

Dear Customers,



The **Playlist Mode** of USA SPEC iPod interfaces has been replaced by **Hybrid Mod**. **Hybrid Mode** combines the advantages of both **Playlist Mode** and **Direct Mode**; therefore USA SPEC iPod interface delivers a new level of convenience to use your iPod in car.

SAFETY NOTE: ALWAYS give full attention to driving. Do not operate iPod in such a way that will distract you while you are driving.

- In Hybrid Mode, the songs on iPod are accessed exactly in the same way as in the Playlist Mode been explained in the owner's manual. But, **iPod screen is NOT locked** to "ok to disconnect" and **iPod control keys are also fully functional**. Therefore, while playing your iPod at any DISC location of radio, you can manually change song, change artist, change album, fast forward, fast reverse, etc. through the keys on iPod.
- If the playback of a Playlist is manually "interrupted" through iPod's key pad and a song or music in a "new category" is played, the interface module memorizes the last played track number of the "new category". "New category" means folders, or Playlists, or artist, etc. which is different from the Playlist being played. When you return to the same DISC on radio later, the interface module will use the "memorized" track number (note: just the track number, not the last played song in the new category) to playback the Playlist related to this DISC.
- Hybrid Mode is selected by setting the DIP switch #2 on interface module to ON position.
- When iPod is connected to interface module, the iPod will take approximately 30 seconds to complete its external control mode configuration. During this period of time, the iPod screen's display will continue change until the configuration is completed.
- The number of Playlist being supported and all other functions, including the naming of Playlists for Hybrid Mode are the same as in Playlist Mode.
- In Hybrid Mode, you can fast forward and fast reverse the music with the fast forward and fast reverse buttons on your radio.
- For those USA SPEC iPod interface products which support TEXT display on radio, the TEXT display feature is continue supported.
- G3 iPod is not compatible with Hybrid Mode. G3 iPods will be in Playlist mode when DIP switch #2 is at ON position.
- The operation of **Direct Mode** remains unchanged.

USA·SPEC

Model **PA11-VETTE**
iPod to **CORVETTE** car stereo Interface

USA·SPEC
iPod INTERFACE

OWNER'S MANUAL

TECH. SUPPORT
(626) 336-3836
9 AM ~ 4 PM PST
MON ~ FRI

Thank you for purchasing a **USASPEC** product. This manual describes the functions and operation of PA11-VETTE iPod interface for Corvette and some of the Cadillac radios. Please read this manual before installing the product in your vehicle.

Section 1. ABOUT YOUR INTERFACE PA11-VETTE

1-1 This interface connects an iPod directly to your GM audio system. Its on-board software translates commands from GM XM band controls into commands that the iPod understands. This interface enables the iPod to **co-exist** with the GM CD changer, Navigation system, XM radio receiver, DVD system, and ON-Star, and provides the following benefits:

- Directs the iPod's audio output to GM vehicle audio system for optimal sound quality playback.
- Controls the iPod via vehicle's radio and steering wheel controls.
- Charges the iPod's internal battery, and charging stops automatically at approximately one hour after the iPod is paused. iPod will go to sleep mode when charging stops.

1-2 This interface adapter is designed to use the **XM band control** of your GM factory radio for controlling iPod and AUX. Your GM radio has to be a XM-Ready radio for this adaptor to work properly. Setting and using these controls for your auxiliary inputs as follows:

1-2-1. Using the XM band control in parallel with a GM satellite receiver:

- If your vehicle has a factory installed XM receiver, set both DIP switch #3 and DIP switch #4 to the "OFF" position. The XM1 will become iPod and AUX control and XM2 band remains for XM radio reception.
- Access and control your iPod and AUX with the "BAND" button on radio. Press "BAND" button until "XM1" is displayed on radio. Press "**Preset 5**" key for Playlist (or, disc number) change and AUX access.

1-2-2. Using the XM band control without a GM satellite receiver:

- Setting the DIP switch #3 to "OFF" and the DIP switch #4 to "ON" position, both XM1 and XM2 bands will allow you to control iPod and AUX input port.
- Access and control your iPod and AUX with the "BAND" button on radio. Press "BAND" button until "XM1" is displayed. Press "**Preset 5**" key for Playlist (or, disc number) change and AUX access.

