



Type Certificate

Number: VA516
Issue: 4

Type Certificate Holder: Boomerang Owners Group Pty Ltd
61 Gregory Street, Acacia Ridge,
QLD 4110

This certificate issued to Boomerang Owners Group Pty Ltd, certifies that, pursuant to regulation 21.013A of the *Civil Aviation Safety Regulations 1998* approval is hereby granted for the following aircraft.

DW200
DW200A

This certificate is valid until it is suspended or cancelled by the Civil Aviation Safety Authority. The basis of certification is as described in type certificate data sheet number VA516.

Date of application:	13 May 2003	Date of reissue:	05 October 2017
Date of issue:	18 December 2007	Date of reissue:	24 April 2020


Richard Stöcker
Delegate of the Authority



safe skies for all

No: VA516
Revision: 5
Aircraft: Boomerang Owners Group
Pty Ltd DW200, DW200A
Date 24 April 2020

TYPE CERTIFICATE DATA SHEET

This data sheet, which is part of Type Certificate No. VA516, lists the conditions and operational limitations under which the subject aircraft meets the airworthiness requirements of the Civil Aviation Safety Authority.

Certificate Holder

Boomerang Owners Group Pty Ltd
61 Gregory Street, Acacia Ridge,
QLD 4110
Australia

Previous Certificate Holder

Dean-Wilson Aviation Limited
ACN 103 360 274
PO Box 452,
Kingaroy, QLD 4610
Australia

I Model DW200 (Normal Category) Approved 18 December 2007

Engine	Textron Lycoming O-235-N2C		
Fuel	100/130 aviation gasoline (Green) 100LL aviation gasoline (Blue)		
Engine Limits	116 BHP at 2800 RPM		
Propeller	McCauley 1A135/JCM7147 2 blade metal, fixed pitch		
	Diameter	Not over	1803 mm
		Not under	1767 mm



Airspeed Limits	Never exceed V_{ne}	152 KIAS
	Max structural cruise V_{no}	112 KIAS
	Manoeuvring V_a	112 KIAS
	Max flaps extended V_{fe}	81 KIAS
Centre of Gravity Range	Forward Limit	280 mm
	Aft Limit	364 mm
	Mean Aerodynamic Chord	1400 mm
Datum	Wing Leading Edge – Inboard (Fuselage Station 624.4mm, Fuselage Station 0 is the centreline of the fuselage tubes just aft of the firewall)	
Levelling Means	Longitudinal	By spirit level on the lower door sill
	Lateral	By spirit level across left and right door sills
Maximum Weights	Maximum Taxi, Take-off and Landing	825 kg
Flight Load Factor Limits	Flaps Up	+4.4g, -2.2g
	Flaps Down	+2.0g, 0.0g
Minimum Crew	One (permitted from either seat)	
Number of Seats	Two (+380 mm)	
Maximum Baggage	20 Kg	
Fuel Capacity	Total Fuel Capacity	150.6 litres (39.8 US gallons)
	Total Fuel Each Tank	75.3 litres (19.9 US gallons)
	Total Useable Fuel	138.6 litres (36.6 US gallons)
	Total Unusable Fuel	12 litres (3.2 US gallons)
		(6 litres per Tank)
Oil Capacity	Total	5.7 litres
	Minimum Safe Quantity	3.8 litres
Crosswind Component	Maximum for take-off and landing	12 knots
Maximum Operation Altitude	10,000 ft AMSL	


24 APRIL 2020

Control Surface Movements	Elevator	Up	$30.0^{\circ} \pm 1.0^{\circ}$	Down	$25.0^{\circ} \pm 1.0^{\circ}$
	Aileron	Up	$21.0^{\circ} \pm 1.0^{\circ}$	Down	$16.0^{\circ} \pm 1.0^{\circ}$
	Rudder	Left	$25.0^{\circ} \pm 1.0^{\circ}$	Right	$25.0^{\circ} \pm 1.0^{\circ}$
Flap Movement	Take Off Flap	Clean			
	Landing Flap	$30.0^{\circ} \pm 1.0^{\circ}$			
Manufacturer's Serial numbers	B002 and Subsequent (refer Note 4 & 5).				
Certification Basis	Federal Aviation Regulations (FAR) Part 23 Amendment 55				
Production Basis	Production under Type Certificate only. Prior to the issue of the original Certificate of Airworthiness for each aircraft, CASA must be satisfied with the workmanship, materials, conformity with the approved technical data and flight characteristics.				
Operations Permitted	Day and Night VFR				
Equipment	1. The CASA approved Aircraft Flight Manual details required equipment for kinds of operations.				
	2. Other equipment may be required, to meet applicable operational regulations.				
Type Design Data	1. Master Drawing List DW200-MDL-02 dated 10 August 2009 including later approved changes.				
	2. Aircraft Flight Manual, Document FM-1 "Whitney Boomerang DW200" Pilot Operating Handbook and Approved Flight Manual.				

