

# NAV-TV

INTERFACING THE FUTURE

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## MAS-11

NTV-KIT369



### Overview

The MAS-11 Kit allows the user to add up to 3 video inputs and a backup camera input to the factory media screen in select Maserati vehicles. This kit has a dedicated rear view camera input, front cam input and 2 composite (RCA) video inputs, an RGB input and an AV output with AV switching. Audio integration requires that the vehicle have a factory audio input.

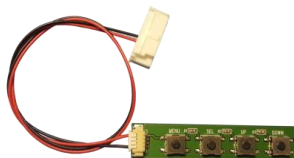
### Kit Contents



AV Input Harness



10-Pin Adapter



Menu Select Keypad



MAS-11 Interface



Power/CAN Harness



(2x) LVDS Video cable



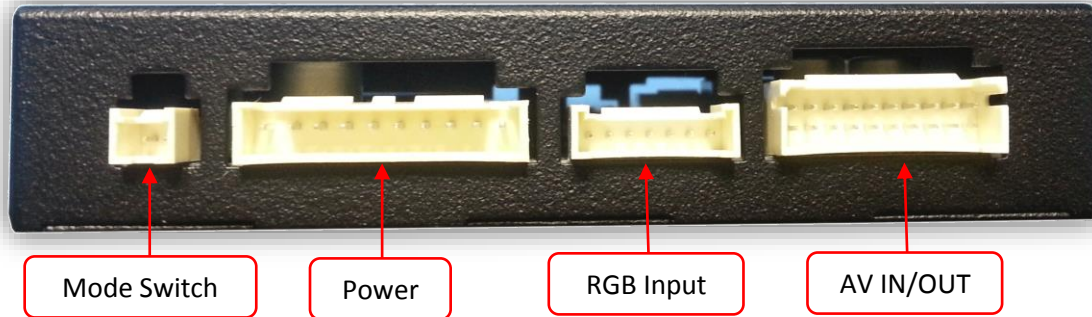
RGB Input cable



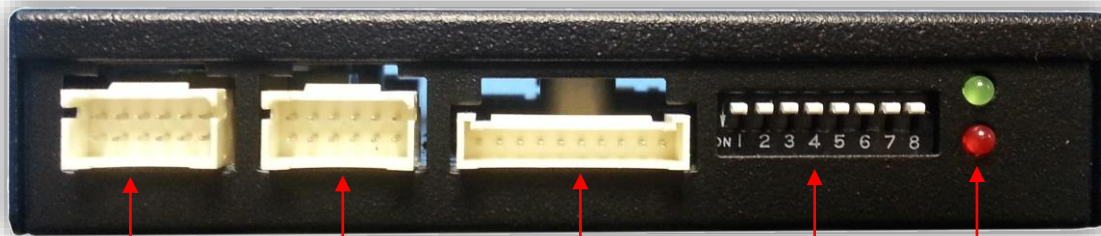
Input Toggle Switch

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.

Interface Connectors



Mode Switch      Power      RGB Input      AV IN/OUT



LCD OUT (LVDS Cable)      LCD IN (LVDS Cable)      Menu Keypad      Dip Switches      Status LEDs

Dip Switch Settings\* Configure prior to installation

Dip SW:	1	2	3	4	5	6	7	8
UP	Enables RGB	Enables V1	Enables V2	Enables V3	Leave Up	Leave Up	Factory or no Rev-Cam	N/A
DOWN	Skips RGB	Skips V1	Skips V2	Skips V3	Leave Up	Leave Up	Activates aftermarket Rev-Cam	N/A



**\*Note: If the dip switches are not configured prior to installation you must remove power to the unit prior to making adjustments to the dip switches. When power is reconnected after the dip switch adjustment the new settings will be stored into memory.**

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## Installation

1. Remove the factory radio and screen. This usually requires pulling panels and removing screws. Disconnect all associated harnesses and set the radio and screen aside.
2. Gather the provided **Power Harness** from the MAS-11 kit. Connect the following wires to the car:

Interface wires	Connect to car
Black (GND)	Chassis Ground
Red (ACC)	Accessory
Brown (Rear)	Reverse lamp 12v (+)
Blue (Front) ( <i>optional</i> )	12v (+) ACC through a toggle switch



3. Locate the factory 10-Pin LVDS cable from the screen on step 1. This cable looks similar to the provided **LVDS Video Cable**.
4. Connect the black end of the provided **LVDS Video Cable** (labeled 'LCD OUT') to the screen at the appropriate port.
5. Connect the white end of the provided **LVDS Video Cable** to the port on the MAS-11 interface labeled '**LCD OUT**'.



