

# **PA15-HON2**

iPod to HONDA and ACURA Car Stereo Interface

## **Owner's Manual**

(Preliminary Version)

2008.10.20

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## Quick Guide

- If the radio has XM button, read Sections:  
2-2, 2-3, 3-1 and 3-2 first.
- If the radio does NOT have XM, read Section:  
2-2 and 3-3 first.

Thanks for purchasing USA SPEC product. This manual describes the functions and operation of PA15-HON2 iPod interface to HONDA and ACURA car radios. Please read this manual before installing the interface adaptor in your vehicle.

**!!!! IMPORTANT!!!!**

∴ It is strongly recommended that the adaptor is installed in an easy 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 removing the radio from dash board.

∴ USASPSEC distributes products through **authorized dealers** (DCS Inc, is an [authorized dealer](#)) so customers will receive proper services and advices from the dealers. USASPEC reserve the right to offer technical or warranty service only on products purchased through authorized USASPEC accounts.

∴ SAFETY NOTE: You should always give full attention to driving. Do NOT operate the feature or function of PA15-HON2 in such a way that distracts you while driving.

## **SECTION1. ABOUT INTERFACE PA15- HON2**

### **1-1 Introduction**

a) This interface connects an iPod (including "iPod" on iPhone) directly to your HONDA or ACURA audio system for optimal playback sound quality.

b) This interface enables iPod to co-exist with HONDA navigation system, CD changer, XM radio receiver and DVD system, and controls iPod via both car radio and steering wheel control.

c) PA15-HON2's on board software translates commands from your CD changer control or XM Band control into commands that the iPod understands.

i) You can either use the XM control or CD changer controls on the radio to work with iPod and iPhone. Use XM control if text display is desired. **Radio MUST HAVE "XM button" to use XM control.**

ii) **When in XM control mode, XM1 is for iPod and XM2 is for XM Radio.**

iii) ACURA navigation radios **do not support XM** control configuration.

PA15-HON3 should be used for ACURA navigation systems.

d) This interface charges iPod while it is playing and charging stops automatically half hour after iPod is paused.

e) Future iPod firmware update may affect the features and functions described in this manual.

### **1-2 Text Display of Song Information**

a) Artist name and song title can be displayed on radio by configuring PA15-HON2 to work with XM buttons on radio.

b) Only DISC number and track number are displayed on radio (Disc number = Playlist number) when use PA15-HON2 with radio's CD or AUX button.

### 1-3 Package Content

PA15-HON2 contains one each of PA15-HON2 interface adaptor, CAS-H2y, CAS-HXM and CB-PA 105.

### 1-4 Compatibility

Future iPod and iTunes software updates may affect the features and functions described in this owner's manual and USA SPEC web pages.

### 1-5 Applications

Make	Model	Year	Type of Radio	Control iPod with ...	Note
	MDX	2005 -09	Non-Nav	CDC or XM	(1)
			Nav	CDC	(2)
	RL	2006 - 08	Non-Nav	CDC or XM	(1)
			Nav	CDC	(2)
	TL	2004 - 08	Non-Nav	CDC or XM	(1)
			Nav	CDC	(2)
	TSX	2004 - 08	All radios	CDC or XM	(1)
		2009	All radios	CDC	(2)
	RDX	2007- 09	Non-Nav	CDC or XM	(1)
			Nav	CDC	(2)

Make	Year	Model	Type of Radio	Control iPod With...	Note
	Accord	2003 - 09	All radios	CDC or XM	(1)
	Civic	2006 - 09	All radios	CDC or XM	(1)
	CRV	2005 - 09	All radios	CDC or XM	(1)
	Element	2003 - 09	All radios	CDC or XM	(1) (3)
	Fit	2007 - 09	All radios	CDC	(1)
	Odyssey	2005 - 08	All radios	CDC or XM	(1)
	Pilot	2006 - 09	All radios	CDC or XM	(1)
	Ridgeline	2006 - 09	All radios	CDC or XM	(1)
	S2000	2004 - 07	All radios	CDC	(1)

CDC= CD Change controls = no text displayed on radios including Navigation radios.

