

N 45193

HARTZELL

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

HARTZELL COMPACT CONSTANT SPEED PROPELLER ASSEMBLY INSPECTION CHECK-OFF RECORD

Non-Feathering

MODEL	HC-23YR-1RF ✓	HC-E3YR-1	HC-C3YF-1	Assy. Serial No. DY3969A
	~~PHC-3YF-1~~	~~PHC-B3YF-1RF~~		Factory Number A40620A
Customer	HARTZELL S.C.			
Order No.	49788	New ✓	Warranty	Repair
HUB:	~~D-3261-3~~	~~D-2841~~	~~D-3285~~	D-3251-1R ✓
			~~D-3251-8R~~	~~D-4502-1~~ ✓
A-2043-1 Hub Nuts Torqued 22 Ft. Lbs.				
BLADES				
Serial Numbers	(1) J08422	(2) J08431	(3) J08421	
Design	F7282	Counterweight Design		N/A
CYLINDER B-2281	✓	B-2428-2	N/A	
B-6747	✓	Serial No.	E11500	
Low stop in place (A-2421)	✓	AN960-1016L	N/A	
B-3359 Elastic Locking Nut Torque 15 Ft. Lbs.	✓	A-4257	N/A	
Check for Leaks	✓	B-3807 Nut Torque 25 to 35 Ft. Lbs.	N/A	
BLADE ANGLES		Set at 30" Radius		
Low Pitch	12.5°	High Pitch	29.6°/29.7°	
Track	✓	Friction	✓	
Built By	RB	Insp. By	Lm	
Functional Test 0 to 125 pounds				✓
INSTALLATION PARTS				
"F" FLANGE		N/A	"R" FLANGE	
(6) A-2429-4 Studs Torqued 25 Ft. Lbs	{	(6) A-2067 Studs	✓	
(6) A-1381 Washers		(6) A-1381 Washers	✓	
(6) A-2044 Lock Nuts		(6) A-2069 Castle Nuts	✓	
(1) C-3317-228 "O" Ring		(1) C-3317-228 "O" Ring	✓	
(2) .5002 X 1-1/8 Dowel Pins		(6) A-279 Zerks	✓	
(6) A-279 Zerks				
(6) A-2429-3 Studs Torqued 25 Ft. Lbs				
COMMENTS				
Dwg. No.:	D3250	Rev.:	AW	
IDS No.:	793	Date:	3-7-97	
Inspector	D. Meyers		Date 12-9-97	



Hartzell Propeller
Manual No. 115 N

RIGHT ENGINE

Hub Model HC-C3YR-1RF/F7282

Blade Design _____

Diameter _____

Hub Ser. No. DY3969A

Blade Ser. Nos. _____

No. 1 508422

No. 2 508431

No. 3 508421

No. 4 _____

PITCH RANGE

High _____ Low _____

Feather _____ Reverse _____

Governor Model _____

Hartzell Propeller

Manual No. 115 N

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

DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
3-14-98	3624.3	Installed propeller	Steve Culbertson
			IA 2073953
I CERTIFY THAT THIS <u>propeller</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>4 Annual</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. DATE <u>3-14-98</u> TOTAL TIME <u>00:00</u> STEVE CULBERTSON <u>Steve Culbertson</u> IA 2073953			
EX-114-6 17-FND A 17152-202 9 5 A			
4/30/98	3632.8	DYNAMIC BALANCED FROM .35 IPS TO .05 IPS @ 2200 RPM IAW CHADWICK-HELMUTH INSTRUCTIONS AW 9511-2. W/O 17152 0700 4/30/98. <u>Steve Culbertson</u> RC2370155 FOR GOLDEN STATE PROPELLER, INC. F.A.A. REPAIR STATION #A03R380L 981 AIRPORT DRIVE SAN LUIS OBISPO, CA 93401 (805) 544-8356	

CTIONS
DIRECTIVES,
LETTERS,

SIGNATURE

2.4
CKING
P-OK

SECTION.

AMERICAN PROPELLER SERVICE

F.A.A. Repair Station No. N03R717L
20208 Charlanne Dr., Redding, California 96002, U.S.A.

ished

COMPLETE OVERHAUL: Governor has been disassembled,
cleaned, inspected, reassembled and tested in accordance
with the manufacturer's overhaul procedures and
specifications, and is furnished in exchange.

