U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION TYPE CERTIFICATE DATA SHEET P21BO	TCDS NUMBER: P21BO REVISION: 5 AVIA PROPELLER LTD. MODEL/S: AVIA V508, V508B, V508D, V508D-2, V508D-AG, V508E, V508Z, V508E-AG, V508H April 18, 2013

Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P21BO) 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	Avia Propeller Ltd. Beranovych 65/666 199 00 Prague 9 – Letnany Czech Republic
TYPE	Constant speed; hydraulic; variable pitch tractor
ENGINE SHAFT	Flanged: 4.25” (107.95 mm) bolt circle
HUB MATERIAL	Steel (forging)
BLADE MATERIAL	Aluminum Alloy (forging)
NUMBER OF BLADES	3
DESIGN SERIES	AVIA V508, V508B, V508D, V508D-2, V508D-AG, V508Z, V508E, V508E-AG, V508H

HUB	BLADE NOTE 2	MAXIMUM CONTINUOUS HP/KW	RPM	<TAKE OFF> HP/KW	RPM	NOMINAL DIAMETER inches/cm	APPROXIMATE WEIGHT lbs. /kg. See NOTE 8
See NOTE 1	059-1100	850/635	2080	850/635	2080	99 in.	147.2 lbs. - 152 lbs.
						250 cm.	66.8 kg. - 69 kg.
	010-1096	850/635	2080	850/635	2080		
See NOTE 1	076-1100	850/635	2080	850/635	2080	99 in.	144 lbs. - 149 lbs.
						250 cm.	65.3 kg. - 67.5 kg.
	010-1097	850/635	2080	850/635	2080		
See NOTE 1	076-1100.1	850/635	2080	850/635	2080	84.0 in.	141 lbs. - 145 lbs.
						213.4 cm.	63.8 kg. - 66 kg.
	010-1098	850/635	2080	850/635	2080		
See NOTE 1	076-1100.2	850/635	2080	850/635	2080	106 in.	147.2 lbs. - 152 lbs.
						270 cm	66.8 kg - 69 kg
	010-1053	850/635	2080	850/635	2080		

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CERTIFICATION BASIS: The U.S. certification basis determined under Section 21.29 of the FAR and Bilateral Airworthiness Agreement between the United States and the Czech Republic is FAR 35, effective February 1, 1965, Amendment: 35-1 to 35-6 inclusive.

Civil Aviation Authority Czech Republic (CAA CZ) originally type certificated this propeller under its Type Certificate Number 91-01. The FAA validated this product under U.S. Type Certificate Number P21BO. Effective September 28, 2003, the European Aviation Safety Agency (EASA) began oversight of this product on behalf of Czechoslovakia.

TC (IMPORT) NO. EASA.P.028

TC APPLICATION DATE: June 21, 2000

TC ISSUED: January 11, 2001, revised April 5, 2002, November 1, 2002, March 21, 2012, April 18, 2013.

IMPORT REQUIREMENTS: To be considered eligible for installation on U.S. registered aircraft, each propeller to be exported to the United States shall be accompanied by a Certificate of Airworthiness for export endorsed by the Civil Aviation Authority Czech Republic (CAA CZ) on behalf of the European Community which contains the following language:

(1) This propeller conforms to its United States type design (TC No. P21BO) and is in a condition for safe operation.

(2) This propeller has been subjected by the manufacturer to a final operational check and is in a proper state of airworthiness. Reference FAR Section 21.500 which provides for the airworthiness acceptance of aircraft engines or propellers manufactured outside the U.S. for which a U.S. type certificate has been issued. Additional guidance is contained in FAA Advisory Circular 21-23, Airworthiness Certification of Civil Aircraft, Engines, Propellers and Related Products, Imported into the United States.

NOTES

NOTE 1: Hub model designation.

066-0000	propeller V508
066-0000	propeller V508B
066-0000	propeller V508D
066-0000	propeller V508D-2
066-0000	propeller V508D-AG
066-0000	propeller V508Z
076-0000	propeller V508E
076-0000	propeller V508E-AG
100-0000	propeller V508H

NOTE 2: Propeller blades designation.

