DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A10WE
Revision 8
WEATHERLY
201
201A
201B
201C

November 5, 2014

TYPE CERTIFICATE DATA SHEET NO. A10WE

This data sheet which is part of type certificate No. A10WE prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder	Weatherly Aircraft Company 2034 W. Potomac Avenue Chicago, Illinois 60622-3152
Type Certificate Ownership Record	GBECK, Inc. (D.B.A.) Weatherly Aircraft Company, 5000 Bailey Loop, McClellan, California 95652 transferred ownership of TC A10WE to Weatherly Aircraft Company on October 20, 2000

I - Model 201 (Restricted Category) Approved January 30, 1967

Engine: Pratt & Whitney R985-AN1, AN-3, or AN-14B

Fuel: 80/87 Minimum Grade Aviation Gasoline

Engine Limits

Engine Model AN-1 & AN-3	HP	RPM	In. Hg.	Press Alt.
Takeoff (1 min.) at SL	450	2300	37.5	SL
Max. Continuous at SL	290	2000	30.0	SL
Max. Continuous (Rated Press Alt.)	327	2000	30.0	6300

Engine Model AN-14B	HP	RPM	In. Hg.	Press Alt.
Takeoff (1 min.) at SL	450	2300	36.5	SL
Max. Continous at SL	310	2000	30.0	SL
Maximum Continuous (Rated Press Alt.)	343	2000	30.0	6500

Propeller and propeller limits: Hamilton Standard 2D-30 Hub, 6101A or 6167A blades
Diameter: Not over 108 ins.; Not under 99 ins.

Air Speed limits:

V_{ne} - Never Exceed	145 mph (126 knots)	EAS
V_{no} - Max. Structural	128 mph (111 knots)	EAS
V_p - Maneuvering	115 mph (100 knots)	EAS

C.G. range: Inches Aft of Datum (+20.8) to (+24.84) at all weights

Empty weight C.G. range: None

Datum: Wing Leading Edge

Max. weight: 3500 Lbs.

Leveling means	Leveling lugs on right side of fuselage Aft of Pilot's Seat
No. seats	1 (+67.0)
Hopper capacity	1000 Lbs. (+15.0)
Fuel capacity	48 Gal. Total - 2 wing tanks 24 Gal. Ea. Unusable Fuel - 2 Gal. per tank (+36.0)
Oil capacity	7 1/2 Gal. plus 1 Gal. in System (+86.0)

Control surface movements					
	Rudder	Left	20° ± 1°	Right	20° ± 1°
	Elevator	Up	28° ± 1°	Down	15° ± 1°
	Elevator tab	Up	7° ± 1°	Down	15° ± 1°
	Aileron	Up	27° ± 1°	Down	16° ± 1°

Serial Nos. eligible	101 thru 109

II - Model 201A (Restricted Category) Approved November 27, 1968

Same as Model 201 except for larger wing fuel tanks, tail wheel gear and minor changes.

Engine	Pratt & Whitney R985-AN1, AN-3, or AN-14B
Fuel	80/87 Minimum Grade Aviation Gasoline

Engine Limits

Engine Model AN-1 & AN-3	HP	RPM	In. Hg.	Press Alt.
Takeoff (1 min.) at SL	450	2300	37.5	SL
Max. Continuous at SL	290	2000	30.0	SL
Max. Continuous (Rated Press Alt.)	327	2000	30.0	6300

Engine Model AN-14B	HP	RPM	In. Hg.	Press Alt.
Takeoff (1 min.) at SL	450	2300	36.5	SL
Max. Continous at SL	310	2000	30.0	SL
Maximum Continuous (Rated Press Alt.)	343	2000	30.0	6500

Propeller and propeller limits	Hamilton Standard 2D-30 Hub, 6101A or 6167A blades Diameter: Not over 108 ins.; Not under 98 ins. Pitch Settings at 42" Station: (Two Position) - 15° Low 17° High Static RPM at Max. permissible throttle settings: Not over 2150; not under 2050 (Constant Speed Optional) - 14° Low 23° High

Air Speed limits		
	Vne - Never Exceed	145 mph (126 knots) EAS
	Vno - Max. Structural	128 mph (111 knots) EAS
	Vp - Maneuvering	115 mph (100 knots) EAS

C.G. range	Inches Aft of Datum (+20.8) to (+24.84) at all weights
Empty weight C.G. range	None
Datum	Wing Leading Edge

