

RADIO ACTIVATION (Sirius Version Only)

The Sirius Satellite Receiver requires an activation and periodic subscription. Monthly, annual and lifetime plans are available. To activate the module, you will need to do the following:

- The Sirius Radio Identification (SID/ESN) number from your SIRIUS receiver.
- A major credit card.
- The SIRIUS tuner installed, the aircraft outside with a clear view of the sky.



Turn your SIRIUS unit on and tune it to channel 184.

When you activate online you pay only \$5.00 at www.sirius.com. If you choose to activate by phone the charge is \$15. You can either call 1.888.539.SIRIUS (7474) or activate online.

Keep in mind that there may be additional fees when you activate, based on the following criteria:

- \$5 charge to reactivate a receiver that has been inactive for over six months.
- \$5 late fee for monthly payments made after bill due date.
- Printed copies of account information less than 18 months old cost \$2.50 per request.
- Printed copies of account information more than 18 months old cost \$10 per request.
- Termination of service prior to the end of a prepaid subscription or committed subscription period will result in a \$75 cancellation fee. Fee does not apply for monthly plans.

You are responsible for all taxes or other government fees and charges, if any, based on the address on your account.

NOTE: Prices subject to change without notice

Record your SIRIUS RADIO ID here for future reference:



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

PXE7300

Flying Never Sounded so Good!™



**Stereo Disc Player
AM/FM Radio Entertainment System
or
Stereo Disc Player
AM/FM Radio with Optional Sirius Satellite Radio
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 buttons.



Operating Controls

The single-disc player is designed for simple operation. The Disc player will begin to play automatically when a Disc is inserted. The disc will play through in order, and then stop 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. In Sirius mode the button activates a scan down function, which pauses three seconds on each stream. Pressing any other button cancels the scan.

AGL altitude, distance, number of ground-based transmitters and azimuth to the transmitters. **PS Engineering, Inc. does not guarantee SIRIUS Satellite Radio coverage in all areas, or the suitability of the SIRIUS Satellite Radio for any particular geographical area.**

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 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

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 problem AND a contact name and number will be refused.

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.

- The PXE7300 can display song name, artist, album, and filename. 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

Appendix B Error Codes

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

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.

SIRIUS SIGNAL DROP OUT:

SIRIUS Satellite Radio uses ground-based transmitters in populated areas to ensure consistent road coverage. However, for airborne receivers, these ground-based signals may cancel satellite-transmitted signals, resulting in a dropped signal. You may experience interruptions in the airborne SIRIUS signal near large cities. This interruption will be variable, depending on

Play/Pause Button (3)

Pressing the play/pause button momentarily will pause the player. Hold to advance the track. Momentarily pressing STOP/EJECT & PLAY/PAUSE

Action	Disc Result	Radio Result	Optional Sirius Result
▲ short press	Stop	Frequency Scan Up	Audio Stream Scan Up, plays 3 seconds and scans again.
▲ long press	Eject (also in AUX)		
▶ short press	Pause	Frequency Scan Down	Audio Stream Scan Down, plays 3 seconds and scans again.
▶ long press	Select next track/file and keep playing or a random track if in the random mode		
MODE press	Change from FM to AM, to SR, AUX to (if enabled) to DISC		
R/S short press	Toggle into Random or Sequence play	Enter the preset "Recall" mode	Enter the preset "Recall" mode
R/S long press		Save current frequency	Save current audio stream
DATA knob CW	Select next track and play	Increase radio frequency or preset channel	Increment audio Stream or preset channel
DATA knob CCW	Select previous track and keep playing	Decrease radio frequency or preset channel	Decrement Audio Stream or preset channel
DATA knob Push –Short Press	Show data on file (if available)	Exit preset mode	Exit preset mode
DATA knob Push –Long Press		Enter radio scan sensitivity mode	Display Audio Channel Name

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. In Sirius mode the button activates a scan down function, which pauses three seconds on each stream. Pressing any other button cancels the scan.

The R/S Button (4)

This selects random play in the disc mode. In Radio modes, stores or recalls channels.

The Data Knob (5)

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. In Satellite Radio Mode, the knob can be used to select the Sirius audio stream. In SR mode, pressing the data button for two seconds will change the display from SR channel number to the title of the audio stream (in ex. The Rock, The Vault, JamON, The Trend, Octane, Alt Nation etc.) You can then scroll through the available audio stream genre with the data knob.

If the playing media is an MP3 format, the pushing the DATA knob will display the available data 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.

The MODE Button (6)

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

Radio Preset Function

The PXE7300 can save up to nine AM, nine FM or nine Sirius stations for future recall.

The simplest way to store the frequency or channel in use is to push and hold the R/S button for two seconds, until the display blinks indicating the location was stored.

This will overwrite whatever was stored in this location, and the location starts over with position 1 at power up.

If you want to specify the memory position, you first press the R/S button to show the stored positions. Then, select the position you which to replace. Next, push the R/S button to exit the recall mode.

Now, select the desired radio frequency, or the desired Sirius audio stream title. Press and hold the R/S button for two seconds until the display blinks. To recall the stored information, momentarily press the R/S button to display the information, and scroll through the stored channels until finding the desired location. Either the data knob or play/pause buttons can be used to scroll through the stored locations.

Receiver Threshold Adjustment

The amount of signal required to stop the frequency scan on a frequency can be adjusted to suit your needs. When the crew is in FM or AM mode, press and hold the DATA knob for 3 seconds to enter the sensitivity adjustment. The LED display will show "SENSE xx" where xx is a level from 1-10 (1 is lowest threshold or weakest signal, 10 is more powerful station). This display will revert to the MODE display after 5 seconds with no adjustment. There are two different sensitivity levels (FM and AM) and once adjusted, they will be stored in non-volatile memory.

Display Dimming (7)

The display is automatically adjusted for ambient light conditions by a photocell. The range is further adjusted by the aircraft dimmer circuit.

Appendix A— MP3 Creation

Creating MP3s from an Audio CD

1. Start MusicMatch JukeBox.(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