



PA15-HON2

iPod to HONDA and ACURA Car Stereo Interface

Owner's Manual

(Preliminary Version)

2008.10.20

9AM to 5PM (Pacific Time) Tech Support Hot Lines

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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.
- ❖ USA PSEC distributes products through authorized dealers so customers will receive proper services and advices from the dealers. USA SPEC reserve the right to offer technical or warranty service only on products purchased through authorized USA SPEC 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.

SECTION 1. ABOUT INTERFACE PA15-HON2

1-1 Introduction

- a) This interface connects an iPod (includes the "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 control of 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 use XM control, XM1 is for iPod and XM2 is retained for XM broadcast reception.**
 - iii) ACURA navigation radios are not supported to use 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-PA105.

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
ACURA	MDX	05 - 08	Non-Nav	CDC or XM	(1)
			Nav	CDC	(2)
	RL	06 - 08	Non-Nav	CDC or XM	(1)
			Nav	CDC	(2)
	TL	04 - 08	Non-Nav	CDC or XM	(1)
			Nav	CDC	(2)
	TSX	04 - 08	All radios	CDC or XM	(1)
	RDX	07 - 09	Non-Nav	CDC or XM	(1)
			Nav	CDC	(2)

Make	Year	Model	Type of Radio	Control iPod with...	Note
HONDA	Accord	03 - 09	All radios	CDC or XM	(1)
	Civic	06 - 09	All radios	CDC or XM	(1)
	CRV	05 - 09	All radios	CDC or XM	(1)
	Element	03 - 09	All radios	CDC or XM	(1) (3)
	Fit	07 - 09	All radios	CDC	(1)
	Odyssey	05 - 08	All radios	CDC or XM	(1)
	Pilot'	06 - 08	All radios	CDC or XM	(1)
	Ridgeline	06 - 08	All radios	CDC or XM	(1)
	S2000	04 - 08	All radios	CDC	(1)

Note (1) To control iPod with XM buttons, radio has to be XM radio.

Note (2) Although this navigation radio is XM ready, PA15-HON2 can only be configured to CD changer control. Use model PA15-HON3 if XM control is desired.

Note (3) Element LX (03 – 09) should use model PA11-HON adaptor.

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

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 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. No text display on radio regardless of PA15-HON2 is configured to XM control or CD changer control.

✧ *Application Tip*

Direct Mode makes the playing of free wi-fi music stream such as Pandora.com® from your iPhone or iTouch to car stereo easy.

2-2 Playlsit Mode

Operate and control the iPod like it is a CD changer. This mode allows you to access five Playlists 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 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 use XM control, CH01 to CH06 are Playlists and CH07 is All Songs on iPod..
- When PA 15-HON2 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, 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 button or XM ready.
- XM1- 1 accesses *Playlist* Folder. Display on radio is: PL- *name of Playlsit*
- 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 *distractive 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 at 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-HON2 and decide which one to use and set the DIP switches accordingly before doing the installation.

Note: *Radios do not have XM button can be 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 radio it has XM button.)

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. 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:

Push....	Radio Displays	Radio Plays	Remark
Preset # 1	XM- 1	Pl ay l i st F ol der s	
Preset # 2	XM- 2	Ar t i st F ol der s	
Preset # 3	XM- 3	Al bum F ol der s	
Preset # 4	XM- 4	Al l Songs F ol der	
Preset # 5	XM- 5	i Pod Di rect	
Preset # 6	XM- 6	RCA ALX	I F D P #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 radio 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 & name</i>	
3rd Push →	NMAE	<i>artist name</i>	
4th Push →	TITLE	<i>album name</i>	
4th 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 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.
- Steering wheel control:

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

In general, it is able to do 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 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 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 applicable only to radio it has XM button.)

3-2-1 Set DIP switches 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. There will be a time delay when switch from XM1 to XM2. The period of delay varies by radio model.
- Use DISC+ or DISC- button on radio to access Playlists, 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 of music. Text display on radio is as follow: (Note: available on XM ready radio 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 & name</i>	
3rd Push →	NMAE	<i>artist name</i>	
4th Push →	TITLE	<i>album name</i>	
4th Push →	XM CHannel NAME	<i>title of music</i>	

- Turn the TUNING knob to change track.
- 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.
- Steering wheel control:
Several different steering wheel XM control designs are available form Honda and Acura. Some of the designs allow PA15-HON2 does track up and track down while others only allow Playlist or Folder change from steering wheel remote control.

In general, it is able to do 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.

3-2-3 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 a XM button must use this configuration of PA15-HON2.

3-3-1 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.

3-3-2 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:

<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 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 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 Plylists, see section 5 for the instruction of Playlist.

