USASPEC

PA15-NIS

iPod to INFINITI / NISSAN car stereo interface

PRELIMINARY OWNER'S MANUAL

TECH SUPPORT
626 336 3836
9 AM - 4 PM
MON - FRI
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 radio's metal chasis. You'll only need to follow one of the diagrams below depending on which cable you're using.

### Diagram A

**10 Pin Connector**
(Wire side view)

- A1
- A2
- A3
- A4
- A5
- A6
- A7
- A8
- A9
- A10

Connect a jumper wire between the wire at pin# A10 and radio's metal chasis.

### Diagram B

**20 Pin Connector**
(wire side view)

- A19
- A20
- A11
- A01
- A10
- A02

Connect a jumper wire between the wire at pin# A20 and radio's metal chasis.
QUICK NOTES

- If radio is SAT ready, or if it has a RADIO or a SAT button, then please read Section 3-1 to Section 3-3 first.
- If radio does not have a SAT or RADIO button, then please read Section 3-4 first.
- Wire connection information is in Section 4.

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 would be required to complete the CONSTANT POWER circuitry. Please reference the diagrams on the opposing page 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.

- SAT radio must go through the Preset Set Up Procedure in Section 3-1-2 to make Folder Mode 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 few seconds after it is connected to PA15-NIS. This is normal procedure while iPod or iPhone is synchronizing with the interface adaptor and radio.

Model PA15-INFI’s functionality is 100% equivalent to PA15-NIS. But, PA15-INFI makes connection to SAT receiver in the trunk which eliminates the work involved in taking the radio out 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 is for informational inquiries only. It 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-NIS 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 reserve 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 INTERFACE PA15-NIS

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 NISSAN navigation system, CD changer, and SAT radio receiver, and controls iPod via both car radio and steering wheel control.
c) PA15-NIS’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

a) Artist name and song title can be displayed on radio by configuring PA15-NIS to work with SAT or RADIO button on radio.
b) Only DISC number and track number are displayed on radio (Disc number = Playlist number) when using PA15-NIS with radio’s CD button.

1-3 Package Content

PA15-NIS contains one each of the following: PA15-NIS interface adaptor, CAS-NIS10, CAS-NIS20, CAS-NISext, 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 web pages.
## 1-5 Applications

<table>
<thead>
<tr>
<th>Make</th>
<th>Model</th>
<th>Year</th>
<th>Type of Radio</th>
<th>Text Display</th>
<th>Radio Button to Access iPod</th>
<th>FOLDER Mode Function Control Key Type</th>
<th>NOTE</th>
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<td>Type of Radio</td>
<td>Text Display</td>
<td>Radio Button to Access iPod</td>
<td>FOLDER Mode Function Control Keys Type</td>
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<td>SAT</td>
<td>B</td>
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</table>

Note (1) If there is an external or remote CD changer, disconnect it from radio.
Note (2) Altima '07 - '09 navigation radio should use model PA15-INFI interface and connection is made at external CD changer. CD changer can be retained.
Note (3) iPod interface solution is not available from USA SPEC
Note (4) Use “A Type” if radio has DOT MATRIX style display, and use “B Type” if radio has LCD Screen style display.
SECTION 2. Playlist Mode, Direct Mode, Folder Mode and AUX Option

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

2-1 Direct Mode
Search and select music on iPod just as you would in portable use. Also use the track up/down and fast forward/reverse on the radio and the steering wheel to control.

- Direct Mode is supported in both SAT control and CD changer control configuration.
- When PA15-NIS is configured to SAT control, SAT Preset #5 is dedicated to Direct Mode.
- When PA15-NIS is configured to CD changer control, 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 accesses All Songs Folder. Display on radio is ALL Songs.
- SAT Preset #5 accesses Genres Folder. Display on radio is Ge- Genres name.

Note: Folder mode is applicable only to radio that has a SAT or a RADIO button.

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 Playlist Mode
Operate and control the iPod like it is a CD changer. This mode allows you to access five
Playlists on iPod from the radio. iPod screen always display “OK to disconnect” or “Attached
to accessory” and iPod’s keypad is locked and not functional. See section 3-2 and 3-3 for
more information.