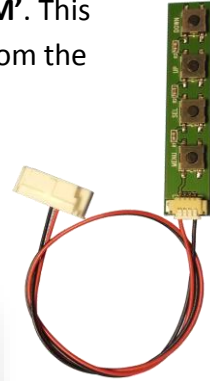
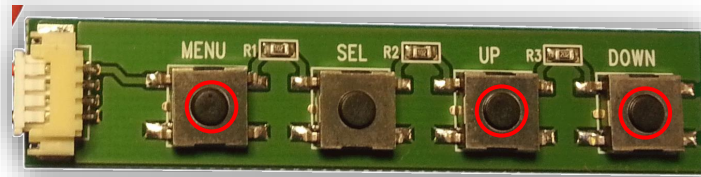
6. Insert the provided **10-Pin Adapter** into the provided **LVDS Video Cable** (labeled 'LCD IN'):



7. Connect the same end from step 6 to the factory LVDS Video Cable. The free end of the factory cable will plug straight back into the radio at the appropriate port.
8. Connect the white end of the provided **LVDS Video Cable** (labeled 'LCD IN') to the port on the MAS-11 interface labeled '**LCD-IN**'.
9. Connect the AV Input cable to the port on the MAS-11 interface labeled '**AV**'. If you're only connecting a reverse camera (and no other inputs), the signal input from the camera must connect to the RCA labeled '**REAR**'. Refer to the dip-switch settings chart to skip/enable AV sources upon toggle switch presses (optional. Page 2).
10. Connect the white plug from the **Power Harness** to the port on the MAS-11 interface labeled '**POWER**'.



11. **Optional:** Connect the keypad harness to the port labeled '**PROGRAM**'. This keypad would be needed if you want to be able to adjust anything from the MAS-11 interface's menu.
- Press the '**SEL**' button to switch to another video mode.
  - While in any AV mode other than factory** (on the display screen), press the **MENU** button to display the



12. **Optional:** Connect the provided momentary toggle switch to the port on the MAS-11 interface labeled '**MODE**'. Pressing this switch with the ignition **on** will cycle the screen modes as follows: **factory screen > NAVI (RGB) > AV1 > AV2 > AV3 > factory screen**. Please refer to the dipswitch section on page 2 for input settings.



13. **Optional:** Connect a front camera composite signal to the RCA on the provided **AV Input Harness** labeled 'Front'. Activate this camera via the blue wire in the main **Power Harness** (see step 2 for more info).

14. Reconnect all the remaining factory harness to the radio and screen.

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

16. **Note:** *All other included harnesses not mentioned in this manual are not needed for most installations. If you would like to know more about the full capability of this interface, contact NAV-TV tech support at 561-955-9770. Additional features not mentioned in this manual are not supported by NAV-TV at this time.*

## FAQs

**Q. I cannot switch A/V sources.**

A. Check IR or toggle switch connection. Check the LEDs on the interface, if nothing is lit up with vehicle ignition, check power/ground connections.

**Q. All I see on the display is a black screen (no factory image pass-through).**

A. Make sure the video cables (IN/OUT) are connected at the proper location (Screen/Radio/NAV DRIVE).

B. Make sure the video cables are seated all the way.

C. Make sure Dip Switches 5 & 6 are set correctly (resolution or screen size).

**Q. Displayed image color is not proper (too dim or color seems wrong).**

A. Try to select 'INITIAL' in OSD menu.

**Q. Rear camera image does NOT appear.**

A. Make certain Dip Switch #7 in set **down** for aftermarket camera, or **up** for a factory camera.

B. Try swapping the CAN connection wires. This will not do damage, if it is hooked up wrong it will only not work.

C. Make certain the camera is properly powered. Check voltage **at the camera itself**.

D. Try an alternative video source, don't assume the power/ground is correct unless you've checked it **with a multi-meter!**

E. If this is a CAN-connected module and you've connected the CAN wires, try using the gray wire (*not all interfaces have this wire!*) instead of the CAN connection for reverse activation. You'll also need to change the **Rear Select** option in the **Menu of Factory (MENU 2)** under **UTIL** or **PARK**. Refer to the **Menu Adjustments** section.

**Q. Unwanted A/V mode is displayed upon a toggle press (A/V source switching order: OEM->RGB->AV1->AV2->AV3->OEM).**

A. Check DIP Switch Setting. Refer to page 2.