



## ***16/14 to 44 Pin Conversion Harness.*** ***For 2007-2013\* Full Size GM Trucks & SUVs***

*\*Installation in 2007-2011 Vehicle will require modifying dash behind radio.*

**⚠ READ THIS MANUAL BEFORE BEGINNING INSTALLATION ⚠**

### **Required for Install:**

1. 2012/2013 HDD GM Navigation with 44-Pin Plug
2. GMFAKBFP Full Installation Kit
3. Amp & Amp Harness (for **Non-Bose** vehicles only) (GMAMKL29)
4. USB Adapter Cable. For addition **or** retention of USB port (GM Part # 19119014) **Optional**
5. XM Satellite Antenna. For vehicles without factory XM Satellite radio. (73831) **Optional**

### **GMFAKBFP Kit Contents:**

1. (1) 44-Pin to 16/14 Pin Conversion Harness 20-Pin to 16 pin Conversion Harness with 16 Pin VCIM Connector, Camera RCA input, & VSS Wire
2. (1) Factory VSS Pin for BCM Junction (GMNAVFIN)
3. (2) Pre-Pinned GM Wire Repair Leads for Y91/Y92 Amendment (GMWIRINGPINS)
4. (1) AM/FM Antenna Adapter (NV-CR10-EU)
5. (1) Navigation GPS Antenna (25918632) (**Not Included in GMFAHBFP\_EXP Kit**)
6. (1) XM Antenna Extension (3ft). *Only if vehicle has existing XM Satellite Radio* (GM\_XM\_EXTENSION)
7. (1) 20-Pin to 16 Pin conversion harness. *Only if vehicle has overhead DVD* (GMFAHBFP-DVD)

GM Factory Owner's Manual, Part number 22820299 or newer is **not included**. Purchase separately if desired.

If vehicle has factory XM Radio, you will need to contact XM and update the customer's subscription to use the Radio ID from the navigation radio. The factory external tuner module will no longer be used.



### **Notice:**

**\*\*All information provided in this instructional guide is given on an as-is basis. All wires should be verified and tested for functionality before any connections are made. All wiring connections should be made using OEM approved wire repair techniques which include, but are not limited to, soldering and heat-shrinking all connections.\*\***

## Radio Removal:

Step 1: Remove trim panel from surround of radio.

On Acadia or SUV with center console, remove lower trim panel around shifter. Then remove top panel around radio. On Silverado/Sierra or Truck, remove panel around radio.

### Silverado/Sierra/Truck



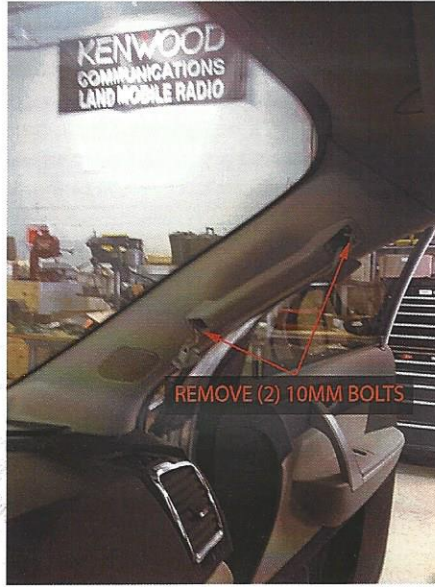
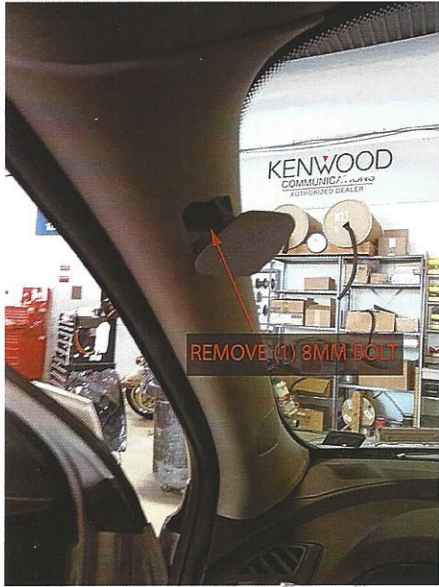
### Base Model Truck

May require removing lower trim panels.

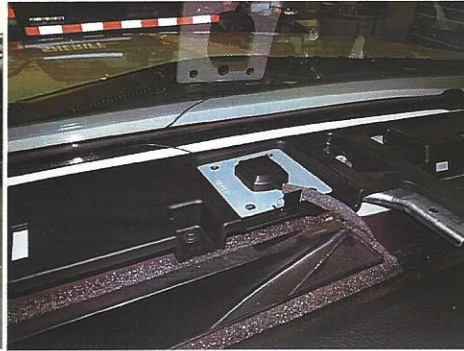


# GPS Antenna Installation

Step 1: Remove covers to reveal mounting bolts on A-Pillars. Remove bolts and then remove trim panels. Trim panels should be held in by clips. Start at top and pull off carefully. Remove both panels and disconnect tweeters if present.



