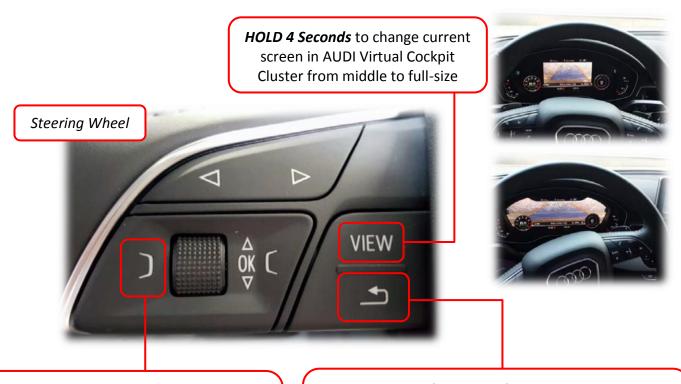
- 8. Connect the video feed from the camera to the RCA among the main power harness labeled 'CAMERA'.
- Connect the white plug from the *Power/CAN Harness* to the port on the AUDI-VC interface labeled 'POWER CAN'.
- 10. Connect the HDMI Cable (not provided) from the HDMI source to the HDMI-IN port on the AUDI-VC.
  - a. If using HDMI, audio is extracted from the module via the provided Audio Output Cable from the port on the interface labeled 'HDMI AUDIO OUT'.



- 11. *Optional:* If adding an additional composite video input (including front camera), connect the video signal to the RCA among the Power/CAN Harness labeled 'CVBSIN'.
- 12. Start the car and test for proper functionality before replacing any dash pieces.

# **AUDI-VC Operation**

- If a rear camera was installed, placing the vehicle in reverse will show the connected camera's image, with dynamic guidelines for convenience.
- In order to use HDMI on the cluster, you must **begin in Navigation mode on the cluster**. See below for activating HDMI or additional video inputs:



### With Dip Switch #3 UP:

Press & hold *LEFT TAB (2 seconds)* to cycle through installed & active video input options. Order:

OEM-HDMI-AV1-OEM

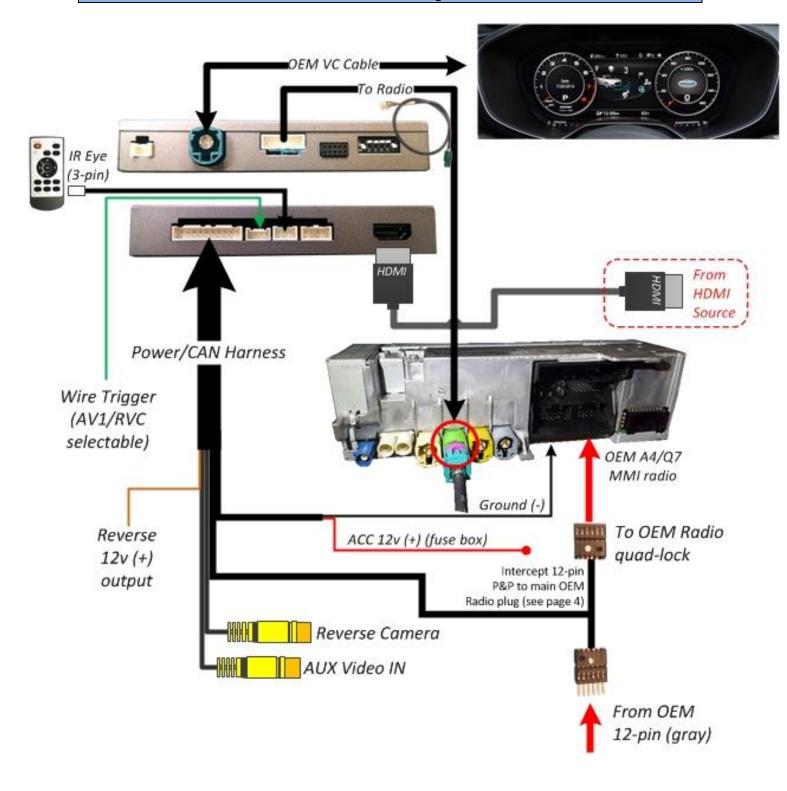
### With Dip Switch #3 DOWN:

Press & hold *BACK ARROW* (2 seconds) to cycle through installed & active video input options. Order: *OEM-HDMI-AV1-OEM* 

Additionally, sending 12v (+) to the green wire through a toggle will force the 'CAMERA' or 'CVBSIN' video signal, selectable via the OSD menu. See page 8 & 9.

