

MP3 Player Interface Module Package Installation (Installation Instructions)

Installation Instructions Part Number

19245155

Kit Contents

Qty	Description
1	Personal Audio Link (PAL) Module
1	PAL T-Harness
1	iPod Cable Template
1	iPod Cable
1	Owners Manual
1	Installation Sheet
1	Adhesion Promoter
5	Cable Ties

Tools Required

- Trim Removal Tool
- Drill with 13/16" Bit
- 7 mm Nut Driver
- Tech 2 With Latest Software
- Terminal Removal Tool P/N 12031876
- Wire Cutting Pliers
- Crimping Tool P/N 12085115

Special Note

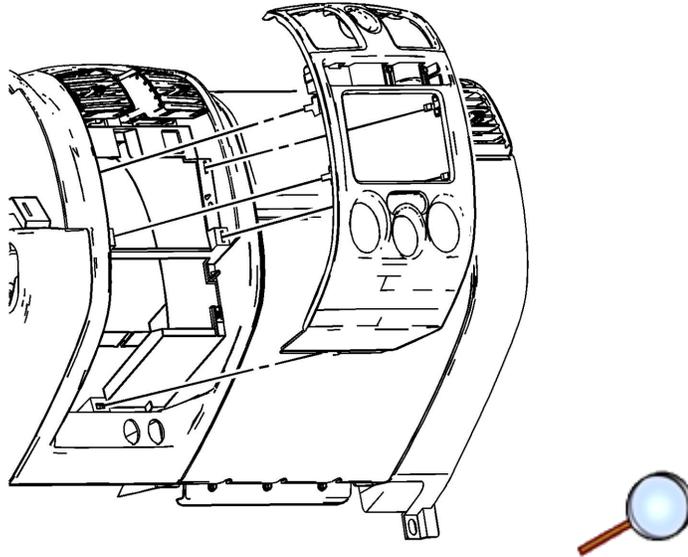
Before beginning the installation process, please conform the following:

- The vehicle has a factory installed radio.
- The vehicle has the latest software available.
- If possible, have an iPod available for testing.
- If equipped with an XM module, XM2 presets will no longer function after the PAL unit is installed.

- Check SPID label or press the radio BAND button several times to see if an XM module is installed in the vehicle. If an XM module is installed, XM1 and XM2 will be displayed on the radio. Knowing this information will assist in programming the PAL module in a later step.

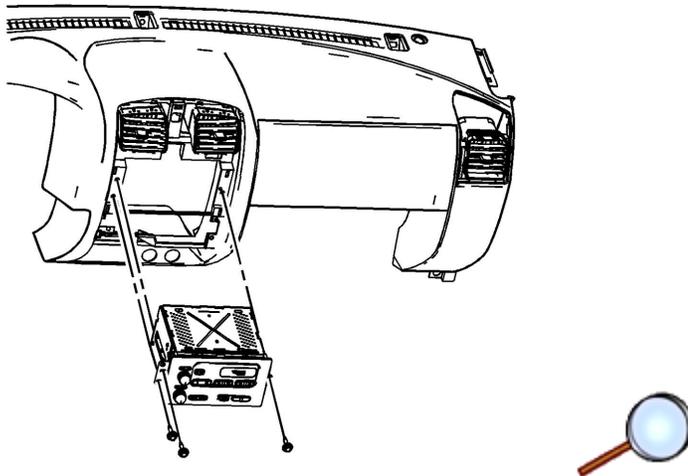
Remove Instrument Panel Accessory Trim Plate

1. Disconnect the negative battery cable.

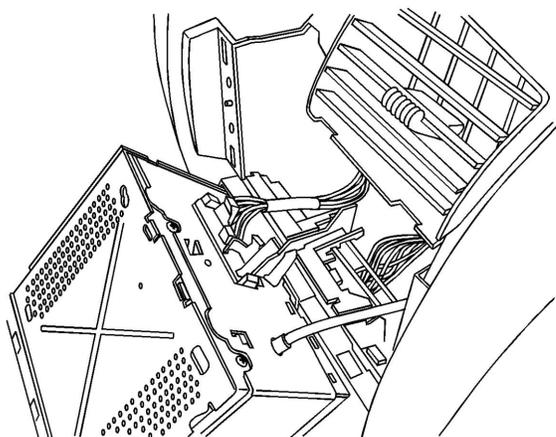


2. Carefully use a plastic flat-bladed tool to release the trim plate retaining clips.
3. Remove the trim plate from the instrument panel (I/P).
4. Disconnect the electrical connectors, as necessary.

