

HARTZELL

**Propeller Owner's
Manual & Log Book**

HARTZELL PROPELLER INC.

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6933086 # 0/m

Hartzell Propeller

Manual No. 115 N

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

- No. 1 _____
- No. 2 _____
- No. 3 _____
- No. 4 _____

PITCH RANGE

- High _____ Low _____
- Feather _____ Reverse _____
- Governor Model _____

DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
1-6-94		PROP S/N EE18357A RESET BLADE ANGLES L.P. 11.7° H.P. 31.3° NO OTHER WORK PERFORMED REF: W/O # 9303369 Dennis P. Thonbayer REPAIRMAN # 2024385 HARTZELL SERVICE CENTER REPAIR STATION # SJ3R843L	
8/19/94	0000Hr	Inspected engine # 185 W 61323	
2/20/98	267 hrs	267 hrs work done with 3824 gross prop with E/air service manual. Dress-up & paint prop blades. Qty 1 unit. EVO FAA CRS #H5LR849J	
<p>I certify that this prop has been inspected in accordance with a 100 hr inspection and was determined to be in an airworthy condition this date 2/20/98 Tach read 267 hrs. Total time 267 hrs</p>			
Signed _____			
#. FAA CRS #H5LR849J			
WO# 3825			
HELENA AIRCRAFT INC. CRS #H5LR849J			

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DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
4-3-99	319	INSPECTED PROP IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE AIRWORTHY BY <u> </u> ADP 516765327 LUBRICATED PER MANUAL WITH ^{AERO} SHELL #6 OIL	
7/25/00	404.4 Hrs work 4654	① Grease prop Hub Flw service manual. Dress-up & paint Prop Blades <u> </u> FAA CRS #H5LR849	
<p>I certify that this <u>propeller</u> has been inspected in accordance with a <u>100 hr</u> inspection and was determined to be in an airworthy condition this date <u>7/25/00</u> Tach read <u>404.4</u> hrs. Total time <u>404.4</u> Hrs Signed <u> </u> # <u> </u> FAA CRS #H5LR849J WO# <u>4654</u> HELENA AIRCRAFT, INC. CRS #H5LR849J</p>			

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DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
3/23/01	436.2 Hrs work 4853	① Remove prop. Install new spinner/bulkhead assy. P/W C-3535-1P S/W AE-4192 & new spinner S/W BY-948 Install propeller with new O-Ring & lock nuts & torque prop Flw maintenance manual. Install Chadwick- Helmuth Balancing equipment & check prop balance. Found under 102 IPS. with in-limits per Chadwick- Helmuth manual. No weight installed <u> </u> EMD <u> </u> FAA CRS #H5LR849J	
<p>I certify the maintenance and / or alteration is airworthy with respect to the work performed. CRS # H5LR849J Date <u>3/23/01</u> WO # <u>4853</u> Inspector <u> </u></p>			

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DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
3/14/05		Disassembled, polished blades, reassembled this propeller in accordance with Hartzell manual 1133 and 202A. CR.# T4PR764	<i>[Signature]</i>

N61322 PHC-C3YF-1RF S/N EE1835A TACH 732.5 PROP TT 732.5



5410 OPERATIONS ROAD, MONROE, LA 71203 DATE 12-20-06
(318) 387-0222 Repair Station #HLWR727E

Removed prop for overhaul.
MONROE AIR CENTER, FAA APPROVED REPAIR STATION #HLWR727E
MONROE REGIONAL AIRPORT, MONROE, LOUISIANA

SIGNED *[Signature]* WO# 10696

N61323 Hartzell s/n EE1835A TACH and prop TT 859 TSO 126.5 dated 12-20-06



5410 OPERATIONS ROAD, MONROE, LA 71203 DATE 12-20-06
(318) 387-0222 Repair Station #HLWR727E

Completed Annual Inspection.
I certify that this Propeller has been inspected in accordance with an annual inspection
and found to be in an airworthy condition.
MONROE AIR CENTER, FAA APPROVED REPAIR STATION, #HLWR727E
MONROE REGIONAL AIRPORT, MONROE LOUISIANA

Signed *[Signature]* WO# 11123

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG
EMPHIS PROPELLER SERVICE, INC.
11098 Willow Ridge Drive - Olive Branch, Mississippi 38654

Part Number: 9
C-C3YF-1RF
Various
Quantity: 1
Serial / Batch Number: EE1835A
Status / Work: Overhaul

