

**Backup Camera Interface
(Kit # 9002-2763v2)**

Please read thoroughly before starting installation and check that kit contents are complete.

Items Included in the Kit:

Cam T-Harness
Plug & Play I/O T-Harness
9002-2763 module
USB Update cable
These instructions

Tools & Supplies Needed:

Wire strippers
Wire cutters
Electrical tape
Zip ties
Plastic panel removal tools
Digital Volt Meter / BCM safe test light
Screwdriver
Socket set
Wrench

Safety Precautions:

- Work in well ventilated area that is clear of obstructions.
- Secure vehicle with tire chucks in both front and rear of tires.
- Turn vehicle accessories OFF and ensure ignition key is in OFF position.
- Wear safety goggles and snug fitting clothes.
- Use tools only for their intended purpose and which are in good repair.
- Only perform this task if confidence, skill, and physical ability permit.

NOTE: We strive to provide accurate and up-to-date installation instructions. For the latest full color instructions, as well as an installation video, please visit www.brandmotion.com



The 9002-2763 adds an additional video input on select GM vehicles equipped with the MyLink (model IOH) 4" and 8" color media screens. Forcing (aftermarket) AUX Video or front camera to display at any time is activated with wire triggers.

1. After gaining access to the HMI module, Disconnect the gray, 12-pin plug from the OEM HMI circled above.
 2. Disconnect the black, 16-pin plug from the OEM HMI circled below.
 3. Connect the provided 9002-2763 12-pin & 16-pin (male end) connectors into the HMI plug locations from steps 1 & 2.
 4. Connect the factory 12-pin & 16-pin plugs (previously connected to the HMI) into the provided Plug & Play T-Harness (female end).
5. 9002-2763 Installation (without existing OEM reverse camera):
- a. Adding a single rear camera: power your camera with an ACC source or OUTPUT 1 (especially if using the forced feature), and connect your camera signal directly to the female RCA (into the HMI) from the 12-pin gray plug.
 - b. Adding 2 aftermarket cameras: Instead of connecting camera signal directly to the HMI, connect the RVC signal to the RCA labeled

'BACKUP CAM' at the UNI-CAM module. Connect the front cam/AUX video to the RCA labeled 'FRONT CAM'. Connect the (male) 'VIDEO OUT' RCA to the female RCA from the CAM T-Harness (at the HMI). Leave the male RCA on the CAM T-Harness disconnected.

- c. ***If this vehicle is equipped with a 4" screen, connect INPUT 3 (pink) to a CONSTANT 12 source.***

NOTE: If this wire is not connected, the 9002-2763 will program for 8" screen (image will appear zoomed in).

6. **Optional:** Connect INPUT 1 &/or INPUT 2 to an ACC 12v (+) source through toggles for displaying rear view camera and front view camera (or AUX video) at any time. **NOTE:** the factory GM screen may generate parking guidelines (while in reverse), which can be turned off in the OEM settings (through radio). This is usually required when using the 9902-2763 for an additional

AUX video input.

18-pin plug located on the Plug & Play T-Harness.

7. Connect the 9003-27632 module to the

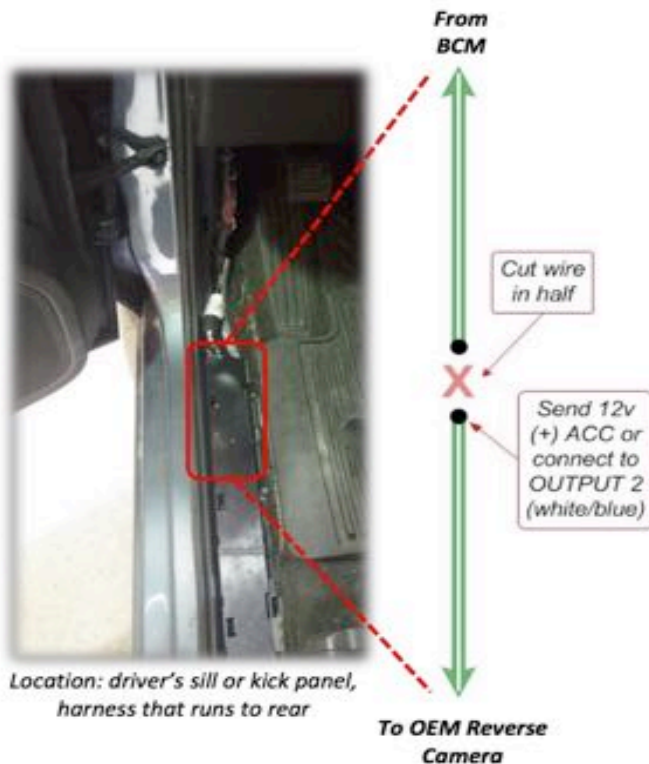
The UNI-CAM kit connects at the OEM **HMI Module**. The location of this module varies by vehicle.

