USASPEC PA12-TOY TOYOTA/SCION iPod INTERFACE OWNER'S MANUAL

KEY FEATURES

The PA12-TOY interface connects the iPod or iPod mini directly to Toyota audio system. Its on-board software translates commands from either your Toyota CD Changer controls into commands that the iPod understands. This interface enables the iPod to take place of a Toyota external CD Changer and provides the following benefits:

1. Direct connection of the iPod to Toyota vehicle audio system for optimum sound quality

2. Control iPod playback with CD Changer buttons on car radio or steering wheel controls

3. Direct access and control of up to 5 favorite playlist (in playlist mode)

4. Charge the iPod internal battery — and charging stops automatically at one hour after iPod is paused. iPod will enter SLEEP mode after charging.

5. Auxiliary audio input (connect additional audio devices and listed to them on the factory system)

6. Display of artist name and song title available to radios with a "TEXT" button. Track search by artist, song title, and album is NOT supported.

Plug-n-play: includes installation cable, mounting screws and owner's manual

1. COMPATIBILITY

The PA12-TOY interface is compatible with iPod (G3, G4, G5) iPod Mini, Nano, Photo, Video models featuring a dock connector. **Before you start, please check your iPod firmware, and make sure it is upgraded to the latest version available on.** The functionality and features of the iPod interface described in this owner's manual are confirmed with these software versions:

iPod	iPod Nano	iPod Photo	iPod Video	iPod Mini
Firmware v2..3	firmware 1.0	Firmware 1.2	firmware 1.0	firmware v1.4
firmware v3.1 (G4)				

Please visit www.apple.com/iPod and update the firmware on your iPod.

Future firmware updates for your iPod, iPod Mini, iPod photo or iPod video may affect the features and functions described in this owner's manual.

Note: Display of artist name and song title information is available to radios with a "TEXT" button. Radios without "Text" button will see Playlist number and track number s displayed on the radio Track search by artist, song title and album is NOT supported.

The PA12-Toy will co-exist with either in-dash CD Changer or a Toyota slave CD Changer.

2. PLAYLIST MODE, DIRECT MODE AND AUX. OPTION

The PA12-TOY provides two ways to control your iPod through the car radio, namely **Playlist Mode** and **Direct Mode**.

2-1 DIRECT MODE: In this mode original iPod control functions are not affected, clickwheel and display work as usual. Search and select music on the iPod directly just as you would in portable use using the iPod clickwheel and display. Music will playback through your car stereo. You may also use the track up/down, fast forward and reverse buttons on your Toyota radio or steering wheel. Please see section 4 of this manual for additional information about setting up the PA12-TOY in direct mode.

2-2 **PLAYLIST MODE:** Operate and control the iPod using the CD Changer control button s on the radio. This mode allows you to access five playlist on the iPod and is also referred to as *External Control Mode*. Use the DISC UP (▲) or DISC DOWN (▼) button on the radio to change playlist. Press DISC 6 to play all tracks on the iPod. (See Playlist Naming in section 4 of this manual).

While in playlist mode, press the TEXT button on your radio and artist name and song title will be displayed on the radio screen. Artist name is displayed at the fist press of the TEXT button and song title is displayed at the second press of the TEXT button. Playlist (disc) number and track number will be displayed at the third press of the TEXT button.
Older Toyota radios that do not have the TEXT button will display Playlist (disc) and Track number.—no Text.

2-3 Dip switch #2 on the PA12-TOY interface is for mode selection. The "ON" position is for **Playlist Mode**, "OFF" position is for **Direct Mode**. It is preset to "ON" **(Playlist Mode)** at the factory.
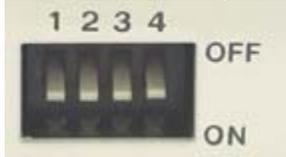
Fig. 1

When in **Playlist Mode** the iPod is switched to *External Control Mode* and neither the controls on the iPod nor the display are active—the iPod displays "TOYOTA, OK TO DISCONNECT".
Note: Disconnect the iPod from the PA12-TOY before switching DIP switch #2 from one mode to the other.

2-4 **ADDITIONAL "AUX INPUT OPTION" SELECTION**

PA12-TOY interface adapter is also capable of connecting an Auxiliary audio source to your Toyota radio, including the iPod. The additional audio source connects to the RCA input jack marked "**AUX AUDIO INPUT"** – (see fig. 2) If you choose to use the "**AUX AUDIO INPUT"**, DIP switch #1 at the side of the interface box must be set to the "OFF" position (it is preset to "ON" at factory).—see Fig. 1

Fig. 2

To access the audio source (XM radio, DVD player, MP3 Player, Game system etc.) connected to the **"AUX AUDIO INPUT**" – Enter CD changer mode (press CD or DISC) button on the radio, the press DISC 6 Track1. DISCS 1 to DISC4 are for accessing Playlist and DISC5 is for accessing all songs on the iPod.

 2-5 **AUXILIARY INPUT OPERATION**

If the **"AUX AUDIO INPUT**" option is selected, the radio will display "CD 6 Track 1" when DISC 6 button is pressed. Use "CD 6 Track 1" to access the audio source connected the "**AUX AUDIO INPUT"** port. Adjust VOLUME, BASS, and TREBLE etc. as you would normally do for the other program sources on the radio.

