

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

*Number* SA4221SW

*This certificate, issued to* S-TEC Corporation  
Rt. 3, Bldg. 946  
Wolters Industrial Complex  
Mineral Wells, Texas 76067

*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:* 3A12

*Make:* Cessna

*Model:* 172M, 172N, S/N 17269309 and below

*Description of Type Design Change:* Installation of S-TEC System 60 Two Axis Automatic Flight Guidance System, Model ST-019 in accordance with Bulletin No. 122, Revision 2, dated 5/4/81 and Master Drawing List No. 9219, Revision B, dated 5/4/81 with optional Flight Director/Steering Horizon Installation according to Bulletin No. 120, dated 6/2/80 and Master Drawing List No. 9209, dated 6/2/80 and optional Vertical Speed Indicator/Selector according to Bulletin No. 121, dated 6/2/80 and Master Drawing List No. 9210, dated 6/2/80, or later FAA approved revision. (14 Volt System)

*Limitations and Conditions:*

1. FAA Approved Supplemental Flight Manual P/N 8917 dated 10-27-80 is required with S-TEC System 60 Two Axis Automatic Flight Control System Model ST-019.
2. Compatibility of this modification with other previously approved modifications must be determined by the installer.

*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 14, 1980

*Date reissued:* June 3, 1981

Revision 1

*Date of issuance:* October 27, 1980

*Date amended:*



*By direction of the Administrator*

*Don P. Watson*

(Signature)

Don P. Watson  
Chief, Engineering and Manufacturing Branch

(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.*