

## Specifications

**Battery type:** 9-Volt Alkaline  
**Battery Life:** Minimum of 40 hours of continuous operation  
**Frequency Response:** 200 Hz to 15 kHz  
**Output Power:** 150 mW total into a 150 Ω load .  
**Warranty:** One year from purchase

## Headset Modification

If you would like to have your current headset modified for high-fidelity stereo, send \$75.00, along with your headset to the address below. PS Engineering, Inc. will replace your old speakers with proprietary high fidelity transducers and replace the interface cord with a mono-stereo selectable type.

## Warranty and Service

In the event the unit fails, send unit to:

PS Engineering, Inc.  
Attention: Service  
9800 Martel Road Lenoir City, TN 37772  
Phone (865) 988-9800 FAX (865) 988-6619  
[www.ps-engineering.com](http://www.ps-engineering.com)

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Lenoir City, TN 37772  
[www.ps-engineering.com](http://www.ps-engineering.com)

# The Muse®

Personal Entertainment Device

# Operation Guide

Unit Part Number 12000  
Rev 1, March 2006



Welcome to the family of PS Engineering, Inc. aircraft audio products. We hope that your new *The Muse*® will exceed your expectations in craftsmanship and audio fidelity.

## Description

*The Muse*® was designed as a personal music device, allowing the incorporation of entertainment into an aviation headset. Through the use of state of the art surface mount technology, the size of *The Muse*® was kept to an absolute minimum. This keeps the cockpit as clutter free as possible. Additionally, all wires are permanently connected, preventing lost cables. Everything you need to hook up your entertainment device is integral to *The Muse*™, so you'll always be ready to 'Listen to the Muse!'

*The Muse*® has two powerful output amplifiers that will easily drive general aviation headsets. You'll have plenty of output audio power even when using the low level output signal that comes from the 'Remote' output from most personal entertainment devices. There is even enough audio punch to drive two headsets at the same time! (a Y-adaptor is required).

## Battery Installation

When you receive *The Muse*® a 9-volt battery (not supplied) must be installed before use. Slide the battery cover off, connect the battery to the battery clip, and slide the battery in as shown.



## Operation

*The Muse*® was designed to be very easy to use. With only one switch, and no power on/off switch, it is virtually impossible to miss configure it.

Below is the configuration diagram showing interconnection for your general aviation headset and an entertainment device.

The Muse is designed to allow the addition to your aviation headset hi-fi

stereo or monaural music. Whenever the aircraft radio becomes active (or intercom is in use), *The Muse*® will instantly mute the music to a background level. When the activity ceases, the music level is gradually brought back to full level so as not to be startling. This feature is known as "Soft Mute". This switch on the unit allows you to inhibit "Soft Mute" mode, permitting you to play music at a constant background level.

This mode of the "Soft Mute" circuit is sometime referred to as the Sing-A-Long or karaoke mode.

*The Muse*® is always on, and monitoring the music input line that comes from the



entertainment device. When the entertainment device is not playing, the unit is in the "sleep mode". This "sleep" mode requires an incredibly small amount of current (17µA). The instant that *The Muse*® detects a signal on the music input line, it turns itself on. When the signal goes away, it turns itself back into the "sleep" mode. This is completely automatic, you'll never have to turn the unit off, or unplug any cables.

## The Entertainment Device

*The Muse*® was designed to work with portable Compact Disc or Cassette players. Connect the cable that has the 1/8" stereo connector to the "headset out" of the device. This output usually has a volume control associated with it so that you will have the ability to adjust the music listening level. You may use the "remote out," however; the performance of *The Muse* may not be optimized.



## Battery Replacement

Once the 9-Volt battery has been exhausted, it is easy to replace with a new one. Slide the back panel in the direction indicated by the arrow. Remove the battery and install the new one. Replace the battery cover, being certain to slide it in its track. This completes the battery replacement.