QUICK CHECK

- **If your car is one of the following Acura model year then use the PA15 -HON2 model:**
  TSX 04-09 with Navigation
  MDX 05-06 with Navigation

- **If your TL, MDX, or RDX navigation does include the XM Live Traffic option, then the PA15-ACUxl model should be used regardless of whether the Live Traffic subscription is activated or not.**

Please note:

For technical or warranty services, please email to usa_spec@msn.com or support@usaspec.net or call 6263363836 (Pacific time 9am to 5pm).

Please note that info@usaspec.com is for sales related inquiries only. It will not respond to technical support and warranty service requests.

Design of this product is subject to change without notice.

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ACURA and Honda are registered trade marks of Honda Co., Ltd.
iPod, iPhone, and iTouch are registered trade marks of Apple Computer, Inc.

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

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Products and related accessories supplied by LTI Enterprises Inc. with the brand name of **USA SPEC** 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.

TO OBTAIN WARRANTY SERVICE :
Contact the Customer Service center printed on the back of this manual 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 ONE 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 INCIDENTIAL 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.

Playlist #1: HONDA1...
Playlist #2: HONDA2...
Playlist #3: HONDA3...
Playlist #4: HONDA4...
Playlist #5: HONDA5...
Playlist #6: HONDA6...

The word HONDA must be in capital letters and there can be no spaces between the word HONDA and numbers.

You may append text to the designated HONDA Playlist names. Example: HONDA1-jazz, HONDA3_Favorite3, HONDA5podcast, etc.

5-2 If no designated HONDA Playlists are created with iTune, PA15-HON3 adaptor will automatically relate the first 6 available Playlists on iPod to Playlist #1 to #6 regardless how the playlists are named.

5-3 If less than 6 designated HONDA Playlist are created, PA15-HON3 will automatically fill up the rest of Playlist numbers beginning with the first available Playlist on iPod Example: if only 3 designated HONDA1, HONDA3 and HONDA5 Playlists are created, then the Playlist number on radio will be:

Playlist # 1: HONDA1...
Playlist # 2: (the 1st available Playlist on iPod)
Playlist # 3: HONDA3...
Playlist # 4: (the 2nd available Playlist on iPod)
Playlist # 5: HONDA5...
Playlist # 6: (the 3rd available Playlist on iPod)

XM is a registered trade of XM Satellite Radio Inc.
iPod, iTouch and iPhone are the registered trade name of Apple Computer Inc.
ACURA and HONDA are the registered trade name of Honda Motor Corporation.
Design is subject to change without notice.

!!CAUTION!!
- In general, iPods have 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 equipment.
- Do not install in locations which might hinder vehicle operation or create hazard for vehicle occupants.
- Have 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.

Thank you for purchasing **USA•SPEC** product. This manual describes the function and operation of PA15-HON3 iPod interface for Acura/Honda car radios. Please read this manual before installing the interface adaptor in your vehicle.

!!IMPORTANT!!
- ❖ It is strongly recommended that the unit is installed in an accessible location, so that it can later be easily reset or upgraded.
- ❖ **Eject ALL CDs from the built-in CD player or CD changer before installation.**

- ❖ **USA•SPEC** products are distributed through authorized dealers so we can insure that customers receive proper services from the dealers. **USA•SPEC** reserves the right to offer technical support or warranty only on products purchased through authorized **USA•SPEC** dealers.

- ❖ **SAFETY NOTE:** You should always give full attention to driving. Do not operate this product in such a way that might distract you while you are driving.
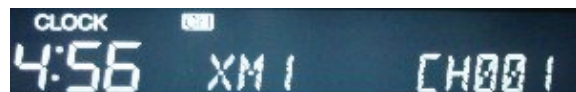
Section 1.   ABOUT INTERFACE PA15-HON3

1-1 Introduction

a) This interface connnects an iPod (includes iPhone and iTouch) directly to to your ACURA/HONDA audio system for optimal playback sound quality.

b) This interface enables iPod to coexist with ACURA/HONDA navigation system, CD changer, XM radio receiver and DVD system, and controls iPod via both car radio and steering wheel controls.

c) PA15-HON3's on board software translates commands from radio's CD changer control or XM control into commands that the iPod understands.

  i   You can use either the XM control or the CD changer control of the radio to operate the iPod. Use XM control on XM ready radio if text display is desired.

  ii **When using XM control, iPod will play at XM1 while XM channels will be retained at XM2. But, if the AUX input is disabled (DIP switch #1 set to OFF) then when iPod is disconnected from the interface, XM1 will resume to XM channels.**

d) This interface charges the iPod while it is playing. Charging stops automatically half an hour after car key is turned off or iPod is paused.

