

Hartzell Propeller, LLC 1 Propeller Place Piqua, Ohio 45356	Title: Installation Instructions, Cessna 180 with Hartzell DHC-G2YF- 1BFP/F8849 Propeller	By: ETB	Page 1 of 5
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		App: JMK	Rev/Date: B 10JUN2026

INSTALLATION INSTRUCTIONS

CESSNA 180 WITH HARTZELL DHC-G2YF-1BFP/F8849 PROPELLER

DOCUMENT NO. 61-25243-39-01

LOG OF REVISIONS

REV NO.	PAGES	DESCRIPTION	DATE	APPROVED
N/C	ALL	Initial Release	August 14, 2025	JMK
A	3-5	Low pitch blade angle was 12.5, corrected O-470-J RPM, added propeller weight.	September 28, 2025	JMK
B	ALL	Updated company in header	June 10, 2026	JMK

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REFERENCES

The following references must be available to the installer. Contact the associated manufacturer to determine revision status of each document.

- 1. Hartzell Propeller Owner’s Manual 115N, latest revision
- 2. Document Number 61-25243-24-01, Instructions for Continued Airworthiness, Cessna 180 with Hartzell DHC-G2YF-1BFP F8849 Propeller, latest revision
- 3. Cessna 180 Maintenance Manual

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1 APPLICABILITY

This document describes the installation of a Hartzell DHC-G2YF-1BFP/F8849 constant speed two-blade propeller with 88 inch diameter utilizing aluminum blades.

This modification is applicable to Textron Aviation Inc. (Cessna) 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, and 180J models of aircraft.

In addition to being approved for the landplane and skiplane, the Hartzell DHC-G2YF-1BFP/F8849 propeller is an acceptable replacement for the McCauley 2A34C203/90DCA-2, 2A34C66/90AT-2, or 2A34C201/90DA-2 propellers used on the Floatplane and Amphibian variants per TCDS 5A6.

2 PROPELLER SPECIFICATIONS

Propeller: Hartzell DHC-G2YF-1BFP/F8849

Maximum Diameter: 88 inches

Minimum Diameter: 86 inches

Low Pitch Blade Angle (measured at 30 inch blade station): $10.2^{\circ} \pm 0.2^{\circ}$

High Pitch Blade Angle (measured at 30 inch blade station): $31.0^{\circ} \pm 1.0^{\circ}$

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3 INSTALLATION

3.1 PROPELLER INSTALLATION

1. Remove existing propeller in accordance with the Cessna 180 Maintenance Manual.
2. Perform pre-installation procedures on the new propeller in accordance with Hartzell Owner's Manual 115N in the "Installation and Removal" section. Note: This propeller is a -1 style propeller which does not have an air charge.
3. This propeller is approved with the following spinner part numbers: D-4798-2 or D-4798-2P.
4. Install the spinner bulkhead on the new propeller hub in accordance with Hartzell Owner's Manual 115N using the procedures found in the Bulkhead Installation subsection of the "Installation and Removal" section.
5. Install the new Hartzell propeller on the aircraft in accordance with Hartzell Owner's Manual 115N "Installation and Removal" section. Use installation instructions for Installation of "F" Flange Propellers in Manual 115N.
6. Install the Hartzell spinner dome on the propeller in accordance with Hartzell Owner's Manual 115N using the procedures found in the Spinner Dome Installation subsection of the "Installation and Removal" section.
7. Verify the red radial marking on the tachometer markings matches those shown below for the applicable engine that is installed. If the red radial does not match what is shown below, then remark as shown.

For aircraft with O-470-A, O-470-K, O-470-L, O-470-R, or O-470-S engines:

Red Radial: 2600 RPM

For aircraft with O-470-J engine:

Red Radial: 2550 RPM

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3.2 DOCUMENTATION

1. The aircraft empty weight and balance must be updated to reflect removal of the previous propeller and installation of the new propeller. The weight and arm for the DHC-G2YF-1BFP/F8849 propeller and spinner is 60.8 pounds at an arm of -41.5 inches.
2. Insert a copy of Airplane Flight Manual Supplement 61-25243-25-01 inside the aircraft in the "Supplements" section of the existing AFM.
3. Complete FAA form 337 and return the aircraft to service.
4. Perform a functional flight test using normal procedures. Note takeoff RPM during the takeoff roll and climbout. Make governor adjustments if required to maintain the appropriate maximum propeller speed.

END