



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

**Small Airplane Directorate  
Atlanta Manufacturing  
Inspection District Office**  
One Crown Center  
1895 Phoenix Blvd., Suite 225  
Atlanta, GA 30349

December 29, 2008

**PMA No.: PQ4009CE**


Aircraft Battery Shop, LLC  
163 Business Park Dr., Suite 7  
Lebanon, TN 37090

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

In accordance with the provisions of Title 14 Code of Federal Regulations (14 CFR), Part 21, we have found that the design data, based on Test and Computation submitted by Aircraft Battery Shop, LLC, with letters dated May 30, 2008, June 2, 2008, June 6, 2008, and seven letters dated June 12, 2008 meets the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, it has been determined that Aircraft Battery Shop, LLC, has established the fabrication inspection system required by 14 CFR § 21.303 at 163 Business Park Dr., Suite 7, Lebanon, TN 37090. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. 2 in conformity with the enclosed FAA approved design data.

You are reminded that the provisions of 14 CFR, noted in our PMA letter of approval dated October 22, 2008, also apply to the enclosed PMA Listing-Supplement No. 2. The enclosed Supplement should be retained with the original PMA Letter as evidence of approval to produce the parts concerned. Please sign and return the attached acknowledgment form to the undersigned.

Sincerely,

*FOR*   
Jim Reeves  
Manager, Atlanta Manufacturing  
Inspection District Office

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

**Aircraft Battery Shop  
163 Business Park Dr., Suite 7  
Lebanon, TN 37090**

**PMA NO.: PQ4009CE  
SUPPLEMENT NO.: 2  
DATE: December 29, 2008**

<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS &amp; APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Temperature Sensor	ABS-2003	Aero Design, Inc. <u>P/N: AQS-2003</u>  Aviall Inc. <u>P/N: BS-16420</u>  Saft AI <u>P/N: 16420</u>  Saft Fr. <u>P/N: 116109</u>  Marathon <u>P/N: 30937-001</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4003A</u> <u>Rev.: Orig.</u> <u>Date: May 15, 2008</u> or later FAA-approved revisions.	Boeing	737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, 747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series
Temperature Sensor	ABS-24634	Aero Design, Inc. <u>P/N: AD-24634</u>  Saft AI <u>P/N: 024634</u>  Installed in: Saft 4078-24, 40178-24, 600-59151-11,  Aero Design AD-4078-24	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4053A</u> <u>Rev.: Orig.</u> <u>Date: May 19, 2008</u> or later FAA-approved revisions.	Bombardier	CL-600-2B19 (Regional Jet Series 100), CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant)

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Aircraft Battery Shop  
163 Business Park Dr., Suite 7  
Lebanon, TN 37090

PMA NO.: PQ4009CE  
SUPPLEMENT NO.: 2  
DATE: December 29, 2008

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS & APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Temperature Sensor	ABS-24639	Aero Design, Inc. <u>P/N: AD-24639</u>  Saft AI <u>P/N: 024639-000</u>  Installed in: Saft 1756-3  Aero Design AD-1756-3	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4054A</u> <u>Rev.: Orig.</u> <u>Date: May 19, 2008</u> or later FAA-approved revisions.	Bombardier	CL-600-2B19 (Regional Jet Series 100, CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant)
Temperature Sensor	ABS-32567-001	Aero Design, Inc. <u>P/N: AD-32567-001</u>  Marathon <u>P/N: 32567-001</u>  Installed in: Marathon 32364-001, 7-75M <sup>3</sup> 120, BA36-01	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4058A</u> <u>Rev.: Orig.</u> <u>Date: June 09, 2008</u> or later FAA-approved revisions.	McDonnell Douglas	717-200, MD-90-30
Temperature Sensor	ABS-29529-002	Aero Design, Inc. <u>P/N: AD-29529-002</u>  Marathon <u>P/N: 29529-002</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4057A</u> <u>Rev.: Orig.</u> <u>Date: April 20, 2008</u> or later FAA-approved revisions.	Embraer	EMB-145, EMB-145ER, EMB-145MR, EMB-145LR, EMB-145EP, EMB145-XR, EMB-135-ER, EMB-135LR

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Aircraft Battery Shop  
163 Business Park Dr., Suite 7  
Lebanon, TN 37090