1-3 Compatibility

This PA11-VETTE interface is compatible with iPod (G3, G4 and Photo), iPod mini, iPod nano and iPod video models featuring a dock connector. The functionality and features of the iPod interface described in this owner's manual are confirmed with firmware version 1.4.1 for iPod mini, firmware version 2.3 and 3.1.1 for iPod , firmware version 1.2.1 for iPod photo, firmware version 1.1.1 for iPod video, and firmware version 1.1.1 for iPod nano.

Future firmware updates for your iPod may affect the features and functions described in this owner's manual..

Display of artist name and song title information is supported **ONLY in Playlist Mode** use. To display text on a radio does not have navigation capability, press "DISP" or "INFO" button while iPod is playing.

1-4 Package Contents

PA11-VETTE contains one each of PA11-VETTE interface adapter, CB-VET, CB-F12, CB-PA14 and CDL-EXT cables.

1-5 Applications

PA11-VETTE is applicable to the following vehicles:

MODEL	YEAR	CABLES TO USE
Corvette w/ XM Receiver	2005-2006	CB-VET, CB-F12, CB-PA14
Corvette w/o XM Receiver	2005-2006	*CAS-G7i, CB-F12, CB-PA14
SRX (by Cadillac) w/ XM Receiver	2005-2006	CB-VET, CB-F12, CB-PA14
CTS (by Cadillac) w/ XM Receiver	2005-2006	CB-VET, CB-F12, CDL-EXT, CB-PA14
CHEVY TRUCKS		
EQUINAX w/ XM Receiver	2005-2006	CB-VET, CB-F12, CDL-EXT, CB-PA14
UPLANDER w/ XM Receiver	2005-2006	CB-VET, CB-F12, CDL-EXT, CB-PA14

*Note: Cable CAS-G7i is sold separately. Please contact **USASPEC** Tel: 626 336 3836

Section 2. PLAYLIST MODE, DIRECT MODE and AUX OPTION

PA11-VETTE provides two ways to control your iPod through car radio, namely **Playlist Mode** and **Direct Mode**.

2-1 Direct Mode: Search and select music on iPod directly just as you would in portable use. The music will play back through your car stereo. Use the track up/down, fast forward, and reverse buttons on your radio to control music playback. All control functions on iPod are available for use as well. Please see section 4 in this manual for additional information

2-2 Playlist Mode: Operate and control the iPod like it is a CD changer. This mode allows you to access up to five Playlists on the iPod. This is also referenced as the External Control Mode of the iPod. Display of artist and song title on radio is supported by PA11-VETTE only in this mode of operation. The detail of Playlist creation and playback controls are in section 5 of this manual.

DIP switch #2 is for mode selection use. "ON" position is for **Playlist Mode** and the "OFF" position is for **Direct Mode**.

Note: Disconnect iPod from PA11-VETTE before switching DIP switch #2 for mode alteration.

2-3 Additional AUX INPUT Option Selection

PA11-VETTE interface adaptor is capable of connecting two audio sources to your GM radio, including the iPod. The additional audio source connects to the RCA input jack labeled as AUX INPUT. If you choose to use AUX INPUT, the DIP switch #1 at the side of adaptor box must be set to the "OFF" position (factory presets it at "ON" position).

The audio source at AUX INPUT can be accessed at CD 6 Track 1. CD1 to CD 4 are for accessing Playlists, and CD 5 is for accessing all songs on iPod.

Operation of AUX

If the "AUX INPUT" option is selected, "CD 6 Track 1" gives access to the audio source connected to AUX INPUT port. Adjust VOLUME, BASS, TREBLE and etc. As you would normally do for the other program sources on the radio.

Section 3. INSTALLATION

(Professional installation is strongly suggested. Installation in the CTS and SRX are skill demanding works.)

3-1

Step 1-a- Set the DIP switch #2 to "OFF" position only if the **Direct Mode** is preferred.

Step 1-b- If your vehicle is neither equipped with a GM XM satellite radio receiver nor pre-wired for GM XM receiver, got to step 3 directly.

Step 2-a- Unplug the 16-pin connector from GM XM receiver and connect it to the "FEMALE" 16-pin connector on **USASPEC** cable CB-VET (**Note: Pull-out the BLUE color lock at the top side of the 16-pin connector before unplug it from the receiver.**)

Step 2-b- Plug **USASPEC** CB-VET cable's "MALE" 16-pin connector to XM receiver.