(a) 99A - Basic blade model designation - blade drawing P/N 059-1100, clockwise rotation (propeller diameter 2500 mm)
  (1) 99A/B1 - blade with de-icer 28VDC, single element
  (2) 99A/B2 - blade with de-icer 28VDC, dual element
  (3) 99A/A - blade without de-icer

(b) 99B - Basic blade model designation - blade drawing P/N 076-1100, clockwise rotation (propeller diameter 2500 mm)
  (1) 99B/B1 - blade with de-icer 28VDC, single element

(2) 99B/B2 - blade with de-icer 28VDC, dual element
(3) 99B/A - blade without de-icer

(c) 99C - Basic blade model designation – blade drawing P/N 010-1096, clockwise rotation (propeller diameter 2500 mm)
(1) 99C/B1 - blade with de-icer 28VDC, single element
(2) 99C/B2 - blade with de-icer 28VDC, dual element
(3) 99C/A - blade without de-icer

(d) 99D - Basic blade model designation – blade drawing P/N 010-1097, clockwise rotation (propeller diameter 2500 mm)
(1) 99D/B1 - blade with de-icer 28VDC, single element
(2) 99D/B2 - blade with de-icer 28VDC, dual element
(3) 99D/A - blade without de-icer

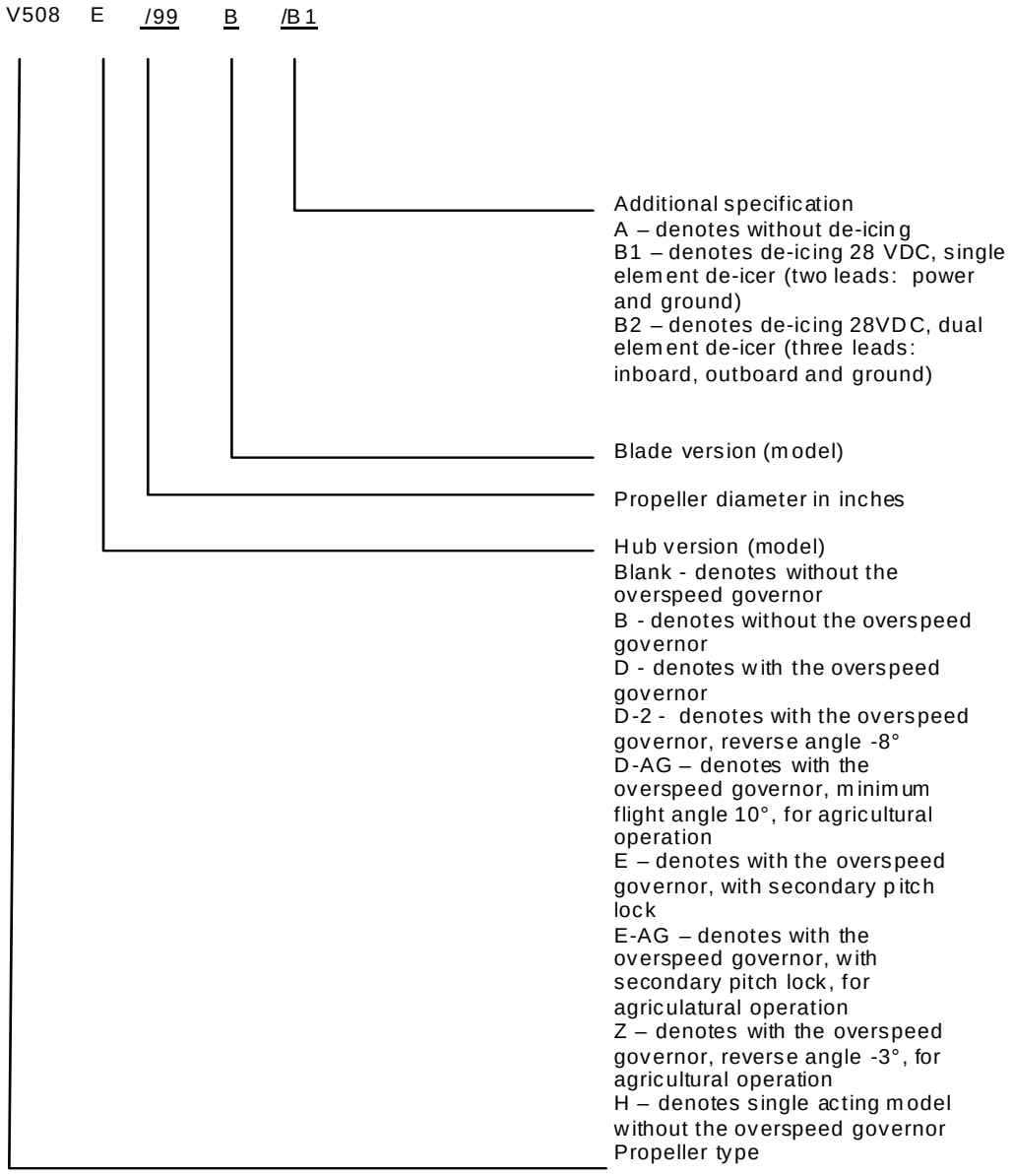
(e) 84 - Basic blade model designation - blade drawing P/N 076-1100.1, clockwise rotation (propeller diameter 2134 mm)
(1) 84/B1 - blade with de-icer 28VDC, single element
(2) 84/B2 - blade with de-icer 28VDC, dual element
(3) 84/A - blade without de-icer

