

# Supplemental Type Certificate

Number 2480749AT

Applicant **Aero-Trim, Inc.**  
1130 103 STREET  
Day Harbor, FL 32118

~~This approval is limited to the following aircraft and engine models:~~

~~1. *[illegible]* of the *[illegible]* (See Continuation Sheet)~~

~~2. *[illegible]*~~

~~3. *[illegible]* (See Continuation Sheet)~~

~~4. *[illegible]*~~

~~5. *[illegible]*~~

Modification of flush type fuel caps for the installation of a locking cylinder and keeper in accordance with Aero-Trim, Inc. drawings: 988, no revision dated February 6, 1995 and 991, no revision dated March 13, 1995 or later FAA approved revision of either drawing.

~~6. *[illegible]*~~

This approval should not be extended to other aircraft of these models in which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of these other *[illegible]* (See Page 2)

~~7. *[illegible]*~~

~~8. *[illegible]*~~

~~9. *[illegible]*~~

Date of issuance February 6, 1995

*[Signature]*

Date of issuance April 10, 1995

*[Signature]*

*[Signature]*

**Paul C. Scoville**  
Associate Manager, Atlanta  
Aircraft Certification Office



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Department of Transportation—Federal Aviation Administration  
**Supplemental Type Certificate**

(Continuation Sheet)

*Number* 2489749AT

Original Product: (Continued)

A1000	20, 20A, 20B, 20B-A, 20C, 20D, 20D-A, 20E, 20F, 20F-A, 20, 20A, 20B, 20C, 20D, 20F, 20, 20, 20, 20A, 20, 20A (C-20A), 20, 20A, 20, 20B, 20C, 20	FAR 23
Makel Honey Aircraft Corporation		
J13	1944 and subsequent K10C, D, E, F, G, J, K, L, M	CAR 3
Makel Piper Aircraft Corporation		
A2050	PA-11, 11-120, 11-125, 11-130	CAR 1/FAR 23
A205A	PA-11P, 11T, 11T1, 11T2, 11T3, 11P-130	CAR 1/FAR 23
Makel Raytheon Aircraft Company (formerly Beech)		
A-75T	C185 (Army C-43, C-43A, C-43F, UC-43B, UC-43F, AT-7, AT-7A, AT-7B, AT-7C; Navy JRB-1, JRB-2, JRB-3, JRB-4, SBB-1, SBB-2C)	CAR 4a
A-765	D18C, D18B, C185, C185-9700, C185, M185, C-43G, TC-43G, C-43H, TC-43H, TC-43J, UC-43J (SBB-1), JRB-4, JRB-3N, JRB-3NW, JRB-3TW, AC-43J (SBB-9P)	CAR 3
770	D18C-T	CAR 4a
A100	19A, B19, M19A, 23, A23, A23A, A23-19, A23-24, B23, C23, A24, A24N, B24R, C24R	CAR 3
A-77T	33, A33, B33, C33, D33, E33, F33, G33, 33R	CAR 3

IN ACCORDANCE WITH SECTION 21 OF THE FEDERAL AVIATION ACT OF 1958 (49 USC 1062) AND 25 USC 1621, AS AMENDED BY PUBLIC LAW 85-564, 70 STAT. 389 (1956), AND 85-647, 70 STAT. 514 (1956), THE FEDERAL AVIATION ADMINISTRATION HAS ISSUED THIS SUPPLEMENTAL TYPE CERTIFICATE.



**aero-trim, inc.**  
1130 102 Street  
BAY HARBOR, FL. 33154

FAX(305) 864-5454  
(305) 864-3336

#### AERO-LOCK

The perfect affordable way to foil fuel filchers.

The STC #SA00749AT allows this to be a do-it-yourself project.

A professional mechanic is not required.

**PLEASE READ INSTRUCTIONS THOROUGHLY BEFORE BEGINNING.**

1. Disassemble your gas cap by removing the cotter key, nut, spring, and back plate.
  2. Drill a 15/32 diameter hole thru the toggle per drawing.
  3. Remove metal on the backside of the toggle per drawing. This can be done by hand with a hacksaw and file or with a bandsaw or milling machine.
  4. Position the keeper in the corner of the "well" and using the keeper holes as a drill jig, spot drill thru' the keeper into the cap with a 3/32 drill just enuf to get a starting "dimple" for a #50 drill. Drill thru' cap with the #50 drill.
  5. Tap the holes in the cap 2-56.
  6. Screw keeper in place using the stainless steel screws provided. Use super glue to insure a leak-proof condition. Torque screws for tight fit.
  7. Insert the lock cylinder in the toggle. Use a good strong epoxy to prevent rotation. Install large hex nut on back side and just snug up for now.
  8. Orient the lock per FIG1 and tighten hex nut using super glue.
  9. Install the cam on the backside of the cylinder per drawing, again paying attention to proper orientation. With the cam in the horizontal position under the keeper, the key should come out. However, in the unlock position with the cam straight up vertically the key will be locked inside the cylinder.
  10. Secure cam in place with super glue using screw provided.
- NOTE: If the cam does not pass under the keeper to lock down the toggle, grind down the head of the cam screw slightly to allow the toggle to depress into the cap well farther.
11. Clean cap of all drill chips etc and reassemble.

