United States Of America
Department of Transportation – Federal Aviation Administration

Supplemental Type Certificate

Number: **SA02261AK-D**

This Certificate issued to: Aero Twin, Inc.
2403 Merrill Field Drive
Anchorage, Alaska 99501

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 *of the Federal Aviation Regulations.* **Complete certification basis is specified in Type Certificate Data Sheet No. A37CE, Revision 12.**

Original Product Type Certificate: A37CE

Make: Cessna

Model: 208, 208B

Description of Type Design Change:

Fabrication and Installation of Aero Twin, Inc. Wing Ice Inspection Handle Kit No. 208-ICE-HNDL for Cessna 208 and 208B aircraft in accordance with Aero Twin, Inc. Master Data List No. 208-ICE-HNDL-MDA, dated: February 21, 2006, or later FAA/DAS approved revision.

Limitations & Conditions:

Compatibility of this design change with previously approved modifications must be determined by the installer. The holder of this certificate will provide each person it permits to use the certificate to alter one or more airplanes with written evidence of that permission in a form acceptable to the Administrator. 14 CFR Part 43 and the Cessna 208 Maintenance Manual are adequate to insure Continued Airworthiness of this modification.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered suspended revoked or termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: February 15, 2006

Date of issuance: February 21, 2006

Date reissued:

Date amended:

By direction of the Administrator

(Signature)

Vincent A. Cestnik
DAS director of Operations
Aero Twin, Inc. DAS-01-AK

(Title)

ANY ALTERATION OF THIS CERTIFICATE IS PUNISHABLE BY A FINE OF NOT EXCEEDING $1,000, OR IMPRISONMENT NOT EXCEEDING 3 YEARS, OR BOTH.

This certificate may be transferred in accordance with FAR 21.47

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

Small Airplane Directorate
Wichita Aircraft Certification Office
1801 Airport Road, Room 100
Wichita, Kansas 67209

April 13, 2006

Mr. Jason Kepler
Aero Twin, Inc.
2403 Merrill Field Drive
Anchorage, Alaska 99501

Subject: Alternate Method of Compliance (AMOC) to AD 2006-01-11 R1

Reference: (1) Aero Twin Letter, dated February 7, 2006
(2) Aero Twin Letter, dated February 21, 2006
(3) FAA Letter to Aero Twin, dated March 1, 2006

Dear Mr. Kepler:

This office reviewed your requests for AMOC to AD 2006-01-11 presented in your letters of reference 1 and 2, and granted an AMOC on March 1, 2006 with the following conditions:

1. Aero Twin installation defined by drawing FP8-1, approved under FAA project NM-100A-9002-6, is acceptable as an AMOC for paragraph (e)(1) of AD 2006-01-11. This installation is **only** an acceptable AMOC for Cessna Model 208 airplanes **not** approved for flight into known icing conditions. This installation is **not** an acceptable AMOC for the Cessna Model 208B.

2. Aero Twin installation defined by drawing 208-ICE-HNDLE, approved under DAS STC SA02261AK-D, is acceptable as an AMOC for paragraph (e)(1) of AD 2006-01-11.

In light of the fact that AD 2006-01-11 was recently revised, the AMOC issued by this office on March 1, 2006, is still acceptable to meet the requirements of AD 2006-01-11 R1 paragraph (e)(1) with the above stated conditions. Should you have any questions concerning this issue please contact Mr. Bob Busto at (316) 946-4157.

Sincerely,

Margaret Kline
Manager
Wichita Aircraft Certification Office

C.C. ACE-7, Manager Anchorage FSDO, Dr. Dave Swartz (ACE-115N)

AERO TWIN, INC.

September 13, 2006

Dear Aero Twin Customer:

You have purchased from us either our float plane steps and handles kit FP8-100, approved under FAA project number NM-100A-9002-6; or our ice inspection handle STC number SA02261AK-D. Both of these kits were approved by the FAA as an alternate method of compliance (AMOC) to AD 2006-01-11 (see attached FAA letter dated March 1, 2006). That airworthiness directive requires the pilot of Cessna 208 and 208B aircraft to inspect the upper surfaces of the wings. Both the float plane steps and handles and the ice inspection handle provide the pilot with assistance in this task.

Some confusion has become evident regarding the FAA's AMOC approval letter. It is somewhat unclear whether the letter applies to both the float plane steps and handles and the ice inspection handle, and if either kit is approved for both the 208 and 208B. This letter is an attempt to clarify that confusion.