1-2 Text Display of Song Information

a) Artist name and song title can be displayed on radio by configuring PA15-HON3 to work with XM buttons on the radio.

b) Only DISC number and track number are displayed on radio (Disc number = Playlist number) when using the PA15-HON3 with radio's CD or AUX button.

- **Examples of iPod Artist Text on Radio LCD Display:**

CLOCK
4:56   XM1   CH001

AR-BEKKA BRA

- **Examples of iPod Text on Navigation Screen:**

| FM1 | FM2 | AM | XM1 | XM2 | DISC | TAPE | AUX |

CHANNEL 001 -We All Fall Down
CATEGORY AR-Bekka Bramlet
NAME Bekka Bramlett
TITLE America's Sweethea   ▬ VOL 6

1	2	3
1	2	3
4	5	6
4	5	6

| MODE | SCAN | SOUND |

1-3 Package Content

This package contains one each of the following: PA15-HON3 interface adaptor, CAS-H3y, and CB-PA105 cables.

1-4 Compatibility

Future iPod and iTune software updates may affect the features and functions described in this owner's manual and **USA&SPEC** website.
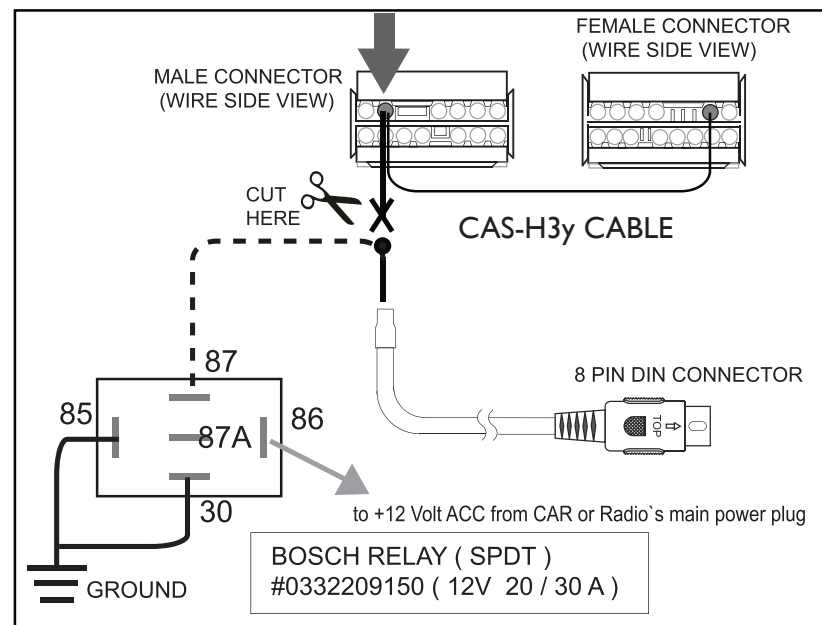
1-5 Application

FEMALE CONNECTOR
(WIRE SIDE VIEW)

MALE CONNECTOR
(WIRE SIDE VIEW)

CUT
HERE

CAS-H3y CABLE

87

85   86

87A

30

8 PIN DIN CONNECTOR

to +12 Volt ACC from CAR or Radio's main power plug

GROUND

BOSCH RELAY (SPDT)
#0332209150 (12V 20 / 30 A)

Fig (3)

NOTE: THE OTHER WIRES ON **USA&SPEC** CAS-H3y CABLE ARE NOT SHOWN ON THE DIAGRAM.

Section 5.   Playlist Naming

5-1   When iPod is connected to your radio via PA15-HON3, the adaptor scans all available Playlists and Folders on iPod and looks for designated HONDA Playlists which are **created with iTune** for direct access from HONDA / ACURA radio. The designated HONDA Playlists should be named as follow if your iPod has more than 6 Playlists.