Step 2-c- Set both DIP switch #3 and #4 at side panel of PA11-VETTE to "OFF" position. Be sure the ACC power is OFF before go to next step.

Step 2-d- Connect **USASPEC** cable CB-F12 to the 12-pin "MALE" connector CB-VET. Plug the round DIN connector on CB-F12 to PA11-VETTE adaptor where labeled "RADIO".

Step 2-e- Plug the blue wire on **USASPEC** CB-VET cable to PA11-VETTE adaptor where labeled "XM". Go to step 4 directly.

(Note: If XM service is not activated, the free-of-charge XM preview and alert channels can be disabled by setting DIP switch #3 to OFF position and DIP switch #4 to ON position.)

Step 3-a- Remove radio from dash. Unplug the 24 pin and 12 pin connectors from the radio and connect them to **USASPEC** CAS-G7i cable.

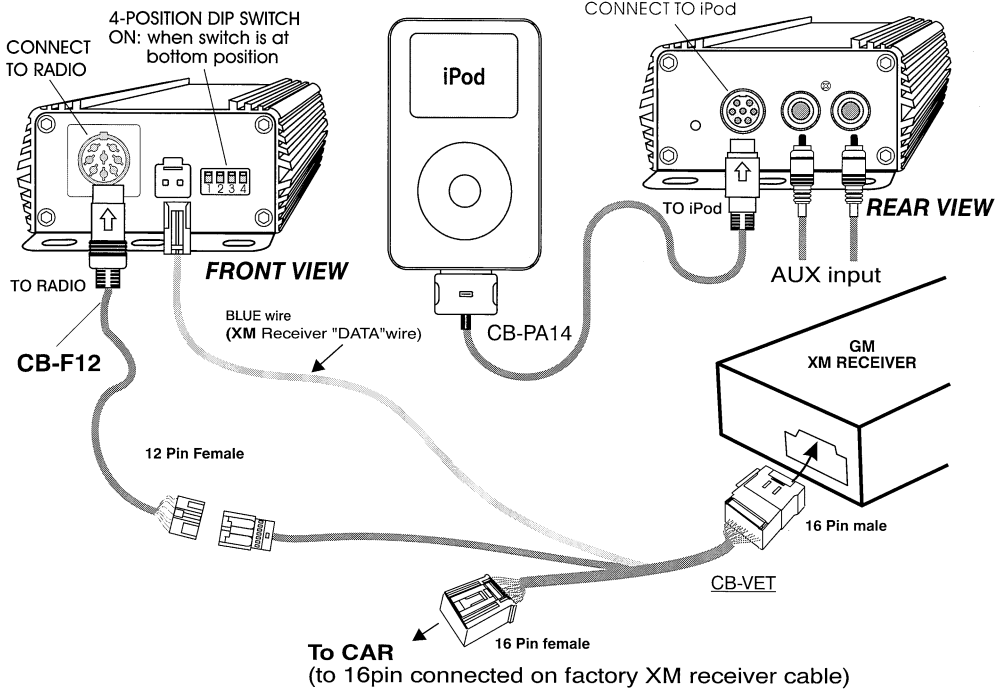
Step 3-b- Plug **USASPEC** CAS-G7i cable's 24 pin and 12 pin connectors to the radio.