Max. weight	3500 Lbs.
Leveling means	Leveling lugs on right side of fuselage. Aft of Pilot's Seat
No. seats	1 (+67)
Hopper capacity	1000 Lbs. (+15.0)
Fuel capacity	55 Gal. Total - 2 wing tanks 27 1/2 Gal. Each Unusable Fuel - 2 1/2 Gal. per tank (+36.0)
Oil capacity	7 1/2 Gal. plus 1 Gal. in System (+86.0)

Control surface movements

Rudder	Left	20° ± 1°	Right	20° ± 1°
Elevator	Up	27° ± 1°	Down	15° ± 1°
Elevator tab	Up	7° ± 1½°	Down	15° ± 1½°
Aileron	Up	25° ± 1°	Down	16° ± 1°

Serial Nos. eligible 110 thru 601

III - Model 201B (Restricted Category) Approved 2 December 1971

Same as Model 201A except for new leading edge fillet at wing root, wider canopy and other minor changes.

Engine	Pratt & Whitney R985-AN1, AN-3, or AN-14B
Fuel	80/87 Minimum Grade Aviation Gasoline

Engine Limits

Engine Model AN-1 & AN-3	HP	RPM	In. Hg.	Press Alt.
Takeoff (1 min.) at SL	450	2300	37.5	SL
Max. Continuous at SL	312	2000	30.0	SL
Max. Continuous (Rated Press Alt.)	340	2000	30.0	6600

Engine Model AN-14B	HP	RPM	In. Hg.	Press Alt.
Takeoff (1 min.) at SL	450	2300	36.5	SL
Max. Continous at SL	310	2000	30.0	SL
Maximum Continuous (Rated Press Alt.)	343	2000	30.0	6500

Propeller and propeller limits

Hamilton Standard 2D-30 Hub, 6101A or 6167A blades
Diameter: Not over 108 ins.; Not under 98 ins.

Pitch Settings at 42" Station:
(Two Position) - 15° Low 17° High
Static RPM at Max. permissible throttle settings: Not over 2150; not under 2050
(Constant Speed Optional) - 14° Low 23° High

Air Speed limits

Vne - Never Exceed	145 mph (126 knots) EAS
Vno - Max. Structural	128 mph (111 knots) EAS
Vp - Maneuvering	115 mph (100 knots) EAS

C.G. range Inches Aft of Datum (+20.8) to (+24.84) at all weights
Empty weight C.G. range None

Datum Wing Leading Edge outboard of fillet

Max. weight	3500 Lbs.
Leveling means	Leveling lugs on right side of fuselage. Aft of Pilot's Seat
No. seats	1 (+67.0)
Hopper capacity	1000 Lbs. (+15.0)
Fuel capacity	55 Gal. Total - 2 wing tanks 27 1/2 Gal. Each Unusable Fuel - 2 1/2 Gal. per tank (+36.0)
Oil capacity	7 1/2 Gal. plus 1 Gal. in System (+86.0)

Control surface movements

Rudder	Left	20° ± 1°	Right	20° ± 1°
Elevator	Up	27° ± 1°	Down	15° ± 1°
Elevator tab	Up	7° ± 1½°	Down	15° ± 1½°
Aileron	Up	25° ± 1°	Down	16° ± 1°

Serial Nos. eligible: 602 thru 1000

IV - Model 201C (Restricted Category) Approved December 23, 1975

Same as Model 201B except aft fuselage same monocoque and extended 6 inches, engine mount extended 1 inch, changes to cockpit arrangement, added center section fuel tank, relocated oil tank forward in engine compartment, steel beam tail gear instead of shock strut, chemical hopper reshaped, relocated battery, and other minor changes.

Engine: Pratt & Whitney R985-AN1, AN-3, or AN-1-14B

Fuel: 80/87 Minimum Grade Aviation Gasoline

Engine Limits

Engine Model AN-1 & AN-3	HP	RPM	In. Hg.	Press Alt.
Takeoff (1 min.) at SL	450	2300	37.5	SL
Max. Continuous at SL	290	2000	30.0	SL
Max. Continuous (Rated Press Alt.)	327	2000	30.0	6300

Engine Model AN-14B	HP	RPM	In. Hg.	Press Alt.
Takeoff (1 min.) at SL	450	2300	36.5	SL
Max. Continous at SL	310	2000	30.0	SL
Maximum Continuous (Rated Press Alt.)	343	2000	30.0	6500

Propeller and propeller limits

Hamilton Standard 2D-30 Hub, 6101A blades
Diameter: Not over 108 ins.; Not under 102 ins.

Pitch Settings at 42" Station:
(Constant Speed) - 10.5° Low 17° High

Hamilton Standard 2D-30 Hub, with A6-100-4S Blades
Diameter: Not over 104 ins.; Not under 102 ins.

