

# Soundair Design & Development Group

PMA Parts in Approval Process



- Coffeemaker Switch Module** — P/N: SP2510-00-1030
- Replaces B/E Aerospace P/N: 416-0449-1, -7
  - Utilizes latest advances in LED and magnetic switch technology for unparalleled performance
  - Factory tested at 1 Million cycles
  - Targeted Delivery—December, 2007



- Coffeemaker Tank** — P/N: SP2510-00-7010
- Replaces B/E Aerospace P/N: 428-0074-1
  - One piece machined end caps removes need for welded bosses
  - Designed to withstand greater pressure and reduce removals
  - Targeted Delivery—December, 2007



- Coffeemakers Tank Heater** — P/N: SP2510-00-7050
- Replaces B/E Aerospace P/N: 440-0150-1, -3
  - Incorporates coil design for lighter weight and better power efficiency
  - Outlasts current cartridge design 250:1 in open air testing
  - Targeted Delivery—December, 2007



- Solid State Relay** — P/N: SP2510-00-4050
- Replaces B/E Aerospace P/N: RL-119 with minor modification
  - Eliminates Mechanical Contacts
  - Doubles reliability
  - Targeted Delivery—December, 2007



- Oven Heater Element** — P/N: SP2511-00-4036
- Replaces B/E Aerospace P/N: 611132
  - Targeted Delivery—December, 2007



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Coffee Maker Reliability Initiative



**Improved Switch Module** — Current mechanical switches and incandescent lamps are responsible for 20% of all removals

**Ultra Sonic Level Sensor** — Current mechanical level sensing probe is responsible for 40% of all failures

**Machined Alloy Pot Retainer** — Responsible for 7% of removals

**Improved Brew Cup Assembly** — Molded using higher grade plastic for increased reliability against cracking and melting

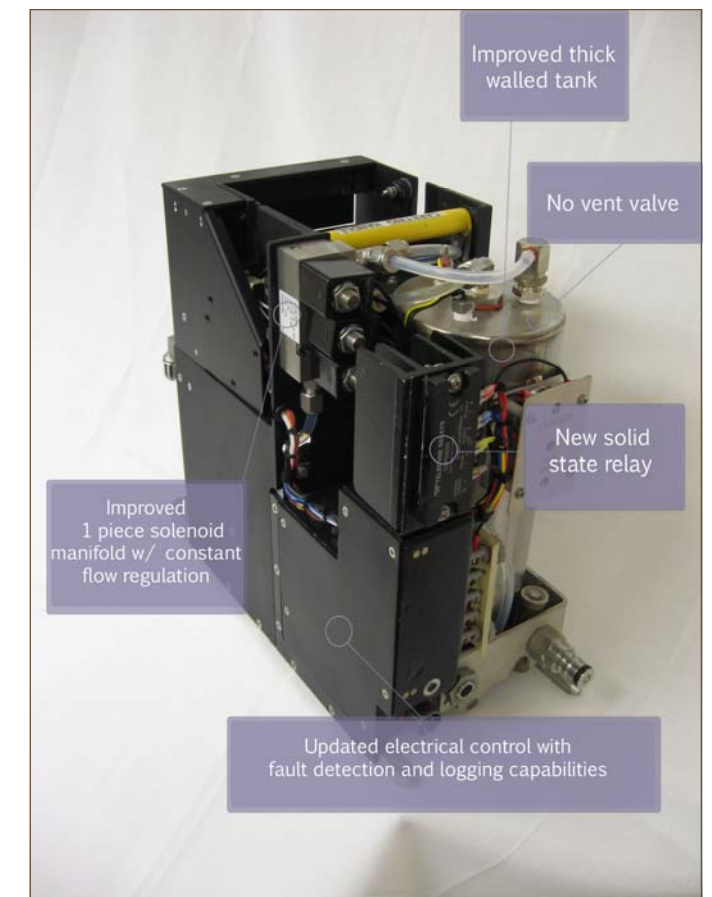
**Optional Thermal Carafe** — Eliminates the need for a platen heater and comes with a splash proof cap

**One Piece Solenoid Manifold** — Reduces bench maintenance time by 60%. Includes a self regulating flow control

**Elimination of Vent Valve** — Current vent valve is responsible for 25% of all removals.

**New Solid State Relay** — Current mechanical relay is responsible for 12% of all removals

**New Power Control System** — New power control board allows for more consistent brew temperatures, auto venting and a maintenance port for downloading fault data



**PMA P/N:  
 SP2510-00-1020**

**REPLACES:**

**B/E AEROSPACE  
 P/N: 665-0343-3**

**CSI  
 P/N:11120-3**



**Soundair PMA**

**Original Equipment**

<b>Cup Material</b>	Polyether Sulfone	Polycarbonate
<b>Plate Material</b>	301 Cres	301 Cres
<b>Heat Deflection Temp</b>	400° F / 204° C	240° F / 115° C
<b>Max Service Temp</b>	428° F / 220° C	270° F / 132° C
<b>Flexural Strength</b>	27,200 psi	14,000 psi
<b>Wall Thickness at Fastner</b>	.125 in	.090 in
<b>Durability Increase</b>	2X	N/A
<b>Moisture Absorption</b>	.05 %	.35 %
<b>Ease of Cleaning</b>	Easy	Difficult
<b>List Price</b>	\$130.00	\$146.85
<b>Airline Price</b>	\$60.00	\$70.26 (Average)

**PMA P/N:  
 SP2510-00-2400**

**REPLACES:**

**B/E AEROSPACE  
 P/N: 411-0716-1**



**Soundair PMA**

**Original Equipment**

<b>Body Material</b>	6061-T6 ALU Alloy	Polycarbonate
<b>Shaft Material</b>	6061-T6 ALU Alloy Rod	ALU Tube
<b>Flexural Strength</b>	55,000 psi	14,000 psi - body/ 35,000 psi - shaft
<b>Heat Deflection</b>	1080 deg F	270 deg F
<b>Moisture Absorption</b>	.05 %	.35 %
<b>Durability</b>	Indefinite	12-18 months on average
<b>List Price</b>	\$85.00	\$76.81
<b>Airline Price</b>	\$45.00	\$38.96 (Average)