Step 2: Remove front most dash panel near windshield. Panel is held in by clips. Use a plastic trim tool to pry from the close side of the panel, lift, and the pull out. Light sensor will need to be disconnected before panel can be completely removed. Find receptacle for GPS antenna, and seat antenna firmly in receptacle. Route the antenna wire into the dash and into radio cavity. If necessary, use a snake for routing.



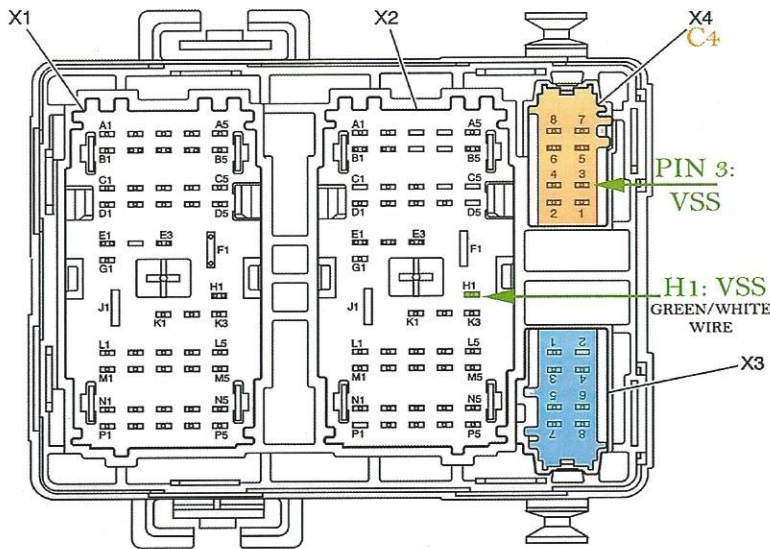
# VSS/Camera Harness Installation

**Special Note:** Certain vehicles may have the 16 Pin brown plug already present behind the radio (unused). It may be taped to the radio harness. If this plug is present, you will not need to run a wire for the vehicle speed sensor or VCIM. Plug this plug into the brown plug supplied on the conversion harness.

**Camera Note:** If camera is present in rear-view mirror, it **will not** automatically re-locate to the navigation display. The camera wires will need to be located and manually re-routed to the RCA connector included in the harness. **You may leave the camera in the rear view mirror if desired.** If leaving the camera in the rear-view mirror, you will need to **turn the camera off on the navigation**, in the display options of the menu. Failure to do so will result in a black screen with parking lines when the customer shifts to reverse.

**Step 1:** The supplied green wire on the harness goes to the VSS wire. This is a Green/White wire located in the BCM Junction behind the brake pedal. It is notated by a black box cover. If Orange plug BCM-C4(X4) is present in the **rear** of the BCM Junction, remove plug, remove Red locking tab, and populate pin 3 with the Green wire and supplied GM pin. **You will need to crimp the pin on to the wire.** If Orange plug is not present, find Green/White wire in the BCM harness, Pin H1, **plug C2(X2)**. Once wire is verified, tap supplied Green wire into vehicle Green/White wire using GM approved wire repair techniques.

BCM Junction Block - Left I/P -BACK SIDE



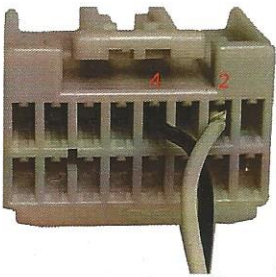
# Procedure #1

## Voice Recognition Harness Installation

### Step 1: Locate VCIM/Onstar Module

On most vehicles, the VCIM is a silver box, located just under or behind the radio. Consult your factory service guide for location if you are unable to locate this module.

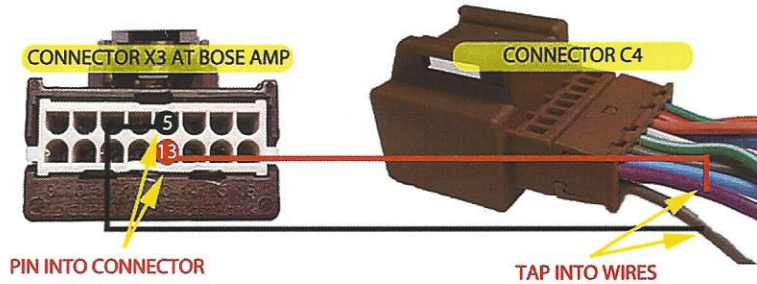
**Step 2:** Plug the Grey Connector included in this installation kit into the J3 Plug of the VCIM. This should be the only unpopulated connector on the VCIM, and is difficult to see.



**Note:** The "Voice" button becomes the Bluetooth button, and the voice recognition for the radio commands becomes the "Source" Button.