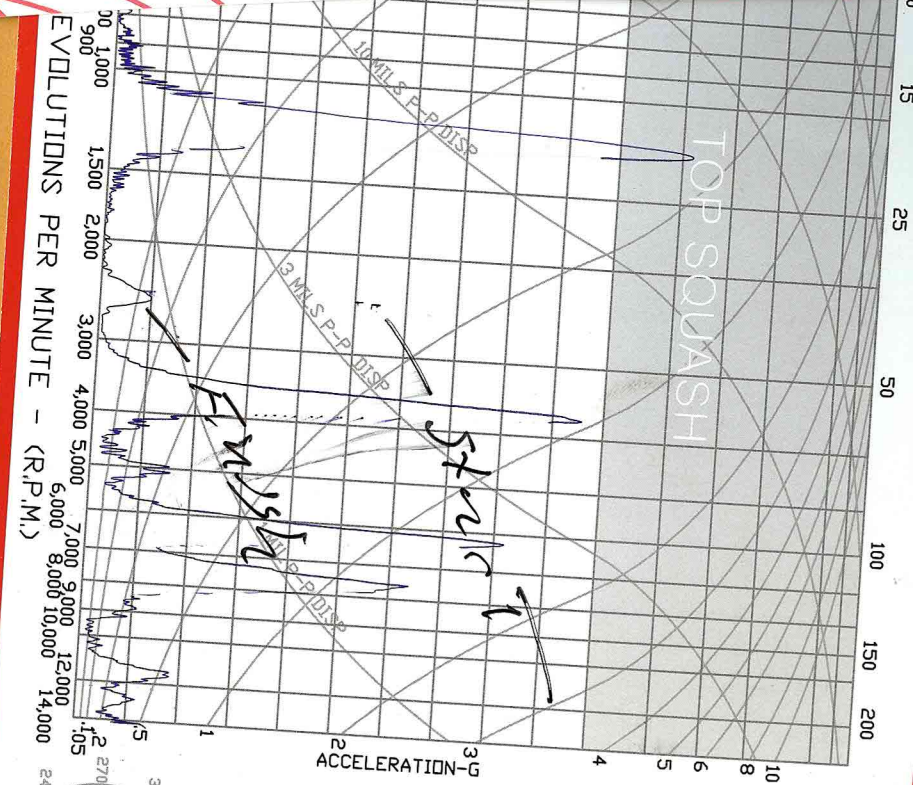
5 Work Order/Contract/ Invoice Number: 15820

1098 Willow Ridge Drive - Olive Branch, Mississippi 38654
SN: Unk
TSO: -0-
56965, H56968, & H56967. Complied with all AD's thru 2002-09-08, all SB's thru 2002-09-08.

18 Date (m/d/y): 00/00/00
16 Approval / Authorization No.:
14 CFR 43.9 Return to Service Other regulation specified in Block 13
19 Certifies that unless otherwise specified in Block 13 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
20 Authorized Signature:
21 Approval / Certificate No.: P14R441M
22 Name (Typed or Printed): TRONG VU, CHIEF INSPECTOR
23 Date (m/d/y): 12/28/2006

Signed *[Signature]* WO# 10696

STARLINER U.S. Patent 5154974 PERMANENT



DISP.(MILS,P-P) = VEL.(IPS) X 19,000
 RPM

LOCATION REMARKS

DATE

SUBJECT

ID#

HARTZELL PROPELLER INC.
Manual No. 115N

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DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
12-28-06		THIS PROPELLER/COMPONENT HAS BEEN OVERHAUL/REPAIRED AS PER MAINTENANCE RELEASE TAG UNDER WORK ORDER NO. 15820 DATED 12-28-06 FOR: PHC-C3YF-1RF/EE1835A MEMPHIS PROPELLER SERVICE, INC. OLIVE BRANCH, MISSISSIPPI FAA C.R.S. # PI4R441M	BY: <u>Trang Vu</u>

N61323 Hartzell s/n EE1835A TACH and prop TT 732.5 TSO 0.0 dated 12-28-06

Monroe Air Center 5410 OPERATIONS ROAD, MONROE, LA 71203 DATE 1-3-07
 (318) 387-0222 Repair Station #HLWR727E

Completed Annual Inspection. Reinstalled Prop after overhaul by Memphis Propeller. Dynamically balanced prop to .1 ips per Chadwick/Helmuth 192A Smooth Propeller Guide. C/W AD 06-24-07 found to be N/A, no repairs by C&E Aviation.

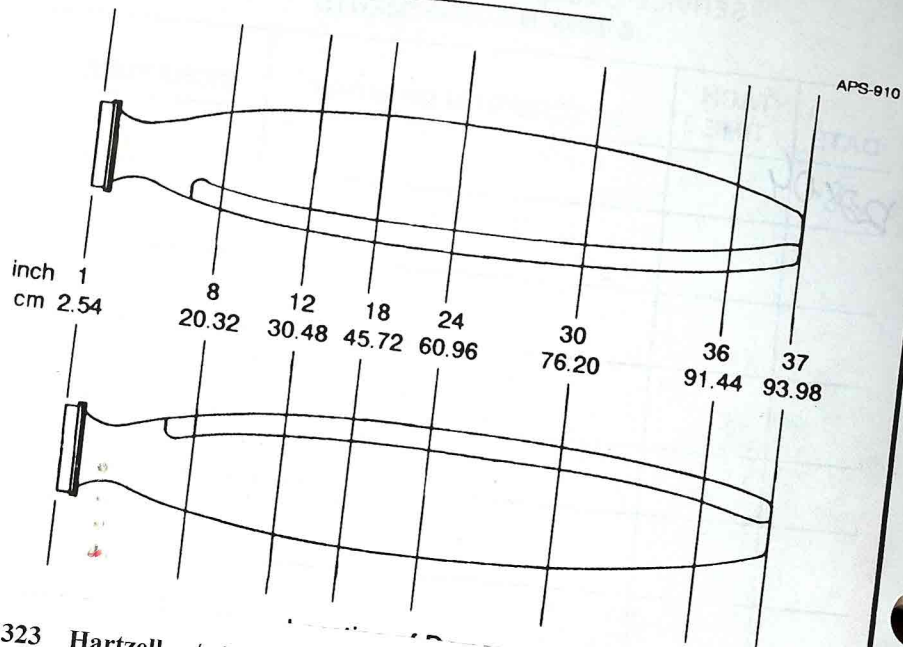
I certify that this Propeller has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