Pitch Settings at 42" Station:
(Constant Speed) - 9.5° Low 17° High

Propeller and propeller limits (cont'd)	Hartzell HC-B3R30-4 Hub with R10152 - 5 1/2 R Blades Diameter: Not over 95 1/2 ins., Not under 95 1/2 ins. Pitch Settings at 30" Station: (Constant Speed) 17° Low 25° High Static RPM at maximum throttle setting not over 2300 RPM, Not under 2200 RPM Hartzell HC-B3R30-4 Hub with R10160-6 Blades Diameter: Not over 95 ins., Not under 95 ins. Pitch Settings at 30" Station (Constant Speed) 17° Low 25° High Placard Required See NOTE 2 B. Static RPM at maximum throttle setting not over 2300 RPM; not under 2200 RPM
Air Speed limits	Vne - Never Exceed 145 mph (126 knots) EAS Vno - Max. Structural 128 mph (111 knots) EAS Vp - Maneuvering 115 mph (100 knots) EAS
C.G. range	Inches Aft of Datum (+20.8) to (+25.3) at all weights
Empty weight C.G. range	None
Datum	Wing Leading Edge outboard of fillet
Max. weight	3500 Lbs.
Leveling means	Leveling lugs on outboard side of right hand fuselage, frame near Pilot's seat.
No. seats	1 (+68)
Hopper capacity	1000 Lbs. (+15.0)
Fuel capacity	72.5 Gal. Total - 1 Right Wing Tank 27 1/2 Gal. with Unusable Fuel 2 1/2 Gal. (+36.0) - 1 Left wing tank (Combined with center tank) 45 Gal. with Unusable 5 Gal. (+36.0)
Oil capacity	6.7 Gal. plus 1 Gal. in System (-22.2)
Control surface movements	Rudder Left 20° ± 1° Right 20° ± 1° Elevator Up 27° ± 1° Down 15° ± 1° Elevator tab Up 7° ± 1° Down 15° ± 1° Aileron Up 26° ± 1° Down 15° ± 1°
Serial Nos. eligible	1001 thru 1500

Specifications Pertinent to All Models

Certification basis	FAR 21.25(a) Effective February 1, 1965 and CAM 8 Appendix B Airworthiness Requirements. Restricted Type Certificate issued January 30, 1967. Application for Type Certificate dated December 20, 1965.
Production basis	None. Prior to original certification of each model , an FAA representative must perform a detailed inspection for workmanship, materials and conformity with the approved technical data, and perform a check of the flight characteristics.
Export eligibility	Aircraft will be eligible for issuance of an Export Certificate of Airworthiness subject to compliance with Federal Aviation Regulation Part 21. Subpart L, Sections 21.321 thru 21.339. The applicable procedures are contained in Advisory Circular 21-2.

Equipment — The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. (Addition required items of equipment are listed in the FAA Approved List No's A-10 for Model 201 and A-101A or A10B for Model 201A; A-10C-1 for Model 201C.

NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be provided for each aircraft at the time of original certification.

The certificated empty weight and corresponding center of gravity must include for Model 201, undrainable system oil of 7.0 lbs. at (+86.0) and unusable fuel 4 gal. (+36.0). For Model 201A, undrainable system oil for 7.0 lbs. at (+86.0) and unusuable fuel 5 gal. (+36.0). For Model 201C undrainable system oil is 2.3 lbs. at (-22.2) and unusable fuel is 7.5 gals. at (+36.0).

NOTE 2.

(a) In addition to the operating limitations in this data sheet, area, economic, passenger and other appropriate operating limitations in accordance with FAR 21.25 shall be shown on placards or listing accessible to the pilot.

(b) The following placards must be displayed in front of and in clear view of the pilot:

(1) "This airplane must be operated as a restricted category airplane in compliance with the operating limitations stated in the form of placards, markings, and manuals."

(2) "This airplane limited to day VFR operation only."

NOTE: When cockpit and navigation lights are installed per Weatherly Aviation Co. Drawing 50261D, night VFR operation is approved and this placard is not required.

(3) "Design maneuvering speed 115 mph, demonstrated crosswind velocity 5 mph."

(4) "Restricted" displayed at entrance to cockpit.

(5) When using Hartzell HC-B3R30 -4 Hub with R10160-6 Blades the following placard must be installed:

"AVOID CONTINUOUS OPERATION BETWEEN 1600 and 1800 RPM".

(c) Placard adjacent to Hopper compartment filler door:

(1) "1000 lbs. Max."

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