Remove Radio

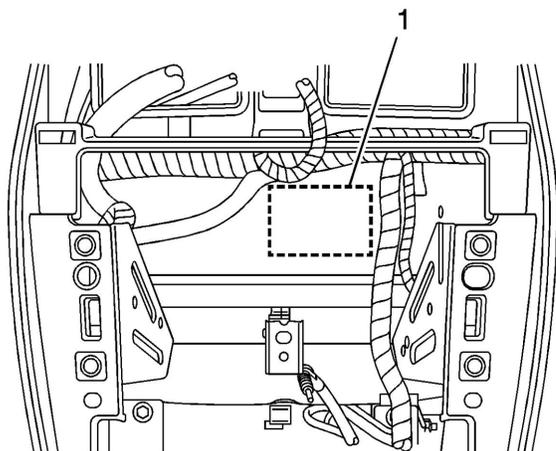


1. Remove the 3 screws that retain the radio to the instrument panel (I/P).
2. Partially remove the radio disengaging the radio rear alignment locator to gain access to the electrical connectors.

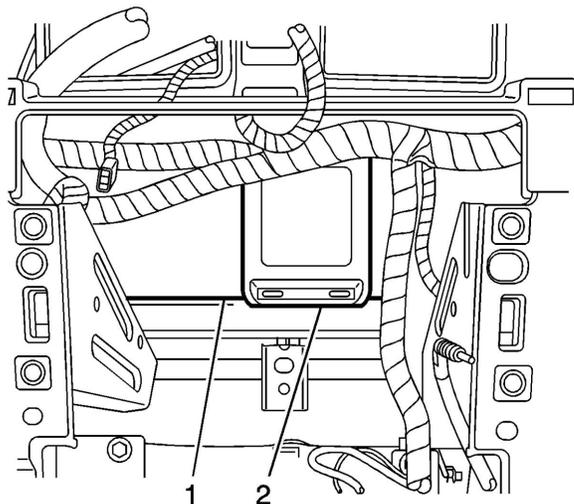


3. Disconnect the electrical connectors to the radio.
4. Remove the radio from the vehicle.

[Install PAL Module](#)

