

United States of America  
Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* **ST01659LA**

*This certificate issued to:*

Centurion Investments, Inc.  
dba AVMATS  
18377 Edison Avenue  
Chesterfield, Missouri 63005

*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 25\* of the Federal Aviation Regulations. \*Certification basis is set forth in Type Certificate Data Sheet.*

*Original Product - Type Certificate Number :*

A7EU

*Make:*

Mystere-Falcon and Fan Jet Falcon

*Model:*

Basic Fan Jet Falcon; Fan Jet Falcon Series C, D, E, F;  
Mystere-Falcon 20-C5, 20-D5, 20-E5, 20-F5

*Description of Type Design Change:*

Installation of Rosemount Pitot-Static Probes, Part Numbers 0856LR1 and 0856LR2, and Honeywell Air Data System comprised of AZ-252 Air Data Computers, dual BA-250 Altimeter Displays, and AL-800 Altimeter Alerter in accordance with Thunder Aviation, Inc. Master Drawing List 20-0100, Revision H dated December 3, 2004, or later FAA approved revision.

(See Continuation Sheet Page 3 of 3.)

*Limitations and Conditions:*

The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted airplane model series only. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to alter the product, the holder shall give the other person written evidence of that permission.

(See Continuation Sheet Page 3 of 3.)

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

*Date of application :* July 7, 2003

*Date reissued :* June 15, 2006; April 7, 2009

*Date of issuance :* August 24, 2004

*Date amended :* February 9, 2005; September 30, 2005;  
September 4, 2007



*By direction of the Administrator*

*Original signed by Steven Litke*

(Signature)

Steven Litke  
FAA Program Manager  
Wichita Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* **ST01659LA**

Date of Issuance: August 24, 2004  
Date Reissued: April 7, 2009

*Description of Type Design Change:* (continued)

For airplanes equipped with Collins Model AP-105 Autopilot, the FAA-approved Thunder Aviation Airplane Flight Manual Supplements FTA-TH-002022, Revision B dated February 7, 2005, and FTA-TH-002027, Revision IR dated August 23, 2004, or later FAA-approved revisions, are required. The associated Instructions for Continued Airworthiness (ICA) and FTA document FTA-TH-002012, Revision A dated July 7, 2004, or later FAA accepted revision.

For airplanes equipped with Honeywell Model SPZ-500 Autopilot, the FAA-approved Thunder Aviation Airplane Flight Manual Supplements FTA-TH-005022, Revision IR dated February 7, 2005, and FTA-TH-005023, Revision IR dated February 7, 2005, or later FAA-approved revisions, are required. The associated ICA is FTA Document FTA-TH-005012, Revision IR dated October 29, 2004, or later FAA accepted revision.

For airplanes equipped with King Model KFC-400 Autopilot, the FAA-approved Thunder Aviation Airplane Flight Manual Supplement FTS-TH-006027, Revision IR dated September 30, 2005, or later FAA-approved revisions are required. The associated ICA is FTA Document FTS-TH-006012, Revision IR dated July 10, 2005, or later FAA accepted revision.

For airplanes equipped with Collins APS-103 and APS-104 Autopilots, the FAA-approved Thunder Aviation Airplane Flight Manual Supplements FTA-TH-007022 and FTA-TH-007023, both dated December 14, 2005, or later FAA-approved revisions are required. The associated ICA is FTA Document FTA-TH-007012, Revision IR dated November 1, 2005, or later FAA accepted revision.

For airplanes equipped with Honeywell/Sperry SP-40 Autopilot, the FAA-approved Thunder Aviation Airplane Flight Manual Supplement TH-0607-T12, Revision IR dated August 16, 2007, or later FAA-approved revisions are required. The associated ICA is FTA Document ICA TH-0611-T01, Revision D dated August 3, 2007, or later FAA accepted revision.

*Limitations and Conditions:* (continued)

Fan Jet Falcon Airplanes

For Basic Fan Jet Falcon and Series C, D or E airplanes, Dassault Aviation Supplement No. 16 for airplanes equipped with corrected pitot-static probes (modification M2748) must be installed in the AFM.

For Series F airplanes, Dassault Aviation Specific Supplement No. 11 for Series F airplanes with corrected pitot-static probes must be installed in the AFM.

Mystere-Falcon 20-( )5 airplanes

For airplanes incorporating Dassault Aviation Service Bulletin F20-731, the pages with the applicability, Model 20-C5, 20-D5, 20-E5 or 20-F5 with pitot-static probes, must be installed in the AFM.

For airplanes incorporating Dassault Aviation Service Bulletin F20-735, the pages with the applicability, Model 20-C5, 20-D5, 20-E5 or 20-F5 with SB F20-735 (TFE 731-5BR) + pitot-static probes, must be installed in the AFM.

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Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.