

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A30CE Revision 4 BEECH 77 April 15, 1996
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TYPE CERTIFICATE DATA SHEET A30CE

This data sheet which is a part of Type Certificate No. A30CE prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Civil Air Regulations.

Type Certificate Holder	Raytheon Aircraft Company 9709 E. Central Wichita, KS 67201
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I - Model 77, Skipper, 2 PCLM (Utility Category), Approved March 19, 1979

Engine	Lycoming O-235-L2C								
Fuel	100 (green) minimum grade aviation fuel or 100 low lead (blue)								
Oil	First 50 hours MIL-L-6082C - thereafter MIL-L-22851								
Engine limits	For all operations, 2700 r.p.m. (115 hp.)								
Propeller and propeller limits	(a) Sensenich 72CK512-0-52 propeller Static r.p.m. at maximum permissible throttle setting: not over 2375, not under 2275 Diameter: 72 in., nominal. Minimum allowed for repair 70 in., no further reduction permitted (b) Beech spinner assembly 108-910033-1								
Airspeed limits (IAS)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Never exceed</td> <td>143 knots (165 m.p.h.)</td> </tr> <tr> <td>Maximum structural cruising</td> <td>119 knots (137 m.p.h.)</td> </tr> <tr> <td>Maneuvering</td> <td>109 knots (125 m.p.h.)</td> </tr> <tr> <td>Flaps extended (30°)</td> <td>90 knots (104 m.p.h.)</td> </tr> </table>	Never exceed	143 knots (165 m.p.h.)	Maximum structural cruising	119 knots (137 m.p.h.)	Maneuvering	109 knots (125 m.p.h.)	Flaps extended (30°)	90 knots (104 m.p.h.)
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Flaps extended (30°)	90 knots (104 m.p.h.)								
C.G. range	<u>Utility Category</u> (+85.8) to (+88.9) at 1675 lb. (+85.0) to (+88.9) at 1470 lb. and less Straight line variation between points given								
Empty weight C.G. range	None								
Maximum weight	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Ramp</td> <td>1680 lb.</td> </tr> <tr> <td>Takeoff</td> <td>1675 lb.</td> </tr> <tr> <td>Landing</td> <td>1675 lb.</td> </tr> </table>	Ramp	1680 lb.	Takeoff	1675 lb.	Landing	1675 lb.		
Ramp	1680 lb.								
Takeoff	1675 lb.								
Landing	1675 lb.								
No. of seats	2 maximum (at +89 forward to +97 aft position)								
Maximum baggage	120 lb. (+119.0)								

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Fuel capacity	<u>Tank</u>	<u>Total Capacity Gal.</u>	<u>Total Usable Gal.</u>	<u>Arm</u>
	L&R main (15 gal. ea.)	30	29	+81.5
	See NOTE 1 for data on unusable fuel.			
Oil capacity	<u>Capacity Qt.</u>	<u>Arm</u>		
	6	+37.8		
	See NOTE 1 for data on undrainable oil.			
Control Surface Movements	Wing flaps		Down 30° ± 1°	
	Aileron	Up 27° ± 1°	Down 14° ± 1°	
	Rudder	Right 25° ± 1°	Left 25° ± 1°	
	Elevator	Up 20° ± 1°	Down 15° ± 1°	
	Elevator tab (with elevator neutral)	Up 5° ± ½	Down 15° ± ½	
Serial Nos. eligible	WA-3 and up			

Data Pertinent to All Models

Datum	74.55 inches forward of wing leading edge (constant chord section)
Leveling means	Baggage compartment floor
Certification basis	Part 23 of the Federal Aviation Regulations effective February 1, 1965, as amended by 23-1 through 23-16 and FAR 36 as amended by 36-1 through 36--10. Equivalent safety findings: FAR 23.621, 23.1545(a), and 23.1583(a). Application for type certificate dated October 18, 1976. Type Certificate No. A30CE issued March 19, 1979, obtained by the manufacturer under delegation option procedures.
Production basis	Production Certificate No. 8. Delegation Option Manufacturer No. CE- 2 authorized to issue airworthiness certificates under delegation option provisions of Part 21 of the Federal Aviation Regulations.
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.

NOTE 1. Current weight and balance data, loading information, and a list of equipment included in basic empty weight must be provided for each aircraft at the time of original certification.

- a. Basic empty weight includes unusable fuel of 7.7 lb. at +85.3, with 1.7 lb. at +84.9 being undrainable.
- b. Basic empty weight includes engine oil of 12.4 lb. at +38.5, with 0.8 lb. being undrainable.

NOTE 2. All placards required in the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual must be installed in the appropriate locations.

NOTE 3. Mandatory retirement times for all structural components are contained in the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual (P/N 108-590000-5) Limitations Section. These limitations may not be changed without FAA Engineering approval.

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