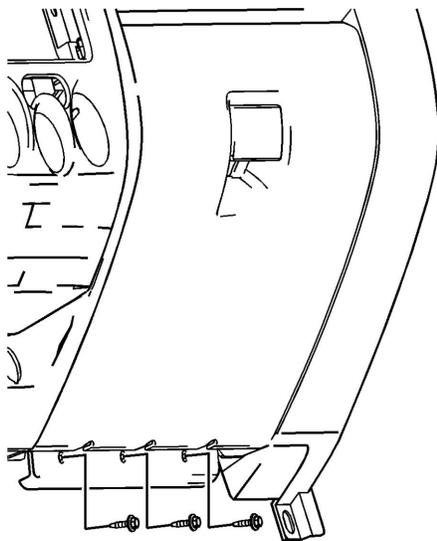


1. Clean the plastic HVAC module assembly surface area (1) with the adhesion promoter included in the kit.



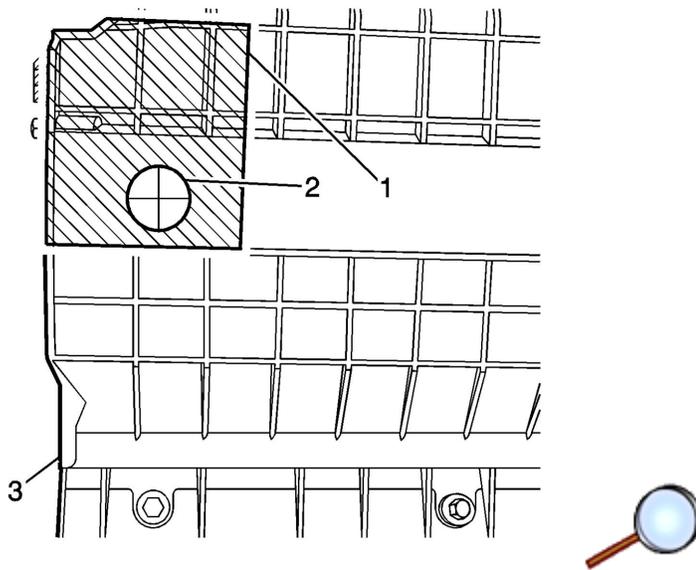
2. Remove the adhesive backing from the bottom of the PAL case and firmly press to mount the PAL module (2) onto the HVAC unit (1).

[Remove Instrument Panel Storage Compartment](#)

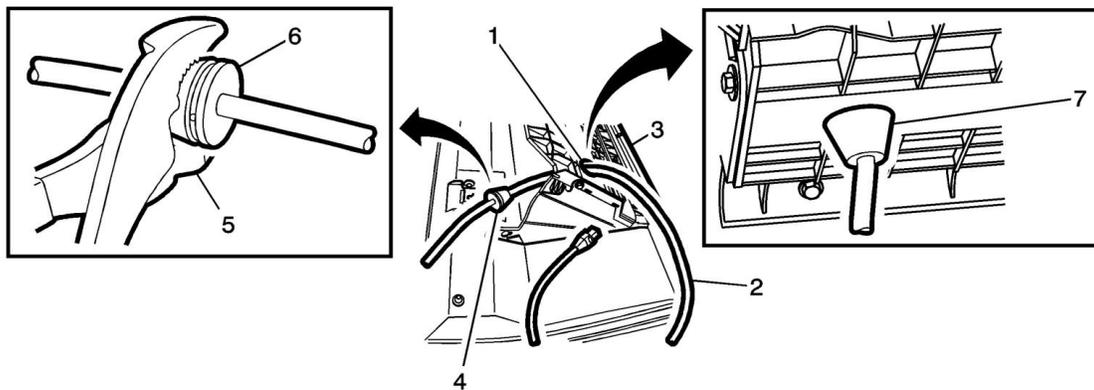


1. Remove the screws retaining the instrument panel (I/P) compartment assembly to the I/P.
2. Open the I/P compartment door.
3. Remove the I/P compartment assembly from the vehicle.

[Install iPod Cable](#)



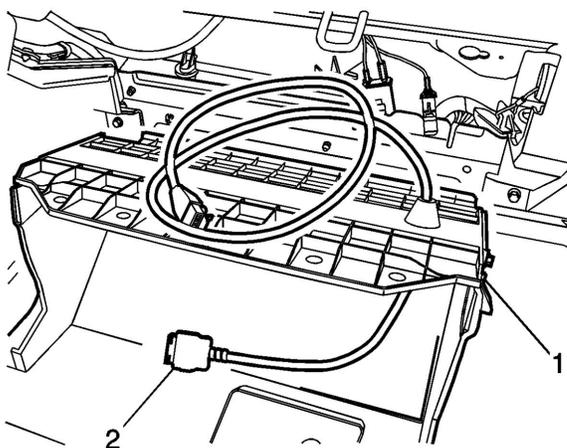
1. Using the template (1) provided in the kit, drill a 13/16" hole (2) into the rear plastic of the instrument panel compartment (3).