\*Note: These features will only function when active (see OSD Menu settings & Dip Switch settings)

# **AUDI-VC Install Diagram**

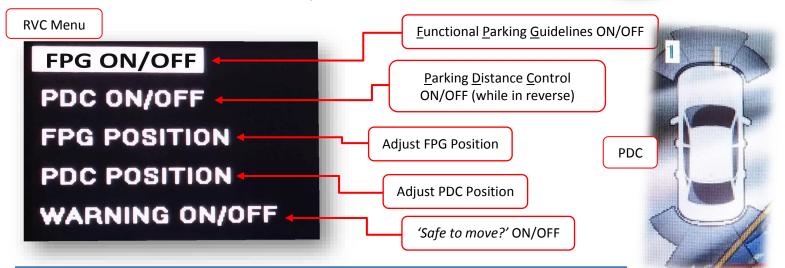


### Menu Adjustments

# Before you start:

- The IR-Eye must be connected
- Make sure the car's ignition is on and radio is on
- You must be in *Reverse Camera* mode *OR AUX Video* mode (see below):
  - Reverse Camera Mode adjusts Reverse Camera Settings
  - AUX Video Mode adjusts AUX Video Settings
- Press the **OK BUTTON** 4 times (numbers will display per press), then press **POWER**.
- The *OSD Menu* will appear on screen (auto-time out in about 5 seconds if no action occurs).





# NAVI AV SET INFO FRON CAM OEM FCAM VIDEO-ADJ NAVI AV SET INFO AV1-SEL AV2-SEL AV3-SEL AV3-DSP AV3-DSP

AUX VIDEO

Menu

### If adding a front camera OR Aux Video source:

- 1. Disconnect POWER/CAN Harness from interface
- 2. Place DIP SWITCH 1 in the DOWN position, reconnect power
- 3. Press the *LEFT TAB or BACK ARROW* button on steering wheel to activate *HMDI Input*
- 4. Press **OK** button on remote 4 times, then press **POWER**

**SET – FRON CAM** must be turned on if adding a *front camera* **and the user wishes for automatic front camera switching.** Options for 5, 7, 9 or 11 seconds are user-selectable for the length of time the front camera input stays active once the vehicle is placed out of reverse.

If the user wants only an AUX video input without front camera, set AV1-SEL to ON, leave FRON CAM off.

**Once finished with settings,** place DIP SWITCH 1 back into the **UP position** and reset power to interface.

### Green Trigger wire setup

This module includes a green *input* wire for analog triggering of either the Reverse camera input or the 'AVIN' input (yellow RCAs), selectable through the AV menu. This allows for adding multiple cameras through the use of an SVS-6 switcher, etc. Follow the steps below adjust this feature. *NOTE: by default, the green wire will trigger the Reverse camera input RCA.* 

- 1. Put dip switch #1 in the **DOWN** position. When this section is complete, return switch #1 **UP**.
- Activate the 'NAV INPUT' by holding the LEFT TAB or BACK ARROW button on the steering wheel.
- 3. Once 'NAV INPUT' shows on the screen, on the remote press the **OK BUTTON** <u>4 times</u>, then press **POWER**.
- 4. Navigate to the 'SET' section.
  - Select 'REVERSE WIRE'
  - Choose 'AV1', 'REAR' or 'REAR MODE' (explanations below)
  - Press MODE on the remote to return and exit the OSD menu (or let it time out).
  - Test by sending temporary power (12v +) to the *green wire* labeled *reverse*.



AV1 shows the 'AVIN' RCA when the green reverse wire is triggered.



REAR shows the 'CAMERA' RCA (with no lines) when the green reverse wire is triggered.



REAR MODE shows the 'CAMERA' RCA (with dynamic lines) when the green reverse wire is triggered.