(f) 84B – Basic blade model designation – blade drawing P/N 010-1098, clockwise rotation (propeller diameter 2134mm)
(1) 84B/B1 - blade with de-icer 28VDC, single element
(2) 84B/B2 - blade with de-icer 28VDC, dual element
(3) 84B/A - blade without de-icer

(g) 106 - Basic blade model designation - blade drawing P/N 076-1100.2, clockwise rotation (propeller diameter 2700 mm)
(1) 106/B1 - blade with de-icer 28VDC, single element
(2) 106/B2 - blade with de-icer 28VDC, dual element
(3) 106/A - blade without de-icer

(h) 106B – Basic blade model designation – blade drawing P/N 010-1053, clockwise rotation (propeller diameter 2700 mm)
(1) 106B/B1 - blade with de-icer 28VDC, single element
(2) 106B/B2 - blade with de-icer 28VDC, dual element
(3) 106B/A – blade without de-icer

NOTE 3: Propeller designation.
The complete propeller designation is a combination of propeller hub, propeller blade and additional specification.



NOTE 4: Pitch control.

(a) The propellers are approved for flight operation with propeller speed governors which are listed in Avia Propeller Service Bulletin No. 3

(b) The propellers are approved for flight operation with propeller overspeed governors which are listed in the appropriate propeller parts list

NOTE 5: (a) Feathering.

The propellers incorporate feathering and unfeathering features when equipped with appropriate mounted instruments (see Note 4 and 8). Blade feathering is accomplished by:

(1) by oil pressure - all versions

(2) by outweighing moment of counterweights - all versions

(b) Reversing.
All propellers models incorporate reversing feature when equipped with appropriate mounted instruments (See Note 4). Maximum reverse angle for propeller diameter of 2134 mm/84" and 2500 mm/99: (2700 mm/106")

(1)	V508, V508B, V508D, V508D-AG and V508E V508E-AG	-18°30' (-21°30')
(2)	V508Z	-3°(-6°)
(3)	V508D-2	-8°(-11°)
(4)	V508H	-14°30'(-17°30')

NOTE 6: Clockwise rotation.
(a) Rotation of the approved propellers is clockwise when looking from the engine side

NOTE 7: Interchangeability of the propeller blades.
Not applicable

NOTE 8: Accessories.
(a) The propellers are approved for flight operation with the accessories according to Avia Propeller Service Bulletin No. 3

(b) Propellers de-icing according to Avia Propeller Service Bulletin No. 4

(c) Propeller spinner according to Avia Propeller Service Bulletin No. 2
(1) Weight of the propeller spinner is included in the total weight of propeller

NOTE 9: Shank fairings.
Not applicable.

NOTE 10: Special limits.

*Life limited components of the Avia V508 series propeller are listed in Operation and Installation Manual. Time Between overhauls (TBOs) is listed in Avia Propeller Service Bulletin No. 1

NOTE 11: Operating and Service Instructions for Avia V508 series propellers
Instructions for continued airworthiness are listed in these documents

Version (model)	Overhaul Manual (part number)	Installation and Operation Manual (part number)
V508, V508B	E-1461, EN-1370	E-1500
V508D	E-1461, EN-1370	E-1500
V508D-2	E-1461, EN-1370	E-1500
V508D-AG	E-1461, EN-1370	E-1500
V508E, V508E-AG	E-1461, EN-1370	E-1500
V508Z	E-1461, EN-1370	E-1500
V508H	E-1461, EN-1370	E-1500

NOTE: 12: Special notes.
(a) Aircraft propeller installations must be approved as part of the aircraft type certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.

NOTE 13: Service Information: Each of the documents listed below must state that it is approved by the European Aviation Safety Agency (EASA) or – for approvals made before September 28, 2003 – by the CAA CZ. Any such documents are accepted by the FAA and are considered FAA approved.

- Service bulletins,
- Structural repair manuals,
- Vendor manuals,
- Aircraft flight manuals, and
- Overhaul and maintenance manuals.

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