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9800 Martel Road  
Lenoir City, TN 37772  
www.ps-engineering.com

PXE7300



Stereo Disc Player, AM/FM Receiver  
Entertainment System  
FAA-PMA Approved

**Pilot's Guide  
And  
Operation Manual**

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## GENERAL INFORMATION

### SCOPE

This section describes the operation of the PXE7300 In-Flight Entertainment system. Operating controls consist of two rotary knobs with push-push switches, and four momentary buttons.

### Front Panel Controls



### Operating Controls

The single-disk player is designed for simple operation. The Disc player will begin to play automatically when a Disc is inserted (unless the disc is specially formatted as 7300 volume, see section on special functions). The disc will play through in order, and then pause at the end. If a disc is not inserted, the unit will be in the FM radio mode.

#### NOTE:

When a disc is inserted, the display will show "Reading . . ." for up to 20 seconds, depending on the media and amount of information contained.

### Power/Volume Control (1)

The PXE7300 system is turned on and off by pushing the volume (left hand) knob.

When the unit is first turned on, the green indicator lights should flash in sequence top to bottom and left to right (2, 3, 5, 4).

The left knob is the volume control. Turning the knob clockwise will increase the volume.

### Stop/Eject Button (2)

The Stop/Eject button will stop the disc. Hold for 3 seconds to eject the disc.

In AM or FM Radio Mode, this button scans up the frequency band for a strong signal.

### Play/Pause Button (3)

Pressing the play/pause button momentarily will pause the player. Hold for about three seconds to advance the track. Hold this button continuously for an “intro” scan, which plays for a few seconds before moving on to the next track. Release to resume normal play.

Momentarily pressing STOP/EJECT & PLAY/PAUSE buttons at the same time will cause the track to jump backward.

In AM or FM Radio Mode, this button scans down the frequency band for a strong signal.

Action	Disc Result	Radio Result
<b>▲ short press</b>	Stop	Frequency Scan Up
<b>▲ long press</b>	Eject (also in AUX)	Frequency Scan up
<b>▶ short press</b>	Pause	Frequency Scan Down
<b>▶ Medium press (3 sec)</b>	Select next track/file and keep playing or a random track if in the random mode	Frequency Scan Down
<b>▶ Long press (&gt; 3 sec)</b>	Intro Scan, Plays first few seconds of each song, and advances	Frequency Scan Down
<b>MODE press</b>	Change to FM, AM, AUX (if enabled)	Change from FM to AM, to AUX to (if enabled) to DISC
<b>R/S press</b>	Toggle into Random or normal Sequence play	Enter the preset “Set” mode
<b>DATA knob CW</b>	Select next track and play	Increase radio frequency or preset channel
<b>DATA knob CCW</b>	Select previous track and keep playing	Decrease radio frequency or preset channel
<b>DATA knob Push</b>	Show data on file (if available)	Enter Pre-select Frequency Recall Mode

### **The R/S Button (4)**

This selects random play in the disc mode.

### **The MODE Button (5)**

This button cycles through the operating modes, Disc, FM, AM, and AUX (if enabled).

### **The Data Knob (6)**

In the Disc mode (CD or MP3), the knob will advance (CW) or decrease (CCW) the track. Track number is displayed when the knob is in motion. Then it will display the track name and then begin to play.

In AM or FM radio mode, this knob can be used to tune the radio directly.

If the playing media is an MP3 format, the pushing the DATA knob will display the available information (as stored) from the playing tracks in sequence when the knob is pushed.

- Song Name
- MP3 Actual File Name
- Album
- Artist

Depending on the total size of the information stored on the disc, the available data may be truncated in the following manner: Small number of files, Actual File Name, Larger number of files, Truncated File Name, Most files, Track Number.

### **Radio Preset Function**

The PXE7300 can save up to nine AM and nine FM frequencies for future recall. Select the desired radio frequency.