Known HMI Locations:

Vehicle	HMI Location
Cadillac ATS/CTS	Directly below glove box
Cadillac SRX	Below/behind glove box
Corvette	Driver's kick panel
Silverado/Sierra	Behind glove box - high
Colorado/Canyon	Behind Screen - low



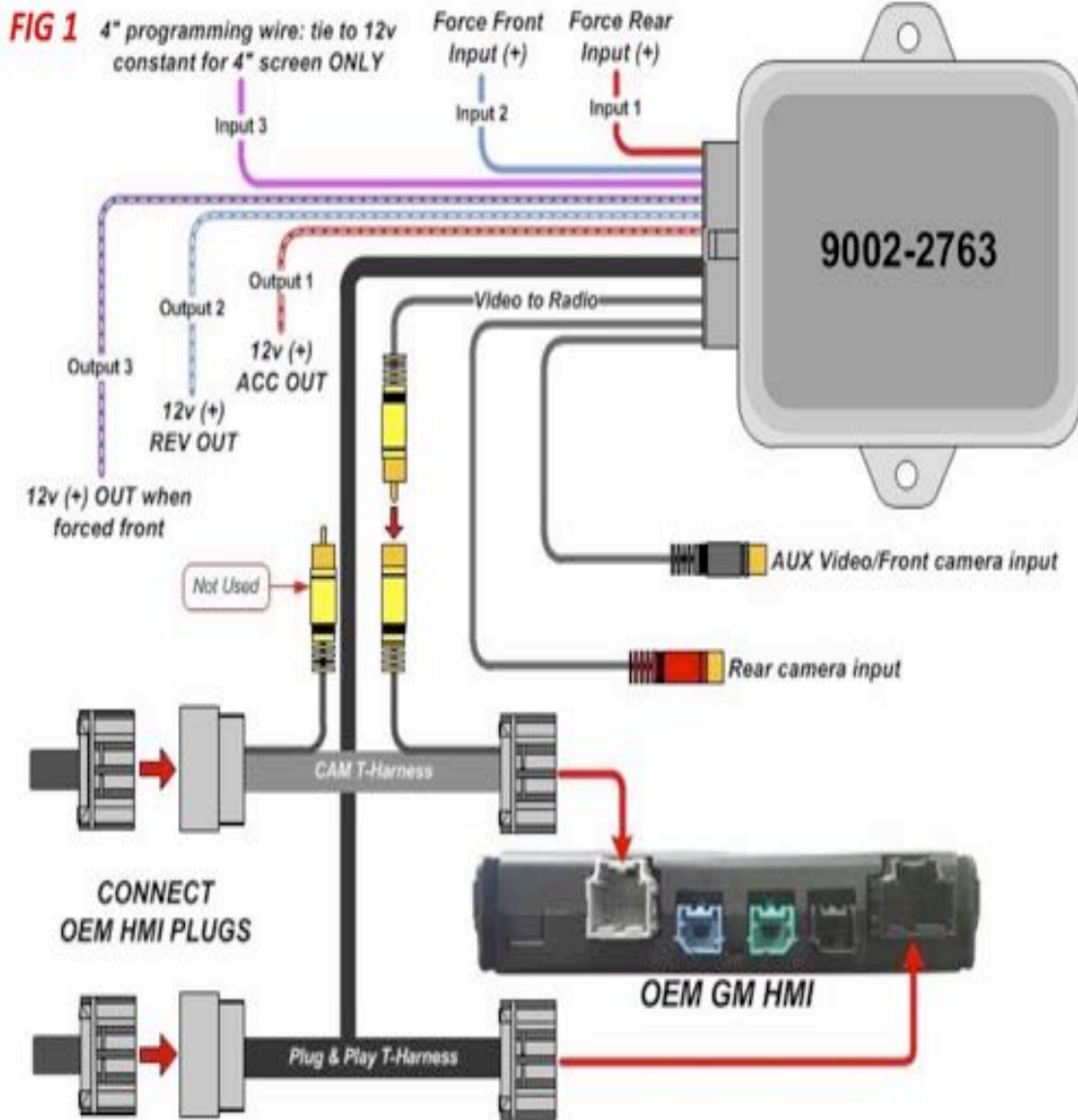
10. **Optional:** If the user wishes to force the OEM Reverse camera at any time, you must power the OEM camera power wire manually. Complete the connection shown in the diagram below.



