

U.S. DEPARTMENT OF TRANSPORTATION  FEDERAL AVIATION ADMINISTRATION  TYPE CERTIFICATE DATA SHEET P1BO	TCDS NUMBER P1BO REVISION 8  HAMILTON SUNDSTRAND MODEL/S 247F-1      247F-1E      247F-3  December 7, 2015
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Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P1BO) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's and other approved instructions.

Type Certificate Holder: Hamilton Sundstrand Corporation  
 One Hamilton Road  
 Windsor Locks, CT 06096-1010

Type: Constant speed; hydraulic (See Notes 3 and 4)

Engine Flange: 6.750" Bolt Circle

Hub Material: Steel

Blade Material: Kevlar Shell/Graphite spar

Number of Blades: Four

Design Series: 247F  
 See Note 13 for the associated model parts list unique to aircraft applications.

BLADE	MAX CONTINUOUS		<TAKEOFF>		NOMINAL DIAMETER (FT)	APPROXIMATE WEIGHT (LB)
	SHp	RPM	SHp	RPM		
R810640-1, -2 or -3	2500	1200	2750	1200	13.0	336.8
R817370-1	2500	1200	2750	1200	13.0	345
R817370R1	2500	1200	2750	1200	13.0	345

Certification Basis: FAR 35 through Amendment 7 dated December 28, 1995, and Special Conditions SC-92-02-NE (Docket No. 92-ANE-46), dated January 8, 1993. For the 247F-1E, additional Special Condition SC-95-01-NE (Docket No. 94-ANE-50) dated November 28, 1995.

Model	247F-1	247F-1E	247F-3
TC Application Date	5/24/91	3/8/93	9/12/94
TC Issued	10/23/92	11/23/94	10/12/94

Production Basis: FAA Production Certificate No. 14  
 Propeller assemblies produced under FAA PC14 will have serial numbers in a date code format, YYYYMM####  
 EASA Production Organization Approval Certificate FR.21G.0001  
 Propeller assemblies produced under EASA Certificate will have a date code format, FRYYYYMM####  
 Y: Four digit year; M: Two digit month; #: Four digit incremental number

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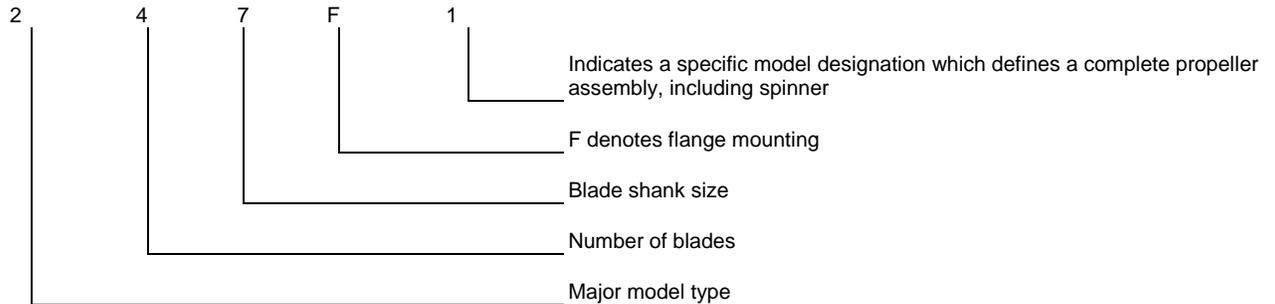


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**NOTES**


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## NOTE 1: HUB MODEL DESIGNATION



- NOTE 2: BLADE MODEL DESIGNATION: Propeller blades are identified by a part number only, which does not constitute a model designation.
- NOTE 3: PITCH CONTROL: Propeller control is specified on the approved model parts list.
- NOTE 4 (a) FEATHERING: Full feathering with the approved propeller control is specified on approved model parts list.
- (b) REVERSING: Full reversing with the approved propeller control is specified on approved model parts list.
- NOTE 5: LEFT-HAND MODELS: Not applicable
- NOTE 6: INTERCHANGEABLE BLADES: R817370-1 and R817370R1 blades are interchangeable.
- NOTE 7: ACCESSORIES:
- (a) Propeller Deicing: The electrical deicing system is specified on approved model parts list and installed in accordance with the propeller manufacturer's instructions.
- (b) Spinners: The spinner is specified on approved model parts list.
- NOTE 8: SHANK FAIRINGS: Not applicable
- NOTE 9: SPECIAL LIMITS:
- 247F-1: Airworthiness limitations as specified in System Maintenance Manual P5202, Propeller Component Maintenance Manual 61-13-11 and Propeller Control Component Maintenance Manual 61-21-15.
- 247F-3: Airworthiness limitations are specified in System Maintenance Manual P5205, Propeller Component Maintenance Manual 61-13-11 and Propeller Control Component Maintenance Manual 61-21-15.
- 247F-1E: Airworthiness limitations as specified in System Maintenance Manual P5204, Propeller Component Maintenance Manual 61-13-11, Propeller Servo Valve Component Maintenance Manual 61-26-01 and Electronic Propeller Control Component Maintenance Manual 61-25-02.
- NOTE 10: LIFE-LIMITED PARTS: See Note 9.
- NOTE 11: BLADES: The R810640-1, -2, and -3 blades are no longer authorized for use in accordance with Airworthiness Directive 2001-26-05 issued December 14, 2001. R817370-1 and R817370R1 blades are approved for use with the model propeller.

NOTE 12: SPECIAL NOTES: Aircraft installation must be approved as part of the aircraft type certification and demonstrate compliance with the applicable airworthiness requirements.

NOTE 13: MODEL PARTS LISTS FAA Approved Model Parts Lists (not inclusive) are:

PL27722	247F-1, for application on ATR72-210
PL27788	247F-3, for application on MA-60
PL27934-1	247F-1E, for application on ATR72-210

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