

USA·SPEC

PA15-INFI

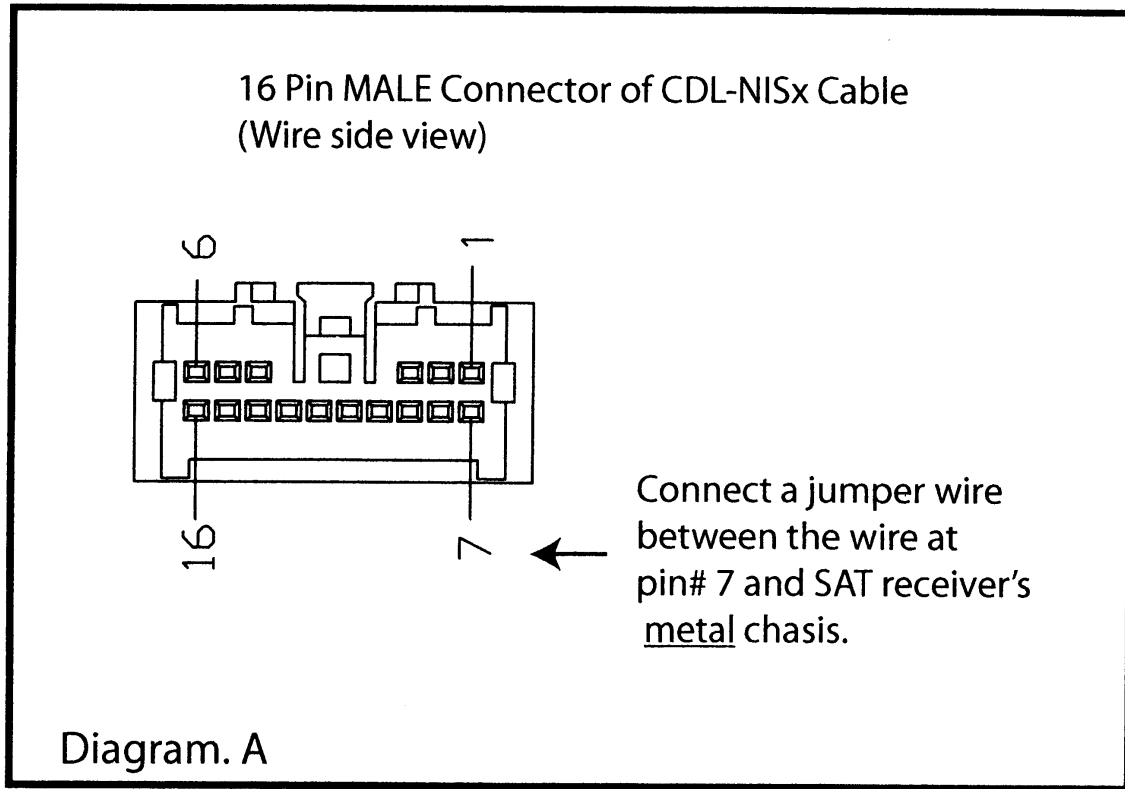
iPod to INFINITI / NISSAN car stereo interface



PRELIMINARY OWNER'S MANUAL

TECH. SUPPORT
(626)336-3836
9 AM ~ 4 PM PST
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If your iPod is not charging after everything's been connected then it means there is no power. In such cases you will have to add a ground jumper cable to the SAT receiver's metal chassis. Please use the ground wire provided in the package and follow the diagram below.



QUICK NOTES

PA15-INFI is applicable to cars that have SAT receivers. Otherwise, PA15-NIS model should be used instead.

Troubleshooting Hint

Some of the NISSAN and INFINITI radios “floated” the ground pin on the radio connector where PA15-NIS is connected to. Therefore, a GROUND jump wire is required to complete the CONSTANT POWER circuitry. Please use the ground wire enclosed with the package and reference the **diagram on Page 1 of this manula** for details.

Without the GROUND jumper, iPod won't be charging and also no “NISSAN and OK to Disconnect” messages on iPod's display screen.

