

NAV-TV

INTERFACING THE FUTURE

BHM
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NTV-DOC244

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AUDI DYNAMIC-A3

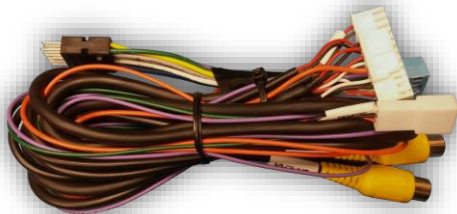
NTV-KIT702



Overview

The AUDI DYNAMIC-A3 Kit interfaces a backup camera input (with active parking lines) and 1 additional video input (front cam, etc) to the factory media screen in the 2014+ Audi A3 or VW Golf 7. Installation is performed behind the MMI (inside glove box).

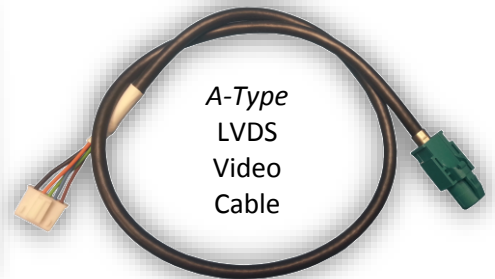
Kit Contents



Power/CAN Harness



DYNAMIC-A3 Interface



A-Type
LVDS
Video
Cable

Optional: NTV-KIT496



AUDI 3G-CAM NTV-CAM072



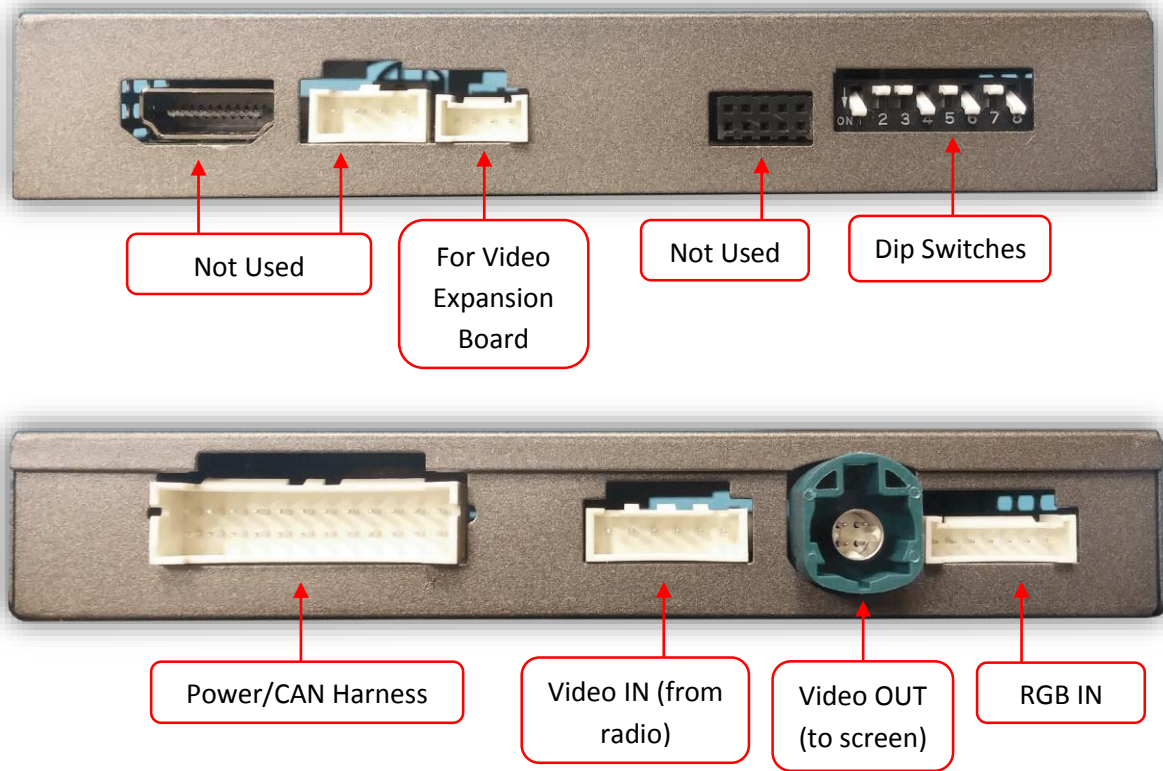
Infrared Receiver



OSD Menu Remote

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Interface Connectors



Dip Switch Settings

| | --- | AUX VID 1 | AUX VID 2 | RVC | TRANS* | iNAV button** | RES | --- |
|---------|---------|-----------|-----------|-----|--------|---------------|------|-----------|
| Dip SW: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| UP | Keep UP | OFF | OFF | OFF | AUTO | OFF | HIGH | Keep DOWN |
| DOWN | Keep UP | ON | ON | ON | MANUAL | ON | LOW | Keep DOWN |

