

NAV-TV

INTERFACING THE FUTURE

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NNG-GM3

Navigation interface for GM vehicles equipped with MYLink/CUE

NTV-KIT832





1. NNG-GM3 Interface/Navigation combo unit
2. Plug & Play T-Harness
3. LVDS I/O Cable
4. AUX Video input(s) cable
5. Audio speaker-break harness
6. GPS Antenna

NNG-GM3 navigation system application guide

2016 – present	<u>Chevrolet</u>	Silverado Tahoe Suburban Colorado	<u>GMC</u>	Sierra Yukon Yukon XL Canyon
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(All vehicle with 8” Mylink / Intellilink 8” touch system)

** NNG-GM3 navigation system only compatible to vehicles with touch screen. All compatible radio should be 8” touch screen system.

This system only applicable to Mylink / Intellilink w/ 8” Touch Display radio. If your radio is *not 8” touch screen radio system*, please contact your distributor immediately. Any damage to this installation by wrongly attempt to install inapplicable combination will not be warrantied.

WARRANTY DISCLAIMER NOTICE! Radio removal, disassembly, installation of Navigation Electronics, and Radio re-assembly / re-installation is the responsibility of the installer. It is recommended that you contact a professional installer that is experienced with proper work methods involving electronics and knowledgeable of specific procedures for radio disassembly, Navigation Electronics installation, and re-assembly / re-installation of the Radio Head Unit in the vehicle. **INSTALLATION DAMAGE TO THE VEHICLE RADIO HEAD UNIT IS EXPRESSLY NOT COVERED UNDER THE PRODUCT WARRANTY.**

To avoid dangerous distractions that may lead to an accident, the driver should never operate the system while the vehicle is in motion. Before installing the product, the seller should inform the end-user of proper use and compliance with the proper instructions and all states and federal laws.

Before beginning your installation, familiarize yourself with the installation instructions and the Navigation system components.

CAUTION: It is advisable to disconnect the negative battery cable for 3 minutes before beginning installation, to avoid unintended air bag deployment. Note and record any anti-theft radio codes prior to disconnecting.

This is a general installation guide for navigation system. There will not be any instruction on dash / radio removal. Please refer to factory service manual for removing radio from dash.

NNG-GM3 Navigation System Installation

Before installation, installer should research and locate the factory radio and HMI units.

In general, the factory radio unit is behind the 8” touch display. The HMI unit is located behind the glove compartment. Installer should research, locate and carefully remove all necessary dash components for accessing the radio and HMI units.

Factory GM HMI Module



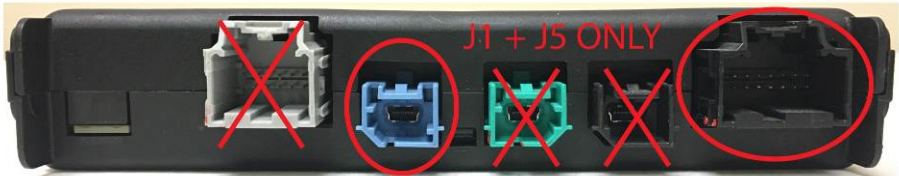
GM Factory Radio Module



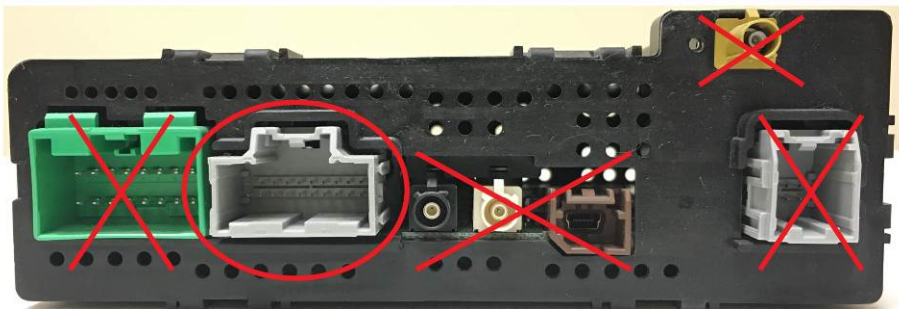
Factory HMI Module

Factory Radio Module

Please note the Connectors in circles above, this installation will only utilize those connections.