- Radio must go through the **Preset Set Up Procedure** in Section 3-2 in order for the Folder Mode to work properly.
- PA15-NIS charges the battery of all iPod and iPhone in the market today (Oct, 2009). The charging for some of the iPod or iPhone stops for about 8 seconds after it is connected to PA15-INFI. This is normal procedure while iPod or iPhone is synchronizing with the interface adaptor and the radio.
- ***Model PA15-NIS's functionality is 100% equivalent to PA15-INFI. However PA15-NIS makes connection at the radio thus you will need to remove the radio from the dash.***

For technical or warranty services, please email usa_spec@msn.com or call 626-336-3836 (Pacific time 9am to 5pm).

info@usaspec.com does not respond to technical support and warranty service requests.

Design of this product is subject to change without notice.

Thank you for purchasing USA SPEC product. This manual describes the functions and operation of PA15-INFI iPod interface to Nissan and Infiniti 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 SPEC distributes products through authorized dealers so customers will receive proper services and advice from the dealers. USA SPEC reserves the right to offer technical or warranty services only on products purchased through authorized USA SPEC dealers.
- ❖ SAFETY NOTE: You should always give full attention to driving. DO NOT operate the feature or function of PA15-NIS in such a way that might distract you while you are driving.

SECTION 1. ABOUT PA15-INFI INTERFACE

1-1 Introduction

- a) This interface connects an iPod (includes iPhone and iTouch) directly to your NISSAN or INFINITI audio system for optimal playback sound quality.
- b) This interface enables iPod to coexist with INFINITI navigation system, CD changer, and SAT radio receiver, and controls iPod via both car radio and steering wheel control.
- c) PA15-INFI's on board software translates commands from radio's CD changer control or SAT Band control into commands that the iPod understands.
 - i) You can either use the SAT control or CD changer control of radio to work with iPod and iPhone. Use SAT control on SAT ready radio if text display is desired.
 - ii) **When using SAT control, your SAT receiver will be retained.**
 - iii) **When using CD changer control mode, your slave CD changer will be retained.**
- d) This interface charges iPod while it is playing and charging stops automatically half an hour after iPod is paused.

1-2 Text Display of Song Information

Artist name and song title can be displayed on radio by configuring PA15-INFI to work with SAT or RADIO button on radio.

1-3 Package Content

PA15-INFI package contains one PA15-INFI interface adaptor and one of each of the following cables: CDL-NISx, Ground wire, 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	Text Display	Radio Button to Access iPod	<u>FOLDER</u> <u>Mode</u> Function Control Key Type	Notes
NISSAN	Altima	05-06	Bose	Yes	SAT	A	
		07-09	Nav	Yes	CD6/MP3	MP3	(1)
			Non-Nav	Yes	RADIO	A	
	Armada	05-07	Bose	Yes	SAT	A	
		08-09	Non-Nav only	Yes	SAT	A or C	(3)
	Frontier	05-09	Bose	Yes	SAT	A	
		04-06	Bose	Yes	SAT	A	
	Maxima	07-08	Nav	Yes	SAT	B	
		07-08	Non-Nav	Yes	SAT	B	
			Non-Nav only	Yes	SAT	A or C	(3)
		2009	Non-Nav only	Yes	SAT	A or C	(3)
	Murano	04-07	All radios	Yes	SAT	A	
		2009	Non-Nav only	Yes	SAT	A or C	(3)
	Pathfinder	05-07	Bose	Yes	SAT	A	
		08-09	Non-Nav only	Yes	SAT	A or C	(3)
	Quest	08-09	No-Nav Bose	Yes	SAT	A	
	Rogue	08-09	All Radios	Yes	RADIO	A	
	Sentra	07-09	Bose	Yes	SAT	A	
	Titan	05-07	Bose	Yes	SAT	A	
		08-09	Non-Nav only	Yes	SAT	A or C	(3)
	Versa	07-09	Bose	Yes	SAT	A	
	Xterra	05-09	Bose	Yes	SAT	n/a	
	350 Z	04-08	Nav or SAT Radios	Yes	SAT	A	
	370 Z	2009	Non-Nav only	Yes	SAT	A	