Step 3-c- Set the DIP switch #3 to "ON" position and #4 to "OFF" position

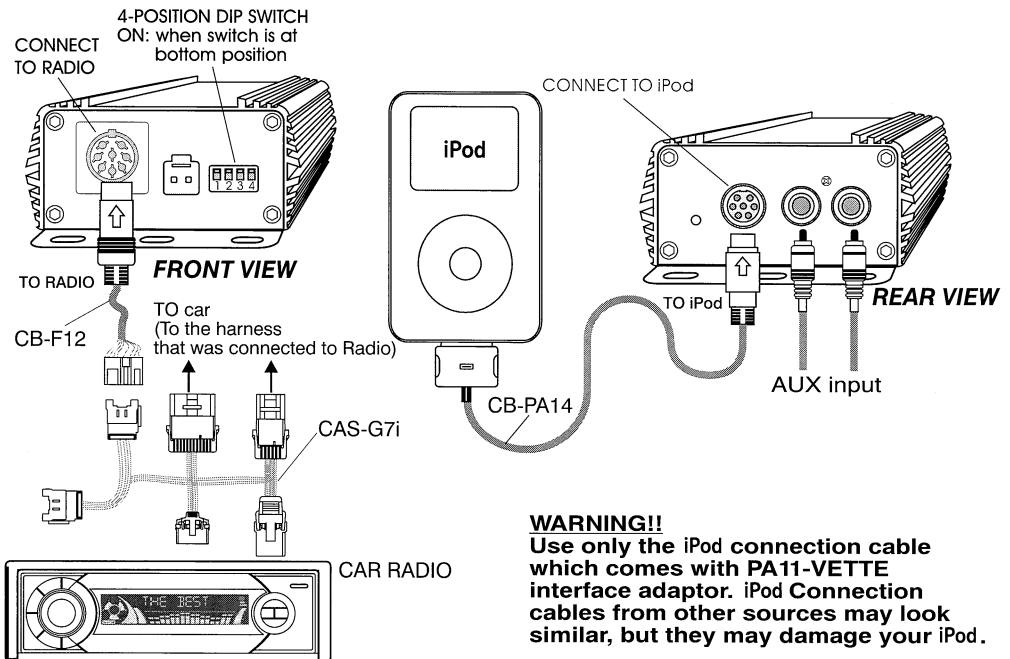
Step 3-d- Connect CAS-F12 cable to G7i cable. Plug the round DIN connector on CAS-F12 to adaptor where labeled "RADIO". Go to Step 4.

Step 4 - Connect the audio output of your auxiliary sources to AUX input jack on PA11-VETTE adapter box if the additional AUX option is selected by setting the DIP switch #1 to "OFF" position.

INSTALLATION for Vehicle equipped with a GM XM receiver



INSTALLATION for Corvettes which is neither equipped with a GM XM receiver nor Pre-wired for GM XM receiver



WARNING!!

Use only the iPod connection cable which comes with PA11-VETTE interface adaptor. iPod Connection cables from other sources may look similar, but they may damage your iPod.

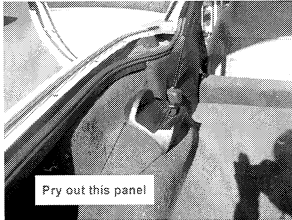
3-2

Please refer to the following photos about where to locate and how to connect the XM receiver in Corvette.

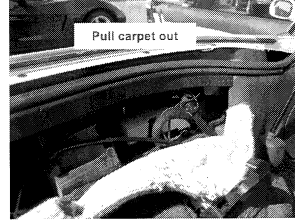
(A) Installation in Corvette Coupe and T-Top

XM receiver is located at driver side quote panel in the hatch.

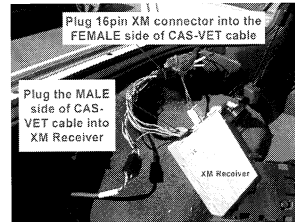
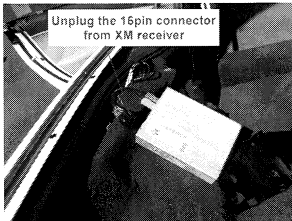
Remove the panel



pull out the carpet.

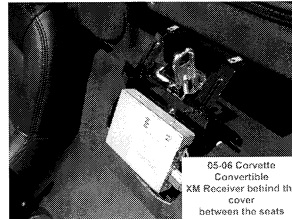


Lift the XM Receiver bracket and unplug the 16pin connector. Plug it into the CAS-VET (female side) cable. Plug the male side of CAS-VET into XM Receiver.



(B) Installation in Corvette convertible

XM Receiver is located behind the panel between the back of two seats



Reference to the instruction in (A) to finish the rest of connections.

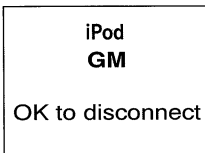
Section 4. CONNECTING & PLAYING of iPod in DIRECT MODE

When the iPod is connected to the adapter, the iPod's screen will go blank for few seconds before the normal screen returns. The audio of iPod music will be played back at DISC 5 and Track 1. Adjust VOLUME, BASS, TREBLE and etc. as you would normally do for the other program sources on the radio.

Section 5. CONNECTING & PLAYING of iPod in PLAYLIST MODE

5-1 Connecting iPod to the interface

After connect iPod to PA11-VETTE adaptor, the iPod will take a few moments to change to its external control mode. The screen of iPod will then show



and you are now able to select iPod mode on radio.