Step 5-Plug the factory 14-pin male connector to **USA.SPEC** 14-pin **female** connector on
      CAS-H3y cable. Refer to Fig. (1).

Step 6-Plug the 18-pin DIN connector on **USA.SPEC** CAS-H3y cable to the adaptor
      where is labeled RADIO.

Step 7-If the vehicle has Rear-Seat-Entertainment system, wire ACCessory power with a
      relay. refer to Fig. (2)

Step 8-Connect your audio source to the RCA jacks on adaptor if AUX option is selected by
      DIP switch #1 = ON.

Step 9-Plug CB-PA105 cable to the adaptor where it is labeled i**Pod**.

Step 10-Install radio back to the dash only after a successful test run is done.

**Note: On some of HONDA radio, the 14-pin connector is located at bottom
side of radio chassis.**

WARNING!!

**Use only the iPod connection cable which comes with PA15-HON3 interface adaptor.
iPod connection cable from other sources may look similar, but they may damage your iPod.**
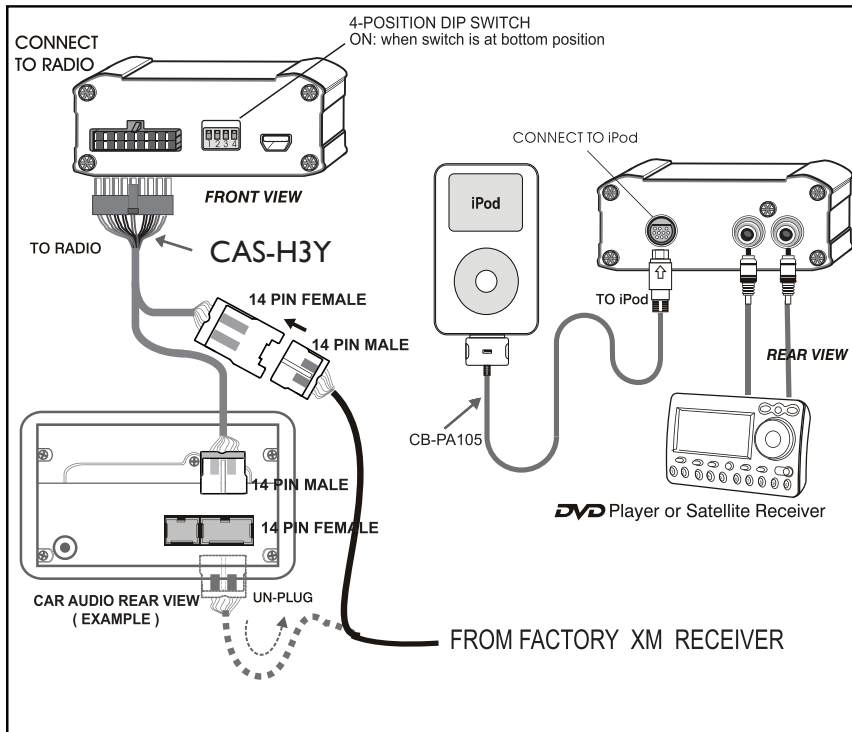

Fig (1)

Make	Model	Year	Type of Radio	Control iPod with...	Note
ACURA	MDX	05 - 09	Non-Nav	CDC or XM	(1)
		05 - 06	Nav	XM	Use PA15-HON2
		07 - 09	Nav	XM	Use PA15-ACUxl
	RL	06 - 09	Non-Nav (2)	CDC or XM	
		05 - 09	Nav	XM	Use PA15-ACUxl
	TL	04 - 08	Non-Nav	CDC or XM	(1)
		04 - 06	Nav	XM	
		07 - 09	Nav	XM	Use PA15-ACUxl
	TSX	06 - 09	Non-Nav	CDC or XM	
		06 - 09	Nav	XM	Use PA15-HON2
	RDX	07 - 09	Non-Nav	CDC or XM	(1)
			Nav	XM	Use PA15-ACUxl

Note:1)   To use XM control, radio needs to be XM ready.

* **USA.SPEC** Verifies the published radio and vehicle application to the best of its ability.
Due to uncontrollable factors, **USA.SPEC** can not 100% guarantee every published
applications. These factors include such variables as, anomalies within a factory radio,
factory radio heretofore unknown to **USA.SPEC**, and partial model year changes.