Make	Model	Year	Type of Radio	Text Display	Radio Button to Access iPod	<u>FOLDER</u> <u>Mode</u> Function Control Keys Type	Notes
INFINITI	G35 Sedan	03 ½-04	SAT Radios	Yes	SAT	A	
		05-06	SAT Radios	Yes	SAT	A	
	G35/37 Sedan	07-09	Nav	n/a	n/a		(2)
			Non-Nav	Yes	SAT	A	
	G35 Coupe	03-04	SAT Radios	Yes	SAT	A	
		05-07	SAT Radios	Yes	SAT	A	
	G35/37 Coupe	08-09	Nav	n/a	n/a		(2)
			Non-Nav	Yes	SAT	C	
	EX35	08-09	Nav	n/a	n/a		(2)
			Non-Nav	Yes	SAT	C	
	M35	03-04	SAT Radios	Yes	SAT	A	
	M35/45	06-07	Nav	Yes	SAT	C	
			Non-Nav	Yes	SAT	C	
		08-09	Nav	n/a	n/a		(2)
			Non-Nav	Yes	SAT	C	
	FX35/50	03-09	SAT Radios	Yes	SAT	B	
		07-08	Nav	Yes	SAT	B	
			Non-Nav	Yes	SAT	B	
	FX35/50	2009	Nav	N/A	N/A		(2)
			Non-Nav	Yes	SAT	B	
	QX56	04-07	Nav	Yes	SAT	A	
			Non-Nav Bose	Yes	SAT	A	
	QX56	08-09	Nav	n/a	n/a		(2)
			Non-Nav	Yes	SAT	B	

Note (1) Altima '07 - '09 navigation radio : connection is made at external CD changer. CD changer can be retained.

Note (2) iPod interface solution is not available from USA SPEC

Note (3) Use “A Type” if radio has DOT MATRIX style display, and use “B Type” if radio has LCD Screen style display.

USA SPEC verifies 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. Direct Mode, Folder Mode and AUX Option

PA15-NIS provides two ways to control your iPod, namely, Direct Mode or Folder Mode.

2-1 Direct Mode

Search and select music on iPod just as you would in portable use. Also use the track up/down button on the radio and the steering wheel to control.

- Direct Mode is supported in both SAT control and CD changer control configuration.
- When PA15-INFI is configured to SAT control, SAT Preset #5 is dedicated to Direct Mode.
- When PA15-INFI is configured to CD changer control, depending on DIP switch #1's position, either DISC#5 or #6 is dedicated to Direct Mode.
- In direct Mode, screen and click wheel keypad on iPod are unlocked and fully functional. No text display on radio while in Direct Mode.

Application Tip

Direct Mode allows for the playing of wi-fi music stream such as Pandora.com® and SIRIUS/XM Online from iPhone or iTouch through the car stereo.

2-2 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. The Folders are associated to SAT presets as followed:

- SAT Preset # 1 accesses *Playlist* Folder. Display on radio is: PL- *name of Playlist*
- SAT Preset #2 accesses *Artist* Folder. Display on radio is: AR- *name of artist*
- SAT Preset # 3 accesses *Album* Folder. Display on radio is AL- *album name*
- SAT Preset #4 access *All Songs* Folder. Display on radio is ALL Songs.
- SAT Preset #5 access *Genres* Folder. Display on radio is Ge- *Genres 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 or to the road. Safe driving is your responsibility.*

2-3 AUX Input Option

In addition to iPod, PA15-INFI 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. Folder Mode + Direct Mode Configuration

Before starting the installation, please carefully read the three different configuration of PA15-INFI and decide which one to use and set the DIP switches accordingly.

Folder Mode + Direct Mode Configuration

Note: Folder Mode is applicable only to radios that have a SAT or a RADIO button.

3-1 Set DIP switches as follow:

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

Radio Preset Button Type	DIP #2	DIP #3	DIP #4
"Preset A-B-C"	OFF	ON	OFF
"SAT1" and "SAT2"	OFF	OFF	ON

3-2 Folder Mode Set Up on the Radio

IMPORTANT!!

This is a one-time SET UP procedure and it must be performed at the time of installation to enable FOLDER Mode operation.

The SET UP procedure is as follow:

Step 1. Complete the cable connections. See Section 4 for details.

Step 2. Set the DIP switches on PA15-INFI adaptor according to the chart in Section 3-2.

Step 3. Play the **1st track** of any Artist folder on your iPod or iPhone.

