

Manufacturer's Serial Nos. 28-20001 through 28-26946; and 28-7125001 through 28-7725290. The manufacturer is authorized to issue airworthiness certificates for airplane serial numbers 28-24677, 28-24682, 28-24697, 28-24698, 28-24700, 28-24703, 28-24704, 28-24705, 28-24706, 28-24709, 28-24710, 28-24712, 28-24713, 28-24714, 28-24715 through 28-26946, and 28-7125001 through 28-7725290 under the delegation option provisions of FAR 21. See NOTE 17 and 20.

VIII - Model PA-28-140 (Cherokee Cruiser), 4 PCLM (Normal Category), 2 PCLM (Utility Category), Approved June 17, 1965, for S/N 28-20001 through 28-26946, and 28-7125001 through 28-7725290.

Engine Lycoming O-320-E2A with carburetor setting 10-3678-32 or 10-5009 or O-320-E3D with carburetor setting 10-5009

Fuel 80/87 minimum grade aviation gasoline

Engine Limits For all operations 2700 r.p.m. (150 hp)

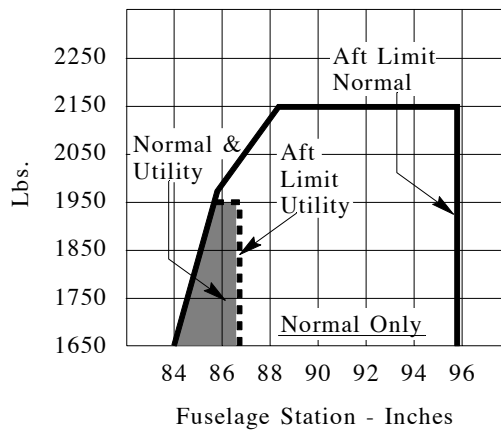
Propeller and Propeller Limits Sensenich M74DM or 74DM6
 Static r.p.m. at maximum permissible throttle setting not over 2425 r.p.m., not under 2275 r.p.m.
 No additional tolerance permitted.
 Diameter: Not over 74", not under 72.5".

Propeller Spinner Piper P/N 14422-00.
 See NOTE 11.

<u>Airspeed Limits</u>	Never exceed	171 mph	(148 knots)	CAS
	Maximum structural cruising	140 mph	(121 knots)	CAS
	Maneuvering	129 mph	(112 knots)	CAS
	Flaps Extended	115 mph	(100 knots)	CAS

Center of Gravity Range Utility Category
 (+84.0) to (+86.5) at 1650 lb. or less
 (+85.8) to (+86.5) at 1950 lb.

Normal Category
 (+84.0) to (+95.9) at 1650 lb. or less
 (+85.9) to (+95.9) at 1975 lb.
 (+88.4) to (+95.9) at 2150 lb.
 Straight line variation between points given.



<u>Empty Weight C. G. Range</u>	None																														
<u>Maximum Weight</u>	Normal Category: 2150 lb. Utility Category: 1950 lb.																														
<u>No. of Seats</u>	Normal Category: 4 (2 at +85.5, 2 at +117) Utility Category: 2 (2 at +85.5)																														
<u>Maximum Baggage</u>	Eligible Normal Category only: 100 lb. at (+117) on S/N 28-20001 through 28-20939 (See NOTE 12). 200 lb. at (+117) on S/N 28-20940 through 28-26946; and 28-7125001 through 28-7725290. 300 lb. at (+117 and +133) on S/N 28-20940 through 28-26946; and 28-7125001 through 28-7725290 (See NOTE 13).																														
<u>Fuel Capacity</u>	50 gallons at (+95) (2 wing tanks) See NOTE 1 for data on system fuel.																														
<u>Oil Capacity</u>	8 quarts at (+32.5) (6 quarts usable) See NOTE 1 for data on system oil.																														
<u>Control Surface Movements</u>	<table border="0"> <tr> <td>Wing flaps</td> <td>($\pm 2^\circ$)</td> <td>Up</td> <td>0°</td> <td>Down</td> <td>40°</td> </tr> <tr> <td>Ailerons</td> <td>($\pm 2^\circ$)</td> <td>Up</td> <td>30°</td> <td>Down</td> <td>15°</td> </tr> <tr> <td>Rudder</td> <td>($\pm 2^\circ$)</td> <td>Left</td> <td>27°</td> <td>Right</td> <td>27°</td> </tr> <tr> <td>Stabilator</td> <td>($\pm 1^\circ$)</td> <td>Up</td> <td>18°</td> <td>Down</td> <td>2°</td> </tr> <tr> <td>Stabilator Tab</td> <td>($\pm 1^\circ$)</td> <td>Up</td> <td>3°</td> <td>Down</td> <td>12°</td> </tr> </table>	Wing flaps	($\pm 2^\circ$)	Up	0°	Down	40°	Ailerons	($\pm 2^\circ$)	Up	30°	Down	15°	Rudder	($\pm 2^\circ$)	Left	27°	Right	27°	Stabilator	($\pm 1^\circ$)	Up	18°	Down	2°	Stabilator Tab	($\pm 1^\circ$)	Up	3°	Down	12°
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<u>Nose Wheel Travel</u>	<table border="0"> <tr> <td>($\pm 2^\circ$)</td> <td>Left</td> <td>30°</td> <td>Right</td> <td>30°</td> </tr> </table> <p>(Effective on S/N 28-20940 through 28-21845; 28-21931 through 28-21934; and 28-7425001 through 28-7725290)</p> <table border="0"> <tr> <td>($\pm 2^\circ$)</td> <td>Left</td> <td>22°</td> <td>Right</td> <td>22°</td> </tr> </table> <p>(Effective on S/N 28-21846 through 28-21930; 28-21935 through 28-26946; and 28-7125001 through 28-7325674)</p>	($\pm 2^\circ$)	Left	30°	Right	30°	($\pm 2^\circ$)	Left	22°	Right	22°																				
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IX - Model PA-28R-180 (Arrow), 4 PCLM (Normal Category), Approved June 8, 1967, for S/N 28R-30002 through 28R-31270, and 28R-7130001 through 28R-7130013.

<u>Engine</u>	Lycoming IO-360-B1E
<u>Injector</u>	Bendix type RSA-5ADI Parts List No. 2524297
<u>Fuel</u>	100/130 minimum grade aviation gasoline
<u>Engine limits</u>	For all operations, 2700 r.p.m. (180 hp)
<u>Propeller and Propeller Limits</u>	Hartzell constant speed Model HC-C2YK-()/7666A-0 or HC-C2YK-1()/F7666A Pitch: High $29.0^\circ \pm 1^\circ$, Low $13.0^\circ \pm .2^\circ$ at 30" Station. Diameter: Not over 76", not under 74.5". Governor Assembly: Hartzell F-2-2 () or F-2-7 () Avoid continuous operation between 2000 - 2200 r.p.m.