XM= XM controls = text displayed on all radios (except Navigation).

Note (1) to control iPod with XM buttons, radio has to be XM radio (XM or SAT button).

Note (2) although this navigation radio is XM ready, PA15-HON2 can only be configured to CD changer control (no text display). Use model PA15-HON3 if XM control is desired.

**Note (3) 2003-09 Element LX is not compatible. Purchase the PA11-HON instead.**

**Alert, Alert, Alert!!! For text display all radios must have an XM or SAT button (except Navigation radios. No text display options available for Navigation radios.**

USA SPEC verified the published radio and vehicle application to the best of our ability. Due to uncontrollable factors

USA SPEC can not 100% guarantee every published applications. These factors include variables such 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-HON2 provides two ways to control your iPod through car radio, namely (Playlist Mode + Direct Mode) and (Folder Mode + Direct Mode.)

### **2-1 Direct Mode**

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

- Direct Mode is supported in either “XM control” or CDC (CD changer control) configuration.
- When PA15-HON2 is configured to XM control, XM1-8 is dedicated to Direct Mode.
- When PA15-HON2 is configured to CD changer control, DISC# 8 is dedicated to Direct Mode.
- In direct Mode, screen and click wheel keypad on iPod is unlocked and functional.

**WARNING!!! When set to direct mode there is no text display on radio regardless of the PA15-HON2 configuration (XM control or CD changer control.)**

*Application Tip:*

*Direct Mode makes it easy to play free Wi-Fi music stream such as Pandora.com@ from your iPhone or iTouch to the car stereo.*

### **2-2 Playlist Mode**

Operate and control the iPod like it is a CD changer. This mode allows you to access five Playlist on iPod from radio. iPod screen always display **"OK to disconnect"** or **"Attached to accessory"** and iPod's keypad is not functional or locked. See section 4-2 and 4-3 of this manual for more information.

- Playlist Mode is supported in either XM control configuration or CDC (CD changer control) configuration.
- Radio displays artist name and song title only when adaptor is configured to control iPod with XM buttons on radio.
- When PA15-HON2 is configured to XM control, CH01 to CH06 are Playlist and CH07 is All Songs on iPod.
- When PA15-HON2 is configured to use CDC (CD changer control), DISC #1 to DISC #6 are Playlist and DISC #7 is All Songs on iPod
- If your iPod has more than 6 Playlist, see Playlist Naming in Section 5 of this manual.

### **2-3 Folder Mode**

Access 3 Folders, namely **Playlist, Artist and Album** on iPod from 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-HON2 is configured to use XM control. **And, radio must have XM or SAT button or be XM ready.**
- XM1- 1 accesses *Playlist* Folder. Display on radio is: PL- *name of Playlist*
- XM1- 2 accesses *Artist* Folder. Display on radio is: AR- *name of artist*
- XM1- 3 accesses *Album* Folder. Display on radio is AL- *album name*

**CAUTION: Do NOT operate text based song search feature when it is distracting or distracting from giving full attention to driving or to the road. Safe driving is your responsibility.**

### **2-4 AUX Input Option**

In addition to iPod, PA15-HON2 also 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 to ON position.

## **SECTION 3 Mode Setting and Function Control**

Please carefully read the three different configuration of PA15-HON2 and decide which one to use and set the DIP switches accordingly before doing the installation.

**Note:** *Radios without XM button can only operate in CDC (CD changer control) configuration only. See 4-3 section below.*

### **3-1 Folder Mode + Direct Mode Configuration**

(Note: this configuration supports text display but is applicable only to radios with XM button or XM ready)

#### **3-1-1 Set DIP switches as follow:**

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

Note: DIP switch #1 is only relates to the 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 Radio stations at XM2. There will be a time delay when switch from XM1 to XM2. The period of delay varies by radio model
- Use radio Preset buttons to access iPod Folders, Direct Mode and RCA AUX as follow:

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

- Push DISP button on radio to view text information of music. Text display on radio is as follow: (Note: available on XM ready radios only.)