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

Note: Dip Switches 1 & 8 must be left in the position indicated above for proper operation

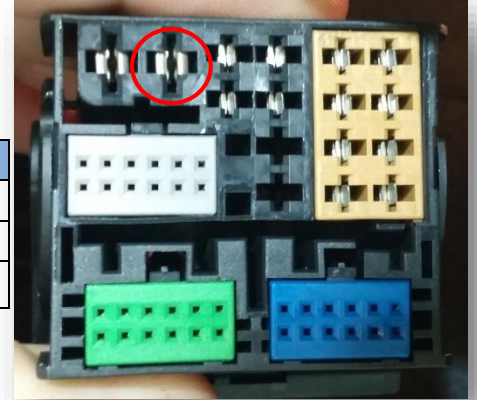
****iNAV button:** Activates AUX Video (optional)



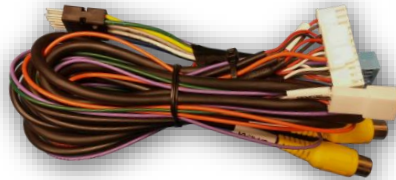
Installation (A3)

1. With European radio keys, remove the MMI located in glove box. Disconnect any associated harnesses and set the radio aside.
2. Grab the provided **'Power/CAN Harness'** from the DYNAMIC A3 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 @ pass fuse box |
| Green (Rev 12v in)* | Reverse Lamp (+) | --- |



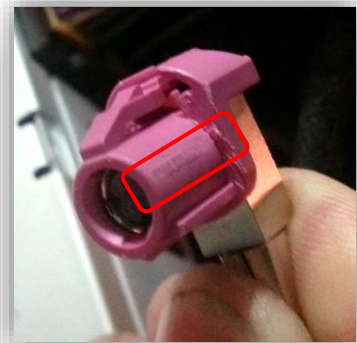
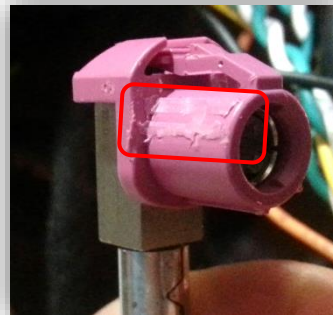
***Note: this Green wire is ONLY used if CAN connection does not switch display to reverse image while in reverse properly.**



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 A3 interface at the port labeled **'VIDEO OUT'**.*



***NOTE: You may need to shave some keyways on the factory connector in order for it to fit into the VIDEO-OUT connector.**

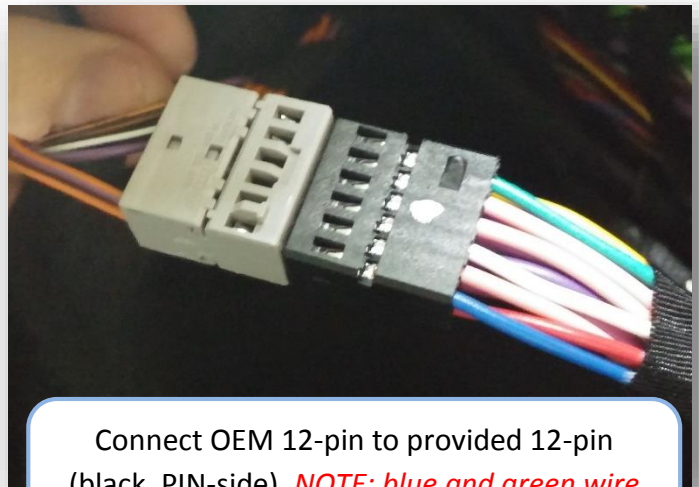


4. Connect the smaller white plug side of the provided **LVDS Video Cable** to the port on the A3 interface labeled **'VIDEO-IN'**.



