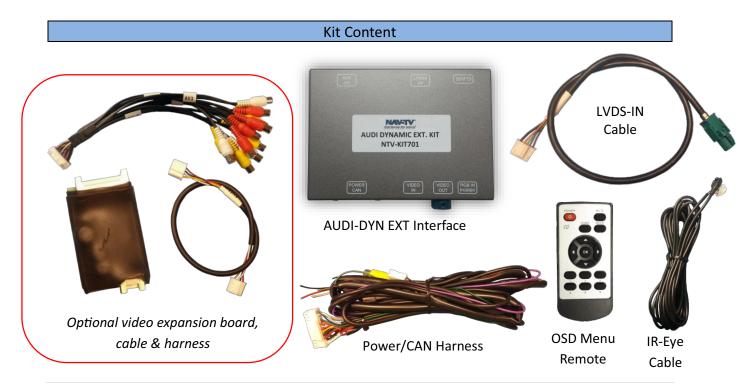


Overview

The AUDI-DYN EXT Kit interfaces a backup camera (with dynamic guidelines) and one additional video input (front cam, etc) to the factory media screen in select Audi vehicles with the *external MMi media system* (MMi controls on the console, not vertical radio face).



Interface Connectors
Power/CAN LVDS Video IN LVDS Video OUT RGB IN
LVDS (Not Used) Not Used Expansion Board Control Not Used Dip Switches

Dip Switch Settings

Dip SW:	1	2	3	4	5	6	7	8
UP	AUX MENU OFF	CAN	CAN	RVC OFF	CAN	N/A	HI RES	KEEP DOWN
	(leave UP normally)	TYPE	TYPE		SPEED 1			
DOWN	AUX MENU ON	CAN	CAN	RVC ON	CAN	N/A	LOW RES	KEEP DOWN
	(leave UP normally)	TYPE	TYPE		SPEED 2			

YEAR	VEHICLE	Dip Pos:	1	2	3	4	5	6	7	8
Up to	A4, A5,	UP	X	X		RVC OFF	X	N/A	HIGH RES	
2010	A6, Q5	DOWN			X	RVC ON		N/A	LOW RES	X
2011+		UP	X	X	X	RVC OFF	X	N/A	HIGH RES	
2011+	A4, A5, Q5	DOWN				RVC ON		N/A	LOW RES	X
Up to	Q7	UP	X		X	RVC OFF	X	N/A	HIGH RES	
2010	ų/	DOWN		X		RVC ON		N/A	LOW RES	X
2011+	02.07	UP	X			RVC OFF		N/A	HIGH RES	
2011+	Q3, Q7	DOWN		X	X	RVC ON	X	N/A	LOW RES	X
2011+	A6	UP	X	X	X	RVC OFF		N/A	HIGH RES	
		DOWN				RVC ON	X	N/A	LOW RES	X



Note: You must remove power to the unit prior to making adjustments to the dip switches.

AUDI-DYN-EXT Installation

ATTENTION INSTALLER: All connections (including CAN) must be made BEFORE connecting the power harness to this unit for proper startup operation.

- 1. Remove the factory radio (CD). Depending on the vehicle, this will require EURO tools or just prying the climate control panel from the sides (use plastic tools!). Disconnect all harnesses and set the radio aside.
- 2. Remove/drop the glovebox. This requires removing multiple 8mm bolts which secure it to the dash. In some vehicles the pocket or single DIN media-gateway must be removed to access a bolt for removal.
 - a. Remove this beauty panel *before dropping glove box* (newer AUDI's, beneath glove box):
- 3. Connect the provided LVDS-IN Cable to the OEM radio at the *pink* connector (no nav) or gray connector (with nav). This connector is keyed and will only fit in one direction. Run the other end of this cable out to the glove box area and connect to the interface plug labeled 'VIDEO IN'.
- 4. Connect the <u>OEM</u> pink (or gray) circular HSD connector previously connected to the

radio (removed in step 1) to the green port on the interface labeled 'VIDEO OUT'. You may need to unwrap/cut factory tape for it reach the module with proper slack.

- 5. Reconnect remaining plugs to the radio and carefully place it back into the dash. Don't secure the radio until fully tested.
- 6. **Optional:** If this car is **not** equipped with OEM rear parking sensors, you may turn the PDC off in the OSD menu system (see page 7 for menu information).