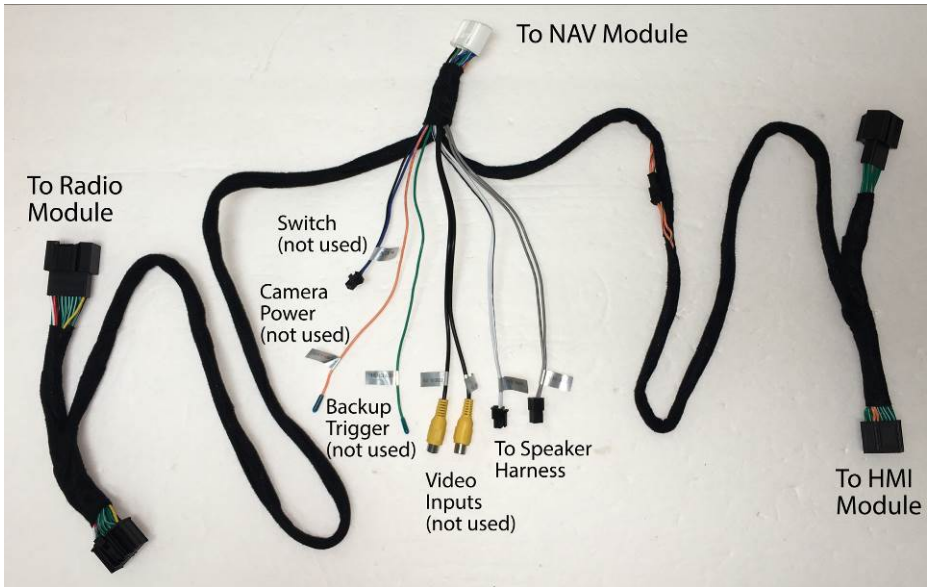


HMI Module – BLUE LVDS CONNECTOR & BLACK POWER CONNECTOR ONLY



Radio Module – GRAY POWER/DATA CONNECTOR ONLY

Overall Wiring Diagram



1. Connect Radio T-harness to Radio Module
2. Route main harness to HMI module location
3. Connect HMI T-harness to HMI Module (J1) Connector
4. Connect white power connector to NAV Module
5. Connect Speaker Harness to Speaker wires
6. Route Speaker wires to Driver Side Top Dash Speaker / Top Center Dash Speaker
7. Route LVDS Cable from HMI Module to NAV Module
8. Connect LVDS T-harness to HMI **BLUE** (J5) Connector



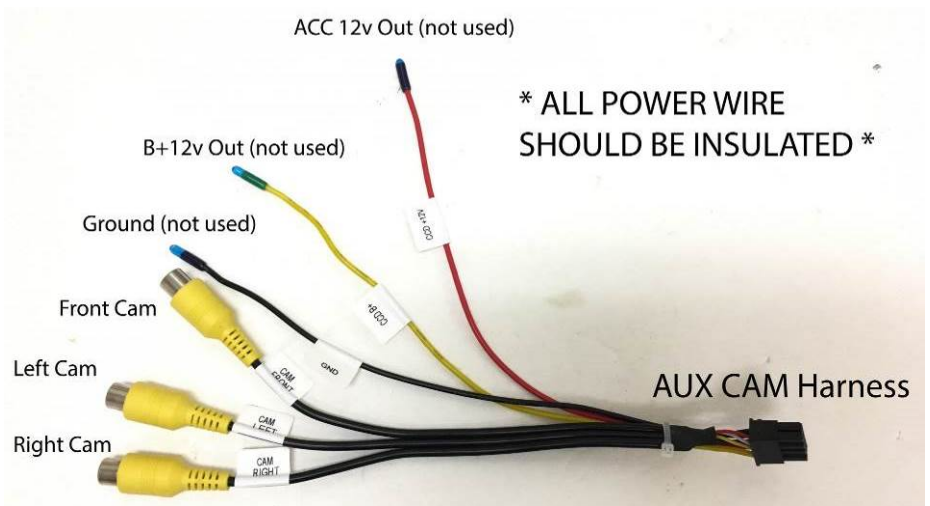
LVDS T-harness

Speaker Wire (top dash speakers)