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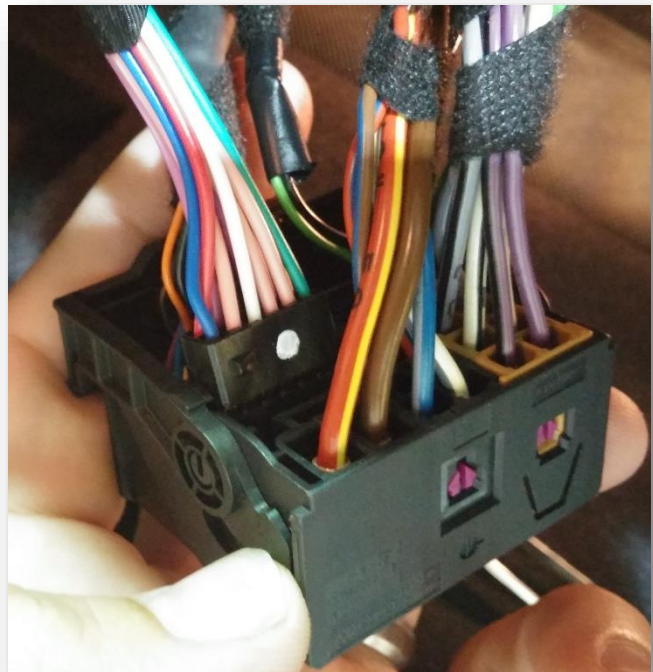
5. Connect the free end of the provided **LVDS Video Cable** (green) back to the factory radio at the appropriate port.
6. Connect the provided 12-pin plug & play portion from the main power harness to the main factory MMI connector as shown below. Pay attention to the orientation, as this is vital to proper operation:



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

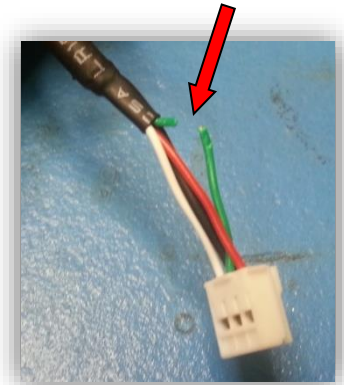
If the connector does not secure properly, zip tie the harness in place to surrounding wires **leaving slack so that the connector stays in place.** Use a spot of glue on the back side if you're still concerned with this.

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



7. Connect ground and power for your camera, you may use the provided **purple** 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'.
9. Connect the white plug from the **Power/CAN Harness** to the port on the DYNAMIC A3 interface labeled 'POWER CAN'.
10. **Optional:** If adding an additional video input (including front camera), connect the video signal to the RCA among the Power/CAN Harness labeled 'CVBSIN'.

11. **Optional:** If you're installing the optional **AUDI 3G-CAM**, remove the grid lines by cutting the **green wire** near the connector:



12. Start the car and test for proper functionality before replacing any dash pieces.

13. **If the screen does not transition to reverse image when in reverse, connect the **Green wire labeled 'REVERSE'** to an OEM reverse lamp 12v (+) wire. This is sometimes the case with manual transmission-equipped vehicles.**

A3 Controls (MMI knob)

