

BONAIRE AVIATION COMPANY

INSTRUCTIONS PROPELLER INSTALLATION IN CESSNA 188 SERIES AIRCRAFT (CONTINENTAL IO-520-D POWERED) STC NUMBER # SA00470AT

**DOCUMENT #BOAC 1010P
REV.-(ORIG.), DATED 1-17-94**

**BONAIRE AVIATION COMPANY
P.O. Box 1158 TCAS
Blountville, TN 37617
INSTRUCTIONS
PROPELLER INSTALLATION
IN CESSNA 188 SERIES AIRCRAFT
(CONTINENTAL IO-520-D POWERED)**

MASTER DOCUMENT LIST (MDL) NO. BOAC 1010P

BOAC 1010P, REV.-(ORIG.), DATED 1-17-94

PAGE NO.	DATE	REVISION	DESCRIPTION
INSTALLATION			
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1010P-2	1/17/94		Applicable Models
1010P-3	1/17/94		Approved Engine Instrument Markings
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DRAWINGS			
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**INSTALLATION INSTRUCTIONS
PROPELLER INSTALLATION
IN CESSNA 188 SERIES AIRCRAFT
(CONTINENTAL IO-520-D POWERED)**

1. Remove existing prop and spinner from aircraft.
2. Install new propeller new attaching hardware. Install propeller and spinner per Cessna Service Manual Propeller and Governor Section and Bonaire Aviation Company drawing #6 or #7.

NOTE: Accomplish steps 1 and 2 in accordance with Cessna Service Manual appropriate to aircraft being modified, removal and installation section.

3. Check tachometer for correct markings as per Bonaire Aviation Company approved Marking Table BOAC 1010P-3. Remove instruments if required. Have approved instrument shop install instrument markings, reinstall instruments.
4. Ground run engine (minimal time), check for RPM, adjust propeller governor High-RPM Stop and rig governor control if necessary.
5. Revise aircraft weight and balance.

NOTE: Hartzell prop #PHC-C3YF-1RF/F8468A()-6R and spinner assembly weight = 81 lbs
Hartzell prop #PHC-C3YF-1RF/F7691() and spinner assembly weight = 72 lbs

6. Install FAA approved Flight Manual Supplement, appropriate to aircraft serial number being modified.
7. Make log entries and complete FAA form 337 for aircraft and prop. Return aircraft to service.
8. Fly aircraft and check maximum RPM setting, readjust if necessary

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PROPELLER INSTALLATION
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APPLICABLE MODELS

Cessna Models

MODEL NUMBER	SERIAL NUMBER
A188	188-0001 thru 188-0572
A188A	18800573 thru 18800832
A188B	18800833 thru 18803856
A188B	18800967T thru 18803969T

Note: NON TURBO MODELS ONLY

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**PROPELLER INSTALLATION
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APPROVED ENGINE INSTRUMENT MARKINGS

TACHOMETER

Hartzell (PHC-C3YF-1RF/F8468A()-6R)	
Operating Range (Green ARC)	2200 to 2550 RPM
Caution Range (Yellow ARC)	2700 to 2850 RPM
Maximum (Red Radial)	2850 RPM
Hartzell (PHC-C3YF-1RF/F7691())	
Operating Range (Green ARC)	2200 to 2550 RPM
Caution Range (Yellow ARC)	2700 to 2850 RPM
Maximum (Red Radial)	2850 RPM

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**Propeller Installation
In Cessna 188 Aircraft
(Continental IO-520-D Powered)**

Kit Parts List

188 STC Kit 3-Blade

STC Kit:

1 ea. STC Paperwork

1 ea. PIIC-C3YF-1RF/F8468A ()-6R (A2476-6 Mounting Kit)
1 ea. C3535-1P

OR

1 ea. PIIC-C3YF-1RF/F7691 () (A2476-6 Mounting Kit)
1 ea. C3535-1P

Propeller
Spinner/Bulkhead - Assembly

Propeller
Spinner/Bulkhead - Assembly

**NOTE: THESE PART NUMBERS ARE CURRENT AS OF 1-17-94. THESE PART NUMBERS MAY BE
SUPERCEDED OR OTHER MANUFACTURER EQUIVALENT PART NUMBERS USED.**