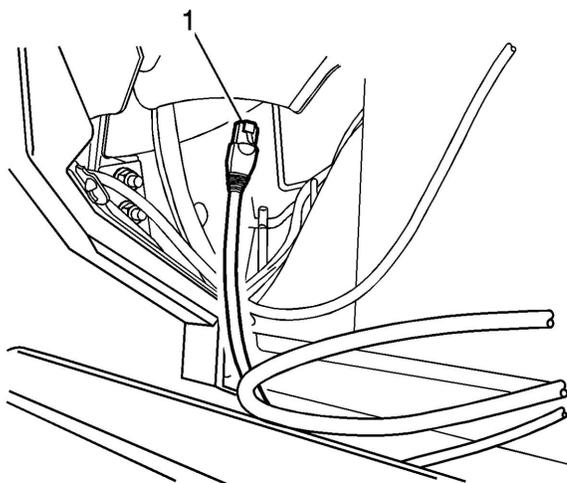
2. Insert the iPod cable (2) through the 13/16" hole (1) from the inside of the instrument panel compartment (3) and pull through until the grommet (4) touches the hole opening (1).

Note: The iPod cable connector ends and color may differ from those shown in this installation guide.

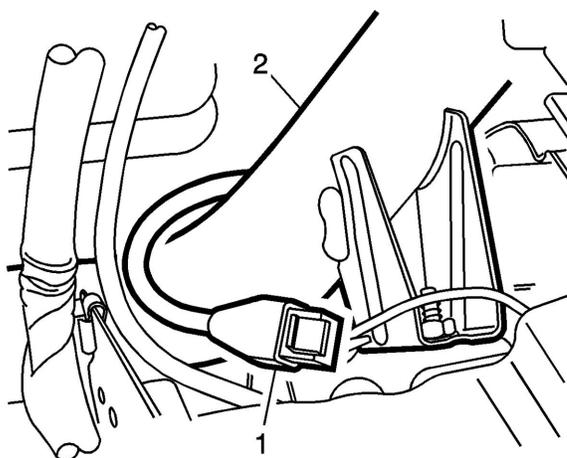
3. Firmly press the grommet into the hole opening until the grommet (7) is securely seated. If it is difficult to seat the grommet into the hole, DO NOT re-drill the hole again, instead, gently soften the grommet (6) with a pair of pliers (5) by applying a slight squeeze around the diameter of the grommet.



4. Re-install the instrument panel compartment (1) with iPod cable (2).

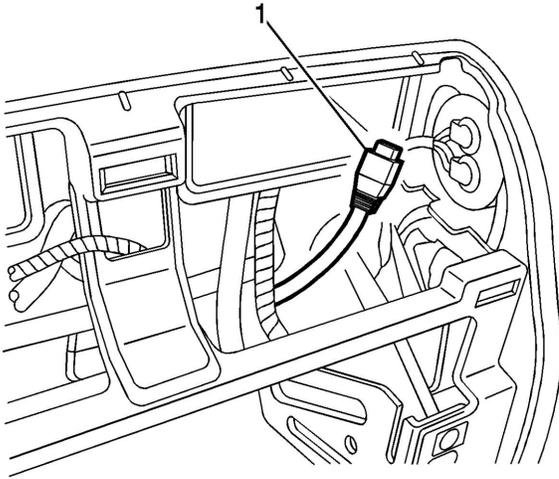


5. Route the iPod cable (1) through the upper left opening inside of the instrument panel compartment cavity.

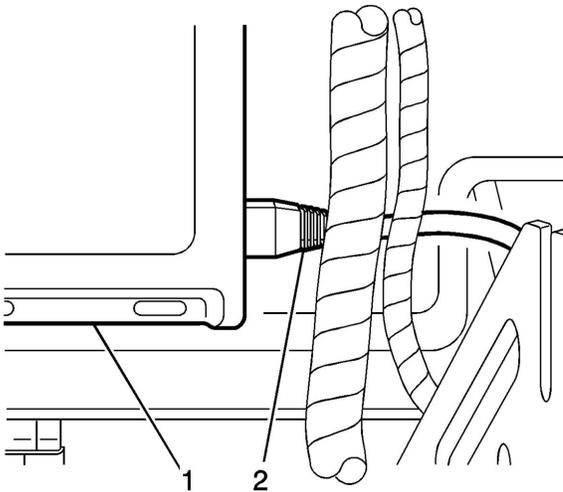


6. Continue routing iPod cable (1) along the cross bar beam (2). use cable ties to secure the iPod cable (1) to the cross bar beam (2) every 150 mm or as needed to prevent rattle.