PMA NO.: PQ4009CE  
SUPPLEMENT NO.: 2  
DATE: December 29, 2008

<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS &amp; APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Temperature Sensor	ABS-2008	Aero Design, Inc. <u>P/N: AQS-2008</u>  Aviall Inc. <u>P/N: BS-17125</u>  Saft AI <u>P/N: 17125</u>  Saft FR <u>P/N: 114722</u>  Marathon <u>P/N: 30921-005</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4008A</u> <u>Rev.: Orig.</u> <u>Date: May 15, 2008</u> or later FAA-approved revisions.	Hawker Beechcraft  Bell   Maryland Air Ind., Inc.  Dassault Aviation  Embraer  Lockheed  British Aerospace  Shorts Brothers & Harland Ltd.	99, C99, 99A, 99A(FACH), A99, A99A, B99  204B, 206, 206A, 206A-1(OH-58A), 206B, 206B-1, 206L, 206L-1, 206L-3, 206L-4  Fairchild F-27, F-27A, F-27B, F-27F, F-27G, F-27J, 27M  Mystere-Falcon 20-C5, 20-D5, 20-E5, 20-F5, Mystere-Falcon 50  EMB-110P1, EMB-110P2, EMB-120, EMB-120RT, EMB-120ER, EMB-120FC, EMB-120QC  1329-23A, 1329-23D, 1329-23E, 1329-25  HS 748 Series 2A, 2B  SC-7 Series 2, SC-7 Series 3



**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Aircraft Battery Shop  
 163 Business Park Dr., Suite 7  
 Lebanon, TN 37090

PMA NO.: PQ4009CE  
 SUPPLEMENT NO.: 2  
 DATE: December 29, 2008

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS & APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY	
Temperature Sensor	ABS-2037	Aero Design, Inc. <u>P/N:</u> AQS-2037	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-4036A <u>Rev.:</u> Orig. <u>Date:</u> May 15, 2008 or later FAA-approved revisions.	Hawker	99, A99, A99A, B99, C99, A100 (U-21F), A100A, A100C, B100	
		Aviall Inc. <u>P/N:</u> BS-2054		Beechcraft		
		Saft <u>P/N:</u> 17446		Bell		212
		Marathon <u>P/N:</u> 29084-004		Dassault Aviation		Fan Jet Falcon, Fan Jet Falcon Series C, D, ,E, F, G, Mystere-Falcon 200, Mystere-Falcon 20-C5, 20-D5, 20-E5, 20-F5
		Tramm <u>P/N:</u> P600-14, A&B				
		Fairchild <u>P/N:</u> 27-19200-001		M7 Aerospace	Fairchild SA226-TC, SA227-AC (C-26A), A227-PC, SA227-BC (C-26A), SA227-CC, SA227-DC,(C-26B)  SA26-T, SA26-AT, SA226-T, SA-226-AT, SA-226-T(B), SA227-AT, SA227-TT	
				Fokker	F.27 Mark 100, F.27Mark 200, F.27Mark300, F.27Mark400, F.27Mark500, F.27Mark600, F.27 Mark700, F.27 Mark 050	

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Aircraft Battery Shop  
163 Business Park Dr., Suite 7  
Lebanon, TN 37090

PMA NO.: PQ4009CE  
SUPPLEMENT NO.: 2  
DATE: December 29, 2008

<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS &amp; APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Temperature Sensor	ABS-2037	Aero Design, Inc. <u>P/N: AQS-2037</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4036A</u> <u>Rev.: Orig.</u> <u>Date: May 15, 2008</u> or later FAA-approved revisions.	Gulfstream	G-1159
		Aviall Inc. <u>P/N: BS-2054</u>		Lockheed	1329-23A, 1329-23D, 1329-23E, 1329-25
		Saft <u>P/N: 17446</u>		Mitsubishi	MU-2B, MU-2B-10, MU-2B-20, MU-2B-15, MU-2B-30, MU-2B-35, MU-2B-25, MU-2B-36, MU-2B-26
		Marathon <u>P/N: 29084-004</u>			
		Tramm <u>P/N: P600-14, A&amp;B</u>			
		Fairchild <u>P/N: 27-19200-001</u>		Hawker Beechcraft	DH.125 Series 1A, 1A-522, 1A/R-522, 1A/S-522, 3A, 3A/R, A/RA, 400A, HA.125 Series 400B, HS.125 Series 1B, 1B-522, 1B/R-522, 1B/S-522, 3B, 3B/R, 3B/RA, 3B/RB, 3B/RC, F3B, F3B/RA, 400B/1, 401B, 403A(C), 403B, F400B, F403B, 600A, 600B, 600B/1, 600B/2, 600B/3, F600B, 700A, 700B BAe.125 Series 800A, 800A (C-29A), 800A(U-125), 800B, 1000A, 1000B
		Sabreliner Corporation	NA-265, NA-265-20, NA-265-30, NA-265-40, NA-265-60, NA-265-65, NA-265-70, NA-265-80		

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Aircraft Battery Shop  
 163 Business Park Dr., Suite 7  
 Lebanon, TN 37090