BOAC 1010P-4, Rev.-(Orig.),
1-17-94

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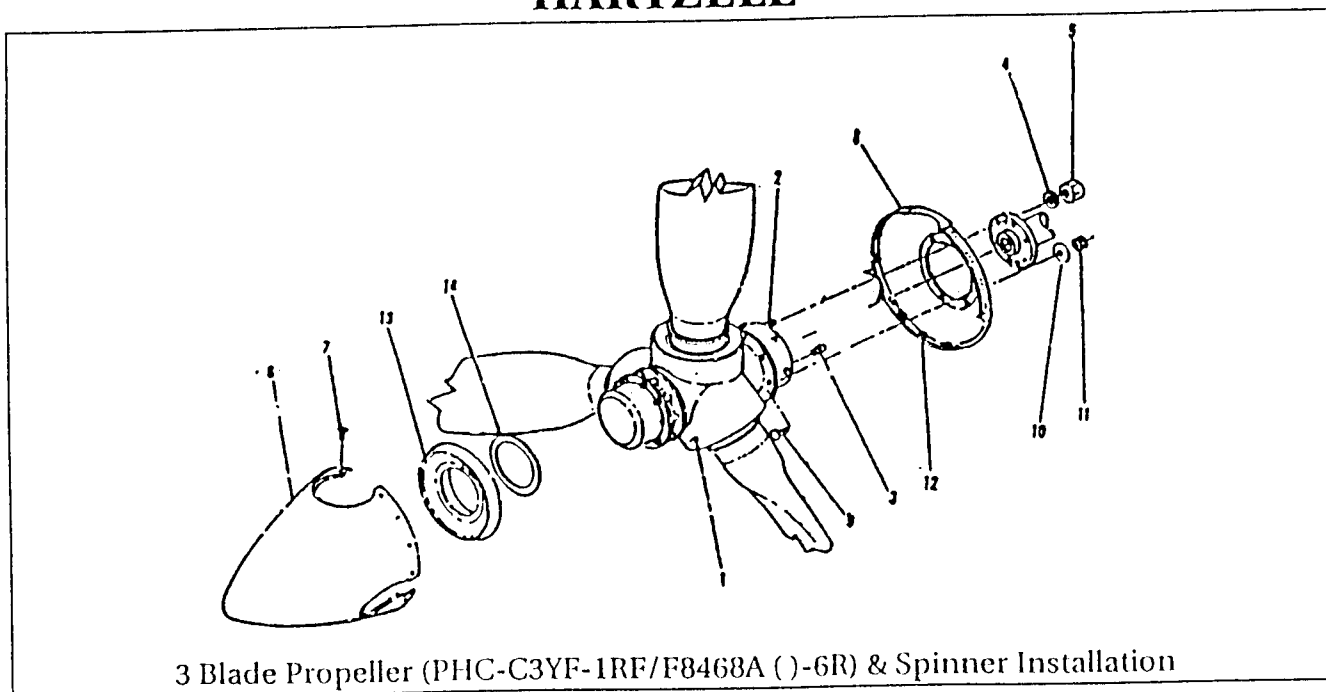
Install placard on the instrument panel near tachometer:

Hartzell PHC-C3YF-1RF/F7691 ()

DO NOT EXCEED 20 INCHES OF MANIFOLD PRESSURE BELOW 2250 RPM

Propeller Installation - in Cessna 188 (Continental IO-520-D Powered)	
Bonaire Aviation Company	
Drawing #3	1/17/94
Rev. -(Orig.)	BOAC 1010P
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HARTZELL