DISP Button	Prefix Text form Radio	Text from iPod	Note
1st Push ->	XM Channel NUMBER	<i>track number</i>	
2nd Push ->	XM CATEGORY	<i>folder type &amp; name</i>	
3rd Push ->	NAME	<i>artist name</i>	
4th Push ->	TITLE	<i>album name</i>	
5th Push ->	XM Channel NAME	<i>title of music</i>	

- Turn the TUNING knob to change track.
- Press-and-hold (about 2 seconds) preset button #2 to begin the RANDOM track play and press-and-hold preset #2 button a 2nd time to terminate the RANDOM play.
- Pressing preset #3 or preset #4 will retreat or advance 10 tracks respectively.
- Steering wheel control:

Several different **steering wheel XM control** designs are available from Honda and Acura. Some of the designs allow PA15-HON2 to track up and track down while others only allow Playlist or Folder change from the steering wheel controls.

In general, it is able to track up or down if the CH+ and CH- keys on steering wheel are double-function type. Double-function means the CH+ and CH- buttons can perform two different tasks depends on the time length of it is being pressed.

### 3-1-3 iPod Connecting and Playing

- When iPod is connected to the PA15-HON2 interface adaptor and XM1 on radio is pushed, iPod begin play at XM1-CH4.
- XM1- CH4 will continue play the track in *the* Folder which was played prior iPod is connected to PA15-HON2. As soon as the last track if *the* Folder is completed of playing, iPod will go to the first track of All Songs folder.
- When return to XM1-CH7 from a Folder (i.e. any CH among XM1-CH1 to

XM1-CH3), XM1-CH4 will play the track where was left but points to the All Songs folder regardless which Folder or Playlist was played at XM1-CH7 previously.

- When return to XM1-CH4 from Direct Mode, XM1-CH4 will continue the track and the folder being played at XM1-CH5 (Direct Mode). As soon as the last track of the folder is completed, iPod will go to All Songs folder.

### **3-2 Playlist Mode (with Text Display) + Direct Mode Configuration**

(Note: this configuration supports text display but is only applicable to radios with XM button or XM Ready Radios.)

#### **3-2-1 Set DIP switches as follow:**

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

Note: DIP switch #1 is only relates to the RCA AUX option setting and its independent from these DIP switch settings.

#### **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 Radio stations at XM2. There will be a time delay when switching from XM1 to XM2. The delay period varies by radio model.
- Use DISC+ or DISC- button on radio to access Playlist, Direct Mode and RCA AUX as follow: (Note: DISC- is Preset button #5 and DISC+ is Preset button #6)

<i>At...</i>	<i>Radio Plays</i>	<i>Remark</i>
XM1- 1	Playlist # 1	
XM1- 2	Playlist # 2	
XM1- 3	Playlist # 3	
XM1- 4	Playlist # 4	
XM1- 5	Playlist # 5	
XM1- 6	Playlist # 6	
XM1- 7	All Songs	
XM1- 8	Direct Mode	
XM1- 9	RCA AUX	IF DIP #1= ON

- Push DISP button on radio to view text information. Text display on radio is as follow: (Note: available on XM ready radios only)

DISP Button	Prefix Text form Radio	Text from iPod	Note
1st Push →	XM Channel NUMBER	<i>track number</i>	(1 )
2nd Push →	XM CATEGORY	<i>folder type &amp; name</i>	
3rd Push →	NAME	<i>artist name</i>	
4th Push →	TITLE	<i>album name</i>	
5th Push →	XM Channel NAME	<i>title of music</i>	

- Turn the TUNING knob to change track
- Press preset button #2 to begin RANDOM track play and press preset #2 button a 2nd time to terminate RANDOM play.
- Press preset #3 or preset #4 will retreat or advance 10 tracks respectively.
- Steering wheel control:

Several different steering wheel XM control designs are available from Honda and Acura. Some of the designs allow the PA15-HON2 to track up and track down while others only allow Playlist or Folder change from steering wheel controls.