2295

1100

Low

Complied with S.B. 116 and 223.

d/or component identified above was repaired and inspected in accordance with current Federal
ations and is approved for return to service.

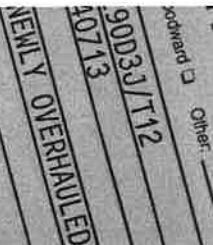
is are on file at this agency under Work Order No.

9364

44266

Dated August 25, 1998

Authorized Individual



DATE		TACH TIME	DESCRIPTION OF WORK	SIGNATURE
5-19-08		3981.7	PROP TT/new 357.4	
			CKD PROP FOR GENERAL CONDITION & TRACKING	
			CKD ADSTHAY 2000-08 . CKD PROP 1424 UP -OK-	
			~~VERIFY THIS PROP~~ ~~TO BE IN AN AIRWORTHY CONDITION~~ ~~L.A.W.~~ ~~AN ANNUAL INSPECTION.~~ <i>[Signature]</i> MICHAEL D. VIEKE A0P 308508011 LA.	

**DESCRIPTION OF ALL OPERATIONS
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21

Manual No. 115 N

**DESCRIPTION OF ALL OPERATIONS
PERTAINING TO AIRWORTHINESS DIRECTIVES,
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[illegible]

1. Approving Civil Aviation Authority/Country: FAA/United States		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 46423																																					
4. Organization Name and Address:						5. Work Order/Contract/Invoice Number:																																					
New England Propeller Service, Inc FAA RSN RC2R130L EASA 145.5972						6 Matthews Drive East Haddam, CT 06423-2388 (860) 873-1494 · Fax: (860) 873-2388																																					
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:																																						
1	Hartzell-Propeller	HC-C3YR-1RF F7282	1	DY3969A	Overhauled																																						
12. Remarks																																											
THIS PROPELLER WAS REPAIRED IN ACCORDANCE WITH MANUFACTURER'S MANUALS: 113BR46 133CR39 202A V1R59 202A V2R32 202A V3R39 202A V6R36 202A V7R50 202A V8R34 202A V10R38 202A V11R36																																											
Total Time: <u>BROUGHT FORWARD</u> hrs Time Since Overhaul: <u>00.00</u> hrs Details of work performed are on file at New England Propeller Service, Inc. under Repair Station Work Order Number: <u>CR-46423</u> The following work was performed:																																											
MAJOR OVERHAUL. BLADES REFINISHED. PARTS FLORESCENT PENETRANT INSPECTED, MAGNAFLUXED, & REPLACED WHERE REQUIRED. PROPELLER TRACKED, BALANCED, GREASED, SET ANGLES & PAINTED. BLADE KNOBS SHOTPEENED.																																											
Blade Serial #'s:		1.) J08422	2.) J08431	3.) J08421	4.) N/A	5.) N/A	6.) N/A																																				
The following Service Bulletins have been complied with: HC-SB-61-118FR1 HC-SB-61-238 HC-SB-61-374R1 The following Service Letters have been complied with: HC-SL-61-278 HC-SL-61-354 WAPA PROCEDURE: 001 The following Airworthiness Directives have been complied with as follows: NONE				MAJOR PARTS REPLACED <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Nomenclature</th> <th>Part #</th> <th>Qty.</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td>SET SCREW</td> <td>A2421</td> <td style="text-align: center;">1</td> <td>SL278</td> </tr> <tr><td colspan="4" style="height: 20px;"></td></tr> <tr><td colspan="4" style="height: 20px;"></td></tr> <tr><td colspan="4" style="height: 20px;"></td></tr> <tr><td colspan="4" style="height: 20px;"></td></tr> <tr><td colspan="4" style="height: 20px;"></td></tr> <tr><td colspan="4" style="height: 20px;"></td></tr> <tr><td colspan="4" style="height: 20px;"></td></tr> </tbody> </table>				Nomenclature	Part #	Qty.	Reason	SET SCREW	A2421	1	SL278																												
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SET SCREW	A2421	1	SL278																																								
A.D.'s	Revision Date	Applicable A.D S.B. & Subject	Date & Hours @ Compliance	Method of Compliance	one-time	recurr.	Next Comp. hrs./date																																				
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.				14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.																																							
13b. Authorized Signature:		13c. Approval/Authorization No.:	14b. Authorized Signature:		14c. Approval/Certificate No.:																																						
					RC2R130L																																						
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):																																						
			ARTIE D'ONOFRIO, PRESIDENT		22/JAN/2021																																						
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown																																											