Note: If adjusting any RVC or AUX Video menu settings, temporarily connecting the provided IR-Eye is *required*. The IR connector is located among the main power harness (2-pin & 3-pin). See menu settings on page 7 for more info.











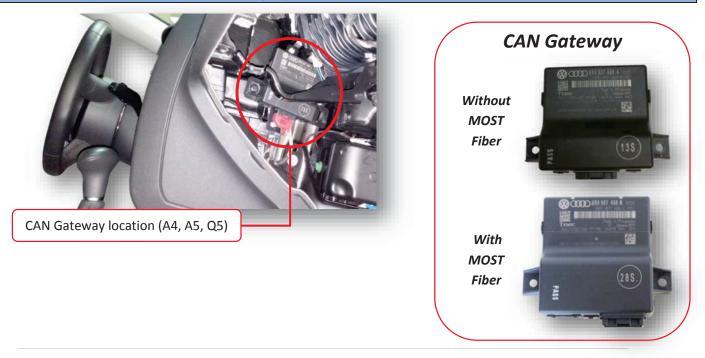
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 Grab the provided *Power/CAN Harness* from the AUDI-DYN-EXT kit. Use the chart below to locate and solder (splice, don't cut) the following wires to the car (*you may have to extend a pair of CAN wires for Q7*):

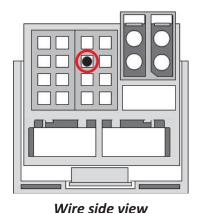


Vehicle	Interface wires	Connect to AUDI Wires:	Wires Location			
	GROUND (Black)	Brown (-)	CAN Gateway or Radio			
ALL	POWER (Red)	Blue/Red (+)	CAN Gateway or Radio			
/ /	CAN HI (Blue)	CAN HI (Orange/Green)	CAN Gateway (Right side of radio.			
A4/A5/		er ar an (or ange, or cen)	Must remove glove box for access.)			
Q5	CAN LO (White)	CAN LO (Orange/Brown)	CAN Gateway (Right side of radio.			
	CAN LO (WIIILE)	CAN LO (Orange/ Brown)	Must remove glove box for access.)			
A6	CAN HI (Blue)	CAN HI (Orange/Blue)	Climate Control (Beneath radio)			
AU	CAN LO (White)	CAN LO (Orange/Brown)	Climate Control (Beneath radio)			
Q3/Q7	CAN HI (Blue)	CAN HI (Orange/Black)	CAN Gateway (High in drivers dash to the left of steering wheel)			
Q3/Q7	CAN LO (White)	CAN LO (Orange/Brown with blue dots)	CAN Gateway (High in drivers dash to the left of steering wheel)			

AUDI A4, A5, Q5 CAN Wires Location



- 8. Install your reverse camera and run signal, power and ground wires up front to the AUDI interface.
- 9. Power your camera with an ACC source, not a reverse lamp trigger (the *purple* wire from the main power harness labeled *'REAR12VOUT'* provides 12v (+) when in reverse only, if you want to use a reverse signal).
- 10. Connect the signal for your camera to the yellow RCA among the *Power/CAN Harness* labeled '*CAMERA*'.
- 11. Optional: If adding an auxillary video in or front camera, connect the signal to the RCA among the Power/CAN Harness labeled 'CVBSIN'. If automatic front camera switching is desired, the setting must be activated in the OSD Menu system. See page 8.
- 12. Connect the 24-pin white plug from the *Power/CAN Harness* to the port on the AUDI 09 interface labeled *'Power/CAN'*.
- 13. UPDATE: For older AUDI's (only) that do not have the 'iNAV' button on the steering wheel and adding AUX Video/Front Camera, connect (solder) the White wire labeled 'MMI' to the MMI data wire located behind the OEM radio at the Euro-style plug, at pin 10. This wire color will vary by vehicle, but the pin location will remain the same.