5-2 Select iPod mode on GM radio

Press "BAND" button, depending on the setting of the DIP switches made at Step 1 of installation, until "XM1" and "P6 T-xxxx" appears on the radio display (x is the track number of "Now Playing" song on iPod). This display confirms that iPod mode has been completely synchronized and activated. Synchronization timing varies according to the number of Playlists on your iPod.

If iPod was playing previously before radio or ACC power was OFF, and the iPod was not disconnected, playback resumes from where it was stopped.

5-3 Disconnecting iPod from the interface

The radio will stay at XM band and displays "iPod" when iPod is disconnected from adapter.

5-4 Playback of songs on iPod

All audio tracks on your iPod will be played (All SONG) at P6. Track order is determined by the default order on your iPod. Selecting P1 to P5 on radio will allow playback of 5 Playlists on iPod .

Every time when iPod is connected to the interface adaptor, the playback starts from "Now Playing" song at DISC 6 by default.

If iPod was playing any of its Playlist right before the connection, the same Playlist will continue to play and repeated at disc 6 but iPod will switch to "All" as soon as fast forward button is pressed.

5-5 Selecting a Playlist

Press "Preset 5" button to select a Playlist. The selected Playlist will begin playing and the Playlist number and track number will be displayed. In rare cases, this may take up to few seconds for the completion of synchronization.

After playing the last song in the current Playlist, playback will start again from the first track of this Playlist.

Playlist naming

- When iPod is connected to your radio via PA11-VETTE interface adaptor, the adaptor scans all available Playlists on iPod and looks for designated GM Playlists are created for direct access with PRESET buttons on GM radio. The designated GM Playlists on iPod are related to "P" numbers on radio display as follow:

P 1: GM1...
P 2: GM2...
P 3: GM3...
P 4: GM4...
P 5: GM5...
P 6: ALL SONGS on iPod

The naming of designated GM Playlists in iTunes for PA11-VETTE interface must be exactly as shown. GM must be in capital letters and there can be no spaces between GM text and number.

However, you may add any text after the correct naming of a Playlist. (i.e. GM1-Jazz, GM3_Favorite3 are acceptable Playlist names for PA11-VETTE iPod interface.)

- If no designated GM Playlists are created, PA11-VETTE adaptor automatically relates the first five available Playlists on iPod to PRESET number 1 to 5 regardless Playlist's naming.
- If less than five designated GM Playlists are created, PA11-VETTE adaptor automatically fills up the rest of PRESET numbers beginning with the first available Playlist on iPod. Example: if only three designated GM1, GM3 and GM5 Playlists are created, the disc number on radio will be:

P 1: GM1...
P 2: (first available Playlist on iPod)
P 3: GM3...
P 4: (2nd available Playlist on iPod)
P 5: GM5...

The iPod interface does not recognize Playlists that contain no audio tracks regardless of Playlist naming. The iPod interface also does not recognize the "On-The-Go" Playlist on your iPod.

5-6 Playback function controls

You can control playback with several functions. These functions are generally cancelled when you press select radio buttons; disconnect the iPod, or POWER OFF the radio or ACC.

Random (Shuffle)

Press the "Preset 6" songs within a Playlist will play back in random order. The display of track number will change to start from 1 as it does on the iPod.

Repeat

Repeat of a song being played is not supported.

Track Up/Down

Press the "Preset 2" (track up) button to advance to the next track in the Playlist.

Press the "Preset 1" (track down) button to go to the beginning of the track that's being played. Press the "Preset 1" button twice to go to the previous track.

If the track up or track down button is pressed quickly in repetition, the track numbers displayed may change unevenly. You may also hear short bits of audio during repeated presses of track up and track down buttons.

Fast Track Search (x10)

Pressing the "Preset 4" (fast forward) or "Preset 3" (fast reverse) buttons will advance or retreat through the tracks in the Playlist in increment of 10 (i.e. 04, 14, 24...). When the end of the Playlist is reached, the search will stop at track 1, and then continue by increments of 10 (i.e. 19, 29, 1, 11...).

Press and hold the fast forward or fast reverse buttons for more than 4 seconds, and the search will jump to the last track or the first track of the Playlist.