To set press the “R/S” button (4). The next available slot will be displayed as “S#.” (# being the available memory location). Within five seconds, select the desired frequency using the DATA knob (if not already displayed). Press the R/S (4) again to save the selection. The display will flash, indicating a successful save.

To access the channel, press the DATA knob (5) the radio mode, and select the preset with the DATA knob or scan up (2) and down (3) buttons.

### **AM Radio Reception**

The supplied passive AM/FM antenna, part number is optimized for FM radio performance. Therefore, when used for AM reception, the unit may only receive the most powerful 3 to 5 AM stations. In contrast to an ADF, where audio fidelity is not important, the PXE7300 requires higher signal levels to ensure fidelity. For optimum performance,



some users may desire an external AM/FM antenna. PS Engineering recommends a Comant CI-222-L.

### **Pre-recorded File Playback (Option 1 only)**

The PXE7300 is designed to play up to five special files on a recorded MP3 disc. This can be used for passenger briefing, tour narration, or other in flight uses.

When one of the five inputs is triggered, a corresponding file on a specially encoded disc will start to play, regardless of the mode in use.

When the file has completed play, the unit will return to the previous mode and track, but it will be paused.

The special disc must be labeled as the volume 7300, and the tracks 0001.MP3 through 0005.MP3. Other files, such as music, can be stored on this disc. The normal files will play, but files with the filename 0001.MP3 through 0005.MP3 will not play unless the respective input is activated, OR specifically selected from the front panel. This section can be used to test the disc and determine which files are stored.

See Appendix A for details on storing MP3 files.

### **Display Dimming (7)**

The display is automatically adjusted for ambient light conditions by a photocell. The aircraft dimmer controls text backlighting.

## **Appendix A MP3 Creation**

### **Creating MP3s from an Audio CD**

1. Start MusicMatch JukeBox.([www.musicmatch.com](http://www.musicmatch.com)) Press the recorder button, which is the small red dot located in the top right corner. This will open the recorder window located at the bottom of the screen.
2. Insert an audio CD into the CD drive. MusicMatch will automatically read the disc and display the contents in the recorder window. Press the REFRESH button to check the Internet database for CD information, such as artist, song title, or album. If this information is available, it will automatically be updated in the file.
3. Select Options->Recorder->Format and select either MP3 or MP3PRO format. You may also set the MP3 file quality under the Options->Recorder->Quality menu.
4. Select the tracks to be copied to MusicMatch by checking the box next to the desired track. Press the record button in the lower left corner when complete

5. MusicMatch will then convert the files from the audio CD to MP3 and display them in the Music Library box located in the middle of the screen
6. To edit the MP3 information, select a file in the Music Library and press the TAG button in the top right corner of the Music Library box. This will display the MP3 tagged information screen. Select the General tab to show the information that can be modified for the PXE7300.
7. The PXE7300 can display song name, artist, album, and file-name. This corresponds to the Track title, Artist, Album, and Track Filename fields shown on the screen. Each of these fields can be modified to the user's preference. Note: The PXE7300 is limited to displaying up to 22 characters in each of these fields. Click on the appropriate field to modify the track title, artist, or album. To modify the filename, select the Rename Files button in the lower left corner. Click on the field labeled New File Name and press OK to change the file name. Press the Apply and OK buttons to update the information

## 1.2 Creating Playback Files Using MusicMatch (Option 1 Only)

1. Create up to five MP3 files with the desired playback messages. These files must be named **0001.MP3** to **0005.MP3**. File 0001 corresponds to playback input 1, etc.
2. Start MusicMatch JukeBox. Click the **ADD** icon in the Music Library window to bring up the file dialogue box. Select the files **0001.MP3 – 0005.MP3** and click the **ADD** button. This will transfer a copy of the files to the Music Library.
3. Select a file in the Music Library box and click on the **TAG** button to access the MP3 tagged information screen. Select the General tab to show the MP3 file information. Fill in the **Track Title** field. This information will be displayed on the PXE7300 when the file is active. This field may be up to 22 characters in length.
4. Select **File->Create CD** to open the CD burner window.
5. Select the MP3 disc icon to burn an MP3 disk.
6. Double click on the **Volume Name** box, located to the right of the three disc types. Type **7300** in the window and press RETURN to update the CD volume name.
7. Select the **ADD** icon (+ sign) to open the file dialogue box. Select the files **0001.MP3 – 0005.MP3** and press the **ADD** button. **Make sure these files are located in the root directory of the disc.** Select any other MP3 files you wish to add to the disc.

