

STANDARD FORM NO. 107
 Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA1219EA

This certificate issued to **Sensenich Corporation**
 P.O. Box 1168
 Lancaster, Pennsylvania

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

Original Product - Type Certificate Number **3A19**
 Make **Cessna**
 Model **152**

Description of Type Design Change:
 Installation of a Sensenich Model 72CK56-0-56 or -54 metal propeller and a S72CK spinner assembly in accordance with Sensenich Corporation Drawing C-2309A Revision B dated June 4, 1980.

Limitations and Conditions: 1. For aircraft serial numbers up to and including 152-82031, the following propeller limits must be displayed in cockpit:
 a. Propeller Diameter not over 72 inches; not under 70 inches.
 b. Static RPM limits at maximum permissible throttle settings; Not over 2275 not under 2100.
 c. Maximum RPM except takeoff and climb (FAR 36 cruise maximum continuous power limit) 2440 RPM.

2. For aircraft serial numbers 152-82032 and above FAA approved Sensenich Flight Manual Supplement No. 1 dated January 20, 1981 is required. (con)

This certificate and the supporting data which is the basis for approval shall remain in effect until suspended, annulled, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Federal Aviation Administration

Date of application: **March 18, 1980**

Date received:

Date of issuance: **January 20, 1981**

Date annulled:

By direction of the Administrator

Raymond J. Borowski
 (Signature)

Chief, Engineering & 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.

*A Form 8170-210-481

PAGE 1 OF 2 PAGES

SUPPLEMENT NO. 1
 To Cessna Model 152 FAA
 Approved Airplane Flight Manual
 FOR
 Sensenich 72CK56-0-56 or -54 Metal Propeller and S72CK Spinner Assembly

Reg. No. _____
 Serial No. _____

This supplement is applicable to Cessna Model 152 aircraft with serial numbers 152-82032 and above. It must be attached to the FAA Approved Airplane Flight Manual dated July 1, 1978, when the Sensenich 72CK56-0-56 or -54 metal propeller and 72CK spinner (assembly) is installed in accordance with STC SA1219EA dated January 20, 1981.

This supplement contains the limitations and operating procedures, both normal and emergency, for the Sensenich 72CK56-0-56 or -54 metal propeller and S72CK spinner assembly installation when operating in accordance with this supplement. These limitations and procedures are in addition to, or in place of those contained in the basic FAA Approved Airplane Flight Manual.

W. J. Bray
 FAA Approved *Raymond J. Borowski*
 Chief, Engineering & Manufacturing Branch, AEA-210

Date January 20, 1981

LOG OF REVISIONS

*Revised Pages

Rev No.	Pages No.	Date	Description	Approved

I LIMITATIONS:

Propeller: Sensenich Model 72CK56-0-56 or -54.
 Diameter: Not over 72in.; not under 70in.
 Static RPM limits at maximum permissible throttle setting - not over 2275; not under 2100.
 Engine limits: Take off power 2550 RPM.
 FAR 36 Noise Certification Maximum continuous power - 2440 RPM

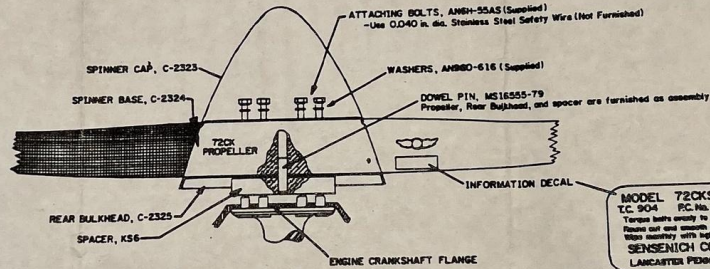
II Procedures - No change.

III Emergency Procedures - No change.

IV Performance - Performance is equivalent to an unmodified Model 152.

SENENICH CORPORATION
LANCASTER, PENNSYLVANIA

DRAWING NO. B-1732 (Equivalent to dwg. C-2309A, rev. B: Assembly of S72CK56 Spinner/Propeller)



INSTALLATION NOTES:

- (1) Install propeller, rear bulkhead, and spacer assembly on engine flange. Position spinner base (C-2324), and insert propeller attaching bolts (6 ea. AN64-55AS bolts and AN660-616 washers, furnished).
- (2) Assemble spinner base to rear bulkhead (6 stainless steel pan-head screws/fiber washers and 4 screw/fiber washers/lock-nut assemblies furnished) *11-305-107, 364-107*
- (3) Tighten propeller attaching bolts (280 to 300 in.-lb.). Install 0.040 in. dia. stainless steel safety wire (not furnished).
- (4) Install spinner cap (C-2323, 6 stainless steel pan-head screws/fiber washers furnished)
- (5) Net DECREASE in aircraft moment (Cessna 152, empty), when McCauley 1A103/TCM6958 propeller and Cessna spinner (Dwg. O450073) are removed and Senenich S72CK56-O-54 or -56 spinner/propeller assembly is installed is 117 lb.-in. (propeller arm is -36.5 inches). Net decrease in useful load is 3.2 lb.

R.E.B.(2-5-81)