II Model DW200A (Normal Category) Approved 04 September 2009

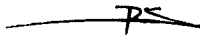
Engine	Textron Lycoming O-235-N2C		
Fuel	100/130 aviation gasoline (Green)		
	100LL aviation gasoline (Blue)		
Engine Limits	116 BHP at 2800 RPM		
Propeller	McCauley 1A135/JCM7145 2 blade metal, fixed pitch		
	Diameter	Not over	1803 mm
		Not under	1767 mm
		Static RPM	2440-2540 rpm

PS
24 APRIL 2020

Airspeed Limits	Never exceed V_{ne}	152 KIAS
	Max structural cruise V_{no}	112 KIAS
	Manoeuvring V_a	106 KIAS
	Max flaps extended V_{fe}	77 KIAS
Centre of Gravity Range	Forward Limit	280 mm
	Aft Limit	364 mm
	Mean Aerodynamic Chord	1400 mm
Datum	Wing Leading Edge – Inboard (Fuselage Station 624.4mm, Fuselage Station 0 is the centreline of the fuselage tubes just aft of the firewall)	
Levelling Means	Longitudinal	By spirit level on the lower door sill
	Lateral	By spirit level across left and right door sills
Maximum Weights	Maximum Taxi & Take-off	850 kg
	Maximum Landing	825 kg
Flight Load Factor Limits	Flaps Up	+3.8g, -1.9g
	Flaps Down	+2.0g, 0.0g
Minimum Crew	One (permitted from either seat)	
Number of Seats	Two (+380 mm)	
Maximum Baggage	30 Kg	
Fuel Capacity	Total Fuel Capacity	150.6 litres (39.8 US gallons)
	Total Fuel Each Tank	75.3 litres (19.9 US gallons)
	Total Useable Fuel	138.6 litres (36.6 US gallons)
	Total Unusable Fuel	12 litres (3.2 US gallons) (6 litres per Tank)
Oil Capacity	Total	5.7 litres
	Minimum Safe Quantity	3.8 litres
Crosswind Component	Maximum for take-off and landing	12 knots
Maximum Operation Altitude	10,000 ft AMSL	


24 APRIL 2020

Control Surface Movements	Elevator	Up	30.0° ± 1.0°	Down	25.0° ± 1.0°
	Aileron	Up	21.0° ± 1.0°	Down	16.0° ± 1.0°
	Rudder	Left	25.0° ± 1.0°	Right	25.0° ± 1.0°
Flap Movement	Take Off Flap	Clean			
	Landing Flap	30.0° ± 1.0°			
Manufacturer's Serial numbers	A001 and Subsequent.				
Certification Basis	Federal Aviation Regulations (FAR) Part 23 Amendment 55				
Production Basis	Production under Type Certificate only. Prior to the issue of the original Certificate of Airworthiness for each aircraft, CASA must be satisfied with the workmanship, materials, conformity with the approved technical data and flight characteristics.				
Operations Permitted	Day and Night VFR				
Equipment	1. The CASA approved Aircraft Flight Manual details required equipment for kinds of operations.				
	2. Other equipment may be required, to meet applicable operational regulations.				
Type Design Data	3. Master Drawing List DW200-MDL-02A dated 10 August 2009 including later approved changes.				
	4. Aircraft Flight Manual, Document FM-2 “Whitney Boomerang DW200A” Pilot Operating Handbook and Approved Flight Manual.				
Notes	1. A current weight and balance report including a list of equipment included in the certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of issue of a Certificate of Airworthiness.				
	2. The placards required in the approved Aircraft Flight Manual must be installed in the appropriate location.				
	3. Service life limits for life limited parts are contained in the applicable manufacturer's Maintenance Manuals, Chapter 4, Airworthiness Limitations.				

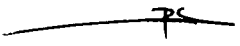

24 APRIL 2020

4. The wing fitted to S/No. B002 has a unique configuration. Any repairs to this wing must be referred to Dean Wilson Aviation.
5. For DW200 aircraft with DWA Service Bulletin 0006 incorporated, Use flight manual and limitations as per Model DW200A.

Revision Status

1. Revision 1 adds a new serial number to the applicability; deletes reference to Additional Conditions on the original TCDS; and corrects the Up Aileron angle.
2. Revision 2 adds model DW200A to the TCDS; adds note 5 for DW200 aircraft operating at 850kg MTOW; Adds TCDS Revision Status.
3. Revision 3 clarifies that the total unusable fuel is 12 litres, 6 litres in each tank.
4. Revision 4 transfers the Type Certificate from Dean-Wilson Aviation Limited to Boomerang Owners Group Pty Ltd.
5. Revision 5 Changes the address of Boomerang Owners Group Pty Ltd, and clarifies the specification of approved fuels for the DW200 and DW200A models.

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24 APRIL 2020