If you are in scan mode, it will be cancelled.

Fast Forward/Fast Reverse Play

This function applies **only** in **random mode**. Since engaging or disengaging the random mode does not stop playback of the current song, you can change into or out of random mode to do the fast track search (x10) function, or the fast forward/fast backward play function.

Pressing and holding the forward or backward button will cause only the current track to skip through at a rapid speed.

During fast forward, when the end of the current track is reached, the iPod will start playing the next random track at normal speed. During fast backward, when the start of the current track is reached, the track will start playing again at normal speed. To continue fast forward or fast reverse play, release the button and press it again.

Changing source to AM/FM, CD, Cassette

When a source other than the iPod is selected on the radio, the iPod will pause play and battery will continue to charge approximately one hour before iPod goes to sleep mode.

Section 6. CAUTION

- In general, iPod has not been designed to withstand temperature extremes in automobiles. Please consult your iPod Owner's Manual regarding acceptable operation and storage temperatures.
- Do not disassemble or alter the cable and interface box.
- Make the connections correctly.
- Do not cut away the wire sheath or use the power for other equipments.
- Do not install in locations which might hinder vehicle operation or create hazards for vehicle occupants.
- Having the wiring and installation done by professionals.
- Arrange wiring so it is not crimped or pinched.
- Do not use this product for purposes other than stated for the vehicle

Note: iPod, iPod mini, iPod nano, iPod photo, iPod video and iTunes are registered trade marks of Apple Computer, Inc.

XM is a trade mark of XM Satellite Radio Inc.

GM and CORVETTE are registered trade marks of General Motors Corporation. Design and specifications are subject to change without notice.

USA·SPEC

Model **PA11-VETTE**
iPod to **CORVETTE** car stereo interface

PLAY, CONTROL & CHARGE

Your iPod through CORVETTE, CTS, RSX, Car Stereo System!

KEY FEATURES

This interface connects an iPod or iPod mini directly to your GM audio system with following benefits:

- Connect directly iPod's audio output to GM vehicle audio system for optimal sound quality playback.
- **Playlist Mode:** Play songs and Playlists on iPod with XM band control buttons.
- **Direct Mode:** Search and select songs directly on iPod.
- Maintain current Playlist when switching from portable to in-car use.
- Charge the iPod battery while playing, charging automatically ends at one hour after iPod is paused to prevent car battery drain.
- Plus- Satellite radio, DVD player or other audio sources can be used through AUX Audio Input jack.

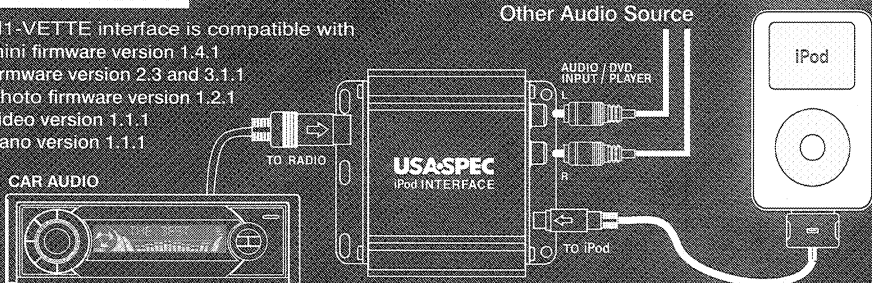
This adapter allows the **XM band control** of GM radio to access songs on iPod. It is designed to **co-exist and compatible with factory Navigation, CD changer, XM receiver, DVD system, and On-Star.**

Display of artist and song title on radio are supported in Playlist Mode.

COMPATIBILITY

This PA11-VETTE interface is compatible with

- iPod mini firmware version 1.4.1
- iPod firmware version 2.3 and 3.1.1
- iPod photo firmware version 1.2.1
- iPod video version 1.1.1
- iPod nano version 1.1.1



Display of artist and song title information, track search by artist, song title, album or genre are NOT supported. Only the Playlist and track numbers are displayed.