Installation Procedure:

1. Locate, test **green/white** OEM RVC power wire and cut in HALF. *Wire will show 12v (+) when in reverse (engine must be running)*
2. Extend a 12v (+) ACC wire (or OUTPUT 2) and connect to camera side as shown.
3. Isolate BCM side of cut wire.

NOTE: This example diagram is for GM truck. Other vehicles may have a different color wire. Always test wire before modifying.



DISCLAIMER: Do NOT disconnect the programmer during programming – this may result in complete radio brick (factory limitation). BRANDMOTION is not responsible for failure to comply with this rule.

8. Once all connections are made, turn the key to the **IGNITION ON** position. Watch the LED on the UNI- CAM Module and verify flash codes below.
9. Wait for radio to **reboot fully**. **The radio**

may reboot more than once – wait a little while.

Programming is complete when the LED flashes 5 times.

Cycle the vehicle key once (turn off, wait 5 seconds, turn back to **IGNITION ON**)

3. Verify **6 FLASHES** from LED on module.

4. Verify that the radio accepted the program properly by placing the vehicle in reverse. The reverse screen should appear (or black screen if no camera connected yet) when in reverse only. *NOTE: the vehicle may have to be running (engine) for the reverse camera to show (factory limitation)*

6. UPDATE: if nothing happens in reverse after programming, disconnect the 20-pin power plug (black) at the OEM HMI module, then reconnect to reset the system manually. Once the radio has reset and booted fully, test for rear camera activation again.

Factory GM HMI (Human

IMPORTANT NOTE: There is NO De-Programming option with the GM UNI-CAM. Once programmed, this system modification will remain forever.

10. After installation/programming is complete, placing the vehicle in reverse (with engine running) will show the connected camera automatically.
11. Sending 12v to **INPUT 1 through a toggle** will force the rear camera on at any time, in any gear.*
12. Sending 12v to **INPUT 2 through a toggle** will force the front camera (or aux video) on at any time.
13. If Front Camera is active and the vehicle is placed in reverse, the reverse image will show (priority). Once placed back into Drive or Park, the Front Camera will show again if still activated. *Note: Once the transmission leaves reverse gear, there may be a ~5 second delay on transitioning back to the radio screen. This is normal OE operation.*
**For aftermarket cameras only. If OEM rear camera forced action is wanted, the camera must be powered separately (OEM GM rear cameras are normally powered while in reverse only)*

Programming is complete when the LED flashes 5 times.

LED Response	Description
1 flash	Waiting for Ignition... (Turn ignition to ON)
2 flashes	Waiting for Vehicle VIN...
3 flashes	Query Vehicle (Reading/decoding the VIN and vehicle components)
4 flashes	Programming...
5 flashes	Programming Complete
6 flashes	No Programming Needed (Already programmed)
7 flashes	Radio Not Supported (Verify this vehicle is equipped with IOH Radio Code)
8 flashes	Out of Licenses (Contact NAV-TV to purchase more licenses)