MONROE AIR CENTER, FAA APPROVED REPAIR STATION, #HLWR727E
 MONROE REGIONAL AIRPORT, MONROE LOUISIANA

Signed Paul G. Galt WO# 10696

Record of Model B7466 Composite Blade Damage Repair

Blade Design _____
Blade Serial Number _____



N61323 Hartzell s/n EE1835A TACH 988.7 PTT 988.7 TSO 255.9 dated 12-28-06
5410 OPERATIONS ROAD, MONROE, LA 71203 DATE 1-19-09
(318) 387-0222 Repair Station #HLWR727E

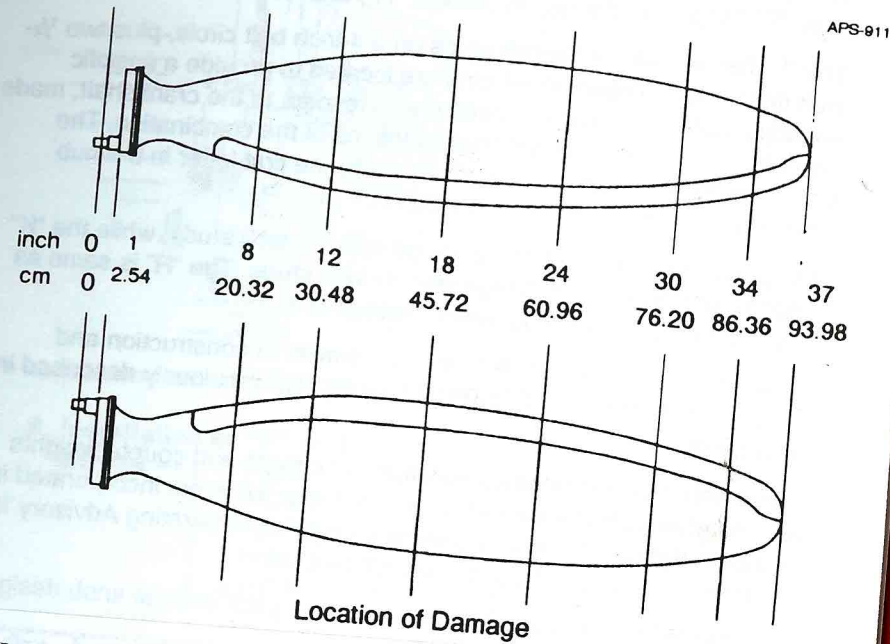
Completed Annual Inspection.
I certify that this propeller has been inspected in accordance with a 100 hr inspection and found to be in an airworthy condition.
MONROE AIR CENTER, FAA APPROVED REPAIR STATION, #HLWR727E
MONROE REGIONAL AIRPORT, MONROE LOUISIANA

Signed [Signature] WO# 11510

HARTZELL PROPELLER INC.
Manual No. 115N

Record of Model B7421 Composite Blade Damage Repair

Blade Design _____
Blade Serial Number _____



N61323 Hartzell s/n EE1835A TACH 1034.3 PTT 1034.3 TSO 301.5 dated 12-28-06
5410 OPERATIONS ROAD, MONROE, LA 71203 DATE 1-14-10
(318) 387-0222 Repair Station #HLWR727E

Completed Annual Inspection.
I certify that this propeller has been inspected in accordance with a 100 hr inspection and found to be in an airworthy condition.
MONROE AIR CENTER, FAA APPROVED REPAIR STATION, #HLWR727E
MONROE REGIONAL AIRPORT, MONROE LOUISIANA

Signed [Signature] WO# 11934

HARTZELL PROPELLER INC.

Manual No. 115N

Propeller Installation Instructions

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 the HC-F4Y(R,F,N)-2 propeller.

N61323 Hartzell s/n EE1835A TACH 1034.5

5410 OPERATIONS ROAD, MONROE, LA 71203 DATE 1-26-10
(318) 387-0222 Repair Station #HLWR727E

Installed new spinner p/n C-3532-7P.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the FAA, manufacturers maintenance manual and is approved for return to service.
MONROE AIR CENTER, FAA APPROVED REPAIR STATION #HLWR727E
MONROE REGIONAL AIRPORT, MONROE, LOUISIANA

SIGNED *Paul G. Goff* WO# 11965



**MEMPHIS
PROPELLER
SERVICE, INC.**

LOG BOOK