Note: Cut away and discard excess cable tie material after it has been tightened.

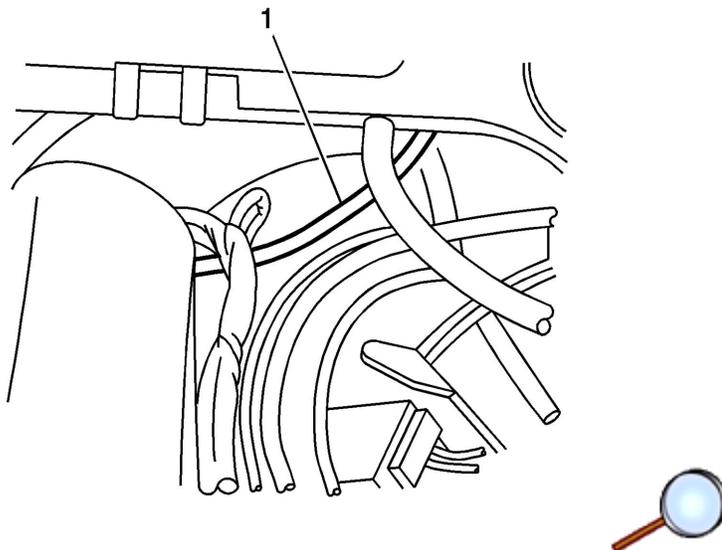


7. Pull iPod cable (1) upwards until there is enough length to connect it to the PAL module.



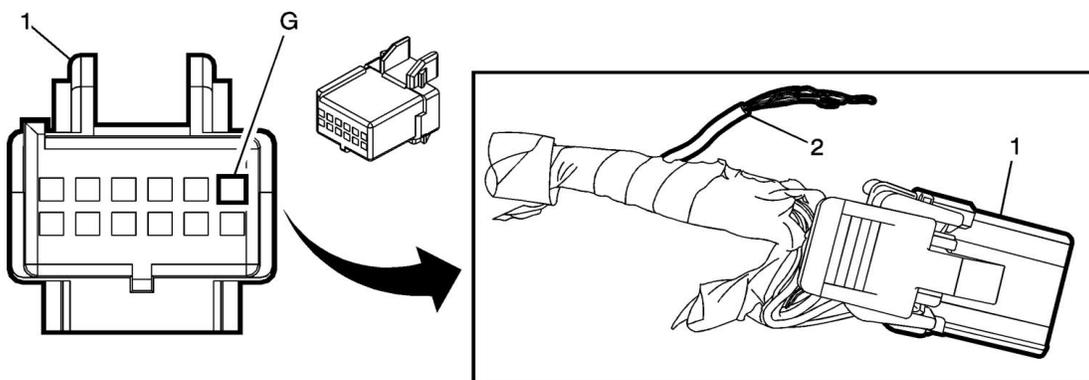
8. Securely insert the iPod cable (2) into the PAL module (1).

Note: Make sure that the iPod cable lock snaps into place



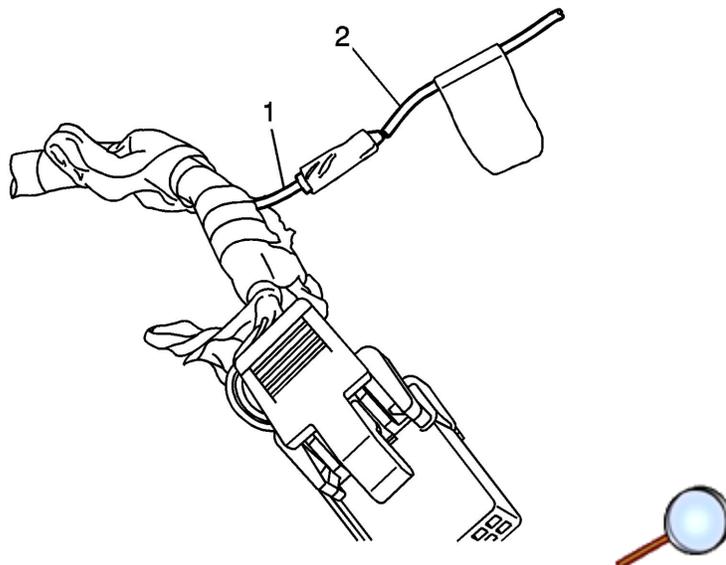
9. If there is any excess iPod cable (1) behind the instrument panel compartment after it has been re-installed, tuck excess into the empty cavity above the instrument panel compartment.