PMA NO.: PQ4009CE  
 SUPPLEMENT NO.: 2  
 DATE: December 29, 2008

<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS &amp; APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Temperature Sensor	ABS-2042	Aero Design, Inc. <u>P/N: AD-2042</u>  Aviall Inc. <u>P/N: BS-2135</u>  Saft AI <u>P/N: 18740</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.:</u> ABS-4042A <u>Rev.:</u> Orig. <u>Date:</u> April 20, 2008 or later FAA-approved revisions	Boeing	737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 7 37-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, 747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747- SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 757-200 Series, 757-200PF Series, 757-200CB Series, 757-300 Series 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

**Aircraft Battery Shop  
163 Business Park Dr., Suite 7  
Lebanon, TN 37090**

**PMA NO.: PQ4009CE  
SUPPLEMENT NO.: 2  
DATE: December 29, 2008**

<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS &amp; APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Temperature Sensor	ABS-19756	Aero Design, Inc. <u>P/N: AD-19756</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4051A</u> <u>Rev.: Orig.</u> <u>Date: Apr. 20, 2008</u> or later FAA-approved revisions	Viking Air Limited (Twin Otter)	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300,
		Aviall <u>P/N: BS-2030</u>		Viking Air Limited	Bombardier DHC-7-1, DHC-7-100, DHC-7-101, DHC-7-102, DHC-7-103
		Saft AI <u>P/N: 13959, 19756, 19698, 19787</u>		Bombardier	DHC-8-100 Series DHC-8-200 Series DHC-8-300 Series DHC-8-400 Series
		Installed in: Saft 4076-9, 4071-9, 4078-10, 12277-2		British Aerospace (Operations) Limited	Jetstream Series 3101
		Aero Design AD-4078-10		British Aerospace Regional Aircraft	Jetstream Model 3201
				Embraer	EMB-110P1, EMB-110P2, EMB-120, EMB-120RT, EMB-120ER, EMB-120FC, EMB-120QC



**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Aircraft Battery Shop  
 163 Business Park Dr., Suite 7  
 Lebanon, TN 37090

PMA NO.: PQ4009CE  
 SUPPLEMENT NO.: 2  
 DATE: December 29, 2008

<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS &amp; APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Temperature Sensor	ABS-29529-001	Aero Design, Inc. P/N: AD-29529-001	Test and Computation per 14 CFR § 21.303 Dwg. No.: ABS-4056A Rev.: Orig. Date: April 20, 2008 or later FAA-approved revisions	Viking Air Limited (Twin Otter)	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300,
		Aviall P/N: BS-2109		Viking Air Limited	Bombardier DHC-7-1, DHC-7-100, DHC-7-101, DHC-7-102, DHC-7-103
		Marathon P/N: 29529-001, 29630-001			
		Installed in: Marathon BTSP-400, BTSP-900, BTSP-179, BTMA5, BTMA5-20, BTCA5-20		Bombardier	DHC-8-100 Series DHC-8-200 Series DHC-8-300 Series DHC-8-400 Series
				Embraer	EMB-110P1, EMB-110P2, EMB-120, EMB-120RT, EMB-120ER, EMB-120FC, EMB-120QC

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

Aircraft Battery Shop  
163 Business Park Dr., Suite 7  
Lebanon, TN 37090

PMA NO.: PQ4009CE  
SUPPLEMENT NO.: 2  
DATE: December 29, 2008

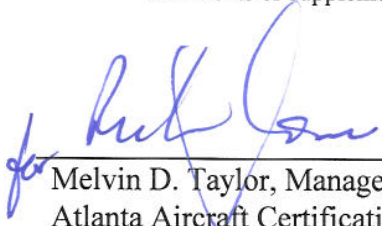
<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS &amp; APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Temperature Sensor	ABS-29529-001	Aero Design, Inc. <u>P/N: AD-29529-001</u>  Aviall <u>P/N: BS-2109</u>  Marathon <u>P/N: 29529-001, 29630-001</u>	Test and Computation per 14 CFR § 21.303 <u>Dwg. No.: ABS-4056A,</u> <u>Rev.: Orig.</u> <u>Date: April 20, 2008</u> or later FAA-approved revisions	British Aerospace (Operations) Limited  British Aerospace Regional Aircraft	Jetstream Series 3101     Jetstream Model 3102


Installed in:  
Marathon  
BTSP-400, BTSP-900,  
BTSP-179, BTMA5,  
BTMA5-20, BTCA5-20

-----**END OF LISTING**-----

## NOTE:

- 1) Provide minor design changes in a manner as determined by the ACO. Handle major design changes to drawings and specifications in the same manner as that for an original FAA-PMA.
- 2) The FAA Approved ICA for the above parts with their designs. These ICA may refer to those of the respective parts from the holders of type certificates. Otherwise provide supplemental ICA for differences in the replacement parts. Make referral statements or supplemental ICA readily available per 14 CFR § 21.50.

  
Melvin D. Taylor, Manager  
Atlanta Aircraft Certification Office

  
Jim Reeves, Manager  
Atlanta Manufacturing  
Inspection District Office