3. **CONNECTING & PLAYING THE iPod IN DIRECT MODE**

The procedures for connecting and disconnecting the iPod to your PA12-TOY interface adapter are described in this section. Please follow these instructions to avoid connectivity problems or synchronizations errors between the iPod and TOYOTA radio. When the iPod is connected to the interface, the iPod's screen will go blank for a few seconds before the normal screen returns. Set the source on the radio to CD Changer (pres s "CD" "MODE" or "DISC" button), the audio from the iPod will be played back at DISC 5 Track1. Use the iPod clickwheel to access songs, playlist and menus. Adjust VOLUME, BASS, TREBLE etc as you normally do for the other programs sources on the radio.

4. CONNECTING & PLAYINGTHE iPod IN PLAYLIST MODE

4-1. Connecting the iPod to the interface.

Turn your TOYOTA radio ON before connecting your iPod. After connection, the iPod will take a few minutes to switch to external control mode. The iPod screen will then show:
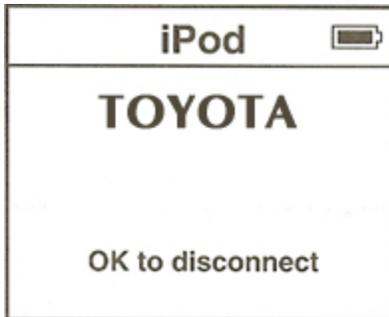
You are now able to select iPod mode.

4-2 SELECTING iPod MODE ON THE TOYOTA RADIO

Press the "AUX" "CD" "SOURCE" or "DISC" button repeatedly until "CD 6-x" appears on the display (x is the track number for the "Now Playing" song on iPod). This display confirms that iPod mode has been completely synchronized and active. Synchronization timing varies according to the number of playlist on your iPod. If the iPod was playing previous to turning the Radio's ACC power OFF, and the iPod was not disconnected, playback resumes from where it stopped.

4-3 DISCONNECTING THE iPod FROM THE INTERFACE

If the iPod is disconnected during playback in iPod mode, the radio will automatically switch to AM/FM mode. After disconnecting, wait until the iPod screen changes from the External Control Mode screen back to the normal menu before attempting to reconnect to the interface.
Tip: If you press and hold the PLAY/PAUSE button on the iPod, you may get the normal iPod menu back faster.

4-4 PLAYING SONGS ON THE iPod

All audio tracks on your iPod will be played (All Play) at DISC 6 if the **AUX OPTION** is NOT selected. Track order is determined by the default order on your iPod. Selecting DISC 1 to DISC 5 on radio will allow playback of 5 playlist on the iPod. Please refer to "Playlist naming" in this manual for more information regarding available and unavailable playlist. Every time the iPod is connected to the interface, playback begins at the "Now Playing" song at DISC 6 by default.
If the iPod was playing any of its playlist right before connection, the same playlist will continue to play and repeated at DISC 6 and the iPod switches to "ALL" when the **FF (►►)** button is pressed.

4-5 SELECTING A PLAYLIST

Press DISC UP (▲) or DISC DOWN (▼) button to select a playlist. The selected playlist will begin playing and the playlist number and track number will be displayed. In rare cases, this may take up to a few seconds to complete synchronization. After playing the last song in the current playlist, playback will start again from the first track on this playlist.

4-6 PLAYLIST NAMING

Once the iPod™ or iPod™ mini is connected to your TOYOTA radio via the PA12-TOY, the iPod interface scans all available playlist on the iPod and looks for designated "TOYOTA" playlist which are created for direct access with the DISC buttons on the TOYOTA radio. The designated "TOYOTA" playlist relate to the "DISC" number in the following manner:

Preset #'s	Playlist(s) names
DISC1	"TOYOTA1"
DISC2	"TOYOTA2"
DISC3	"TOYOTA3"
DISC4	"TOYOTA4"
DISC5	"TOYOTA5"
DISC6	**ALL SONGS on iPod**

Naming a playlist in iTunes™ for the PA12-TOY iPod interface must be exactly as shown. "TOYOTA" must be in **capital letters** and there can be **no spaces** between "TOYOTA" text and the "DISC" number. However, you may add any text after the correct name and number has been assigned. The following is an example of correct playlist naming with additional text:

DISC1	"TOYOTA1_Love"
DISC2	"TOYOTA2_Discount"
DISC3	"TOYOTA3_Car"
DISC4	"TOYOTA4_Stereo"
DISC5	"TOYOTA5_Service"

Note: If no designated "TOYOTA" playlist were created, the PA12-TOY interface automatically relates the first five playlist on the iPod to DISC number 1 to 5 regardless of playlist naming.

