



Empty weight C.G. range	None																														
Datum	18 inches forward of Engine Propeller attachment face or 90.91 inches forward of wing leading edge at wing station 59.25 (Airplane Sta. 0)																														
Leveling means	Bottom edge of upper tailcone skin immediately above large access panel on left side of tailcone.																														
Maximum weight	3680 lbs.																														
Minimum crew	Pilot																														
Number of seats	5 (2 at 102.2 to 107.2, 2 at 141.7 to 151.5, 1 at 175.7).																														
Maximum baggage	100 lbs. at 171.0 (5 place). 100 lbs. at 171.0 and 170 lbs. at 175.7 (4 place).																														
Fuel capacity	540.0 lbs. (90.0 gal. in two 45.0 gal. tanks in wings at Sta. 106.6). See NOTE 1 for data on unusable fuel.																														
Oil capacity	14 qts. at Sta. 40. 10 qts. usable.																														
Max. operating Alt.	Aircraft may not be operated at or above 24,000 feet.																														
Control surface	(Aircraft with Serial Numbers up to 690001, except Serial No. 660006). <table border="0"> <tr> <td>Wing flaps</td> <td>Up <math>0^{\circ} \pm 2^{\circ}</math></td> <td>Down <math>35^{\circ} \pm 1^{\circ}</math></td> </tr> <tr> <td>Aileron</td> <td>Up <math>17^{\circ}</math> to <math>20^{\circ}</math></td> <td>Down <math>9.5^{\circ} \pm .5^{\circ}</math></td> </tr> <tr> <td>Elevator</td> <td>Up <math>24^{\circ} \pm 1^{\circ}</math></td> <td>Down <math>24^{\circ} \pm 1^{\circ}</math></td> </tr> <tr> <td>Rudder</td> <td>Left <math>28^{\circ} \pm 1^{\circ}</math></td> <td>Right <math>28^{\circ} \pm 1^{\circ}</math></td> </tr> <tr> <td>Stabilizer</td> <td>Up 0 to <math>-1^{\circ}</math></td> <td>Down <math>-7.5^{\circ}</math> to <math>-8^{\circ}</math></td> </tr> </table> <p>Elevator Trim Assist Unit: With full nose up stabilizer setting, the elevator neutral point should be <math>13.5^{\circ} \pm 2^{\circ}</math> up.</p> <p>(Aircraft with Serial Numbers up to 660006, 690001 and up)</p> <table border="0"> <tr> <td>Wing flaps</td> <td>Up <math>0^{\circ} \pm 2^{\circ}</math></td> <td>Down <math>35^{\circ} \pm 1^{\circ}</math></td> </tr> <tr> <td>Aileron</td> <td>Up <math>17^{\circ}</math> to <math>20^{\circ}</math></td> <td>Down <math>9.5^{\circ} \pm .5^{\circ}</math></td> </tr> <tr> <td>Elevator</td> <td>Up <math>24^{\circ} \pm 1^{\circ}</math></td> <td>Down <math>24^{\circ} \pm 1^{\circ}</math></td> </tr> <tr> <td>Rudder</td> <td>Left <math>28^{\circ} \pm 1^{\circ}</math></td> <td>Right <math>28^{\circ} \pm 1^{\circ}</math></td> </tr> <tr> <td>Stabilizer</td> <td>Up 0 to <math>-.5^{\circ}</math></td> <td>Down <math>-6^{\circ}</math> to <math>-6.5^{\circ}</math></td> </tr> </table> <p>Elevator Trim Assist Unit: With stabilizer set at <math>3.5^{\circ}</math> negative setting to thrust line, adjust trim assist bungees (P/N 740128-503) for an elevator position of <math>-1^{\circ} \pm 1/2^{\circ}</math> at the zero spring travel position of the bungee.</p>	Wing flaps	Up $0^{\circ} \pm 2^{\circ}$	Down $35^{\circ} \pm 1^{\circ}$	Aileron	Up $17^{\circ}$ to $20^{\circ}$	Down $9.5^{\circ} \pm .5^{\circ}$	Elevator	Up $24^{\circ} \pm 1^{\circ}$	Down $24^{\circ} \pm 1^{\circ}$	Rudder	Left $28^{\circ} \pm 1^{\circ}$	Right $28^{\circ} \pm 1^{\circ}$	Stabilizer	Up 0 to $-1^{\circ}$	Down $-7.5^{\circ}$ to $-8^{\circ}$	Wing flaps	Up $0^{\circ} \pm 2^{\circ}$	Down $35^{\circ} \pm 1^{\circ}$	Aileron	Up $17^{\circ}$ to $20^{\circ}$	Down $9.5^{\circ} \pm .5^{\circ}$	Elevator	Up $24^{\circ} \pm 1^{\circ}$	Down $24^{\circ} \pm 1^{\circ}$	Rudder	Left $28^{\circ} \pm 1^{\circ}$	Right $28^{\circ} \pm 1^{\circ}$	Stabilizer	Up 0 to $-.5^{\circ}$	Down $-6^{\circ}$ to $-6.5^{\circ}$
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Serial Numbers eligible	660006, 670001 through 670004, 680001 through 680015, 690001 through 690005, 700001 and on.																														
Certification basis	Type Certificate No. A6SW, (CAR 3 dated May 15, 1956, including all amendments through 3-8 and special conditions defined in FAA letter to Mooney dated October 13, 1964, and exemption 685 from first sentence of CAR 3.667(e)). Type Certificate issued and Delegation Option Manufacturer No. SW-1 authorized to issue airworthiness certificates under the Delegation Option Authorization provisions of Subpart J, Part 21 of the Federal Aviation Regulations on airplane Serial Nos. through 690002. Date of Application for Type Certificate November 20, 1964. Type Certificate issued September 26, 1966.																														
Production basis	None. Prior to original certification of each aircraft manufactured subsequent to March 7, 1969, an FAA representative must perform a detailed inspection for workmanship, materials and conformity with the approved technical data and a check of the flight characteristics.																														
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 report, including list of equipment included in certificated empty weight and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system). The certificated empty weight and the corresponding center of gravity location must include unusable fuel (not included in fuel capacity) as follows: 9.2 lbs., (1.5 gal.) See aircraft weight and balance data for wheel location.

NOTE 2: Placards

- a. The following placard must be displayed in front and in clear view of the pilot:  
"THIS AIRPLANE MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS."

.....END.....