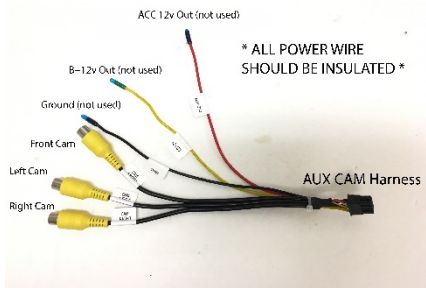
Navigation Module



AUX Camera Harness (connect to AV Input at Nav module)



BSM Camera (Optional)



AUX Camera Harness

The NNG-GM3 Navigation System is capable for additional side and front camera installation. Please refer the following software programming to unlock such features.

Switching to Navigation Mode



Press and Hold the HOME button on the radio to switch between Navigation and Radio Modes

Program Settings



Access the Setting Menu by touching the Setting (Gear) Icon at the bottom of screen

Default Settings is shown above (front and left cameras are OFF by default)

For **Front Camera**, slide Front View to **ON** position

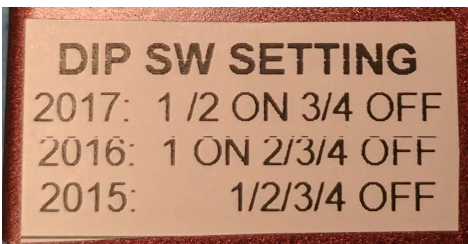
For **Left Camera**, slide Left View to **ON** position

For **Right Camera**, slide Right View **ON** position

For **Aftermarket Rear Camera**, slide the switch to **ADD** position

* Windows Control only available on selected vehicle *

DIP Switch setting for vehicle years:



Map Initialization

STOP BEFORE TESTING THE NAVIGATION SYSTEM WITH SD CARD, PLEASE READ THE FOLLOWING INSTRUCTIONS

Test system without map SD card

1. Power ON the system and switch to NAV mode
2. Wait for the Main Console to load
3. Touch Calibration Screen will automatically load
4. Hit the marks on screen and OK to finish calibration
5. Insert SD Map Card
6. Follow MAP SOFTWARE INITIATION PROCEDURE

Map software initiation procedure

1. Insert SD Map Card
2. Ensure correct orientation and secure in the slot
3. Power ON the system and switch to NAV mode
4. DO NOT TURN OFF SYSTEM
5. Finish the initial program settings on the screen
6. Allow the map software continue to run for 10 mins
7. Test GPS reception
8. Use the supplied label to secure the SD Map Card

Final Notes

Refer to previous pages for system wiring connections

Connect GPS Antenna to GPS Module (best GPS Antenna location is under passenger side A-pillar cover, on top of dash) and check secured connections

Test system thoroughly before re-assemble of the radio and dash

Test reverse camera function and BSM cameras if equipped

Test driver side speaker integration function (mute and voice from navigation software)

Troubleshooting

Please follow all the steps in this installation manual, failure to do so might void the product warranty and damage the factory radio

Power

GPS Module has (1) led lights as indicators when system is power on. The lights should lit with good power. If the light is dimmed, you should check for power sources and fuse.

Display

No Display

1. Check Radio power and associated fuses
2. Check all wiring connectors for any loose connection
3. Check all wiring shielding for any damage during the installation process
4. Check all wiring for any type of damage
5. Check LVDS connections at HMI unit (J5) and nav module

No Touch Response

1. Check both Radio mode and NAV mode for touch responses
2. Check all HMI T-harness connections

No GPS reception / software loaded, touch screen alignment screen occurred

1. Check the farka antenna cable connection at the Nav module. Ensure they are “click” in place.
2. Check map SD card at Nav Module, see any sign of missing, loose, pop-out, misalignment, or damage

Sound

1. Check all cable for connections to Speaker for loose, or damage
2. Check software volume settings, ensure volume is not muted
3. Check connections at radio for loose, damaged wires
4. Navigation Audio only interrupts Top Dash Speaker (Driver side / Center)

Please check all cables, pins, connectors, clips and ribbon cables for loose, and damage when you encounter technical difficulties.

Whenever you installing electronic component to the vehicle, it is always recommended to disconnect the battery and air-bag module before any work.

Please refer to the WARNING DISCLAIMER at the beginning of this installation before contacting us for any warranty claims.