- Playlist Mode is supported in CD changer control configuration. DISCS #1 to DISC #4
  are Playlists and DISC #5 is All Songs on iPod.
- Music’s text information display is not supported in Playlist Mode.
- If your iPod has more than 4 Playlists then please see Section 5: Playlist Naming.

2-4 AUX Input Option
In addition to iPod, PA15-NIS 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

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

3-1 Folder Mode + Direct Mode Configuration
Note: Folder Mode is applicable only to radios that have a SAT or a RADIO button.

3-1-1 Set DIP switches as follow:

<table>
<thead>
<tr>
<th>Radio Preset Button Type</th>
<th>DIP #2</th>
<th>DIP #3</th>
<th>DIP #4</th>
</tr>
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<tbody>
<tr>
<td>&quot;Preset A-B-C&quot;</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>&quot;SAT1&quot; and &quot;SAT2&quot;</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

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

3-1-2 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-NIS 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 3-1-3 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.

3-1-3 Functions and Radio Buttons

Note A: The SET UP procedure in Section 3-1-2 must be done before operating iPod with PA15-NIS.

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:

<table>
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<tr>
<th>FOLDER MODE Function Control Keys Type</th>
<th>Radio Button or Knob</th>
<th>Function</th>
<th>Explanation</th>
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<td>Preset #1 - #6</td>
<td>FOLDER Selection</td>
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<td>sub-FOLDER Up /Dn</td>
<td>(b)</td>
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<td></td>
<td>TUNE Button</td>
<td>Track Up / Dn</td>
<td>(c)</td>
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<td></td>
<td>Push &amp; Hold TUNE</td>
<td>Fast Forward and Rewind</td>
<td>(d)</td>
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<td></td>
<td>DISP (or, AUDIO)</td>
<td>Display Text Information</td>
<td>(e)</td>
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<td></td>
<td>SCAN</td>
<td>10 Track Advance or Retreat</td>
<td>(f)</td>
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<tr>
<td>B</td>
<td>Preset #1 - #6</td>
<td>FOLDER Selection</td>
<td>(a)</td>
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<td></td>
<td>SEEK</td>
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<td>SCAN</td>
<td>10 Track Advance or Retreat</td>
<td>(f)</td>
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Continued on next page...
### Preset #1 - #6 FOLDER Selection
- **SEEK** sub-FOLDER Up / Dn
- **TUNE Knob** Track Up / Dn
- **TUNE Knob Fast 90° Turn** Fast Forward and Rewind
- **DIPS (or, AUDIO)** Display Text Information
- **Push-n-Hold SEEK** 10 Track Advance or Retreat

### DISC #1 - #6 FOLDER Selection
- **SEEK** Track Up / Dn
- **TUNE Knob** sub-FOLDER Up / Dn
- **FOLDER** Browse sub-FOLDER List
- **TRACK** Browse Track List

### Explanations:

**a)** (1) Push "preset A-B-C" button or SAT1 to select the preset A group.

(2) Push radio Preset buttons to access iPod Folders, Direct Mode and RCA AUX as follow:

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<th>Radio Plays</th>
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<td>Preset # 2</td>
<td>Artist Folders</td>
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</tr>
<tr>
<td>Preset # 3</td>
<td>Album Folders</td>
<td></td>
</tr>
<tr>
<td>Preset # 4</td>
<td>All Songs Folder</td>
<td></td>
</tr>
<tr>
<td>Preset # 5</td>
<td>iPod Direct</td>
<td></td>
</tr>
<tr>
<td>Preset # 6</td>
<td>RCA AUX</td>
<td>IF DIP #1= ON</td>
</tr>
</tbody>
</table>

**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 iTouch 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.)

<table>
<thead>
<tr>
<th>DISP Button</th>
<th>Prefix Text form Radio</th>
<th>Text from iPod</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Push →</td>
<td>SAT CHannel NUMBER</td>
<td>track number</td>
<td>(a)</td>
</tr>
<tr>
<td>2nd Push →</td>
<td>SAT CATEGORY</td>
<td>folder type &amp; name</td>
<td></td>
</tr>
<tr>
<td>3rd Push →</td>
<td>NMAE</td>
<td>artist name</td>
<td></td>
</tr>
<tr>
<td>4th Push →</td>
<td>TITLE</td>
<td>album name</td>
<td></td>
</tr>
<tr>
<td>4th Push →</td>
<td>SAT CHannel NAME</td>
<td>title of music</td>
<td></td>
</tr>
</tbody>
</table>
3-1-4 Connecting and Playing iPod
   o 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.
   o 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.
   o 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.

