

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

P-870  
Revision 11  
Hamilton Standard  
242

January 7, 1971

TYPE CERTIFICATE DATA ASHEET NO. P-870

Propellers of models described herein conforming with this data sheet (which is a part of type certificate No. 870) 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 Civil Air Regulations/Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder                      Hamilton Standard Division  
United Aircraft Corporation  
Windsor Locks, Connecticut 06096

Type    Constant speed; hydraulic (see NOTES 3 and 4)  
Engine Shaft                                        SAE No. 50, 51, 60 or X (X indicates special shaft sizes for foreign engines are eligible.)  
Hub Material                                        Steel  
Blade Material                                     Hollow steel with nylon rubber filler  
Number of Blades                                4  
Hubs Eligible                                      24250, 24260, 242X (see NOTE 1)

Blade Eligible (See NOTE 2)	Maximum Continuous		Takeoff		Diameter Limits (See NOTE 2)	Hub & Blade Weight (Max. Diam)	NOTES
	HP	RPM	HP	RPM			
2J17B3-8 to 2J17B3-26 2J17B4 is the left-hand version of 2J17B3.	2800	960	3500	1020	16'4-7/8" (-8) to 14'10-7/8" (-26)	750 lbs.	6  5
2J17F3-8 to 2J17F3-26 2J17F4 is the left-hand version of 2J17F3.					16'4-7/8" (-8) to 14'10-7/8" (-26)	753 lbs.	6  5
2J17H3-8 to 2J17H3-26 2J17H4 is the left-hand version of 2J17H3.	2800	960	3500	1020	16'4-7/8" (-8) to 14'10-7/8" (-26)	761 lbs.	6  5
2J17N3-24 to 2J17N3-50 2J17N4 is the left-hand version of 2J17N3.	2650	1090	3500	1150	15'7/8" (-24) to 12'10-7/8" (-50)	662 lbs.	6  5
2J17Z3-8 to 2J17Z3-26 2J17Z4 is the left-hand version of 2J17Z3.	2800	960	3500	1020	16'4-7/8" (-8) to 14'10-7/8" (-26)	787 lbs.	2, 6(*)  5
2J17AG3-8 to 2J17AG3-26 2J17AG4 is the left-hand version of 2J17AG3.	2800	960	3500	1020	16'4-7/8" (-8) to 14'10-7/8" (-26)	761 lbs.	6  5
2J17AM3-8 to 2J17AM3-26 2J17AM4 is the left-hand version of 2J17AH3.	2800	960	3500	1020	16'4-7/8" (-8) to 14'10-7/8" (-26)	787 lbs.	2, 6(*)  5

Certification Basis

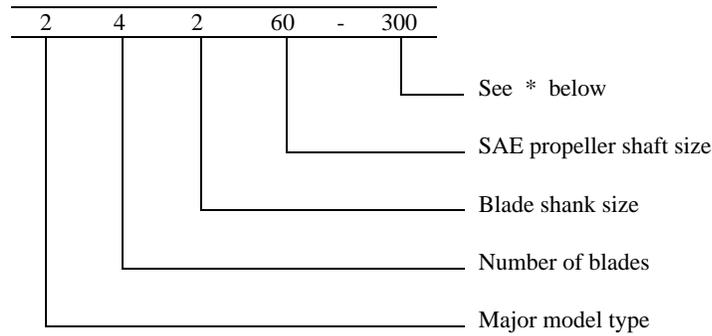
Type Certificate No. 870 issued 24 August 1948.

