

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

P-833 Revision No. 16 TARVER (BROWN Propeller) (SOUTH 80) (UNIVAIR) (KOPPERS) 220 220-1 220-H August 15, 1996

TYPE CERTIFICATE DATA SHEET NO. P-833

Propellers of models described herein conforming with this data sheet (which is a part of Type Certificate No. 833) and other approved data on file with the Federal Aviation Administration, meets 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 manuals and other approved instructions.

Type Certificate Holder	Kent Tarver P. O. Box 223 La Canada, California 91012
Type	Automatic; mechanical (See NOTE 3)
Engine Shaft	SAE No. 20 spline
Hub Material	Steel
Blade Material	Laminated maple or birch veneer with plastic covering all over, and with monel or stainless steel tipping
No. of Blades	Two
Hub Models	220, 220-1, 220-H (See NOTES 1 and 3)

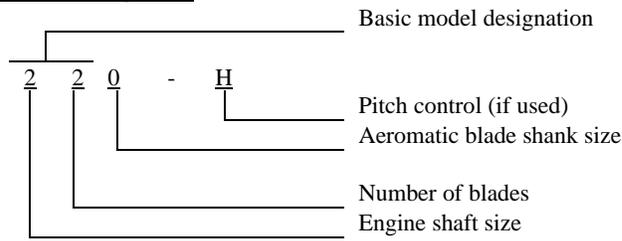
Blades Eligible (See Note 2)	Maximum Continuous		Takeoff		Diameter Limits	Approx. Maximum Weight Complete (For reference only) (See Note 3)
	HP	RPM	HP	RPM		
O-74A	235	3000	235	3000	74"	48 lbs.
O-78	190	2550	190	2550	78"	51 lbs.
O-78A	200	2550	200	2550	78"	51 lbs.
O-82A	200	2550	200	2550	82"	54 lbs.
O-85	200	2550	205	2600	85"	55 lbs.
O-85AZ	145	2050	145	2050	85"	55 lbs.
O-86A	200	2550	200	2550	86"	55 lbs.
O-93	240	1925	260	2200	93"	59 lbs.

Certification Basis	Civil Air Regulations Part 14 effective July 15, 1942. Date of issuance of Type Certificate No. 833: December 12, 1945. Date of application for Type Certificate unavailable.
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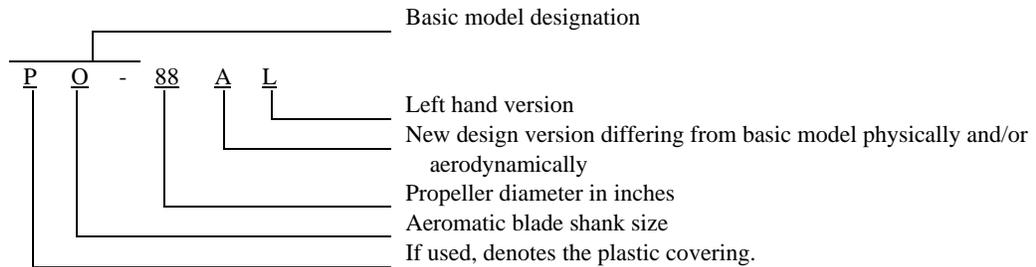
Production Basis	None
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NOTE 1. Hub Model Designation.



NOTE 2. Blade Model Designation.



NOTE 3. Pitch Control. The Model 220 is automatic in operation and requires no controls. The Model 220-1 incorporates a manual-mechanical pitch control which provides improved performance at altitude (additional weight 11 lbs.). The Model 220-H incorporates a manual-hydraulic pitch control which provides improved performance at altitude (additional weight; propeller attachments 10 lbs., Regulator valve and oil lines 2 lbs., Control cable 2 lbs.).

NOTE 4. Not applicable

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

NOTE 6. Interchangeable Blades. Blades must be used only in pairs which have been matched in accordance with the manufacturer's instructions.

NOTES 7, 8 and 9. Not applicable.

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