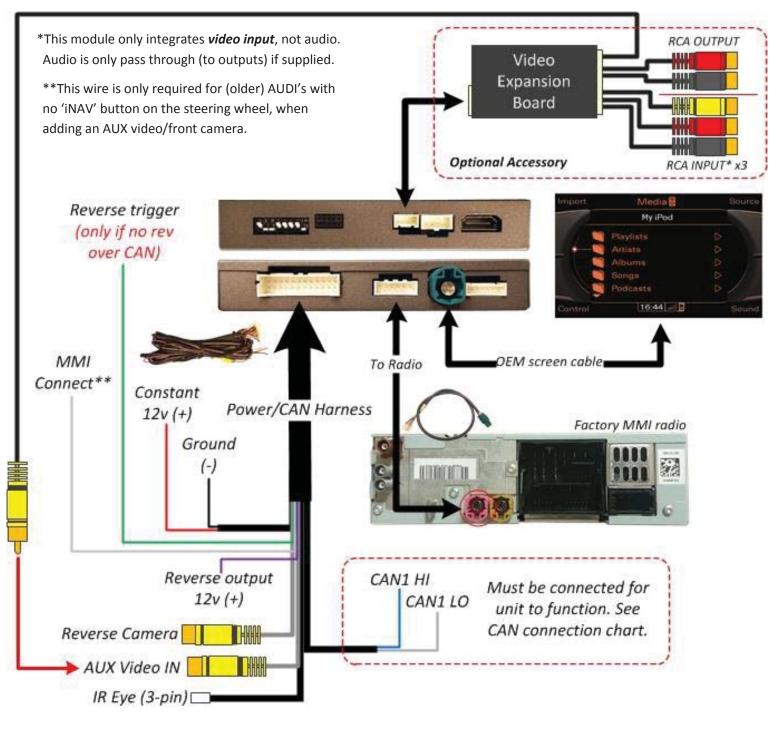
Press the **NAV** button near the MMi command knob for switching to the AUX video/front camera source at any time.

14. Start the car and test for proper functionality before replacing dash pieces. If menu adjustments are needed (to remove sensor overlay, etc.), proceed to 'Menu Adjustments'

Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for misuse of its product. If you do not agree, please discontinue use immediately and return product to place of purchase. This product is intended for off-road use and passenger entertainment only.

Installation Diagram



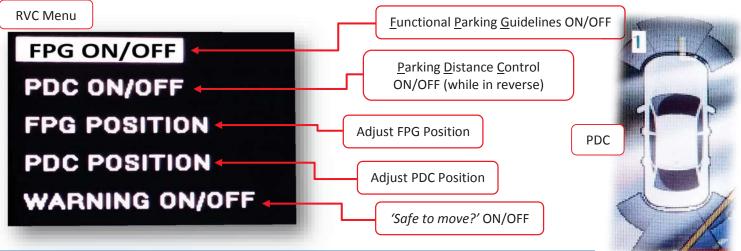


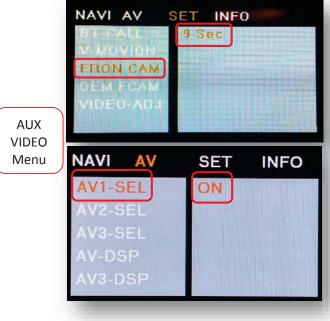
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Menu Adjustments

Before you start:

- 1. The IR-Eye must be connected
- 2. Make sure the car's ignition is on and radio is on
- 3. 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
- 4. Press the OK BUTTON 4 times (numbers will display per press), then press **POWER**.
- 5. The **OSD Menu** will appear on screen (auto-time out in about 5 seconds if no action occurs).





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 *iNAV* button on the steering wheel to activate 'NAV 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

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

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Return (AUX VID

menu control)

AUDI DYN-EXT Operation

- Once all connections have been properly made, placing the vehicle in reverse will show the connected rear camera image with Dynamic Guidelines which correspond with the steering wheel geometry.
- If a front camera was added and *Automatic front-camera switching* was turned on, whenever the vehicle leaves reverse (after showing reverse image once) the connected front camera will display for the user-set amount of time (5, 7, 9 or 11 seconds, see page 7 for menu settings).
- If AUX Video is wanted (*no front camera*), use the *iNAV* button on the steering wheel for AUX Video switching. The option for AUX Video must be turned on in the AUX VID Menu (see page7).



For vehicles without 'iNAV' button on the steering wheel, use the **NAV** button near the MMi command knob for switching to AUX/font camera (*MMi wire must be* connected, see page 5, step 13).