In general, you are able to track up or down with the CH+ and CH- keys on steering wheel if they are double-function type. Double-function means the CH+ and CH-buttons can perform two different tasks depending on the length of time is it pressed.

### **3-2-3 iPod Connecting and Playing**

- When iPod is connected to interface adaptor and XM on radio is pressed, iPod will begin play at XM1-4 (some radio design displays XM1-CH 4).
- XM1- CH7 will continue play the track in *the* Folder which was played prior iPod is connected to PA15-HON2. As soon as the last track if *the* Folder is completed of playing, iPod will go to the first track of All Songs folder.
- When return to XM1-CH7 from a Playlist (i.e. any CH among XM1-CH1 to XM1-CH6), XM1-CH7 will play the track where was left but points to All Songs folder regardless which Folder or Playlist was played at XM1-CH7 previously.
- When return to XM1-CH7 from Direct Mode, XM1-CH7 will continue the track and the folder being played at XM1-CH8 (Direct Mode). As soon as the last track of the folder is completed, iPod will go to All Songs folder.
- If iPod has more than 6 Playlists, see Section 5 of this manual for Playlist Naming instructions.

### **3-3 Playlist Mode (without Text Display) + Direct Mode Configuration**

*Note: Radio without XM button must use this configuration of PA 15-HON2.*

### 3-3-1 Set DIP switches as follows:

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

Note: DIP switch #1 relates only to RCA AUX option setting and is independent from these DIP switch settings.

### 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 follows:

<i>At...</i>	<i>Radio Plays</i>	<i>Remark</i>
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	IF DIP #1= ON

- Track up and down from steering wheel remote control is supported.

### 3-3-3 iPod Connecting and Playing

- When iPod is connected to interface adaptor and CD button is pressed, iPod will play at DISC # 7.
- DISC #7 will continue play the track in *the* Folder which was played prior to connecting the iPod to the PA15-HON2. As soon as the last track in *the* Folder is completed, iPod will go to the first track of All Songs folder.
- When return to DISC #7 from a Playlist, (i.e. any DISC among DISC #1 to DISC#6), DISC 7 will play the track where was left but points to All Songs folder regardless which Folder or Playlist was played previously.
- When return to DISC #7 from Direct Mode, DISC #7 will continue the track and the folder being played at DISC #8 (Direct Mode). As soon as the last track of the folder is completed, iPod will go to All Songs folder.
- If iPod has more than 6 Playlists, see section 5 for the instruction of Playlist.

## SECTION 4 CABLE CONNECTIONS

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

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

Step 3- Remove radio out from dash.

Step 4- Plug the 14-pin male connector on USA SPEC CAS-H2y cable to radio. If a factory cable has the same identical 14-pin male connector already connected to radio, unplug the factory cable from radio first.

Step 5- If DIP switch #2 is at OFF Position and the vehicle has factory XM receiver, go to Step 12

Step 6- Plug the factory 14-pin male connector to USA SPEC 14-pin female connector on CAS-H2y cable.

Refer to Fig. (1) in this manual.

Step 7- Plug the round 8-pin DIN connector on USA SPEC CAS-H2y cable to adaptor labeled RADIO.

Step 8- If the vehicle has Rear-Seat-Entertainment system, wire Accessory power with a relay. [Refer to Fig. (2)]

Step 9- Connect your audio source to the RCA jacks on adaptor if AUX option is selected by DIP switch #1 = ON.

Step10- Plug CB-PA105 cable to adaptor where is labeled iPod.

Step 11- Reinstall radio back to dash only after a successful test is done.

