

**Installation
Operation
Service**

**propeller owner's
manual
& log book**

for PIPER AIRCRAFT

MANUAL 107-R - DOA - FAA APPROVED

This Manual Will Be Periodically Updated

June 1980

Hartzell

**DESCRIPTION OF ALL OPERATIONS
PERTAINING TO AIRWORTHINESS DIRECTIVES,
SERVICE BULLETINS, SERVICE LETTERS,
& MINOR ADJUSTMENTS**

DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
12-21-92	1542 DTSH	<p><i>Propeller</i></p> <p>I CERTIFY THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr./ANNUAL INSPECTION AND FOUND <i>airworthy condition</i> APPROVED FOR RETURN TO SERVICE.</p> <p>DATE: <u>12-21-92</u> TACH TIME: <u>1542 DT</u></p> <p><i>Michael A. Aslinger I.A.</i></p> <p>Michael A. Aslinger A&P 415900829</p>	
12-17-93	1745.1	<p>Conduct 100 hr. annual inspection in accordance with Piper PA32R-301 Shopper's Guide, installed proper fiber washers on spinner attach screws, blend wicks from blades, <i>propeller</i> painted first faces. AD's checked thru this date.</p> <p>I CERTIFY THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr./ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.</p> <p>DATE: <u>12-17-93</u> TACH TIME: <u>1745.1</u></p>	

James E. Gray
James E. Gray A&P 138284092

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DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
2-10-95	1888.5	Conduct 100 hr/Annual inspection in accordance with Piper PA-32-R-301/3017 inspection report. Lubricated hub, blended blades. Checked AD's thru this date. Ground operational checks. Leak check OK. END	
		propeller	
		I CERTIFY THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr./ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.	
		DATE: 2-10-95 TACH TIME: 1888.5	
		James E. Gray A&P 138784092	
		James E. Gray For: Krystal Austin Chattanooga, TN	

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DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
10/27/95	2007	Propeller overhauled By ATLANTA Propeller serviced Reinstalled & GROUND RUN SATISFACTORY	
		CHATTANOOGA AERO SERVICE INC. LOVELL FIELD CHATTANOOGA, TENNESSEE REPAIR STATION #DX4R144M	
			Kenell 6 4/128604175 P
12-10-96	2262.0	I certify that this propeller was inspected I/A/W an Annual Inspection and was found to be in an airworthy condition QAS/Atlanta #1258509677 JK END	

DESCRIPTION OF ALL OPERATIONS
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SERVICE BULLETINS, SERVICE LETTERS,
CARPET CAPITAL AVIATION

N 82090 PIPER SARATOGA PA32R-301 S/N 32R-82 13048

DATE: 12-04-97 TACH: 2520.2 TSOH: 513.2 TT: 2520.2

I certify that this propeller has been inspected I/A/W an ANNUAL INSPECTION per Piper Check list and was found to be in an airworthy condition.

O. H. HALMAN ***** END *****

1-27-99

T.T. Smith 782.5

TTSN 2789.5

I CERTIFY THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.

DATE: 1-27-99 TACH TIME: 2789.5

Robert E. Sutton
AIP 408683053IA

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DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
2/5/99	2806.4	Dynamically balanced propeller - IAW Hartzell DB 148B and ACES Prop balance Instruction. An additional 8.102 at 620	
		Resulted in .14 IPS at 2300 RPM	AIP 410591787
		— END —	Maet Thompson
6-27-00	3009.5	I CERTIFY THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.	
		DATE: 6-27-00 TACH TIME: 3009.5	Robert E. Sutton
			AIP 408683053IA