The float plane steps and handle kit number FP8-100, installed in accordance with drawing FP8-I, is approved under an FAA engineering design approval. The FAA project number for that kit is NM-100A-9002-6. It has only been approved for installation on 208 aircraft that are not approved for flight into known icing. The kit was originally made several years before the icing AD's for the Caravan came into existence and was only intended to provide access to the top of the wing for refueling the aircraft on floats. There was no reason at that time to certify the kit for installation on the 208B or to approve it for flight into known icing. However, the FAA did agree that the access to the top of the wings that the steps and handles kit provided was an acceptable means of complying with AD 2006-01-11 for floatplane 208's and other 208's that have the handles installed and are not approved for flight into known icing.

The ice inspection handle kit number 208-ICE-HNDL, approved under STC number SA02261AK-D, provides an alternate method of compliance to AD 2006-01-11 for all model 208 and 208B aircraft. The inspection handle is installed in the same location as Cessna's inspection handle, and is designed to be a direct replacement for the Cessna handle.

Another source of confusion was the release of revision 1 of AD 2006-01-11 shortly after the AMOC approval for our kits. The AMOC does apply to revision 1 of AD 2006-01-11, as stated in the attached FAA letter dated April 13, 2006.

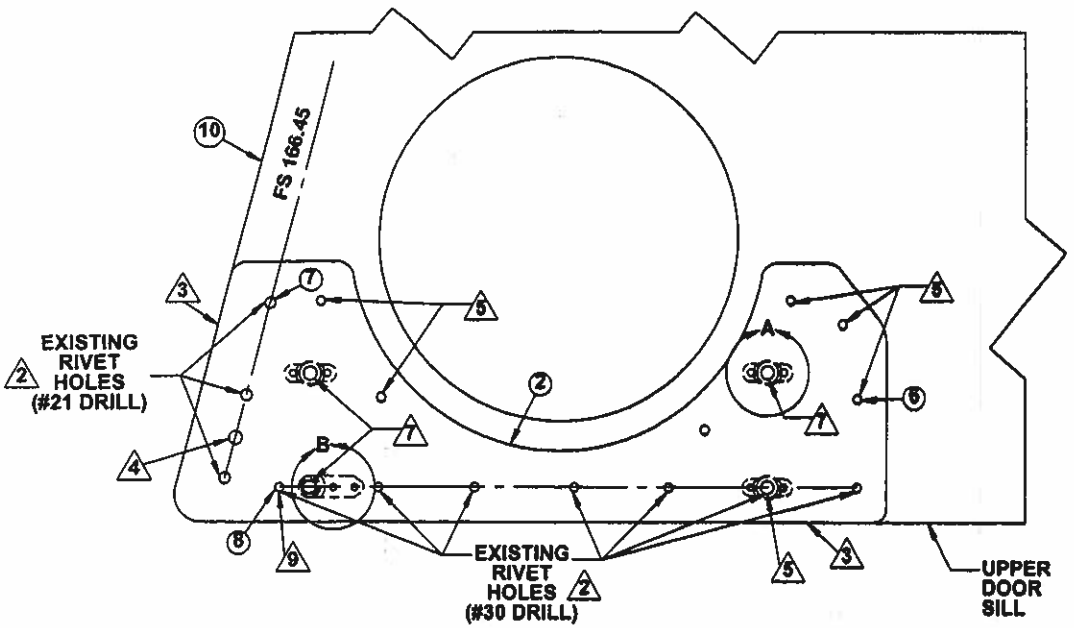
If you have any further questions, please feel free to call us at (907)274-6166.

Sincerely,

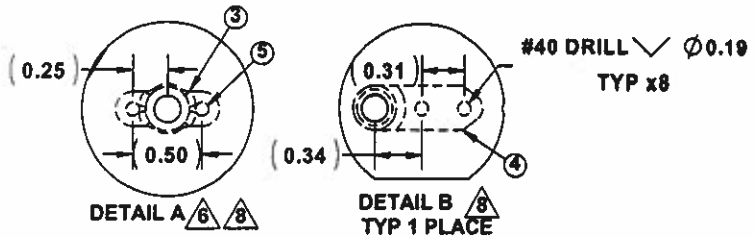
Tony Cestnik
President

2403 Merrill Field Drive • Anchorage, Alaska 99501 • (907) 274-6166 • Fax # (907) 274-4285
FAA Certified Repair Station FE-4R177M • FAA Designated Alteration Station DAS-01-AK

REVISIONS			
REV.	DESCRIPTION	DATE	DRAWN
A	ADDED WEIGHT AND BALANCE DATA	03-31-06	JMX



VIEW INSIDE CABIN LOOKING OUT LEFT HAND SIDE



NOTES AND INSTALLATION INSTRUCTIONS:

