

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

*Number* ST01904CH

*This certificate issued to* Royal Air, Inc.  
2141 Airport Road  
Waterford, MI 48327

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.* See Type Certificate Data Sheet No. A10CE amended by Special Conditions No. 25-227-SC, dated February 21, 2003, Docket No. NM240 for complete certification basis.

*Original Product - Type Certificate Number :* A10CE  
*Make :* Learjet Inc.  
*Model :* 24; 24A; 24B; 24B-A; 24C; 24D; 24D-A; 24E; 24F; 24F-A;  
25; 25A; 25B; 25C; 25D; 25F; 28; 35; 35A; 36; 36A.

*Description of Type Design Change:*

Installation of IS&S Air Data Display System, optional Analog Interface Unit, and Rosemount model 0856NA Pitot-Static Probes in accordance with Royal Air Top Drawing No. RACB72539, Revision 11, dated December 20, 2007 or later FAA approved revision.

*Limitations and Conditions :*

- 1) Compatibility of this design change with previously approved modifications must be determined by the installer.
  - 2) FAA Approved Airplane Flight Manual Supplement, Royal Air Doc. No. FTA-RL-004, Revision 1, approved June 14, 2004, or later FAA approved revision is required onboard modified Model 24 (series) aircraft.
  - 3) FAA Approved Airplane Flight Manual Supplement, Royal Air Doc. No. FTA-RL-006, Revision 1, approved June 14, 2004, or later FAA approved revision is required onboard modified Model 25 (series) aircraft.
  - 4) FAA Approved Airplane Flight Manual Supplement, Royal Air Doc. No. FTA-RL-008, Revision 2, approved January 9, 2006, or later FAA approved revision is required onboard modified Model 35, 35A, 36 and 36A aircraft.
- (See Continuation Sheet 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 :* November 1, 2002

*Date reissued :* December 18, 2003

*Date of issuance :* November 18, 2003

*Date amended :* March 5, 2004; June 14, 2004; January 4, 2005;  
April 15, 2005; April 19, 2005; August 15, 2005; January 10, 2006;  
April 18, 2008.



*By direction of the Administrator*

*Charles L Smalley*  
(Signature)

Charles L. Smalley  
Manager, Systems and Flight Test Branch  
Chicago Aircraft Certification Office

(Title)

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

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### TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number \_\_\_\_\_

to *(Name of transferee)* \_\_\_\_\_

*(Address of transferee)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and ZIP code)*

from *(Name of grantor) (Print or type)* \_\_\_\_\_

*(Address of grantor)* \_\_\_\_\_

*(Number and street)*

\_\_\_\_\_  
*(City, State, and ZIP code)*

Extent of Authority (if licensing agreement): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date of Transfer: \_\_\_\_\_

Signature of grantor *(In ink)*: \_\_\_\_\_

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

*Number* ST01904CH

Date Amended: March 5, 2004; June 14, 2004; January 4, 2005; April 15, 2005; April 19, 2005; August 15, 2005;  
January 10, 2006; April 18, 2008.

*Limitations and Conditions* . (Continued from Page 1 of 4)