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Production Basis

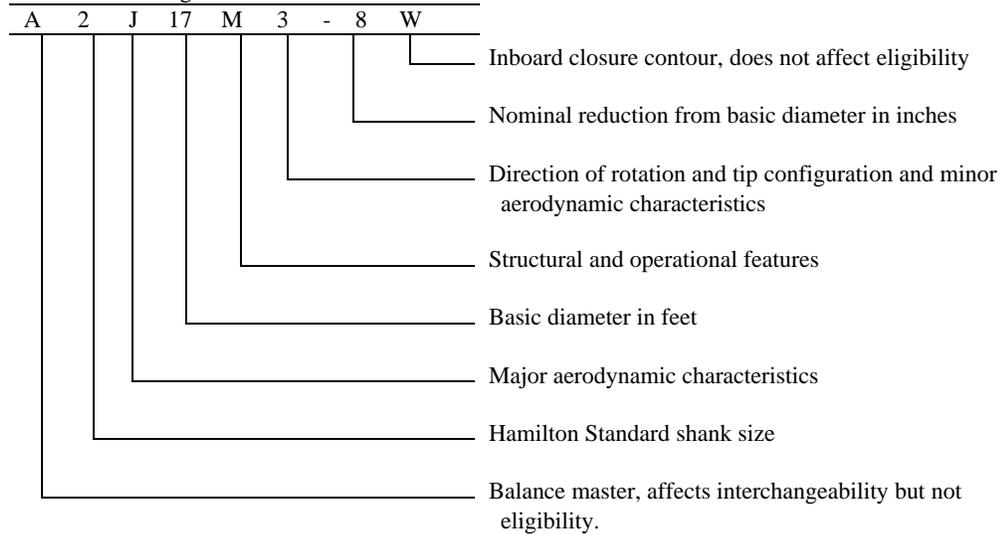
Production Certificate No. 14

NOTE 1. Hub Model Designation



\*A dash number added to the propeller model designation indicates minor changes which do not affect eligibility. If number is above 300 it also indicates the complete blade assembly and all of the rotating deicing system components.

NOTE 2. Blade Model Designation



\*Blade models 2J17Z3 and 2J17AH3 are nickel plated.

Diameter limits shown are nominal diameters of the assembled propellers and do not include the +5/16, -1/16 inch manufacturing tolerance permissible for propellers with steel blades.

NOTE 3. Pitch Control. Eligible with Hamilton Standard constant speed control only.

- NOTE 4.
- (a) Feathering. Eligible with full feathering controls installed in accordance with the propeller manufacturer's instructions.
  - (b) Reversing. Eligible with reversing controls installed in accordance with manufacturer's instructions.

NOTE 5. Left-Hand Models. The left-hand version of an approved propeller model is eligible at the same rating and diameter limitations as listed for the right-hand model.

- NOTE 6. Interchangeable Blades. Only blades listed in the same group of the following listed groups are sufficiently similar aerodynamically and vibrationwise to permit interchangeability in the same diameter without a flight test. Blades with different model numbers should not be incorporated in the same propeller, except as noted below, and reference should always be made to the ratings of blades.
- Group (a) 2J17B3, 2J17F3, 2J17H3, 2J17AG3, 2J17B3/SK31339\*\* and 2J17F3/SK31339\*\*  
NOTE: These blades can be used interchangeably in the same propeller provided the prefix letter and cut-off dash numbers of the model designations are the same.
- Group (b) 2J17Z3 and 2J17AH3 \*(Nickel plated blades)  
NOTE: These blades can be used interchangeably in the same propeller provided the prefix letter and the cut-off dash numbers of the model designations are the same. Further, when specifically indicated on the pertinent aircraft specification, the 2J17Z3 and 2J17AH3 blades can be used interchangeably in the same propeller with those blades listed in Group (a) of NOTE 6 of this specification, provided the 2J17Z3 or 2J17AH3 blades are used in pairs and installed in opposite area, or one 2J17Z3 and one 2J17AH3 are used as a pair and installed in opposite area, and that the prefix letters for opposite blades and the cut-off dash numbers for all blades are the same.
- \*\*SK-31339 concerns reworking stiffener type blades to fairing type.
- NOTE 7. Accessories.
- (a) Propeller Deicing.
- (1) Electric. Eligible only with Hamilton Standard electrical deicing equipment installed in accordance with the propeller manufacturer's instructions.
- (2) Fluid. Eligible with Hamilton Standard fluid deicing slinger ring assemblies only.
- (b) Propeller Spinner. Eligible with spinner supplied by Hamilton Standard. Add 26 1/2 lb. when spinner used.
- NOTE 8. Shank Fairings. Not applicable.
- NOTE 9. Special Limits. Not applicable.
- NOTE 10. Special Notes. The word "eligible" as used herein does not signify approval. For approval, compliance with the applicable aircraft airworthiness requirements is necessary.

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