[Install Radio Harness to the PAL T Harness](#)



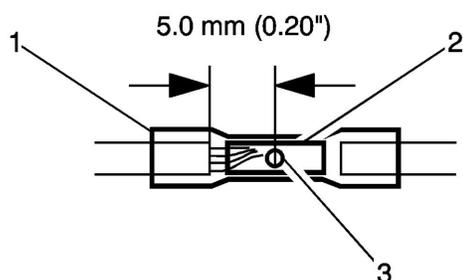
Note: If XM is not present or if there is no wire in PIN G, tape back the wire labeled "To XM" to the IP harness.

1. Using the wire terminal removal tool P/N 12031876, remove the Class 2 Serial Data wire (2) (Pin-G) from the 12 pin IP/ radio harness connector X2 (1) P/N 12064799. Cut the terminal end off and discard.
 - OEM: 12064799
 - Service: 15305996
 - Description: 12-Way F Micro-Pack 100 Series (BK)
 - Terminal/Tray: 12146447/3
 - Core/ Insulation Crimp: E/C
 - Release Tool: 12031876



2. Crimp the Purple Class 2 Serial Data wire (1) (Pin-G) from the 12-pin IP/ Radio harness to the PAL T-Harness Single wire (2) labeled "To XM".

[Sealed Splice Instructions](#)



1. Place the splice sleeve in the splice crimp tool P/N 12085115. Ensure that the crimp falls midway between the end of the barrel and the stop. The sleeve has a stop (3) in the middle of the barrel (2) in order to prevent the wire (1) from going further. Close the hand crimper handles slightly in order to firmly hold the splice sleeve in the proper nest.



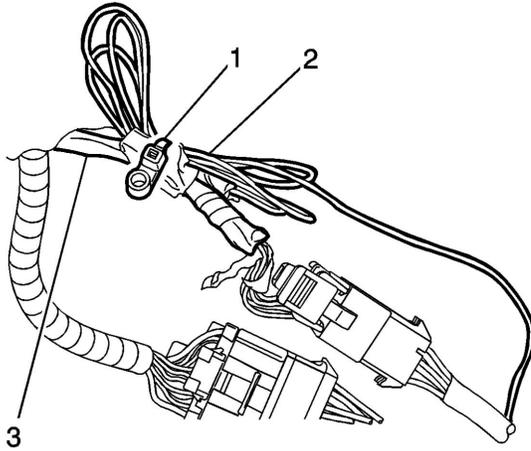


2. Insert the wire into the splice sleeve barrel until the wire hits the barrel stop.
3. Tightly close the handles of the crimp tool until the crimper handles open when released. The crimper handles will not open until you apply the proper amount of pressure to the splice sleeve.



4. Using the heat gun or GM Ultra Torch P/N 12085116, apply heat to the crimped area of the barrel.
5. Start in the middle and gradually move the heat barrel to the open ends of the tubing:
 - The tubing will shrink completely as the heat is moved along the insulation.
 - A small amount of sealant will come out of the end of the tubing when sufficient shrinkage is achieved.
6. Check for electrical continuity.