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 out 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 your setting of DIP switch #2 is at OFF position and also the vehicle has factory XM receiver, go to Step 12 instead of Step 6 !!!**
- 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 where is 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 PA15-HON2 adaptor where is labeled XM.*
- Step 14- Go to Step 7, 8, 9, and 10.*

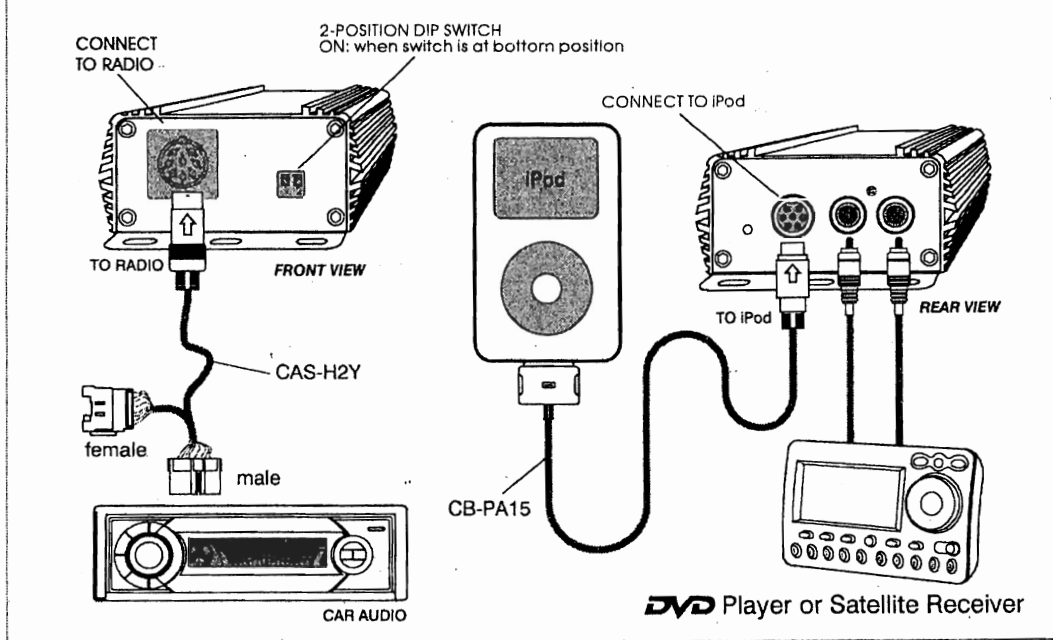


Fig. (1)

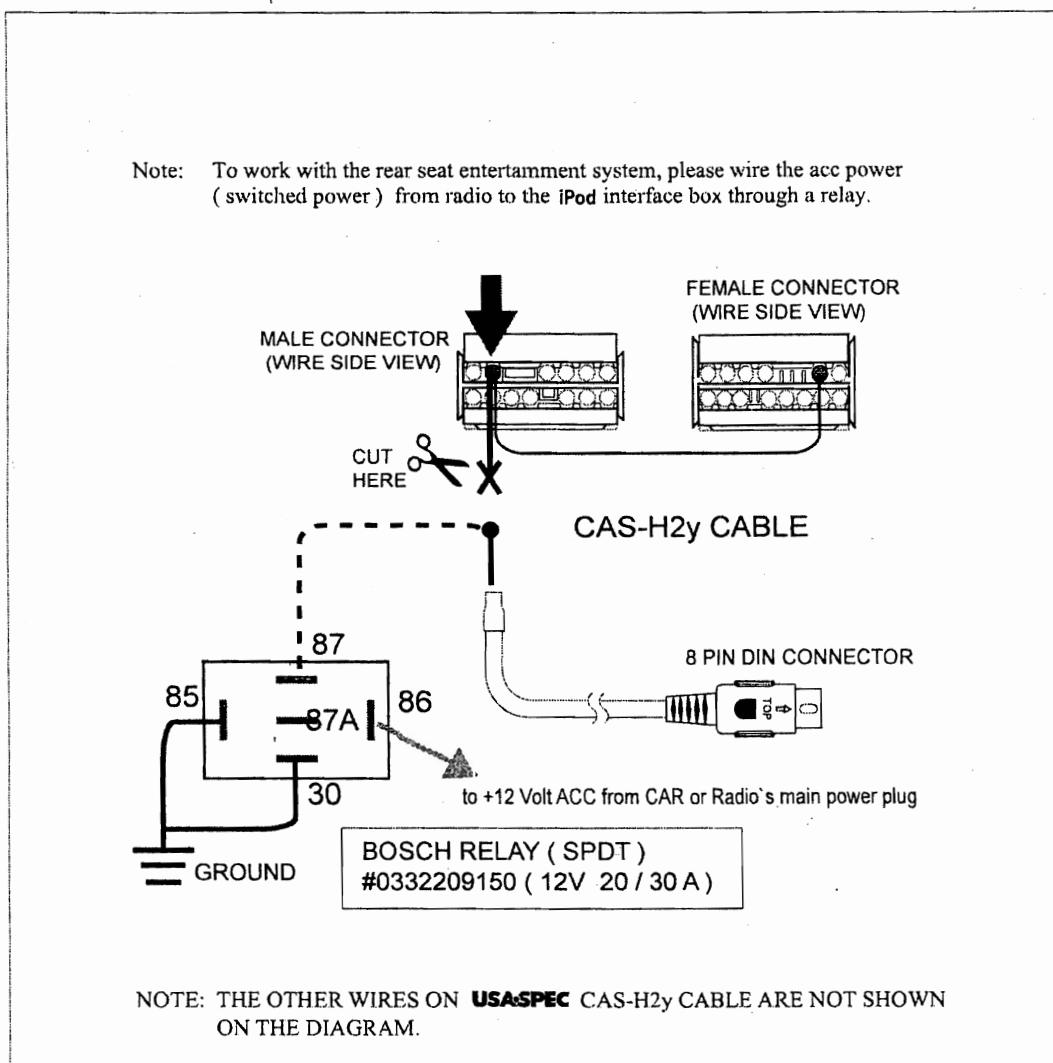


Fig. (2)

