



Product Description

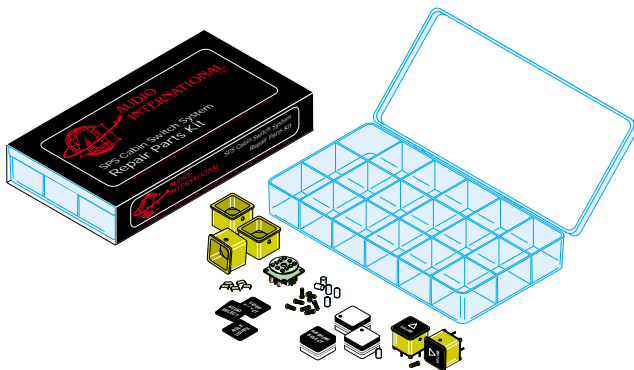
The SPS System combines the look and feel of membrane systems, yet it is composed of individual removable and replaceable modules. The system is built around a socket/bezel into which the modules plug. The modules can be grouped and arranged into the desired configuration.

The SPS switch module Repair Parts Kit, available through AI, offers the individual components needed to repair the modules in the field. This kit saves time and cuts repair costs which benefits both the repair center and the aircraft owner.

Standard Kit Hardware Components

- ❑ AI-SK-1115 (Typical SPS Design-It Style System)
Backlighting: green
 - 1 Toggle PCB
 - 3 Design-It style toggle PCB's
 - 1 Design-it style zero-current toggle PCB
 - 2 Momentary PCB with status LED
 - 1 Headphone jack PCB
 - Standard hardware
- ❑ AI-SK-1117 (Typical SPS System, Non-Design-It Switch Panels) Backlighting: green
 - 3 Toggle PCB
 - 3 Momentary PCB with status LED
 - 1 Indicator PCB
 - 1 Headphone jack PCB
 - Standard Hardware
- ❑ AI-SK-1118 (Typical SPS Switch Panel System with Rocker Assembly) Backlighting: Green
 - 3 Toggle PCB
 - 2 Momentary PCB with status LED
 - 1 Indicator PCB
 - 1 Rocker assembly PCB
 - 1 Headphone jack PCB
 - Standard hardware
- ❑ AI-SK-1119 (Typical SPS Dual Backlighting System)
Backlighting: Amber 'On', Green 'off'
 - 3 Toggle PCB
 - 3 Momentary PCB
 - 1 Zero-current toggle PCB
 - 1 Headphone PCB
 - Standard hardware

All spares kits can be built to match the cosmetic and electrical aspects of the SPS system for which it was configured. If requested, other special items needed for a particular system may be included in the kit (headphone jack inserts, digital displays, etc.) at an additional cost. **The repair kit is an option and should be ordered at the same time as the SPS system.**



Problem Identification

The following list provides a list of problems and their possible solution using the field repair kit:

- ❑ Switch Face Replacement-New button/overlay assembly
- ❑ No Output-Indicates blown fuse on toggle switches
- ❑ Switch Failure-Indicates damaged switch dome. Complete circuit board assembly required
- ❑ Function Failure-PC relay or component failure, replace circuit board assembly.

Module Assembly/Disassembly

NOTE: The following steps are reversed for module disassembly.

1. Assembly (reference figure 1 and figure 2 for component location). The work surface should be clean and smooth to prevent scratching the switch bezel or overlay:
 - Insert button assembly into bezel. Use a small screwdriver to compress the foam gasket around the button while gently pressing it into the bezel. Press the button in until it stops.
 - Place the bezel onto the circuit board assembly. Make sure the circuit board assembly is turned so the bottom edge lines up with the bottom edge of the switch overlay. (To determine the bottom edge of the circuit board assembly, look at the back(opposite side of backlighting LED's). The fuse should be at the bottom for toggle switches. For all other modules, the letters "AI" should be upright)
 - Carefully hold the entire assembly together and turn the module over. Place the four brass screws in place and securely tighten.

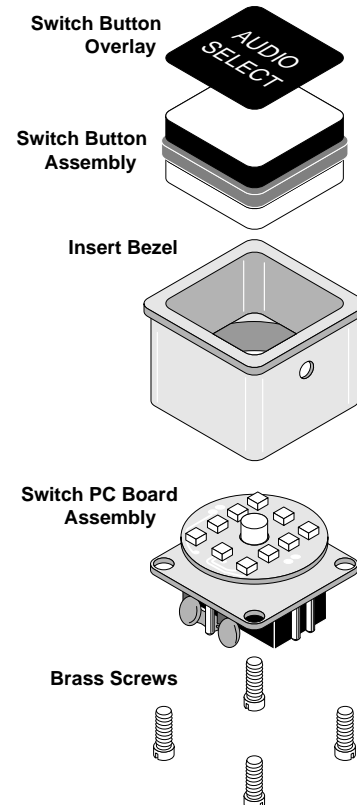


Figure 1



Fuse Replacement

Use tweezers, needle-nose pliers, or similar tool to remove the fuse from the sockets. Replace with AI fuse-F832-ND. (Do not attempt to use other fuses. AI replacement fuses are specially formed to fit the sockets and using other fuses may result in damage to the fuse sockets and/or solder joints).

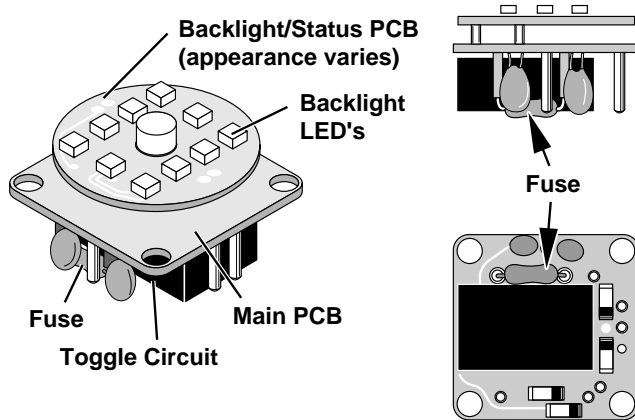


Figure 2

Document # 530158 – Revision History		
Level	Date	Description
IR	8/1998	Initial Release

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