Section 2. Playlist Mode, Direct Mode, Folder Mode, and AUX Option.

PA15-HON3 Provides two ways to control your iPod, namely **(Playlist Mode +
Direct Mode) or (Folder Mode + Direct Mode).**

2-1 Direct Mode

Search and select music on i**Pod** just as you would in portable use. Also use the track
up/down, fast forward, fast reverse on radio and steering wheel to control.

- Direct Mode is supported in both XM control and CD changer control configuration.
- When PA15-HON3 is configured to XM control, XM 1-5 or XM 1-8 (depending on
  the DIP setting) is dedicated to Direct Mode.
- When PA15-HON3 is configured to CD changer control, DISC #8 is dedicated to
  Direct Mode.
- In Direct Mode, screen and click wheel keypad on i**Pod** are unlocked and fully
  functional. When in Direct Mode, text display is not available.
- *Application Tip*
  *When in Direct Mode, an iPhone is cable of streaming music through Pandora or
  Sirius/XM Online.*

2-2 Folder Mode

Access 3 Folders, namely, Playlist, Artist, and Album on iPod from the radio and allows text based song search by the title of Artist, Album, and Playlist. See section 3-1 for more information.

Folder Mode is applicable only when PA15-HON3 is configured to use XM control and the radio must have a XM button.

XM 1-1 accesses *Playlist* Folder. Display on radio is PL-*name of Playlist*

XM 1-2 accesses *Artist* Folder. Display on radio is : AR-*name of artist*

XM 1-3 accesses *Album* Folder. Display on radio is AL-*album name*

CAUTION: DO NOT operate the text based song search feature if it will distract and prevent you from giving your full attention to driving. Safe driving is your responsibility.

2-3 Playlist Mode

Operate and control the iPod like you would a CD changer. This mode allows you to access five Playlists on iPod from the radio. iPod screen will always display "OK to dissconnect" or "Attached to accessory" and iPod's keypad is locked and not functional. See section 3-2 and 3-3 of this manual for more information.

- Playlist Mode is supported in both XM control configuration and CD changer control configuration.
- Radio displays artist name and song title only when adaptor is configured to control iPod with the XM buttons on the radio.
- When PA15-HON3 is configured to use XM control, CH01 to CH06 are Playlists and CH07 is All Songs on iPod.
- When PA15-HON3 is configured to use CD changer control, DISC #1 to DISC #6 are Playlists and DISC #7 is All Songs on iPod.
- If your iPod has more than 6 Playlists, then please refer to Section 5: Playlist Naming.

CAUTION: DO NOT operate the text based song search feature if it will distract and prevent you from giving your full attention to driving. Safe driving is your responsibility.

2-3 AUX Input Option

In addition to iPod, PA15-HON3 can connect a second audio source to car radio. Connect the second audio source to the RCA jack labeled **AUX INPUT**. AUX input is enabled by setting the DIP switch #1 on the side of the interface adaptor to ON position.

Section 3. Mode Setting and Function Control

Please carefully read the three different configuration of PA15-HON3 and decide which one to use and set the DIP switches accordingly before starting the installation.

Note: Radios that do not have a XM button can only be CD changer control configuration. See Section 3-4.

3-3-2 Functions and Radio Buttons

- Press CD or AUX button on radio to access iPod.
- Use DISC+ or DISC- button on radio to access Playlist, Direct Mode and RCA AUX as follow.

At......	Radio Plays	Remark
Disc 1	Playlist # 1	
Disc 2	Playlist # 2	
Disc 3	Playlist # 3	
Disc 4	Playlist # 4	
Disc 5	Playlist # 5	
Disc 6	Playlist # 6	
Disc 7	All Songs	
Disc 8	Direct Mode	
Disc 9	RCA AUX	

- Track UP/DOWN from steering wheel remote control is supported.