If less than five designated "TOYOTA" playlist were created, the PA12-TOY interface automatically fills up the rest of the DISC numbers beginning with the first available playlist on the iPod.
Example: If only three designated "TOYOTA1", "TOYOTA3" and "TOYOTA5" playlists were created, the DISC numbers on the radio would be:

DISC1	"TOYOTA1"
DISC2	(1st available playlist on the iPod)
DISC3	"TOYOTA3"
DISC4	(2nd available playlist on the iPod)
DISC5	"TOYOTA5"

Note: The PA12-TOY does not recognize a playlist that contains no audio tracks regardless of playlist naming. The PA12-TOY does not recognize the "On-The-Go" playlist on your iPod

.4-7 PLAYBACK CONTROL FUNCTIONS

You can control playback with several functions. These functions are generally cancelled when you press select radio buttons; disconnect the iPod, or POWER OFF the radio or ACC.

Scan
Press the "**SCAN"** button, each track in the current playlist will play for 10 seconds. If "SCAN" is pressed at DISC 6, all songs on the iPod will be scanned.

Random (Shuffle)
Press the "RANDOM" button (**RND**) on the radio, songs within a playlist will playback in random order. The track number display will change to start from 1 as it does on the iPod. The radio will continue to play this way until "RND" is deactivated.

Repeat
Repeat of song being played is **NOT** supported.

Track Up/Down

Press the "NEXT" button to advance to the next track in the playlist. Press the "PREV" button to move to the beginning of the track being played. Press the track ▼ button twice to return to the previous track. If the track ▲ and track ▼ buttons are pressed quickly in repetition, the track numbers display may change unevenly. You may also hear short bits of audio during repeat presses of track up and track down buttons. There is no limit to the number of songs on a playlist, but the majority of TOYOTA radios currently displays a maximum of two digits for track number, so after track 99 the display will restart at 1 for example- Track number 100 displays as 01 track 101 displays as 02, track 102 as 03 …

Fast Track Search (x10)

Press the **"FWD" (Fast Forward)** or **"REW" (Fast Reverse)**,(◄◄►►) the track in the playlist advances or decreases in increment of 10 (i.e. 04, 14, 24…). When you reach the end of the playlist, the search will stop at track 1, and then continue by increments of 10 (i.e. 19, 29, 1, 11).
Press and hold the **Fast Forward** or **Fast Reverse** button for more than 4 seconds; the search will jump to the last track or the first track of the playlist. If you are in scan mode, the mode will be cancelled.

Fast Forward/Fast Reverse Play

This function applies **only in random mode**. Since engaging or disengaging the random mode does not stop playback of the current song, you must go in or out of random mode to do the fast track search (x10) function, or the fast forward/fast backward play function.
Pressing and holding the **FF** or **RW** button causes the current track to skip through at high speed. During fast forward, when the end of the current track is reached, the iPod will start playing the next random track at normal speed. During fast backward, when the start of the current track is reached, the track will start playing again at normal speed. To continue fast forward or fast reverse play, release the button and press it again.

CHANGING SOURCE TO AM/FM/CD/CASSETTE
when a source other than the iPod (i.e. Radio, Cassette etc) is selected on the radio, the iPod will pause.

5. VEHICLE APPLICATION Last Revised on: March 6, 2007

The PA12-TOY is applicable to the following vehicles:
Note: The "TEXT" display feature is available only if the radio has a "TEXT" button.

1998-07 4-Runner	2001-07 Highlander	1998-08 Sequoia
1998-07 Avalon	1998-07 Land Cruiser	1998-07 Sienna
1998-07 Camry	2005-07 Matrix	1998-07 Solara
1998-04 Celica	1998-04 MR2	1998-07 Tacoma
1998-07 Corolla	2004-07 Prius	1998-07 Tundra
1998-07 Echo	1998-07 RAV4	2007 Yaris
2007 FJ Cruiser	SCION – ALL MODELS	2003-07 Lexus (ALL MODELS)

Package Contents:
PA12-TOY interface x1
CAS-TYi DIN to 12-PIN Male Plug x1
CAS-TA 12-pin large to 12-pin small adapter x1
CB-PA14 iPod dock connector x1
User and installation manual x1

6. <u>INSTALLATION</u>

1. Remove the factory radio
2. Plug the round DIN plug of the CAS-TYi to the "RADIO" input on the PA12-TOY

Fig. 4   Fig. 5

3. **Recent Toyota** models with mini 12-pin connector:
Connect the male plug of the CAS-TA to the back of the radio and the male plug of the CAS-TYi to the large connector of the CAS-TA (See Fig. 5)
Older Toyota models with large 12-pin connector:
Connect the 12-Pin plug of the CAS-TYi directly to the receptor on the back of the radio. (The CAS-TA is not used)
4-a. Connect the audio output from the auxiliary audio device to the AUX input jacks on the PA12-TOY (see detail explanation in the "OPTION SELECTION" in the user manual. (Optional)

Fig 6.

4-b. Set DIP Switch #2 to "OFF" if **Direct Mode** is preferred.
Note: Dip switch #2 & #4 should always be set to the "ON" position.
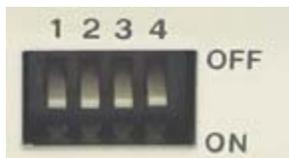
5. Connect the CB-PA14 cable to the PA12-TOY connector labeled "iPod" (remove sticker)

6. Reinstall the factory radio