

NOTE: DATA IRRELEVANT TO THE PA-28-140 HAS BEEN REDACTED

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

2A13 Revision 60 Piper Aircraft, Inc	
PA-28-140	PA-28-150
PA-28-151	PA-28-160
PA-28-161	PA-28-180
PA-28-181	PA-28-201T
PA-28-235	PA-28-236
PA-28R-180	PA-28R-200
PA-28R-201	PA-28R-201T
PA-28RT-201	PA-28RT-201T
PA-28S-160	PA-28S-180
3/27/2020	

TYPE CERTIFICATE DATA SHEET NO. 2A13

This data sheet, which is a part of Type Certificate 2A13, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

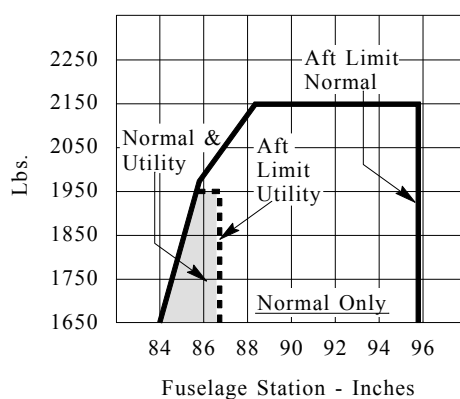
Type Certificate Holder Piper Aircraft, Inc.
2926 Piper Drive
Vero Beach, Florida 32960

Type Certificate Holder Record The New Piper Aircraft, Inc transferred TC 2A13 to Piper Aircraft, Inc on August 7, 2006.

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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.

<u>Engine</u>	Lycoming O-320-E2A with carburetor setting 10-3678-32 or 10-5009 or O-320-E3D with carburetor setting 10-5009			
<u>Fuel</u>	80/87 minimum grade aviation gasoline			
<u>Engine Limits</u>	For all operations 2700 r.p.m. (150 hp)			
<u>Propeller and Propeller Limits</u>	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".			
<u>Propeller Spinner</u>	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
<u>Center of Gravity Range</u>	<u>Utility Category</u> (+84.0) to (+86.5) at 1650 lb. or less (+85.8) to (+86.5) at 1950 lb.			
	<u>Normal Category</u> (+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: 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>(±2°)</td> <td>Up</td> <td>0°</td> <td>Down</td> <td>40°</td> </tr> <tr> <td>Ailerons</td> <td>(±2°)</td> <td>Up</td> <td>30°</td> <td>Down</td> <td>15°</td> </tr> <tr> <td>Rudder</td> <td>(±2°)</td> <td>Left</td> <td>27°</td> <td>Right</td> <td>27°</td> </tr> <tr> <td>Stabilator</td> <td>(±1°)</td> <td>Up</td> <td>18°</td> <td>Down</td> <td>2°</td> </tr> <tr> <td>Stabilator Tab</td> <td>(±1°)</td> <td>Up</td> <td>3°</td> <td>Down</td> <td>12°</td> </tr> </table>	Wing flaps	(±2°)	Up	0°	Down	40°	Ailerons	(±2°)	Up	30°	Down	15°	Rudder	(±2°)	Left	27°	Right	27°	Stabilator	(±1°)	Up	18°	Down	2°	Stabilator Tab	(±1°)	Up	3°	Down	12°
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<u>Nose Wheel Travel</u>	<table border="0"> <tr> <td></td> <td>(±2°)</td> <td>Left</td> <td>30°</td> <td>Right</td> <td>30°</td> </tr> <tr> <td colspan="6">(Effective on S/N 28-20940 through 28-21845; 28-21931 through 28-21934; and 28-7425001 through 28-7725290)</td> </tr> <tr> <td></td> <td>(±2°)</td> <td>Left</td> <td>22°</td> <td>Right</td> <td>22°</td> </tr> <tr> <td colspan="6">(Effective on S/N 28-21846 through 28-21930; 28-21935 through 28-26946; and 28-7125001 through 28-7325674)</td> </tr> </table>		(±2°)	Left	30°	Right	30°	(Effective on S/N 28-20940 through 28-21845; 28-21931 through 28-21934; and 28-7425001 through 28-7725290)							(±2°)	Left	22°	Right	22°	(Effective on S/N 28-21846 through 28-21930; 28-21935 through 28-26946; and 28-7125001 through 28-7325674)											
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<u>Manufacturer's Serial Nos.</u>	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.																														

DATA PERTINENT TO ALL MODELS

<u>Datum</u>	78.4" forward of wing leading edge (straight wing only). 78.4" forward of inboard intersection of straight and tapered sections (semi-tapered wings).
<u>Leveling Means</u>	Two screws left side fuselage below window.
<u>Certification Basis</u>	Type Certificate No. 2A13 issued October 31, 1960. Date of Application for Type Certificate, February 14, 1958. Delegation Option Authorization granted per FAR 21, Subpart J, July 17, 1968. <u>PA-28-140 and PA-28-151</u> : CAR 3 effective May 15, 1956, including Amendments 3-1, 3-2, and 3-4; paragraphs 3.304 and 3.705 of Amendment 3-7 effective May 3, 1962; FAR 23.955 and 23.959 as amended by Amendment 23-7 effective September 14, 1969; and FAR 23.1327 and 23.1547 as amended by Amendment 23-20 effective September 1, 1977.

Production Basis

Production Certificate No. 206 issued and the manufacturer authorized to issue airworthiness certificates under the delegation option provisions of FAR 21.