APPLICATIONS

PA11-VETTE is applicable to the following vehicles:

MODEL	YEAR	CABLES TO USE
Corvette w/ XM Receiver	2005-2006	CB-VET, CB-F12, CB-PA14
Corvette w/o XM Receiver	2005-2006	*CAS-G7i, CB-F12, CB-PA14
SRX (by Cadillac) w/ XM Receiver	2005-2006	CB-VET, CB-F12, CB-PA14
CTS (by Cadillac) w/ XM Receiver	2005-2006	CB-VET, CB-F12, CDL-EXT, CB-PA14
CHEVY TRUCKS		
EQUINAX w/ XM Receiver	2005-2006	CB-VET, CB-F12, CDL-EXT, CB-PA14
UPLANDER w/ XM Receiver	2005-2006	CB-VET, CB-F12, CDL-EXT, CB-PA14

*Note: Cable CAS-G7i is sold separately. Please contact **USA·SPEC** @ 626 336 3836

XM is a trade mark of XM Satellite Radio Inc.
GM and CORVETTE are registered trade marks of General Motors Corporation.

LTI Enterprises, Inc. 167 Mason Way, Unit A2, City of Industry, CA91746
www.usaspec.com or www.usaspec.net Tel(626)336-3836

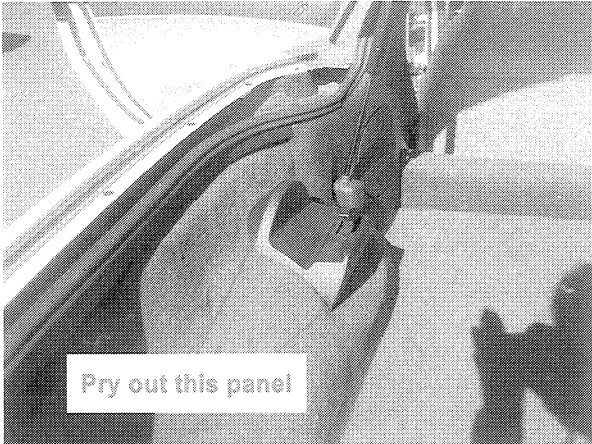


Made in Korea

(A) Installation in Corvette Coupe and T-Top

XM Receiver is located at driver side quote panel in the hatch.

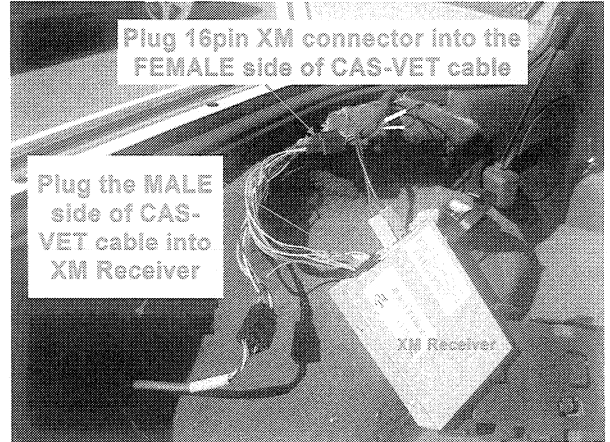
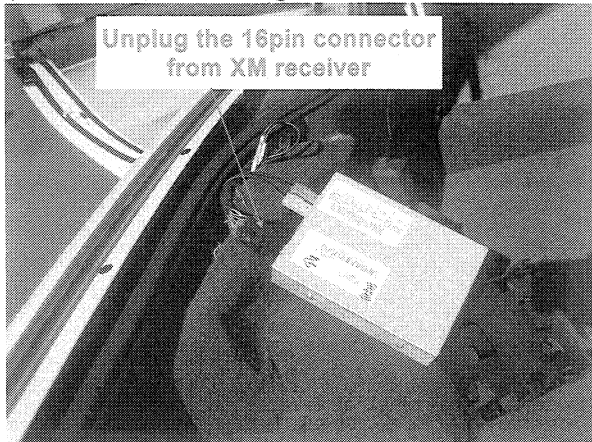
Remove the panel



Pull out the carpet.