**Note: These files must not begin with a “000” prefix or the PXE7300 will play the incorrect tracks!** Files can also be dragged from the Music Library box.

8. Place the blank CD in the drive and select the BURN icon to burn the CD.

### Appendix B Error Codes

<u>Error code</u>	<u>Description</u>
00 to 05	Timeout
09	Manual Eject (Press Stop while powering on)
21	command not defined
22	illegal parameter
23	sledge error
24	focus error
25	spindle motor error
26	radial error
27	PLL error
28	subcode timeout error 1
29	requested subcode not found error
2B	toc read error
2C	jump error
2D	HF Error
2E	CD decoder hardware error
31	CA decoder data error
32	CA decoder hardware error
33	flash saving error
34	Flash reading failure
35	general system error
36	loading decoder swap file error
37	internal decoder communication problem
38	internal memory filemap error
80	loader error
90	mechanism error / invalid media

In the unlikely event that you insert an invalid disc media, a scratched or dirty disc, or the unit behaves abnormally, please consult the list of error codes.

## Warranty and Service

### Warranty

In order for the factory warranty to be valid, the installations in a certified aircraft must be accomplished by an FAA-certified avionics shop and authorized PS Engineering dealer. If the unit is being installed by a non-certified individual in an experimental aircraft, a factory-made harness must be used for the warranty to be valid.

PS Engineering, Inc. warrants this product to be free from defect in material and workmanship for a period of one (1) year from the date of installation as recorded in aircraft logbook and/or on FAA Form 337. During the **twelve (12) months**, PS Engineering, Inc., at its option, will send a replacement unit at our expense if the unit should be determined to be defective after consultation with a factory technician.

All transportation charges for returning the defective units are the responsibility of the purchaser. All domestic transportation charges for returning the exchange or repaired unit to the purchaser will be borne by PS Engineering, Inc. The risk of loss or damage to the product is borne by the party making the shipment, unless the purchaser requests a specific method of shipment. In this case, the purchaser assumes the risk of loss.

This warranty is not transferable. Any implied warranties expire at the expiration date of this warranty. PS Engineering SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty does not cover a defect that has resulted from improper handling, storage or preservation, or unreasonable use or maintenance as determined by us. This warranty is void if there is any attempt to disassemble this product without factory authorization. This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation or exclusions may not apply to you.

All items repaired or replaced under this warranty are warranted for the remainder of the original warranty period. PS Engineering, Inc. reserves the rights to make modifications or improvements to the product without obligation to perform like modifications or improvements to previously manufactured products.

### Factory Service

The unit is covered by a one-year limited warranty. See warranty information above. Contact PS Engineering, Inc. at (865) 988-9800 or [www.ps-engineering.com/support.shtml](http://www.ps-engineering.com/support.shtml) before you return the unit. This will allow the service technician to provide any other suggestions for identifying the problem and recommend possible solutions.

After discussing the problem with the technician and you obtain a Return Authorization Number, ship product to:

PS Engineering, Inc.  
Attn: Service Department  
9800 Martel Rd  
Lenoir City, TN 37772  
Phone: (865) 988-9800 FAX (865) 988-6619

Email: [support@ps-engineering.com](mailto:support@ps-engineering.com)

NOTE: PS Engineering will not be responsible for any units shipped in the U. S. Mail. Units returned without either an RMA, or a detailed description of the prob-