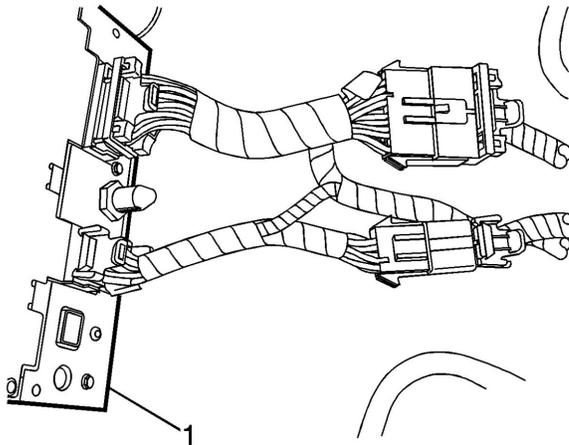
[Connect T_ arness and Radio_ arness](#)



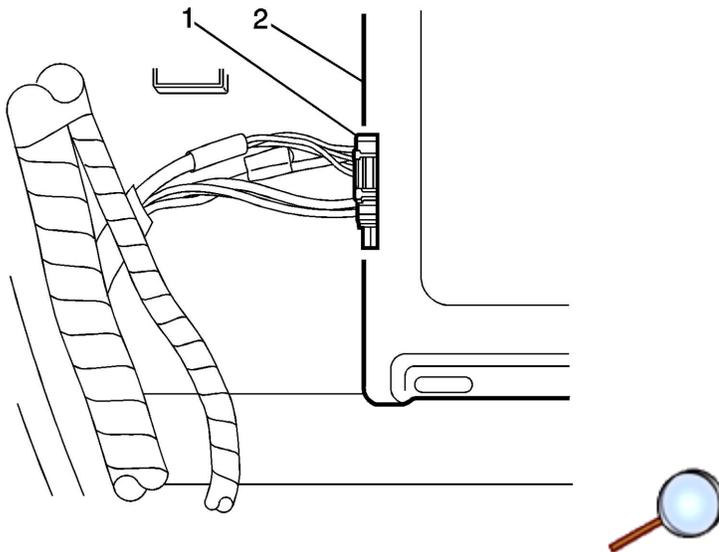
1. Using one of the included wire ties (1) coil up the extra "TO XM" wire (2) and secure it to the IP side of the harness (3).

Note: After the wire tie (1) has been tightened, cut off and discard the extra tie material.

2. Connect both male T-Harness connectors to the mating IP / Radio harness connectors.



3. Connect both female ends of the T-Harness into the back of the radio (1). Connect all other radio connections back into the radio.



4. Connect the 16 pin connector (1) of the T-Harness into the PAL module (2).

Re Install Vehicle Components

1. Re-install the radio.
Tighten the radio fasteners to 2 Y (18 lb in).
2. Plug in all instrument panel center trim panel connectors and re-install the instrument panel center trim panel.
3. Connect the negative battery cable.

PAL Module Calibration

1. Using a TECH 2 with the latest software, perform the following steps to configure the PAL module.
 - Diagnostics – Enter
 - Model Year (select vehicle model year) – Enter
 - LD Trk, MPV – Enter
 - Chevrolet or GMC Truck – Enter
 - S or T – Enter
 - Body – Enter
 - Select Uplevel Radio – Enter
 - Select Personal Audio Link Module – Enter
 - Module setup – Enter
 - Digital Radio Receiver – Enter
 - Select Disable if Vehicle is not equipped with an XM receiver module or the customer does not want to listen to XM Radio.
 - Select Enable if vehicle is equipped with an XM receiver
2. After procedure is complete, let the vehicle go to sleep (turn the ignition key to the Off position, open and close the driver door to turn off RAP, then wait until all interior lights are out).
3. Calibration procedure is now complete.

Final Quick Device Check

1. Make sure radio is in XM2 band. If no iPod is connected you will see "No iPod" when you are in the XM2 band.
2. If an iPod is available and plugged in , and the ignition is on, and the XM2 band is active, the iPod User Screen will momentarily display "Loading". While the PAL is "Loading" the music selections, no audio will be heard. The "Loading" time varies depending on how much material is on the connected iPod. Once "Loading" is complete, the iPod will begin playing at its last know location before it was plugged into the PAL unit.