3-1-5 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.

3-2 Playlist Mode + Direct Mode Configuration

   Note: Radios without a SAT button must use this configuration of PA15-NIS.

3-2-1 Set DIP switches as follow:

```
<table>
<thead>
<tr>
<th>DIP # 2</th>
<th>DIP # 3</th>
<th>DIP # 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>
```

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

3-2-2 Radio Buttons and Functions

   • Press CD button on radio to access iPod.
   • Use DISC Up or DISC Dn button on radio to access Playlist, Direct Mode and RCA AUX as follow:
### 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.

#### 3-2-3 Connecting and Playing iPod
- When iPod is connected to interface adaptor and CD button is pressed, iPod will play at DISC # 5.
- DISC #5 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 Folder is played, iPod will go to the first track of All Songs folder.
- When returning to DISC #4 from Direct Mode, DISC #4 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 5 Playlists the please see Section 5: Playlist Naming.

#### 3-2-4 Switching Between iPod and Slave-CD changer
PA15-NIS retains the slave or external CD changer and you can switch between the two sources as followed:

**A. from iPod to SAT**
Change radio to AM, FM, or SAT band first and CD changer will be connected when CD button is pressed again.

**B. from SAT to iPod**
Change the radio to AM, FM, or SAT band first and iPod will be connected when CD button is pressed again.

#### SECTION 4. CABLE CONNECTION

Step 1- Decide which MODE to use and set DIP switches according to radio type and information in Section 1-5 and Section 3-1-1 of this manual.

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

Step 3- Remove radio from dash.

Step 4- PA15-NIS comes with two radio connection cables, one is 10pin (CAS-NIS10)
and the other one is 20pin (CAS-NIS20). Use the one that fits the connector on your radio.

*Note:* Not every car has a factory 12pin cable connected to radio. It car option dependent. Leave the 12-pin female connector on USA SPEC cable “un-connected” or “open” if the radio is not connected with a 12-pin factory cable.

Step 5- Reference Fig.(1) or Fig (2) to complete the cable connection with radio.
Step 6- Plug the 18-pin connector on USA SPEC CAS-NISext cable to interface adaptor where is labeled RADIO.
Step 7- Connect your audio source to the RCA jacks on adaptor if AUX option is selected by DIP switch #1 = ON.
Step 8- Plug CB-PA105 cable to adaptor where is labeled iPod.
Step 9- Reinstall radio back to dash only after a successful test run is done.
SECTION 5. Playlist Naming

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

Playlist # 1: NISSAN1
Playlist # 2: NISSAN2
Playlist # 3: NISSAN3
Playlist # 4: NISSAN4
Playlist # 5: NISSAN5
Playlist # 6: NISSAN6

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

You may append text to the designated NISSAN Playlist names. Example: NISSAN1-jazz, NISSAN3_Favorite3, NISSAN5podcast, etc.
**5-2** If no designated NISSAN Playlists are created with iTune, PA15-NIS adaptor will automatically relate the first 6 available Playlists on iPod to Playlist # 1 to # 6 regardless of how the Playlists are named.

**5-3** If less than 6 designated NISSAN Playlists are created, PA15-NIS will automatically fill up the rest of Playlist numbers, beginning with the first available Playlist on iPod. Example: if only 3 designated Playlists (NISSAN1, NISSAN3, and NISSAN5) are created, then the Playlist # on radio will be:

- **Playlist # 1**: NISSAN1....
- **Playlist # 2**: (the 1st available Playlist on iPod)
- **Playlist # 3**: NISSAN3...
- **Playlist # 4**: (the 2nd available Playlist on iPod)
- **Playlist # 5**: NISSAN5....
- **Playlist # 6**: (the 3rd available Playlist on iPod)

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