DESCRIPTION OF ALL OPERATIONS
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DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
7-2-01	3339.5	<p><i>Propeller</i></p> <p>I CERTIFY THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr ANNUAL INSPECTION AND FOUND AIRWORTHY. APPROVED FOR RETURN TO SERVICE.</p> <p>DATE: <u>7-2-01</u> TACH TIME: <u>3339.5</u></p>	<p><i>Robert E. Sutton</i></p> <p>ATP 4086830532A</p>
7/1/02	3546.0	<p>I certify that this <i>Propeller</i> has been inspected in accordance with a <i>Annual</i> inspection and is approved for return to service.</p> <p><i>James O. Looney</i></p> <p>A & P 4158466701A</p>	
FEB 14, 2007	3936.8	<p>I certify that this propeller has been inspected IAW an Annual Inspection and is deemed airworthy at this date.</p> <p>Daniel F. Rembach ATP 308767165 IA.</p>	DR.

April 3, 2009 TACH 3991.2 I certify that this propeller has been inspected IAW an Annual Inspection and is deemed airworthy at this date.

Propeller Installation Instructions *DR.*

The Compact propellers are manufactured with five basic flange mountings: "F" flange, "L" flange, "K" flange, "R", and "N".

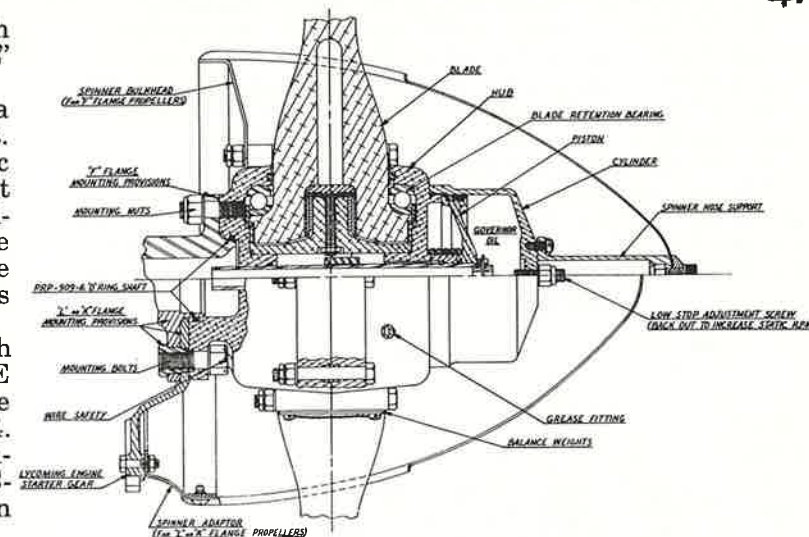
The "F" flange has six 1/2-inch studs on a 4-inch bolt circle, plus two 1/2-inch dowel pins. These dowel pins are located to provide a specific angular relationship of the propeller with respect to the crankshaft, made necessary by the vibrational characteristics of the combination. The particular dowel pin location is identified by the first letter in the hub model designation, such as BHC-C2YF.

The "L" flange is an SAE No. 2 flange with 7/16-inch studs; while the "K" flange is also SAE No. 2 flange with 1/2-inch studs. The "R" is same as "K" except it has 5 drive bushings, instead of 4.

Propeller models HC-F4Y(R, F, N)-2 are similar in construction and operation to models HC-F(2, 3)Y(R, F, N)-2(UF) previously described in this manual.

Please note these propellers utilize an air charge and counterweights and a feather spring assist although the letter "U" is not incorporated in the model design. Refer to the section covering "Operating Advisory for Air-Charged Propellers" for control procedures.

The letter "F" which normally designates the pitch change knob design is approved for use. The "F" is still required on the blade design to distinguish between large and small knob blades. Only the large knob blade is approved for use in these propellers.



A. Installation of "F" and "N" Flange

Models—()HC-C()Y()-1, -2, -4
()HC-J()YF-1()-, -2, -4
()HC-L()YF-1()-, -2, -4
()HC-H()Y()-1, -2, -4

1. Install the spinner bulkhead on the propeller hub, using the four long bolts which clamp the two halves together. In most cases, extra long bolts are furnished with the spinner, together with the proper spacers.