

DepartmentofTransportation\_FederalAviationAdministration

## Supplemental Type Certificate

*Number* SA00243SE

*This certificate, issued to* **STC LIMITED**  
**E. 6427 Rutter Road, Felts Field**  
**Spokane, WA 99212**

*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.*

*Original Product—Type Certificate Number:* 2A3  
*Make:* Mooney Aircraft Corporation  
*Model:* M20K

*Description of the Type Design Change:* Gross weight increase of the Mooney M20K as modified per STC SA5691NM

NOTE: This STC requires the installation of the Continental TSIO-520-NB engine in accordance with STC SA5691NM.

*Limitations and Conditions:* Approval of this change in type design applies 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 relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate, and FAA Approved Airplane Flight Manual Supplement (AFMS) dated May 22, 2001, or later FAA approved revision, must be maintained as part of the permanent records for the modified aircraft.  
**(See "Continuation Sheet", Page 3)**

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.

*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 29, 1994

*Date reissued:* September 20, 1999

*Date of issuance:* October 23, 1995

*Date amended:* June 13, 2001



*By direction of the Administrator*

(Signature)

Manager, Seattle 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.

*This certificate may be transferred in accordance with FAR 21.47.*

# Supplemental Type Certificate

## (Continuation Sheet)

*Number* SA00243SE

*Issued to:* STC LIMITED

Re-issued: September 20, 1999

Amended: June 13, 2001

*Limitations and Conditions continued:* This continuation sheet, which is part of STC No. SA00243SE, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness of the Federal Aviation Regulations (FAR).

The conditions and limitations of the Type Certificate Data Sheet No. 2A3 and STC SA5691NM apply except where superseded by the following:

Tires: The McCreary tire models Airtrack, P/N 30602, and Airhawk, P/N 30842, are not Acceptable for use on the nose wheel.

Airspeed Limits (CAS):	Maximum Structural Cruising Speed ( $V_{NO}$ )
	2900 lbs. and below.....174 knots
	2901 to 3017 lbs.....170 knots
	3018 to 3200 lbs.....166 knots

CG Range:	Takeoff and Flight
	+40.6 to +49.3 at 2360 lbs. or less
	+43.5 to +49.3 at 2900 lbs.
	+45.1 to +49.0 at 3040 lbs.
	+45.6 to +48.7 at 3200 lbs.
	Straight line variation between points given

Placards: The following placard must be located adjacent to the airspeed indicator:

Maximum structural cruising Speed ( $V_{NO}$ )
2900 lbs. and below.....174 knots
2901 to 3017 lbs.....170 knots
3018 to 3200 lbs.....166 knots

Maximum Weights:	Takeoff.....3200 lbs.
	Landing.....3040 lbs.
	Any weight above 2900 pounds must be from fuel in the wing tanks.

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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.*

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