*Step12- Plug factory 14-pin cable to the 14-pin female connector on USA SPEC CAS-HXM cable. (Refer to Fig.3)*

*Step13- Plug the 14-pin male connector on USA SPEC CAS-HXM cable to the 14-pin female connector on USA SPEC CAS-H2y.*

*Step14- Plug the orange color wire on CAS-HXM to PA 15-HON2 adaptor labeled XM.*

*Step 14- Go to Step 7, 8, 9, and 10.*

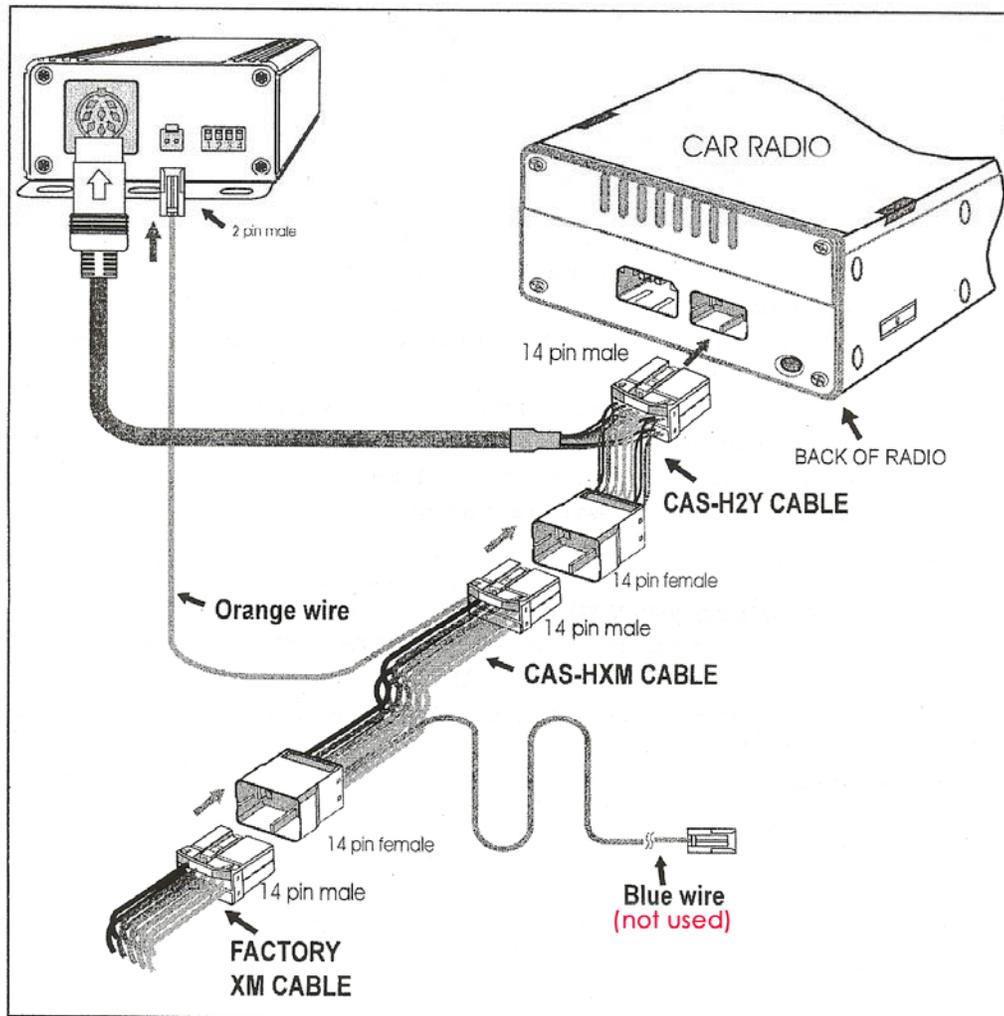


Fig.(3)