3-3-3 Connecting and Playing iPod

- When iPod is connected to interface adaptor and CD button is pressed, iPod will play at DISC #7.
- DISC #7 will continue to play the track in **the** Folder which was played prior iPod is connected to PA15-HON3. As soon as the last track of **the** Folder is played, iPod will go to the first track of All Songs folder.
- When returning to DISC #7 from Direct Mode, DISC #7 will continue the track and the folder being played at DISC #8 (Direct Mode). When the last track of the folder is played, iPod will go to All Songs folder.
- If iPod has more than 6 Playlists, then please refer to Section 5: Playlist Naming.

Section 4. CABLE CONNECTION

Step 1-Decide which MODE to use and set DIP switches according to information in section 3.

Step 2-Must remove or eject all CDs from radio.

Step 3-Remove radio from the dash.

Step 4-Plug the 14-pin male connector on **USA**●**SPEC** CAS-H3y cable to radio. If a factory cable has the same identical 14-pin male connector already connected to radio, then unplug the factory cable from radio first. If a factory 14-pin cable does not exist, then skip to Step 6 directly.

- Turn the TUNING knob to change tracks. *Note (a): Due to radio's maximum limit of 255 XM channels, <u>the far left hand digit of track number</u> display is therefore reset to 0 (zero) at every integer multiple of 256.*
  For example, 256th track on iPod is displayed as 056 and 456th track on iPod is also displayed as 056.
- Press preset button #2 to begin the RANDOM track play and press the preset #2 button 2nd time to terminate the RANDOM play.
- Press the preset #3 or the preset #4 will retreat or advance 10 tracks respectively.
- Press and hold (about 4 seconds) the preset #3 or the preset #4 to fast rewind or fast forward a track for approximately 40 seconds.
- Press SCAN button to advance 10 tracks when random is OFF.
- Steering wheel control:
  Several different steering wheel XM control designs are available from Honda and Acura. Some of the designs allow PA15-HON3 to do track up and track down while others only allow Playlist or Folder change from the steering wheel control. In general, it is able to do track up/down if the CH+ /CH- keys on the steering wheels are the double-function type. Double-function means that the CH+/CH- buttons can perform two different tasks depending on the length of time of it is being pressed.

3-2-3 Connecting and Playing iPod

- When iPod is connected to interface adaptor and XM on radio is pressed, iPod will begin to play at XM1-7 (All Songs on iPod).
  XM1-7 will continue to play the track in *the* Folder which was played prior to iPod is connected to PA15-HON3. When the last track of *the* Folder is played, iPod will go to the first track of All Songs folder.
- When returning to XM1-7 from Direct Mode (XM1-8), XM 1-7 will continue the track and the folder that was being played at XM1-8 (Direct Mode). When the last track of *the* folder is played, iPod will then go to the first song in the All Songs folder.
- If iPod has more than 6 Playlists, then please refer to Section 5: Playlist Naming.

3-3 Playlist Mode (without Text Display) + <u>Direct Mode</u> Configuration

Note: Radio without a XM or SAT button must use this configuration of PA15-HON3.

3-2-1 Set DIP switches as follow:

DIP #2	DIP #3	DIP #4
ON	ON	ON

Note: DIP switch #1 is only related to RCA AUX option setting and it is independent from these DIP switches' setting.

3-1 Folder Mode + Direct Mode Configuration

(Note: this configuration supports text display but is only applicable to radios that have XM buttons.)

3-1-1 Set DIP switches as follow:

DIP #2	DIP #3	DIP #4
OFF	ON	OFF

Note: DIP switch #1 is only related to RCA AUX option setting and it is independent from these DIP switches' setting.

3-1-2 Functions and Radio Buttons:

- Press XM button on radio to access iPod at XM1.
- Press XM button on radio to access XM stations at XM2.
- Use radio Preset buttons to access iPod Folders, Direct Mode, and RCA AUX as follow:

Push......	Radio Displays	Radio Plays	Remark
Preset #1	XM 1 - 1	Playlist Folders	
Preset #2	XM 1 - 2	Artist Folders	
Preset #3	XM 1 - 3	Album Folders	
Preset #4	XM 1 - 4	All Songs Folders	
Preset #5	XM 1 - 5	iPod Direct	
Preset #6	XM 1 - 6	RCA AUX	IF DIP #1 = ON

- Press the DISP button on radio to view music's text information.. Text display on radio is as follow.

