United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA1627WE

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 as specified on the appropriate Type Certificate Data Sheet for each model as specified below.

Original Product Type Certificate Number: A6CE or A23EU

Make: Cessna

Model: 337, 337A(USAF 02B), 337B, M337B(USAF 02A), 337C, T337B, T337C, 337D, T337D, 337E, T337E, 337F, T337F, 337G, T337G, 337H, T337H, T337H-SP, P337H, AND FT337GP

Description of Type Design Change:
Optional takeoff gross weight increase for Models 337, 337A(USAF 02B), 337B, M337B(USAF 02A), T337B, 337C, T337C, 337D, T337D, 337E, T337E and T337F. For all models, installation of drooped ailerons in flaps down mode, recontoured wing leading edge, stall fence, aileron centering springs, conical cambered wing tips and flap actuated elevator trim spring, in accordance with FAA Sealed Robertson Aircraft Drawing List No. 14.

Limitations and Conditions:

(See continuation sheet 3 of 8)

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: October 25, 1967

Date of issuance: March 05, 1968

Date reissued: 1/15/69; 1/16/73; 11/5/73; 11/8/84; 10/10/86; 9/8/05

Date amended: 7/2/68; 9/25/68; 2/26/69; 8/4/69; 4/3/70; 2/26/71; 12/3/71; 1/16/73; 7/13/78; 10/10/78; 4/1/80; 9/25/80; 12/30/85

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.

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Supplemental Type Certificate

(Continuation Sheet)

Number SA1627WE

Date of Issuance: March 05, 1968
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

The approval of this change in type design applies basically to the above model aircraft only. 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 other type design changes or previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate and Addendum SA1627WE shall be maintained as part of the permanent records for the modified aircraft.

The appropriate conditions and limitations of Type Certificate Data Sheet A6CE or A23EU apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA1627WE prescribes conditions and limitations under which the product for which the STC was issued meets the appropriate airworthiness requirements. A copy of this Addendum shall be maintained as part of the modified aircraft permanent records.

Supplemental Type Certificate Holder: R/STOL SYSTEMS, INC.

I. Model 337, (Normal Category), Approved October 8, 1964
Model 337A(USAF 02B), (Normal Category), Approved August 11, 1965

*Airspeed Limits

Never Exceed	219 mph (190 knots)
Max. Structural Cruising	178 mph (155 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	150 mph (130 knots)
Landing Gear Extended	140 mph (122 knots)

C.G. Range (Landing Gear Extended)
(+137.8) to (+142.5) at 4421 lb.
(+134.5) to (+142.5) at 3500 lb. or less straight line variation between points given.

*Maximum Weight
Take-off 4421 lb., landing 4200 lb.
All weight above landing weight must be carried as fuel in wing tanks.

Control Surface Movements
Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	25° DN

Supplemental Type Certificate

(Continuation Sheet)

Number SA1627WE

Date of Issuance: March 05, 1968
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

II. Model 337B, (Normal Category) Approved June 22, 1966
Same conditions and limitations as Model T337B.

III. Model T337B, (Normal Category) Approved October 25, 1966
*Airspeed Limits

Never Exceed	221 mph (190 knots)
Max. Structural Cruising	180 mph (156 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	152 mph (132 knots)
Landing Gear Extended	140 mph (122 knots)

C.G. Range (Landing Gear Extended)
(+137.7) to (+143.3) at 4525 lb.
(+134.5) to (+143.3) at 3600 lb. or less straight line variation between points given.

*Maximum Weight
Take-off 4525 lb., Landing 4300 lb.
All weight above landing weight must be carried as fuel in wing tanks.

Control Surface Movements
Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	25° DN

IV. Model 337C, (Normal Category) Approved September 15, 1967
*Airspeed Limits

Never Exceed	225 mph (196 knots)
Max. Structural Cruising	183 mph (159 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	155 mph (135 knots)
Landing Gear Extended	140 mph (122 knots)

*Maximum Weight
Take-off 4630 lb., Landing 4400 lb.
All weight above landing weight must be carried as fuel in wing tanks.

Control Surface Movements
Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN

Supplemental Type Certificate

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25°	11°	10° UP	25° DN

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Number SA1627WE

Date of Issuance: March 05, 1968
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

V. Model T337C, (Normal Category) Approved September 15, 1967

*Airspeed Limits

Never Exceed	225 mph (196 knots)
Max. Structural Cruising	183 mph (159 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	155 mph (135 knots)
Landing Gear Extended	140 mph (122 knots)

C.G. Range (Landing Gear Extended)
(+138.4) to (+143.3) at 4700 lb.
(+134.5) to (+143.3) at 3600 lb. or less

*Maximum Weight
Take-off 4700 lb., Landing 4465 lb.
All weight above 4,500 pounds must be carried as fuel in wing tanks.

