



1625 Lost Nation Road, Willoughby, Ohio 44094
440.951.4744 Voice 440.951.4725 Fax

Mandatory Service Bulletin

Bulletin No. SB-07-001

Issue Date: 03/3/07

INTRODUCTION:

This mandatory service bulletin is being issued to every Thermawing owner with the system installed. The service center must ensure that no lightning mesh is protruding through the aircrafts paint and into the heater causing a short to the aircrafts mesh. An installation of a ground fault sensor will be installed for additional security.

Revision New, dated 03/03/07, to this service bulletin is approved by the Manager, Chicago Aircraft Certification Office, ACE-115C, by letter dated March 30, 2007, as an alternative method of compliance with AD 2006-25-08, paragraphs(e)(1) and (e)(2)."

PURPOSE:

To provide instructions to conform Thermawing to the latest amended STC.

EFFECTIVITY:

41058, 41087, 42071, 41504, 41039, 41514, 41533, 41105, 41044, 41060, 42083, 41525, 41083, 42037, 41062, 41028, 41036, 41055, 41004, 41043, 41018, 41020, 41025, 41069, 41077, 41084, 41095, 42081, 42083, and all other Thermawing kits received before service Bulletin date. The remainder will be addressed by the next kit revision level and installation manual.

ITEM BEING AFFECTED:

- Thermawing Deice System

RESOURCES:

Twelve (12) hours of labor required for compliance with this Mandatory Service Bulletin

PART INCLUDED:

QTY	P/N	A/C Model #	PART DESCRIPTION
2	DI-00097	400	Outboard Heated Stall Strip
2	DI-00098	400	Inboard Heated Stall Strip
1	DI-00050	400	Left Outboard Heater
1	DI-00091	400	Left Inboard Heater
1	DI-00052	400	Right Outboard Heater

1	DI-00093	400	Right Inboard Heater
1	DI-00040	350	Left Outboard Heater
1	DI-00044	350	Left Inboard Heater
1	DI-00042	350	Right Outboard Heater
1	DI-00046	350	Right Inboard Heater

350 AND 400 UNIVERSAL PARTS

2	DI-00096	350/400	Inboard Heated Stall Strip
2	DI-00048	350/400	Horizontal Stabilizer Heater
1	DI-00121-F		Diode
14	DI-00198		Wing Stud Insulator
1	DI-00121-AO		Shunt
2	MS21044N-08		Nut
2	MS35206-245		Screw
2	AN960-8L		Washer
1	DI-00101		Wellnut, Screw, Washer pre-made kits
1	DI-00206		Ground Fault Sensor Module
1	DI-00208		Ground Fault Cable Assembly
1	DI-00243		Alternator Belt
1	AFM		

COMPLIANCE:

Immediately Upon Receipt of Bulletin

PROCEDURE:

Remove Stall Strips

Measure 1 inch from the inboard edge of the stall strip and carefully grind down the leading edge to expose the inboard screw. Repeat for the outboard screw. Unscrew the stall strip from the wellnut. To release the stall strip from the heater, use a scribe and gently remove the epoxy from the outside edges of the stall strips. Carefully remove each stall strip.

Remove Thermawing Heaters

Start at a corner and use a heat gun to concentrate the heat where another technician is gently pulling. Continue to heat the heater just along the line of incidence where the technician is pulling. This will loosen the bond and significantly assists in removing the heater. (Do not exceed 180 degrees Fahrenheit)

Refer to the latest installation manual to complete the following tests and installations.

See <http://www.airplanedeice.com/engineering/documents.php> for the latest installation manual Rev I dated March 19th 2007.

Mega Ohm Testing (section 11)

Hipot Testing (section 13)

Heater Installation (section 11.2 and NC-05-003 Thermawing Heater Application)

Stall strip installation (Section 11.3)

Ground Fault Sensor and Harness Installation (section 11.1)

Diode (section 7.3)

Alternator Belt (section 8)

Remove the "deice system inoperable" placard, cut the tie straps and push the circuit breakers in.

A revised AFM has been included with the service bulletin. Remove the old AFM in the POH and replace with the included AFM.

MATERIAL REQUIRED:

Thermawing installation tools

Hipot Tester

Mega Ohm Meter (Recommended)

BILLING:

Please send appropriate billing to the following contact

Roberta Patterson
Kelly Aerospace Thermal Systems
1625 Lost Nation Road
Willoughby, OH 44094

CUSTOMER SERVICE CONTACT INFORMATION:

If you have any questions concerning the instructions in this service bulletin, please contact Kelly Aerospace Thermal Systems at 440-951-4744