DISP Button	Prefix Text from Radio	Text from iPod	Note
1st Push →	XM CHannel NUMBER	*track number*	(a)
2nd Push →	XM CATEGORY	*folder type & name*	
3rd Push →	NAME	*artist name*	
4th Push →	TITLE	*album name*	
4th Push →	XM CHannel NAME	*title of music*	

- Turn the TUNING knob to change tracks. *Note (a): Due to radio's maximum limit of 255 XM channels, <u>the far left hand digit of track number</u> display is therefore reset to 0 (zero) at every integer multiple of 256.*
  For example, 256th track on iPod is displayed as 056 and 456th track on iPod is also displayed as 056.
- Press SEEK (- / +) or SKIP (◄◄ , ►►) button to select sub-folder (example: change to next or previous Playlist while in the Playlist folder; change to next or previous Artist while in the Artist folder). When in Songs Folder, press SEEK to change track by alphabetical order (this feature applies to **iTouch** and **iPhone** only. For iPods, the SEEK button will change the track up or down only).
- Press-and-hold (until a beep is heard) preset button #2 to begin RANDOM track play and press-and-hold the preset #2 button (until a beep is heard) to terminate RANDOM play.
- Press and hold (about 4 seconds) the preset #3 or the preset #4 to fast rewind or fast forward a track for approximately 40 seconds.
- Press SCAN button to advance 10 tracks when random is OFF.
- Steering wheel control:
  Several different steering wheel XM control designs are available from Honda and Acura. Some of the designs allow the PA15-HON3 to do track up/track down while others only allow Playlist or Folder change from the steering wheel controls. In general, it is able to do track up/down if the CH+ / CH- keys on the steering wheel are the double-function type. Double-function means that the CH+/CH- button can perform two different tasks depending on the length of time it is being pressed.

3-1-3 Connecting and Playing iPod

- When iPod is connected to interface adaptor and XM1 on radio is pressed, iPod will begin to play at XM1-4 (preset #4).
- XM1-4 (preset #4) will continue to play the track in **the** Folder which was played prior **iPod** is connected to the PA15-HON3. As soon as the last track of **the playing** Folder is completed, iPod will go to the first track of Songs folder.
- When returning to Songs Folder (preset #4) <u>from Direct Mode (preset #5)</u>, Preset #4 will continue the same iPod folder being played at Direct Mode. When the last track of this folder is played, iPod will then go to the first track of Songs folder. ACURA/HONDA XM radio has two modes: <u>CHANNEL MODE</u> and <u>CATEGORY</u>
- <u>MODE</u>. Press the **MODE** button or press-n-hold the **DISP** button and the radio will switch from one mode to the other. The functions being described above are applicable when XM radio is set to CHANNEL MODE.

3-2 Playlist Mode (with Text display) + <u>Direct Mode</u> <u>Configuration</u>

(Note: this configuration supports text display but is applicable only to radios that have XM buttons.)

3-2-1 Set DIP switchs as follow:

DIP #2	DIP #3	DIP #4
OFF	ON	ON

Note: DIP switch #1 is only related to RCA AUX option setting and it is independent from these DIP switches' setting.

3-2-2 Functions and Radio Buttons:

- Press XM button on radio to access iPod at XM1
- Press XM button on radio to access XM stations at XM2
- Use DISC+ or DISC- buttons on radio to access Playlists, Direct Mode, and RCA AUX as follow: (note: DISC- is Preset button #5 and DISC+ is Preset button #6

At......	Radio Plays	Remark
XM 1 - 1	Playlist # 1	
XM 1 - 2	Playlist # 2	
XM 1 - 3	Playlist # 3	
XM 1 - 4	Playlist # 4	
XM 1 - 5	Playlist # 5	
XM 1 - 6	Playlist # 6	
XM 1 - 7	All Songs	
XM 1 - 8	Direct Mode	
XM 1 - 9	RCA AUX	IF DIP #1 = ON

- Press DISP button on radio to view music's text information. Text display on radio is as follow:

DISP Button	Prefix Text from Radio	Text from iPod	Note
1st Push →	XM CHannel NUMBER	*track number*	(a)
2nd Push →	XM CATEGORY	*folder type & name*	
3rd Push →	NAME	*artist name*	
4th Push →	TITLE	*album name*	
4th Push →	XM CHannel NAME	*title of music*	