

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
Number ST02538LA

Sierra Industries, Ltd.
This Certificate issued to: 122 Howard Langford Drive
Uvalde, Texas 78801

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.

Original Product – Type Certificate Number: A16SW
Make: Beechcraft Corporation
Model: 400A

Description of Type Design Change:

Replacement of Pratt and Whitney JT15D-5 series engines with Williams International FJ44-4A-32 engines with Full Authority Digital Electronic Control (FADEC) and associated systems, in accordance with Sierra Industries, Ltd. Master Drawing List No. 194-005, Rev. E dated June 16, 2015, or later FAA approved revisions. FAA Approved Airplane Flight Manual Supplement 194-190, dated June 16, 2015, or later FAA approved revisions is required.

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. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit to another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission. (See Continuation on Page 3 and 4)

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: December 28, 2009

Date reissued:

Date of issuance: June 18, 2015

Date amended:

By direction of the Administrator



(Signature)

Ronald Atmur
Manager, Propulsion Branch
Los Angeles 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.

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Limitations and Conditions continued:

Instructions for Continued Airworthiness (ICA), Document No. 194-801 and Instructions for Continued Airworthiness (ICA, EWIS), Document No. 194-806 Rev. C dated May 15, 2015, or later FAA approved revision, must be made available to the operator at the time of installation.

Certification Basis:

Based on 14 CFR §§ 21.115 & 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certifications basis for the Beechcraft Corporation Model 400A is as follows:

- a. The type certification basis for Beechcraft Corporation 400A series airplanes is shown on TCDS A16SW for parts not changed or not affected by the change with Special Conditions 25-ANM-32 and 25-ANM-33.
- b. The certification basis for parts changed or affected by the change since the reference date of application, December 28, 2009, is based upon the original certification basis for the Model 400A. Based on 14 CFR § 21.101 and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification determined to be:

Regulations at a later amendment for components and areas affected by the change:

Subpart A - General: § 25.5(a)(b)(25-125)

Subpart B - Flight: §§ 25.21(25-72), 25.25(25-63), 25.29(25-72), 25.119(25-84), 25.121(25-84), 25.125(25-84), 25.145(25-84), 25.149(25-84), 25.201(25-42), 25.207(25-42), 25.233(25-94), 25.237(25-42), 25.251(25-77),

Subpart C - Structure: §§ 25.305(e) (25-23), 25.307(25-72), 25.321(25-86), 25.331(25-91), 25.333(25-86), 25.361(a)(b)(c)(25-72), 25.561(25-91), 25.571(25-45)

Subpart D - Design and Construction: §§ 25.603(25-46), 25.605(25-46), 25.611(25-123), 25.629(25-77), 25.725(25-103), 25.727(25-103), 25.777(25-46), 25.863(25-46), 25.869(a) (25-123), 25.899(25-123)

Subpart E - Powerplant: §§ 25.901(25-126), 25.903(25-100), 25.951(25-73), 25.961(25-57), 25.994(25-57), 25.997(25-57), 25.1021(25-57), 25.1043(25-42), 25.1045(25-57), 25.1091(25-100), 25.1093(25-72), 25.1103(25-46), 25.1141(25-115), 25.1143(25-57), 25.1163(25-57), 25.1165(25-72), 25.1181(25-115), 25.1183(25-101), 25.1185(25-94), 25.1189(25-57), 25.1195(25-46), 25.1203(25-123), 25.1207(25-46)

Subpart F - Equipment: §§ 25.1301(25-123), 25.1305(d)(3)(25-115), 25.1307(c)(25-72), 25.1309(25-123), 25.1316(25-80), 25.1317(25-122), 25.1321(25-41), 25.1351(a)(d)(25-72), 25.1353(a)(c)(25-123), 25.1357(25-123), 25.1360(25-123), 25.1381(25-72), 25.1431(25-113), 25.1438(25-41)

Subpart G - Operating Limitations and Information: §§ 25.1521(25-72), 25.1527(25-105), 25.1529(25-54), 25.1543(25-72), 25.1551(25-72), 25.1557(b)(25-72), 25.1581(25-72), 25.1583(b)(25-105), 25.1585(25-105)

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Subpart H - Electrical Wiring Interconnection Systems (EWIS): §§ 25.1701(25-123), 25.1703(25-123), 25.1705(a)(b)(3)(5)(7)(8)(9)(12)(25-123), 25.1707(a)(c)-(i)(b)(25-123), 25.1709(25-123), 25.1711(25-123), 25.1713(c)(25-123), 25.1715(25-123), 25.1717(25-123), 25.1719(25-123), 25.1721(b)(25-123), 25.1723(25-123), 25.1725(25-123), 25.1729(25-123), 25.1731(25-123), 25.1733(25-123).

c. Aircraft fuel venting as shown on TCDS A16SW, 14 CFR part 34.11 basic issue.

d. The modified aircraft meets 14 CFR part 36 as amended by Amendment 36-28

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