Thank you for listening.

Norm Smith  
President  
Aero Trim Inc.





## Supplemental Type Certificate

**STC Number:**  
SA00749AT

**This certificate issued to:**  
Aero Trim, Inc

**STC Holder's Address:**  
1130 102 Street  
Bay Harbor FL 33154  
United States

**Description of the Type Design Change:**  
Modification of flush type fuel caps for installation of a locking cylinder and keeper.  
(1964 and subsequent)

**Application Date:**

**Status:**  
Amended, 12/10/1997

**Responsible Office:**  
ACE-115A Atlanta Aircraft Certification Office Tel: (404) 474-5500

**TC Number -- Make -- Model:**

A17WE -- Aerostar Aircraft Corporation -- PA-60-600 (Aerostar 600)  
A17WE -- Aerostar Aircraft Corporation -- PA-60-601 (Aerostar 601)  
A17WE -- Aerostar Aircraft Corporation -- PA-60-601P (Aerostar 601P)  
A17WE -- Aerostar Aircraft Corporation -- PA-60-602P (Aerostar 602P)  
A17WE -- Aerostar Aircraft Corporation -- PA-60-700P (Aerostar 700P)  
770 -- Beech Aircraft Corporation -- D18C-T  
3A10 -- Cessna Aircraft Company, The -- 310 Series  
3A13 -- Cessna Aircraft Company, The -- 182 Series  
A13CE -- Cessna Aircraft Company, The -- 177A  
A13CE -- Cessna Aircraft Company, The -- 177B  
A13CE -- Cessna Aircraft Company, The -- 177  
A20CE -- Cessna Aircraft Company, The -- 177RG  
A22CE -- Cessna Aircraft Company, The -- 500  
A22CE -- Cessna Aircraft Company, The -- 550  
A22CE -- Cessna Aircraft Company, The -- S550  
A22CE -- Cessna Aircraft Company, The -- 552  
A22CE -- Cessna Aircraft Company, The -- 560  
A27CE -- Cessna Aircraft Company, The -- 551  
A27CE -- Cessna Aircraft Company, The -- 501



A28CE -- Cessna Aircraft Company, The -- 441  
A7CE -- Cessna Aircraft Company, The -- 421B  
A7CE -- Cessna Aircraft Company, The -- 402A  
A7CE -- Cessna Aircraft Company, The -- 421C  
A7CE -- Cessna Aircraft Company, The -- 421A  
A7CE -- Cessna Aircraft Company, The -- 421  
A7CE -- Cessna Aircraft Company, The -- 414A  
A7CE -- Cessna Aircraft Company, The -- 414  
A7CE -- Cessna Aircraft Company, The -- 411A  
A7CE -- Cessna Aircraft Company, The -- 411  
A7CE -- Cessna Aircraft Company, The -- 402C  
A7CE -- Cessna Aircraft Company, The -- 402B  
A7CE -- Cessna Aircraft Company, The -- 425  
A7CE -- Cessna Aircraft Company, The -- 402  
A7CE -- Cessna Aircraft Company, The -- 401  
A7CE -- Cessna Aircraft Company, The -- 401B  
A7CE -- Cessna Aircraft Company, The -- 401A  
A10CE -- Learjet Inc. -- Learjet 60  
A10CE -- Learjet Inc. -- Learjet 24D  
A10CE -- Learjet Inc. -- Learjet 24C  
A10CE -- Learjet Inc. -- Learjet 24B-A  
A10CE -- Learjet Inc. -- Learjet 24B  
A10CE -- Learjet Inc. -- Learjet 24A  
A10CE -- Learjet Inc. -- Learjet 24  
A10CE -- Learjet Inc. -- Learjet 24E  
A10CE -- Learjet Inc. -- Learjet 24F  
A10CE -- Learjet Inc. -- Learjet 29  
A10CE -- Learjet Inc. -- Learjet 55C  
A10CE -- Learjet Inc. -- Learjet 55B  
A10CE -- Learjet Inc. -- Learjet 36A  
A10CE -- Learjet Inc. -- Learjet 35A (C-21A)  
A10CE -- Learjet Inc. -- Learjet 35  
A10CE -- Learjet Inc. -- Learjet 24D-A  
A10CE -- Learjet Inc. -- Learjet 31  
A10CE -- Learjet Inc. -- Learjet 36  
A10CE -- Learjet Inc. -- Learjet 28  
A10CE -- Learjet Inc. -- Learjet 25F  
A10CE -- Learjet Inc. -- Learjet 25D  
A10CE -- Learjet Inc. -- Learjet 25C  
A10CE -- Learjet Inc. -- Learjet 25B  
A10CE -- Learjet Inc. -- Learjet 25A  
A10CE -- Learjet Inc. -- Learjet 25  
A10CE -- Learjet Inc. -- Learjet 24F-A  
A10CE -- Learjet Inc. -- Learjet 31A  
A10CE -- Learjet Inc. -- Learjet 55  
A5CE -- Learjet Inc. -- Learjet 23  
2A3 -- Mooney Aircraft Corporation -- M20J  
2A3 -- Mooney Aircraft Corporation -- M20G  
2A3 -- Mooney Aircraft Corporation -- M20F  
2A3 -- Mooney Aircraft Corporation -- M20E  
2A3 -- Mooney Aircraft Corporation -- M20D