- Step 4. Pause the iPod or iPhone after the 1st track is played for few seconds.
- Step 5. Connect iPod or iPhone to interface adaptor.
- Step 6. Turn car key to ACC power ON and turn the radio ON.
- Step 7. Switch radio to XM (or Sirius) band by pushing the RADIO or SAT button on the radio.
- Step 8. iPod music will play through the radio.
- Step 9. If radio has a Preset A-B-C button, select "A" preset group by pushing the "preset A-B-C" button.
- If radio has SAT1 and SAT2 buttons then push the SAT1 button.
- Step 8. When radio displays CH 1, push-n-hold the preset button #1 for about 3 seconds or until a beep is heard.
- Step 9. Push the Track Up button to CH2. (Note: find out which button on your radio is for Track Up from Section 1-5 Application table and Section 3-3 table).
- Step 10. When radio displays CH2, push-n-hold the preset button #2 for about 3 seconds or until a beep is heard.
- Step 11. Repeat Step 9 and Step 10 to finish the set up of CH3 to CH6 and Preset #3 to preset #6.

3-3 Functions and Radio Buttons

Note A: The SET UP procedure in Section 3-2 must be done before operating iPod with PA15-INFI.

Note B: The function of buttons on INFINITI and NISSAN radios varies among vehicles. Please find out the function control keys type of your radio from Section 1-5 Application chart and then operate the functions defined for your radio as follow:

<u>FOLDER MODE</u> Function Control Keys Type	Radio Button or Knob	Function	Explan- ation
A	Preset #1 - #6	FOLDER Selection	(a)
	SEEK	sub-FOLDER Up /Dn	(b)
	TUNE Button	Track Up / Dn	(c)
	Push & Hold TUNE	Fast Forward and Rewind	(d)
	DISP (or, AUDIO)	Display Text Information	(e)
	1st Push & Hold Preset #4 2nd Push & Hold Preset #4	Random play ON Random play OFF	
	SCAN	10 Track Advance	
B	Preset #1 - #6	FOLDER Selection	(a)
	SEEK	Track Up / Dn	(c)
	TUNE Button	sub-FOLDER Up / Dn	(b)
	Push & Hold TUNE	Fast Forward and Rewind	(d)
	DISP (or, AUDIO)	Display Text Information	(e)
	1st Push & Hold Preset #4 2nd Push & Hold Preset #4	Random play ON Random play OFF	
	SCAN	10 Track Advance	

Continued on next page...

C	Preset #1 - #6	FOLDER Selection	(a)
	SEEK	sub-FOLDER Up / Dn	(b)
	TUNE Knob	Track Up / Dn	(c)
	TUNE Knob Fast 90° Turn	Fast Forward and Rewind	(d)
	DISP (or, AUDIO)	Display Text Information	(e)
	1st Push & Hold Preset #4 2nd Push & Hold Preset #4	Random play ON Random play OFF	
	Push-n-Hold SEEK	10 Track Advance	
MP3	DISC #1 - # 6	FOLDER Selection	(a)
	SEEK	Track Up / Dn	(c)
	TUNE Knob	sub-FOLDER Up / DN	(b)
	FOLDER	Browse sub-FOLDER List	
	TRACK	Browse Track List	

Explanations:

- (a) (1) Push **SAT1** or “**Preset A-B-C**” to select the preset A group.
 (2) Push radio Preset buttons to access iPod Folders, Direct Mode and RCA AUX as follow:

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

- (b) (1) Push 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).
 (2) When in Songs Folder, push the button to change track by alphabetic order. (this feature applies to iPod and iPhone only. For iPods, it is a regular track and up down function only.)
- (c) Due to radio display's digit number limitation, when track number is greater than 999, track number's first 2 digits and last 2 digits are displayed alternatively.
- (d) Push the button to fast rewind or fast forward the playing track for approximately 40 seconds respectively.
- (e) Push DISP button on radio to view music's text information. Text display on radio is as follow: (Note: available on SAT ready radio only.)

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

3-4 Connecting and Playing iPod

- When iPod is connected to interface adaptor and the Preset A button or SAT1 button on radio is pushed, iPod will begin playing Songs at preset #4.
- preset #4 will continue to play the track in ***the*** Folder which was played prior to iPod is connected to PA15-NIS. When 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) from Direct Mode (preset #5), 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.

3-5 Switching Between SAT receiver and iPod

When there is a factory installed SAT receiver, switching between iPod and SAT can be accomplished as followed:

A. from iPod to SAT

Change radio to AM or FAM band first and SAT receiver will be connected when radio is in SAT band again.

B. from SAT to iPod

Change the radio to AM or FM band first and iPod will be connected when radio is in SAT band again.

SECTION 4. CABLE CONNECTION

Step 1- Set DIP switches according to Section 3-1 of this manual.