1. REMOVE DOOR TRIM FROM THE TOP OF THE PILOT DOOR. PULL BACK HEADLINER TO EXPOSE THE CESSNA DOUBLER ASSEMBLY, P/N 2613134-6.
2. DRILL OUT EXISTING RIVETS INDICATED USING EITHER A #30 DRILL OR A #21 DRILL, AS REQUIRED.
3. ALIGN THE BOTTOM AND LEFT EDGES OF ITEM -2 WITH EDGES OF ITEM -10, AS SHOWN. MATCH DRILL EXISTING RIVET HOLES IN ITEM -2 USING EITHER A #30 OR #21 DRILL AS REQUIRED.
4. MATCH DRILL EXISTING SCREW HOLE INTO ITEM -2 USING A #10 DRILL.
5. CLECO DOUBLER, ITEM -2, IN PLACE. ENLARGE THE SECOND RIVET HOLE FROM THE RIGHT SIDE IN THE BOTTOM ROW USING A #10 DRILL. DRILL THROUGH BOTH THE DOUBLER, ITEM -2, AND THE CESSNA DOUBLER, ITEM -10. MATCHDRILL PREDRILLED RIVET HOLES IN ITEM -2 INTO ITEM -10 USING A #30 DRILL.
6. REMOVE DOUBLER, ITEM -2, AND MARK AND DRILL NUTPLATE RIVET HOLES ON EITHER SIDE OF THE ENLARGED RIVET HOLE ON ITEM -10, USING A #40 DRILL. COUNTERSINK THE RIVET HOLES 100° TO 0.19 DIAMETER. INSTALL NUTPLATE, ITEM -3, USING RIVETS, ITEM -5. SEE DETAIL VIEW A.
7. TEMPORARILY SCREW HANDLE, ITEM -1, TO NEWLY INSTALLED NUTPLATE USING SCREW, ITEM -9. ALIGN THE LOWER LEFT HANDLE SCREW HOLE WITH THE EXISTING LINE OF RIVETS. WITH A #10 DRILL, MATCH DRILL THE THREE REMAINING SCREW HOLES INTO ITEM-10. REMOVE HANDLE.
8. MARK AND DRILL THE NUTPLATE RIVET HOLES NEXT TO THE NEWLY DRILLED SCREW HOLES IN ITEM -10. COUNTERSINK THE RIVET HOLES 100° TO 0.19 DIAM. INSTALL NUTPLATES, ITEMS -3 AND -4, IN ITEM -10, USING ITEM -8 RIVETS. SEE DETAILS A AND B.
9. INSTALL DOUBLER, ITEM -2, ONTO CESSNA DOUBLER USING ITEM -6 AND -7 RIVETS. COUNTERSINK RIVET HOLE TO THE LEFT OF ITEM -4, 100°, TO A DIAMETER OF 0.23. INSTALL COUNTERSUNK RIVET, ITEM -8 IN THAT HOLE.
10. REINSTALL HEADLINER AND DOOR TRIM. INSTALL HANDLE, ITEM -1, USING SCREWS, ITEM -9, THROUGH THE HEADLINER.
11. HANDLE, ITEM -1, AND SCREWS, ITEM -9, NOT SHOWN FOR CLARITY.
12. UPDATE WEIGHT AND BALANCE: +0.25 LBS AT FS 161.45.

ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	DIMENSION	SPECIFICATION
10	1	2613134-5	DOUBLER ASSY.	-	-	CESSNA
9	4	AN526-10R10	SCREWS	-	-	-
8	1	MS20426AD4	RIVETS	-	-	-
7	3	MS20470AD4	RIVETS	-	-	-
6	11	MS20470AD4	RIVETS	-	-	-
5	8	MS20426AD3	RIVETS	-	-	-
4	1	MS21051L3	NUTPLATE	-	-	-
3	3	MS21069L3	NUTPLATE	-	-	-
2	1	AT2601480-7	DOUBLER	-	-	DWG AT2601480-7
1	1	AT2601480-6	HANDLE	-	-	DWG AT2601480-6

PART NUMBER: *

	NAME	DATE
DRAWN	J. ERFLER	02/17/06
CHECKED	E. TAYLOR	02/20/06
ENG APPR.	E. TAYLOR	02/20/06

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL: ±1/16"
ANGULAR: ±2°
LINEAR: .X=±.1 .XX=±.05 .XXX=±.010

AERO TWIN, INC.
3400 MERRILL FIELD DRIVE · ANCHORAGE · ALASKA · 99501
(907) 274-6144 · WWW.AEROTWIN.COM

CESSNA 206/207 ICE INSPECTION HANDLE

ICE INSPECTION HANDLE INSTALLATION

SIZE	DWG. NO.	REV
B	208-ICE-HNDLE	A

SCALE: NOT TO SCALE | SHEET 1 OF 1