United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA18NW

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

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 3 *of the* Civil Air *Regulations.*
See TC Data Sheet A7CE.

Original Product Type Certificate Number: A7CE

Make: Cessna

Model: 421, 421A, 421B

Description of Type Design Change:
Installation of Fowler flaps, flap actuated drooped ailerons, flap actuated elevator trim and anti-servo rudder trim tab in accordance with FAA Sealed Robertson Aircraft Drawing List No. 24. FAA Approved Robertson Aircraft Airplane Flight Manual Supplement is required for the modified aircraft.

Limitations and Conditions:

(See continuation sheets)

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: March 29, 1972

Date of issuance: November 17, 1972

Date reissued: 11/8/84; 10/10/86; 9/8/05

Date amended: 4/13/73; 10/10/74

By direction of the Administrator

(*Signature*)
S. Frances Cox, Manager
Special Certification Office,
Southwest Region

(*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.

Supplemental Type Certificate

(Continuation Sheet)

Number SA18NW

Date of Issuance: November 17, 1972
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate and Addendum No. SA18NW shall be maintained as part of the permanent records for the modified aircraft.

The conditions and limitations of Type Certificate Data Sheet No. A7CE apply except as follows:

This STC Addendum, which is a part of Supplemental Type Certificate No. SA18NW prescribes conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this STC Addendum is required to be maintained as part of the modified aircraft's permanent records.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER — R/STOL SYSTEMS, INC.

IV. Model 421 (Normal Category)
Model 421A (Normal Category)

Airspeed Limits (CAS)

Flaps Extended 10°	195 MPH
Flaps Extended 30°	145 MPH

Control Surface Movements

Wing Flaps	Down 10° ± 1°
	Down 3° +1°, -2°

Main Surface
Ailerons

Flap Position	Droop Neutral	Aileron Travel From Droop Neutral	
0°	0° ± 1°	Up 20° +1°, -0°	Down 20° +1°, -0°
10° + 1°, -1°	8° ± 2°	Up 12° ±2°,	Down 28° ±2°
30° + 1°, -2°	8° ± 2°	Up 12° ±2°,	Down 28° ±2°

Rudder – No change.

Supplemental Type Certificate

(Continuation Sheet)

Number SA18NW

Date of Issuance: November 17, 1972
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

Tab (Main Surface in neutral, measured normal to rudder hinge line)

Rudder

Rudder Position	Trim Position	Tab Position *
0°	0°	0°
25° + 1° - 0° Right	0°	5° ± 1° Right
25° + 1° - 0° Left	0°	3° ± 1° Left
0°	Full Right	16° + 1° - 0° Left
0°	Full Left	11° + 1° - 0° Right

*Measured from Rudder surface.

VI. Model 421B (Normal Category)

Airspeed Limits (CAS)

Same as IV Above

Control Surface Movements

Wing Flaps

Same as IV Above

Main Surface

Ailerons – Same as IV Above

Rudder

32° +1°, -2° Left

32° +1°, -2° Right

Supplemental Type Certificate

(Continuation Sheet)

Number SA18NW

Date of Issuance: November 17, 1972
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

Tab (Main surface in neutral, measured normal to rudder hinge line)

Rudder:

Rudder Position	Trim Position	Tab Position*
0°	0°	0°
32° +1° -2° Right	0°	6° + 1° - 0° Right
32° +1° -2° Left	0°	3° +1° -0° Left
0°	Full Right	18° +1° -1° Left
0°	Full Left	13° +1° -1° Right

*Measured from rudder surface.

NOTE 2. THE PLACARDS SPECIFIED IN THE FAA APPROVED CESSNA AIRPLANE FLIGHT MANUAL MUST BE DISPLAYED PLUS THE FOLLOWING CHANGES MADE BY THE FAA APPROVED R/STOL SYSTEMS, INC. AIRPLANE FLIGHT MANUAL SUPPLEMENT.

A. Maximum Flap Extension Speed 10° Flap: 195 (CAS) 170 KCAS

B. Maximum Flap Extension Speed 30° Flap: 145 (CAS) 126 KCAS

C. Minimum Single Engine Control Speed

421, 421A	Flaps 10° 95 MPH CAS (83 KCAS) Flaps Up 106.5 MPH CAS (93 KCAS) Red Radial
421B	Flaps 10° 92 MPH CAS (80 KCAS) Flaps Up 100 MPH CAS (87 KCAS) Red Radial

D. Warning – Flaps up prior to opening door. (Except 421B)

-END-

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