

LOCK HAVEN, PENNA.

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	<u>Normal Category</u>
Maneuvering	106 MPH
Max. Cruising Speed	126 MPH
Never Exceed	158 MPH
Flaps Extended	80 MPH
Flight Load Factors	
Max. Positive	3.8
Max. Negative	(No inverted maneuvers approved).
Airplane Loading	
Max. Wt. (Take-Off and Landing)	1800 lbs.

C.G. Range Fwd. Limits: 11.5" Up to 1240 lbs. Straight Line to
 12.0" At 1490 lb. straight line to
 17.5" at 1800 lb.
Fwd. Limit 24.0" at 1800 lb.

NOTE: It is the responsibility of the airplane owner and the pilot to insure that the airplane is properly loaded. (See Weight and Balance.)

a. General

Use right tank level flight only. This placard not required if fuel system is revised per Piper Service Letter No. 145.

a. ~~No acrobatic maneuvers~~ approved for Normal Category Operation.

Airspeed
Instrument
Markings
And Their
Significance

- (a) Radial RED line marks the never exceed speed which is the maximum safe airspeed 158 MPH.
- (b) YELLOW ARC on indicator denotes range of speed in which operations should be conducted with caution and only in smooth air 126 to 158 MPH.
- (c) GREEN ARC denotes normal operating speed range 52 to 126 MPH.
- (d) WHITE ARC denotes normal operating speed range with flaps extended 48 to 80 MPH.

(a) Except as noted above, all operating procedures for this airplane are conventional.

All performance given is for the following conditions:

1. A maximum gross weight 1800 lbs.
2. On level paved runways;
3. In still air;
4. With slowest-turning fixed-pitch wood propeller approved.

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PIPER AIRCRAFT CORPORATION

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III. PERFORMANCE CONT'D.

5. Performance with any approved alternate propeller will equal or exceed that noted herein.

Take-Off Distance (In Feet)	Alt. Ft.	0°F	20°F	40°F	60°F	80°F	100°F
Distance required to take-off and climb 50 ft., full throttle at 67.5 MPH TIAS *	Sea Level	1260	1350	1450	1540	1660	1760
Flaps Retracted	3000	1740	1900	2050	2220	2390	2560
	5000	2260	2460	2610	2920	3200	3480
	7000	3050	3360	3720	4150	4580	5080

Landing Distance (In Feet)

Distance required to land over 50 ft. obstacle and stop.	Sea Level	1200	1220	1240	1260	1280	1300
Approach at 62.5 MPH TIAS	3000	1255	1280	1300	1320	1340	1360
Flaps Down 40°	5000	1290	1320	1340	1360	1390	1410
	7000	1330	1360	1390	1410	1440	1465

Normal Rate of Climb (In Ft. Per Minute)

87 MPH TIAS	Sea Level	895	863	835	820	780	757
Climbing Speed	3000	710	680	655	625	600	575
Flaps Retracted	5000	586	558	530	505	477	458
	7000	465	432	410	385	360	335

Power-Off Stalling Speeds

V _s	Angle	0	10	20	30	40	50	60
Angle of Bank	Speed	52	52	53.5	55.6	59.5	65	73.5
MPH TIAS		48						
Flaps Retracted								
Flaps Extended								

Skiplane Performance:

Climb: Skiplane climb performance is essentially equal to that of the landplane.

Take-Off and Landing: Under the most favorable conditions of smooth packed snow at temperature approximating 30°F., skiplane take-off distance is essentially equal to the landplane distance. Landing distance is approximately twenty per cent greater than the landplane distance.

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