Control Surface Movements
Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	25° DN

VI. Model 337D, (Normal Category) Approved July 23, 1968

*Airspeed Limits

Never Exceed	225 mph (196 knots)
Max. Structural Cruising	183 mph (159 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	155 mph (135 knots)
Landing Gear Extended	140 mph (122 knots)

C.G. Range (Landing Gear Extended)
(+138.6) to (+143.0) at 4630 lb.
(+134.5) to (+143.0) at 3837 lb. or less

*Maximum Weight
Take-off 4630 lb., Landing 4400 lb.
All weight above landing weight must be carried as fuel in wing tanks.

Control Surface Movements
Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	25° DN

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Number SA1627WE

Date of Issuance: March 05, 1968
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

VII. Model T337D, (Normal Category) Approved July 23, 1968

*Airspeed Limits

Never Exceed	225 mph (196 knots)
Max. Structural Cruising	183 mph (159 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	155 mph (135 knots)
Landing Gear Extended	140 mph (122 knots)

C.G. Range (Landing Gear Extended)
(+138.7) to (+143.0) at 4700 lb.
(+134.7) to (+143.0) at 3837 lb. or less

*Maximum Weight
Take-off 4700 lb., Landing 4465 lb.
All weight above 4500 lb. must be carried as fuel in wing tanks.

Control Surface Movements
Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	25° DN

VIII. Model M337B (USAF 02A), (Normal Category), Approved March 22, 1967
Same conditions and limitations as Model T337B

IX. Model 337E, (Normal Category), Approved August 5, 1969

*Airspeed Limits

Never Exceed	225 mph (196 knots)
Max. Structural Cruising	183 mph (159 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	155 mph (135 knots)
Landing Gear Extended	160 mph (139 knots)

C.G. Range (Landing Gear Extended)
(+138.6) to (+143.0) at 4630 lb.
(+134.5) to (+143.0) at 3837 lb. or less

*Maximum Weight
Take-off 4630 lb., Landing 4400 lb.
All weight above 4,440 pounds must be carried as fuel in wing tanks.

Supplemental Type Certificate

(Continuation Sheet)

Number SA1627WE

Date of Issuance: March 05, 1968
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

Control Surface Movements

Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	25° DN

X. Model T337E, (Normal Category), Approved August 5, 1969
Model T337F, (Normal Category), Approved September 8, 1970

*Airspeed Limits

Never Exceed	228 mph (198 knots)
Max. Structural Cruising	183 mph (159 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	155 mph (135 knots)
Landing Gear Extended	160 mph (139 knots)

C.G. Range (Landing Gear Extended)
(+138.7) to (+143.0) at 4700 lb.
(+134.5) to (+143.0) at 3837 lb. or less

*Maximum Weight
Take-off 4700 lb., Landing 4465 lb.
All weight above 4630 lb. must be carried as fuel in wing tanks.

Control Surface Movements

Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	25° DN

XI. Model 337F, (Normal Category), Approved September 8, 1970

*Airspeed Limits

Never Exceed	228 mph (198 knots)
Max. Structural Cruising	183 mph (159 knots)
Flaps Extended	108 mph (94 knots)
Maneuvering	155 mph (135 knots)
Landing Gear Extended	160 mph (139 knots)

Control Surface Movements

Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	25° DN

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Date of Issuance: March 05, 1968
Reissuance Date: September 8, 2005

Limitations and Conditions (Continued):

XII. Model T337G, (Normal Category), Approved February 2, 1972, and Model FT337GP (Normal Category), Approved June 22, 1973.

*Airspeed Limits

*Flaps Extended 1/3	141 KIAS (139 KCAS)
*Flaps Extended Full	94 KIAS (139 KCAS)

Control Surface Movements (No Change Except)

Ailerons (±2°)

Flap Position	Aileron Droop Position	Aileron Movement	
0°	0°	20° UP	14° DN
20°	13°	8° UP	27° DN
25°	11°	10° UP	27° DN

Center of Gravity Limits (No Change Except):

AFT C.G. Limit (+140.0) at all weights

Fuel Capacity (Applies only to airplane models equipped with long range fuel tanks).

*145.2 gal. (142.6 gal. usable) (2 tanks 72.6 gal. each at +150)

XIII. Model 337G, (Normal Category), Approved December 18, 1972
Same conditions and limitations as Model T337G

XIV. Model 337H and T337H, (Normal Category), Approved June 6, 1978, and October 10, 1978, respectively
Same conditions and limitations as Model T337G

XV. Model P337H (Normal Category), Approved September 11, 1980
Same conditions and limitations as Model T337G

XVI. Model T337H-SP (Normal Category), Approved April 1, 1980
Same conditions and limitations as Model T337G

* Items marked by an asterisk under Sections I thru XVI must be permanently displayed as placards or markings.

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