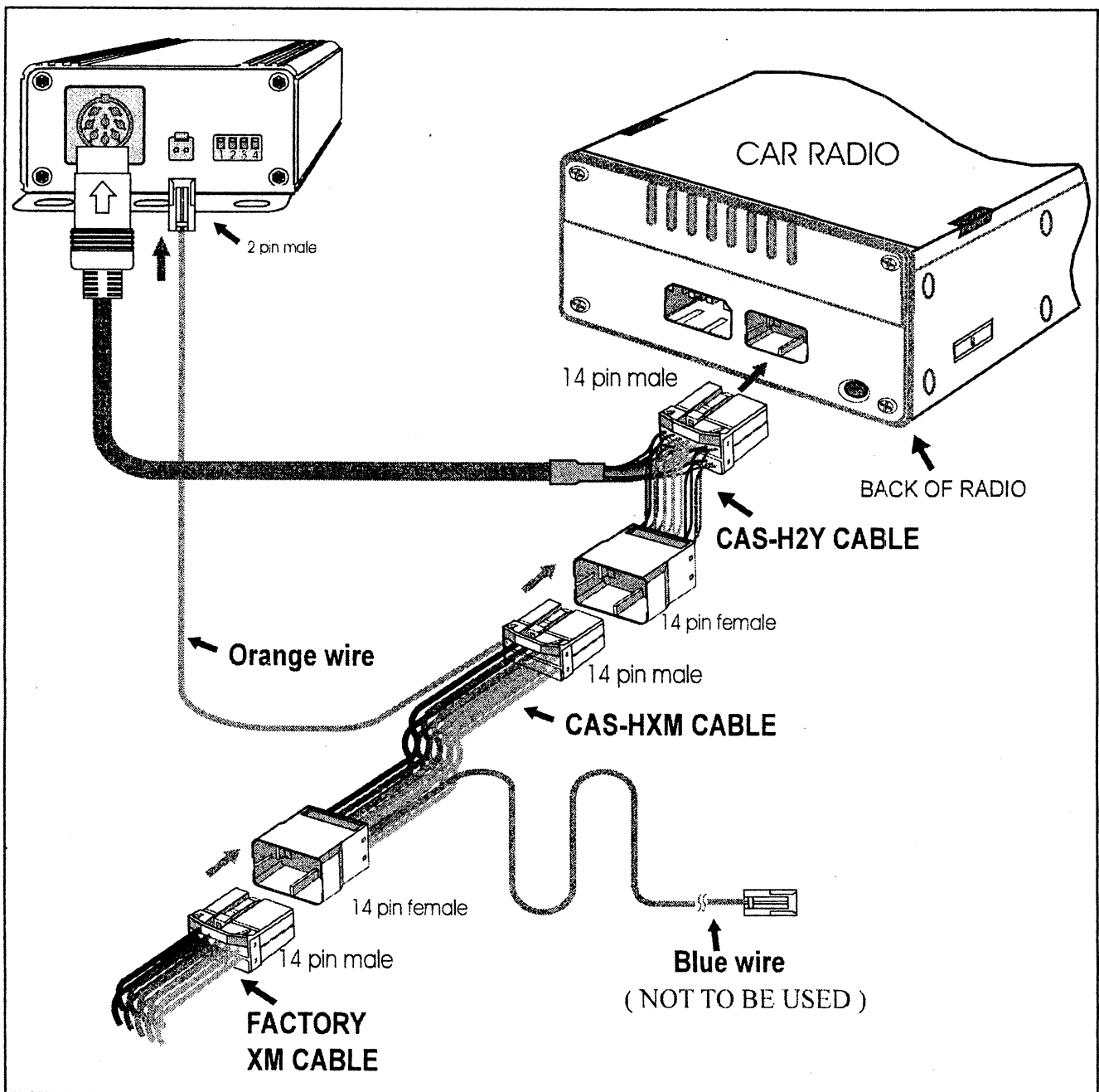


Fig.(3)

SECTION 5. Playlist Naming

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

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 iTunes, PA15-HON2 adaptor will automatically relates 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 Playlists are created, PA15-HON2 will automatically fill up the rest of Playlist numbers beginning with the first available Playlist on iPod. Example: if only 3 designated HODA1, HONDA3 and HONDA5 Playlists are created, the Playlist # will be:

Playlist # 1: HONDA1....

Playlsit # 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.

iPod, iTunes are the registered trade name of Apple Computer Inc.

Honda and Acura are registered trade mark of Honda Motor Corporation.

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 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.

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.

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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 INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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