Equipment

The basic required equipment as prescribed in the applicable airworthiness regulation (see Certification Basis) must be installed in the aircraft for certification.
In addition, the following documents are required:

<u>MODEL</u>	<u>AFM/POH</u>	<u>REPORT NO.</u>	<u>APPROVED</u>	<u>SERIAL EFFECTIVITY</u>
PA-28-140	AFM	VB-160	2/14/64	28-20001 through 28-26946, and 28-7125001 through 28-7125641
	AFM	VB-339	7/21/71	28-7225001 through 28-7325674
	AFM	VB-557	5/14/73	28-7425001 through 28-7625275
	POH	VB-770	6/16/76	28-7725001 through 28-7725290

NOTE 1: Current weight and balance report, including list of equipment included in certification empty weight and loading instructions, when necessary, must be provided for each aircraft at the same time of original certification.
The certificated empty weight and corresponding center of gravity location must include undrainable system oil (not included in the oil capacity) and unusable fuel as noted below.

Unusable Fuel and Oil Quantity **Applicable Models and Serial Numbers**

Fuel 2.2 lb. at (+103.0)

PA-28-140, PA-28-150, PA-28-160: all Serial Nos.

Oil 1.8 lb. at (+27.5)

PA-28-140, PA-28-150, PA-28-160, PA-28-180: S/N 28-03, 28-1 through 28-1760, and 28-1760A

NOTE 2

The following placards must be displayed in clear view of the pilot:

In Normal Category Aircraft

"THIS AIRPLANE MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUAL."

In aircraft certificated in both Normal and Utility Categories

"THIS AIRPLANE MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS."

Reference AFM for additional required placards.

NOTE 5

The Model PA-28-140 may be operated with the door removed in accordance with the FAA approved Airplane Flight Manual Supplement dated August 12, 1965.

NOTE 11

The Models PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-180; S/N 28-03, 28-1 through 28-5859, and 28-7105001 through 28-7205318; PA-28R-180 and PA-28R-200 may be operated with the spinner dome removed, or with the spinner dome and rear bulkhead removed. The PA-28-151, S/N 28-7415001 through 28-7715314, may be operated with the spinner dome removed, or with the spinner dome and front and rear bulkheads removed. The PA-28-180, S/N 28-7305001 through 28-7505260, and the PA-28-181; S/N 28-7690001 through 28-8690062, and 2890001 through 2890205, may be operated with the spinner dome removed. The PA-28R-201; S/N 28R-7737002 through 28R-7837317, 2837001 through 2837061, and 2844001 and up, may be operated with the spinner dome removed. The PA-28R-201T; S/N 28R-7703001 through 28R-7803373, and 2803001 through 2803012, may be operated with the spinner dome removed. The PA-28-161, S/N 28-7716001 through 28-8216300 may be operated with the spinner dome and front and rear bulkheads removed. The PA-28-161; S/N 28-8316001 through 28-8616057, 2816001 through 2816119, and PA-28-161 (Cadet), S/N 2841001 through 2841365, may be operated with the spinner dome removed, or with the spinner dome and front and rear bulkheads removed. The PA-28-236; S/N 28-7911001 through 28-8611008, and 2811001 through 2811050, may be operated with the spinner dome removed. The PA-28RT-201, S/N 28R-7918001 through 28R-8218026, may be operated with the spinner dome removed. The PA-28RT-201T; S/N 28R-7931001 through 28R-8631005, and 2831001 through 2831013, may be operated with the spinner dome removed. The PA-28-201T, S/N 28-7921001 through 28-7921095, may be operated with the spinner dome removed.

- NOTE 13 Maximum baggage may be increased to 300 lb. (200 lb. at +117 and 100 lb. at +133) when modified in accordance with Piper Drawing 66671.
- NOTE 17 The following serial numbered aircraft are not eligible for import certification to the U.S.: 28-5035, 28-5047, 28-5178, 28-5262, 28-5397, 28-5435, 28-11077, 28-11101, 28-11140, 28-11180, 28-11200, 28-11212, 28-11227, 28-11254, 28-11255, 28-24660, 28-24701, 28R-30861, 28R-30952, 28R-30972, 28R-31043, and 28R-31091. These aircraft have identification plates stamped "Ensenblado en Colombia."
- NOTE 20 The following model and serial number aircraft are not eligible for import certification to the U.S.:
PA-28-140:
28-24660, 28-24701, 28-7225490, 28-7225491, 28-7225492, 28-7225493, 28-7225494, 28-7225495, 28-7225496, 28-7225497, 28-7225498, 28-7225499, 28-7325238, 28-7325371, 28-7325372, 28-7325373, 28-7325374, 28-7325375, 28-7325376, 28-7325377, 28-7325378, 28-7325379, 28-7325508, 28-7325516, 28-7325525, 28-7325526, 28-7325555, 28-7325556, 28-7325557, 28-7325558, 28-7325580, 28-7325581, 28-7325599, 28-7325600, 28-7425217, 28-7425222, 28-7425224, 28-7425271, 28-7425272, 28-7425273, 28-7425274, 28-7425275, 28-7425276, 28-7425277, 28-7425278, 28-7425279, 28-7425304, 28-7425305, 28-7425306, 28-7425307, 28-7425383, 28-7425384, 28-7525142, 28-7525144, 28-7525177, 28-7525180, 28-7525181, 28-7525182, 28-7525197, 28-7525201, 28-7525215, 28-7525216, 28-7525217, 28-7525218, 28-7525230, 28-7525238, 28-7525243, 28-7525244, 28-7525246, 28-7525247, 28-7625060, 28-7625061, 28-7625130, 28-7625144, 28-7625272, 28-7625273, 28-7625274, 28-7625275, 28-7725053, and 28-7725188.