3 Blade Propeller (PHC-C3YF-1RF/F8468A (-)-6R) & Spinner Installation

Figure and Index No.	Part Number	Description	Units Per Assy	Usable on Code
1	PHC-C3YF-1RF/F8468A (-)-6R	Propeller Attaching Parts	1	
6	C3535-1P	Spinner Assy Incl Bulkhead and Attaching Parts	1	

Propeller Installation - in Cessna 188 (Continental IO-520-D Powered)	
Bonaire Aviation Company	
Drawing #6	1/17/94
Rev.-(Orig.)	BOAC 1010P
Approved:	

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HARTZELL

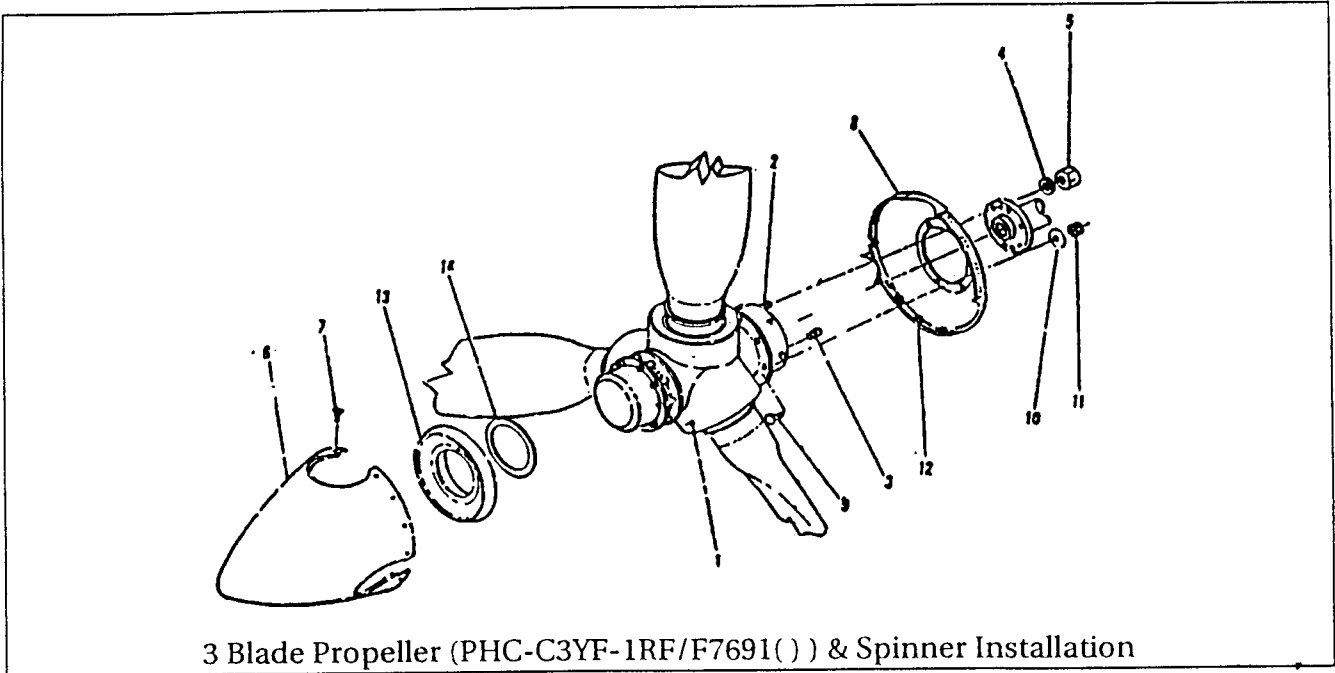


Figure and Index No.	Part Number	Description	Units Per Assy	Usable on Code
1	PHC-C3YF-1RF/F7691()	Propeller	1	
6	C3535-1P	Spinner Assy Inc. Bulkhead and Attaching Parts	1	

Propeller Installation - in Cessna 188 (Continental IO-520-D Powered)	
Bonaire Aviation Company	
Drawing #7	1/17/94
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