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**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

P-833  
Revision No. 17

**TARVER  
(BROWN PROPELLER)  
(SOUTH 80)  
(UNIVAIR)  
(KOPPERS)**

220  
220-1  
220-H

September 17, 2003

(See NOTES Section)

**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** Tarver Propellers, LLC  
1500 Rio Vista Drive, Hanger C4  
Fallon, Nevada 89406

(See NOTES Section)

**Type** Automatic; mechanical (See Note 3)

**Engine Shaft** SAE No. 20 spline

**Hub Material** Steel

**Blade Material** Laminated birch or maple 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	2550	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.

**Production Basis** None

NOTES

NOTE 1. Hub Model Designation.

|----- Basic model designation  
|  
2 2 0 - H  
| | | |  
| | | |----- Pitch control (if used)  
| | | |----- Aeromatic blade shank size  
| | | |----- Number of blades  
| | | |----- Engine shaft size

NOTE 2. Blade Model Designation.

|----- Basic model designation  
|  
P O - 88 A L  
| | | | |  
| | | | |-- Left hand version  
| | | | |----- New design version differing from basic  
| | | | | model physically and/or aerodynamically  
| | | | |----- Propeller diameter in inches  
| | | | |----- Aeromatic blade shank size  
| | | | |----- If used, denotes the plastic covering.

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**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.

**NOTE 7, 8 and 9.** Not applicable.

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