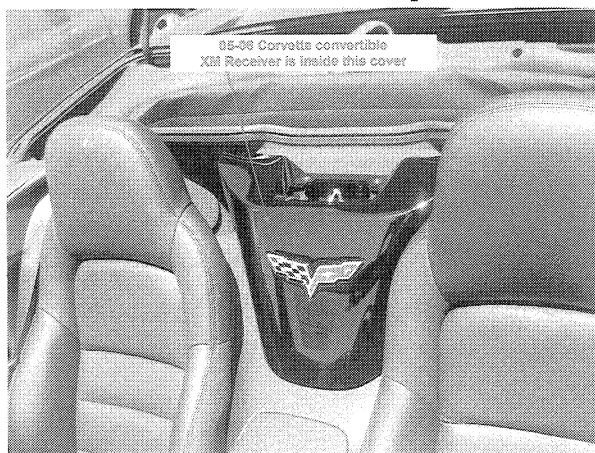


Lift the XM Receiver bracket and unplug the 16pin connector. Plug it into the CAS-VET (female side) cable. Plug the male side of CAS-VET into XM Receiver.



(B) Installation in Corvette convertible

XM Receiver is located behind the panel between the back of two seats



Reference to the instruction in (A) to finish the rest of connections.

LIMITED WARRANTY REGISTRATION CARD

Model No :

Serial No :

Name _____

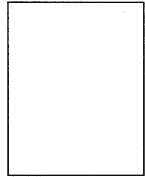
Address _____

City _____ State _____ Zip _____

Date of Purchase _____

Dealer Name/Address _____

Vehicle Make : _____ Yr _____ Model _____



LTI Enterprises Inc.
167 Mason Way, Unit A2
City of Industry, CA 91746
Phone (626)336-3836
Fax (626)336-0115

609632

**IMPORTANT WARRANTY
INFORMATION ENCLOSED
PLEASE REGISTER FOR
EXTENDED COVERAGE**

WARRANTY CENTER

LTI Enterprises Inc.
167 Mason Way, Unit A2
City of Industry, CA 91746
Phone (626)336-3836
Fax (626)336-0115

609632

**Extension cable available for CB-P14
(ipod cable).
To order please call 626 336 3836.**

LIMITED WARRANTY

Thank you for choosing a **USASPEC** product. LTI Enterprises Inc., is committed to providing high quality defect free products. All **USASPEC** products are tested before leaving the factory and are warranted against defects in materials and workmanship for a period of three year to the original owner. The three-year warranty period begins at the date of manufacture or the date of original installation.

Please see installation registration below.

PRODUCTS COVERED :

Products and related accessories supplied by LTI Enterprises Inc. with the brand name of **USASPEC** are covered by this warranty. Only products purchased in the U.S.A. is covered.

WARRANTY DOES NOT COVER :

1. Damage due to improper installation, operation, accident, negligence, abuse, or not following instructions, warnings, and acceptable industry procedures.
2. Damage caused during the shipment or transportation of the product. All claims of this nature must be presented to the carrier.
3. Damage caused by acts of God, War, or civil disturbance, including without limitation, flood, fire, storms, earthquake or other acts of nature.
4. Any expenses or cost to remove or reinstall products.
5. Any product without the original serial number and factory seal, or has been serviced or modified without the authorization of LTI Enterprises Inc.
6. Any product not distributed by an authorized LTI Enterprises Inc. dealer.

INSTALLATION REGISTRATION :

To provide warranty coverage from the date of installation the limited warranty registration card with this information must be completed and returned to LTI Enterprises Inc. within thirty(30) days of the installation.

TO OBTAIN WARRANTY SERVICE :

Contact the Customer Service center printed on the back of this warranty for assistance. A detailed description of the problem(s) is required for service. Proof of purchase is also required when sending a product for warrant service. If the problem cannot be resolved and the product must be returned for service you will receive an authorization from the service center. The product must be delivered pre-paid to the service center. LTI Enterprises Inc. will, at our option, repair the product or replace it with new or reconditioned product, and if it was shipped to the service center, the return shipping will be pre-paid free of charge provided the repairs are covered by the warranty. The product must be packed securely for shipment to the service center in order to preserve the warranty and prevent damage.

NO IMPLIED WARRANTY, INCLUDING MERCHANTABILITY AND FITNESS FOR USE, APPLIES TO THIS PRODUCT AFTER THE THREE YEAR PERIOD AS DEFINED ABOVE, AND NO OTHER EXPRESSED WARRANTY OR GUARANTEE, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BIND THE WARRANTOR. NEITHER THE WARRANTOR NOR ANY OTHER PERSON, FIRM OR CORPORATION, IS RESPONSIBLE FOR LOSSES OR INCONVENIENCES, OR FOR ANY CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. SOME STATES/PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, AND SOME DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state and province to province. Some of the limitations or exclusions may not apply to you.