2A3 -- Mooney Aircraft Corporation -- M20C  
2A3 -- Mooney Aircraft Corporation -- M20M  
2A3 -- Mooney Aircraft Corporation -- M20K  
2A3 -- Mooney Aircraft Corporation -- M20L  
A20SO -- Piper Aircraft, Inc., The New -- PA-31-300  
A20SO -- Piper Aircraft, Inc., The New -- PA-31-325  
A20SO -- Piper Aircraft, Inc., The New -- PA-31  
A20SO -- Piper Aircraft, Inc., The New -- PA-31-350  
A8EA -- Piper Aircraft, Inc., The New -- PA-31P  
A8EA -- Piper Aircraft, Inc., The New -- PA-31T  
A8EA -- Piper Aircraft, Inc., The New -- PA-31T1  
A8EA -- Piper Aircraft, Inc., The New -- PA-31T2  
A8EA -- Piper Aircraft, Inc., The New -- PA-31T3  
A8EA -- Piper Aircraft, Inc., The New -- PA-31P-350  
3A15 -- Raytheon Aircraft Company -- B36TC  
3A15 -- Raytheon Aircraft Company -- A36TC  
3A15 -- Raytheon Aircraft Company -- A36  
3A15 -- Raytheon Aircraft Company -- 36  
3A15 -- Raytheon Aircraft Company -- V35B  
3A15 -- Raytheon Aircraft Company -- V35A  
3A15 -- Raytheon Aircraft Company -- V35  
3A15 -- Raytheon Aircraft Company -- N35  
3A15 -- Raytheon Aircraft Company -- S35  
3A15 -- Raytheon Aircraft Company -- E33A  
3A15 -- Raytheon Aircraft Company -- K35  
3A15 -- Raytheon Aircraft Company -- J35  
3A15 -- Raytheon Aircraft Company -- H35  
3A15 -- Raytheon Aircraft Company -- G33  
3A15 -- Raytheon Aircraft Company -- F33C  
3A15 -- Raytheon Aircraft Company -- F33A  
3A15 -- Raytheon Aircraft Company -- E33C  
3A15 -- Raytheon Aircraft Company -- E33  
3A15 -- Raytheon Aircraft Company -- 35-C33A  
3A15 -- Raytheon Aircraft Company -- 35-C33  
3A15 -- Raytheon Aircraft Company -- 35-B33  
3A15 -- Raytheon Aircraft Company -- 35-A33  
3A15 -- Raytheon Aircraft Company -- 35-33  
3A15 -- Raytheon Aircraft Company -- P35  
3A15 -- Raytheon Aircraft Company -- F33  
3A15 -- Raytheon Aircraft Company -- M35  
3A16 -- Raytheon Aircraft Company -- D55A  
3A16 -- Raytheon Aircraft Company -- 58A  
3A16 -- Raytheon Aircraft Company -- 58  
3A16 -- Raytheon Aircraft Company -- A56TC  
3A16 -- Raytheon Aircraft Company -- 56TC  
3A16 -- Raytheon Aircraft Company -- E55  
3A16 -- Raytheon Aircraft Company -- D55  
3A16 -- Raytheon Aircraft Company -- 95-C55A  
3A16 -- Raytheon Aircraft Company -- 95-C55  
3A16 -- Raytheon Aircraft Company -- 95-B55B (T-42A)  
3A16 -- Raytheon Aircraft Company -- 95-B55A