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

Step 3- Locate the SAT receiver in the car. Reference Table (1) on Page 11 for the approximate location of the SAT receiver.

Step 4- Reference Fig.(1) to complete the cable connection with SAT receiver.

Step 5- Plug the 18-pin connector on USA SPEC CAS-NISx cable to interface adaptor where it is labeled RADIO.

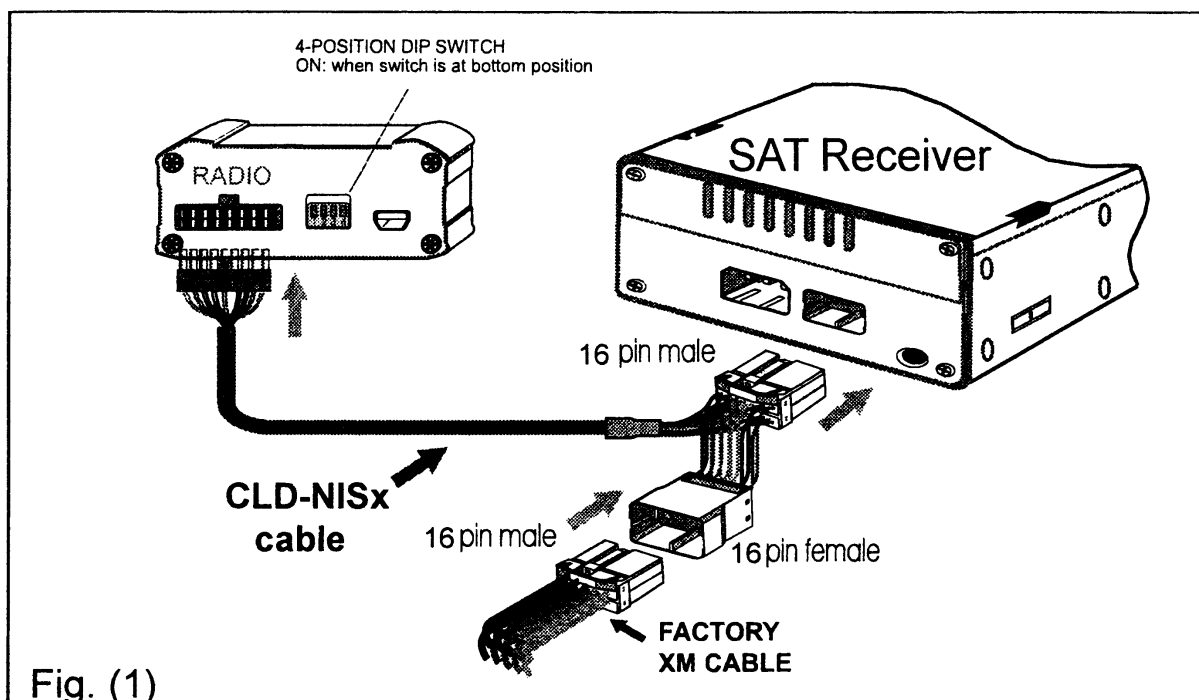
Step 6- Connect your audio source to the RCA jacks on the adaptor if AUX option is selected by setting DIP switch #1 = ON.

Step 7- Plug CB-PA105 cable to the adaptor where it is labeled iPod.

Step 8- Run a test.

Step 9- Connection is completed.

Note: If iPod is not charging and it is not displaying "Nissan OK to Disconnect" when it is connected to PA15-INFI then please reference Troubleshooting Tip on Pg. 2 of this manual.



Model	SAT Receiver Location in Car
Altima	Under Rear Deck
Armada	Above Gas Paddle
Frontier	Driver Side Kick panel
Maxima	Under Rear Deck
Murano	Left-Front of Spare Tire
Pathfinder	Driver Side Kick panel
Quest	Behind Glove Box
Rouge	Behind Left Rear Quarter Panel
Sentra	Left Trunk
Titan	Above Gas Paddle
Versa	Left Trunk
Xterra	Driver Side Kick panel
350 Z	Left-Front of Spare Tire
370 Z	Left-Front of Spare Tire
G35 / G37 Sedan	Under Rear Deck
G35 / G37 Coupe	Under Left Rear Floor
EX35	Under Right Rear Floor
M35 / M45	Under Rear Deck
FX 35/45/50	Under Right Rear Floor
QX56	Above Gas Paddle

Table (1): SAT Receiver Location

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