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01/22/21

HARTZELL
PROPELLER

HC-C3YR-1RF
F7282

RE

S/N DY3969A

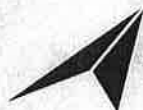
P.T.T.S.N.: BROUGHT FORWARD
P.T.T.S.O.: 00.00

MAJOR OVERHAUL. BLADES
REFINISHED. PARTS FLORESCENT
PENETRANT INSPECTED,
MAGNAFLUXED, & REPLACED WHERE
REQUIRED. PROPELLER TRACKED,
BALANCED, GREASED, SET ANGLES &
PAINTED. BLADE KNOBS SHOTPEENED.

AUTHORIZED BY: REF: W/O# CR-46423



NEW ENGLAND PROPELLER SERVICES
6 MATTHEWS DRIVE
EAST HADDAM, CT 06423
FAA REPAIR STATION #RC2R130L
EASA 145.5972
1-860-873-1494



INFINITY AVIATION

117 Perimeter Road / Nashua, NH 03063

Date: 6/25/2021; Aircraft: N45193; Type: 177RG; S/N: 177RG1096; Hobbs: 4979.20; Total Time: 4979.20
Removed the propeller model MC-C3YR-1RF s/n DY3969A and governor C2990D3J/T12 s/n 840715. Shipped out to New England
Propeller for overhaul. Received overhauled propeller and governor same model and serial number. Installed to engine IAW Hartzell
service manual and C177RG MM. Governor AD2020-19-06 was complied with at overhaul.

Signature: Glenn Ducharme
Date: 06/25/2021, W/O: 17541
Infinity Aviation Services LLC
FAA Certified Repair Station
#I6FR992Y

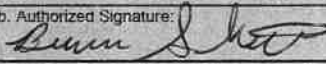


INFINITY AVIATION

117 Perimeter Road / Nashua, NH 03063

Date: 10/05/2021; Aircraft: N45193; Type: 177RG; S/N: 177RG1096; Hobbs: 226.10; Tach: 4975.20; Total Time: 4975.20
I certify that this propeller has been inspected in accordance with an Annual/100 hour inspection and was determined to be in airworthy
condition and is approved for return to service. Pertinent details of this inspection are on file at Infinity Aviation Services LLC under the
work order listed.

Signature: Glenn Ducharme
Date: 10/05/2021, W/O: 117690
Infinity Aviation Services LLC
FAA Certified Repair Station
#I6FR992Y

1. Approving Civil Aviation Authority/ Country: FAA/ United States		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 46407		
4. Organization Name and Address: New England Propeller Service, Inc FAA RSN RC2R130L EASA 145.5972					5. Work Order/Contract/Invoice Number: CR-46407		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1	McCauley Governor	C290D3J/T12	1	840715	OVERHAULED		
12. Remarks: THIS COMPONENT WAS INSPECTED AND REPAIRED IN ACCORDANCE WITH MANUFACTURER'S MANUAL(S). THE FOLLOWING WORK WAS PERFORMED: THIS GOVERNOR WAS OVERHAULED. GOVERNOR DISASSEMBLED AND CLEANED. PARTS VISUALLY, DIMENSIONALLY AND NDT INSPECTED. PARTS REPLACED AS REQUIRED. PARTS PAINTED AS NECESSARY. GOVERNOR ASSEMBLED, BENCH TESTED AND CALIBRATED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. THE FOLLOWING SERVICE BULLETINS AND AIRWORTHINESS DIRECTIVES WERE COMPLIED WITH : S/B 156 AND S/B 249A. AD 2020-19-06 AND S/B ASB 273C DID NOT APPLY. END.							
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12			14a. ☒ 14 CFR 43.9 Return to Service Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 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.				
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:	
						RC2R130L	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
				BRUCE A. SCHULTZ		12/JAN/2021	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							