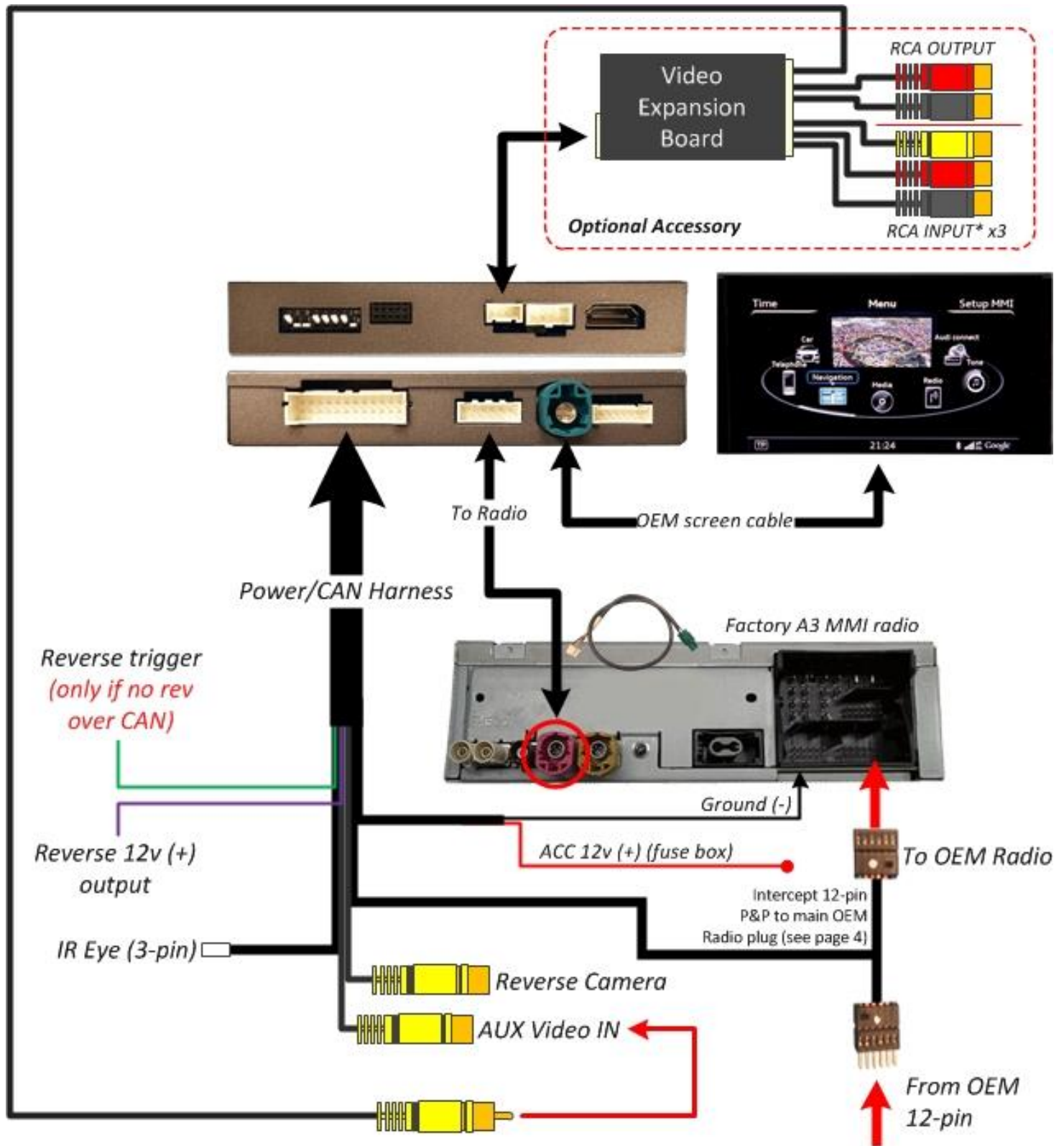
Press to activate
AUX Video Input



Note: This feature will only function when active (see DIP SWITCH Layout)

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DYNAMIC-A3 Install Diagram

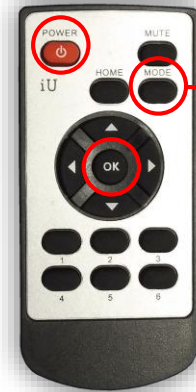


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Menu Adjustments

Before you start:

- The IR-Eye must be connected, (connects to main harness)
- Make sure the car’s ignition is on and radio is on
- You must be in **Reverse Camera** mode.
 - **Reverse Camera Mode** adjusts Reverse Camera 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).



Return
(AUX VID
menu
control)

FPG ON/OFF

PDC ON/OFF

FPG POSITION

PDC POSITION

WARNING ON/OFF

Functional Parking Guidelines ON/OFF

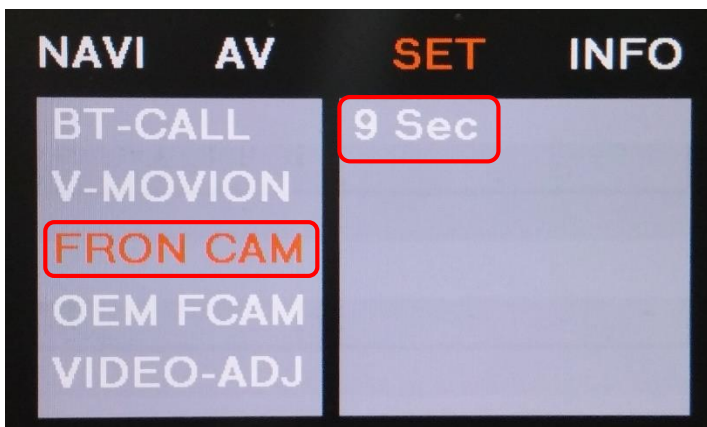
Parking Distance Control ON/OFF (while in reverse)

Adjust FPG Position

Adjust PDC Position

‘Safe to move?’ ON/OFF

PDC



The only setting most users will need for the AV OSD Menu is located under ‘SET’.

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 (OEM similar).

If the user wants only an AUX video input (not front camera), *leave this option ‘OFF’ and use DIP SWITCH 2 for adding AUX Video input*.