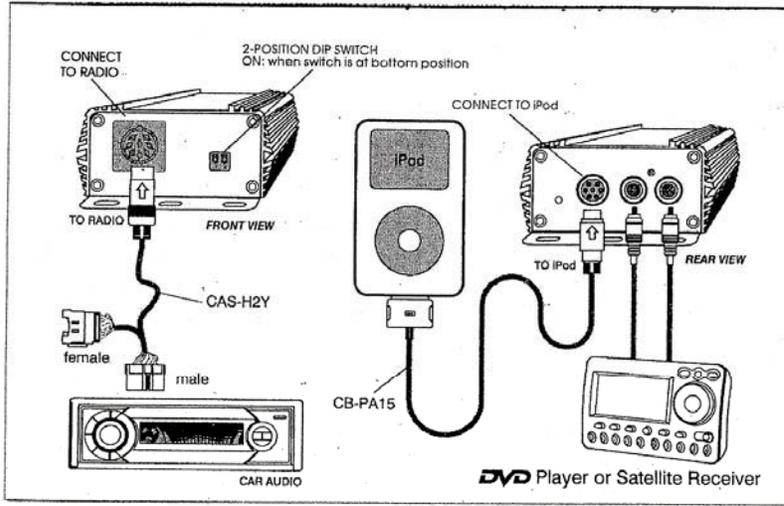


Fig. (1)

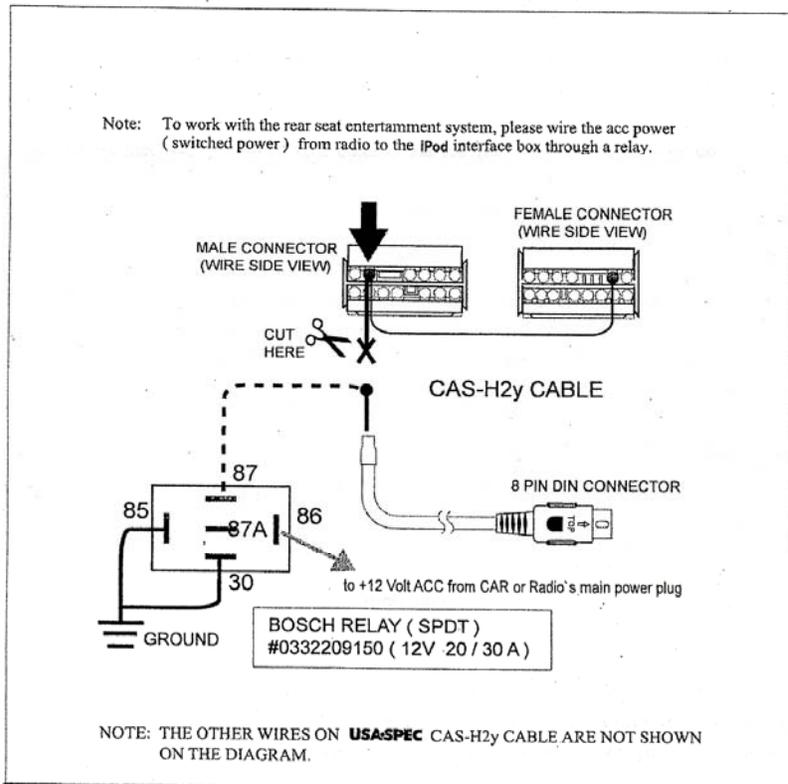


Fig. (2)

## SECTION 5 Playlist Naming

**5-1** When iPod is connected to your radio via PA15-HON2, the adaptor scans all available Playlists and Folders on iPod and looks for designated HONDA Playlists which are **created with iTunes** for direct access from the HONDA / ACURA radio. The designated HONDA Playlists should be named as follow if your iPod has more than 6 Playlists.

Playlist # 1: HONDA 1

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 iTunes, the PA15-HON2 adaptor automatically relates the first 6 available Playlists on iPod to Playlist # 1 to # 6 regardless of Playlists names.

**5-3** If less than 6 designated HONDA Playlists are created, the PA15-HON2 will automatically fill up the rest of Playlist numbers beginning with the first available Playlist on iPod. Example: if only 3 designated HONDA 1, HONDA3 and HONDA5 Playlists are created, the Playlist # 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 name of XM Satellite Radio Inc.  
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