- 5) FAA Approved Airplane Flight Manual Supplement, Royal Air Doc. No. FTA-RL-014, Revision "Original", approved April 18, 2005, or later FAA approved revision is required onboard modified Model 28 aircraft.
- 6) The installation is limited to Learjet model 24 (series), 25 (series) and 28 aircraft equipped with a FC-110 (J.E.T.) Autopilot and Learjet model 35, 35A, 36 and 36A aircraft equipped with a FC-200 (J.E.T.) Autopilot.
- 7) The installation is limited to Learjet model 24 (series) aircraft having one of the following installed Wings or Wing Modifications:
  - a) "Mark II" modification per STC SA232NW or SA253NW.
  - b) "Softflite 1" installed by Aircraft Modification Kit (AMK) 83-04 *Handling Qualities Improvement for Aircraft Not Equipped with Reduced Approach Speed System* on in-service aircraft S/N 24-100 thru 24-328, except 24-218.
  - c) "Century III" factory installed in production on S/N 24-329 thru 24-357 or factory installed Aircraft Accessory Kit (AAK) 76-04 *Reduced Approach Speed System Kit* on in-service aircraft S/N 24-100 thru 24-328.
  - d) "Softflite, Century III" installed by Aircraft Modification Kit (AMK) 83-05 *Installation of Wing Fences, Stall Strips, and Boundary Layer Energizers* on in-service aircraft S/N 24-100 thru 24-357 (S/N 24-100 thru 24-328 requires AAK 76-04 be installed).
  - e) "XR Drag Reduction System" modification per STC SA944NW.
- 8) The installation is not valid for Learjet model 25D/F aircraft, serial numbers 25-337, 25-352, 25-361, and 25-370 thru 25-372, and is limited to Learjet model 25 (series) aircraft having one of the following installed Wings or Wing Modifications:
  - a) "Mark II" modification per STC SA225NW.
  - b) "Softflite 1" installed by Aircraft Modification Kit (AMK) 83-04 *Handling Qualities Improvement for Aircraft Not Equipped with Reduced Approach Speed System*, on in-service aircraft S/N 25-003 thru 25-205.
  - c) "Century III" factory installed in production on S/N 25-206 thru 25-289 or factory installed Aircraft Accessory Kit (AAK) 76-04 *Reduced Approach Speed System Kit* on in-service aircraft S/N 25-003 thru 25-205.
  - d) "Softflite, Century III" factory installed in production on S/N 25-290 thru 25-369, excluding S/N 25-337, 25-352 and 25-361 or by Aircraft Accessory Kit (AAK) 79-10 or Aircraft Modification Kit (AMK) 83-05, both titled *Installation of Wing Fences, Stall Strips, and Boundary Layer Energizers*, on in-service aircraft S/N 25-003 thru 25-289 (S/N 25-003 thru 25-205 requires AAK 76-04 be installed).
  - e) "XR Drag Reduction System" modification per STC SA944NW.
- 9) The installation is limited to Learjet model 28 aircraft having the following installed Wings:
  - a) Longhorn "Century III" factory installed in production on S/N 28-001 thru 28-005.
  - b) Longhorn "Softflite, Century III" installed by Aircraft Accessory Kit (AAK) 79-10 or Aircraft Modification Kit (AMK) 83-05, both titled *Installation of Wing Fences, Stall Strips, and Boundary Layer Energizers*, on in-service aircraft S/N 28-001 thru 28-005.
- 10) The installation is limited to Learjet model 35 and 36 aircraft having the following installed Wing Modifications:
  - a) "Century III" factory installed Aircraft Accessory Kit (AAK) 76-04 *Reduced Approach Speed System Kit* on in-service aircraft S/N 35-002 thru 35-066 and S/N 36-002 thru 36-017.
  - b) "Softflite, Century III" factory installed Aircraft Accessory Kit (AAK) 79-10 or Aircraft Modification Kit (AMK) 83-05, both titled *Installation of Wing Fences, Stall Strips, and Boundary Layer Energizers*, on in-service aircraft S/N 35-002 thru 35-066 and S/N 36-002 thru 36-017
  - c) STC ST01468SE (Raisbeck Engineering Installation of the ZR Lite Drag Reduction System) has been determined to be compatible with the configurations described in 10a and 10b. Refer to Raisbeck engineering drawing number 202L-5700, Revision C, dated March 4, 2005, and FAA approved Flight Manual Supplement 204L-5780, Revision IR, approved March 4, 2005, or later FAA approved revisions.

(See Continuation Sheet 4)

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Date Amended: March 5, 2004; June 14, 2004; January 4, 2005; April 15, 2005; April 19, 2005; August 15, 2005;  
January 10, 2006; April 18, 2008.

*Limitations and Conditions* : (Continued from Page 3 of 4)

- 11) The installation is limited to Learjet model 35A and 36A aircraft having the following installed Wings:
  - a) "Century III" factory installed in production on S/N 35-067 & Subsequent and 36-018 & Subsequent.
  - b) "Softflite, Century III" factory installed in production on S/N 35-279 & Subsequent and S/N 36-045 & Subsequent or by Aircraft Accessory Kit (AAK) 79-10 or Aircraft Modification Kit (AMK) 83-05, both titled *Installation of Wing Fences, Stall Strips, and Boundary Layer Energizers*, on in-service aircraft S/N 35-067 thru 35-278 and S/N 36-018 thru 36-044.
  - c) STC ST01468SE (Raisbeck Engineering Installation of the ZR Lite Drag Reduction System) has been determined to be compatible with configurations described in 11a and 11b. Refer to Raisbeck engineering drawing number 202L-5700, Revision C, dated March 4, 2005, and FAA approved Flight Manual Supplement 204L-5780, Revision IR, approved March 4, 2005, or later FAA approved revisions.
- 12) The installation is limited to Learjet model 36A, serial number 044, having the following installed Wing Modification:
  - a) "Mark IV" modification per STC SA766NW.
- 13) If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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