# UQA with Y91/Y92 Digital Bose Amendment

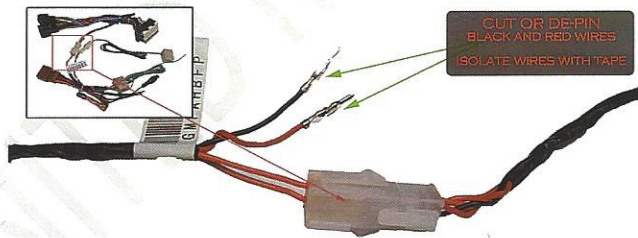
Only on Y91 Digital 'Lux' Bose systems, the wires for navigation audio prompts (from brown connector C4) **may** need to be run directly to the Bose amplifier. This is **not** required on all vehicles. Test this functionality before performing this procedure. On Trucks, amplifier is located in the center console below the cup holders. On SUVs, amplifier is located under the driver side instrument panel.



**Step 1:** Tap the Purple wire from Pin 8 of the Brown C4 plug and run it to Pin 13 of X3 at the audio amplifier. Tap the Grey wire from pin 16 of the Brown C4 plug and run it to Pin 5 of X3 at the audio amplifier. Use supplied pins (GMWIRINGPINS) if wires are not present at the amplifier.

**Step 2:** Cut or De-pin Black and Red wires on the 4-pin connector on the GMFAHBFP harness. Isolate wires.

**ONLY PERFORM THIS STEP IF YOU HAVE RAN WIRES DIRECTLY TO THE AMPLIFIER**



## Programming Note:

If radio is not pre-programmed by United Radio, radio may require programming. Vehicles with Y91/Y92 will require programming for audio to work. If radio requires programming in vehicle with model year prior to 2012, you will need to use a 2012 VIN when programming. You may also need to manually enter the RPO codes corresponding to the vehicle. These codes can be found on the inside of the glove box.

# XM Satellite Radio

The 2012/2013 HDD GM navigation has an integrated XM Satellite receiver.

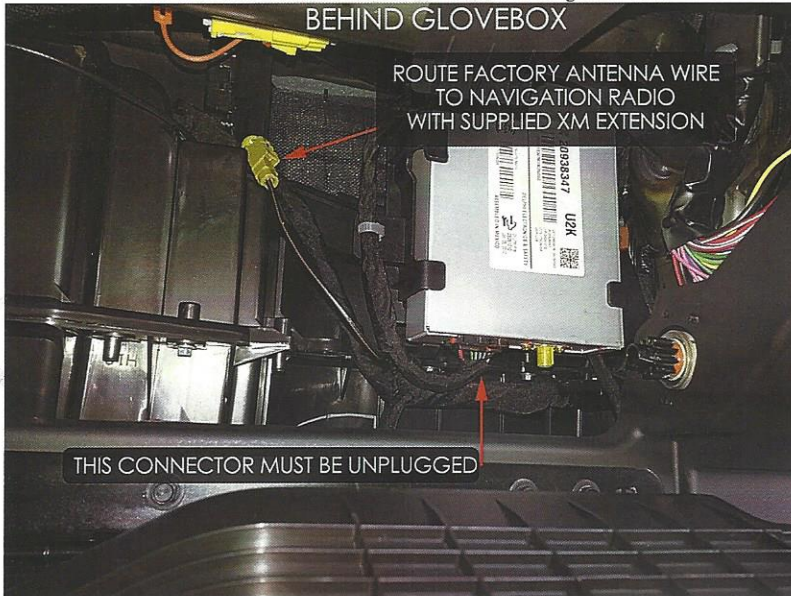
- If the vehicle is **equipped from the factory with an XM Satellite receiver**, you will need to locate the factory unit, and use the supplied antenna extension to connect the existing antenna directly to the back of the new navigation unit.
- If the vehicle **did not come equipped** from the factory with an XM Satellite receiver, and you would like to add XM functionality, you will need to add a satellite antenna to the exterior of the vehicle, and route the wire to the back of the navigation unit.

For vehicles equipped with factory installed XM Satellite Radio:

Locate the XM Tuner Module, located behind the glove box. Leave glove box hinges intact, but press tab(s) in so that glove box drops down, and out of the way. Unplug the antenna connection **and** the wiring plug from the XM tuner. Remove the XM tuner if desired, it will no longer be used. Using the supplied antenna extension, plug it into the existing antenna wire, and route it to the back of the navigation unit. Plug it into the gold XM Satellite connector on the back of the navigation unit.

**Note:** The XM Radio ID currently associated with the vehicle/external module will no longer be used.

You will need to use the new XM ID from the Navigation radio.



# USB Port/Cable

The 2012/2013 HDD GM navigation has a rear access USB port.

- If the vehicle came equipped from the factory with a USB port, it **will not** plug in to the new navigation radio. **You will need to purchase GM part # 19119014**. This cable goes from the back of the radio, to a connector **under** the center console in vehicles equipped with a USB port in the center console. See diagram below.
- If the vehicle **did not come equipped** from the factory with a USB port, and you would like to add USB functionality, you can run the USB cable, GM part # 19119014 directly to the glove box, or other customer agreed location.

