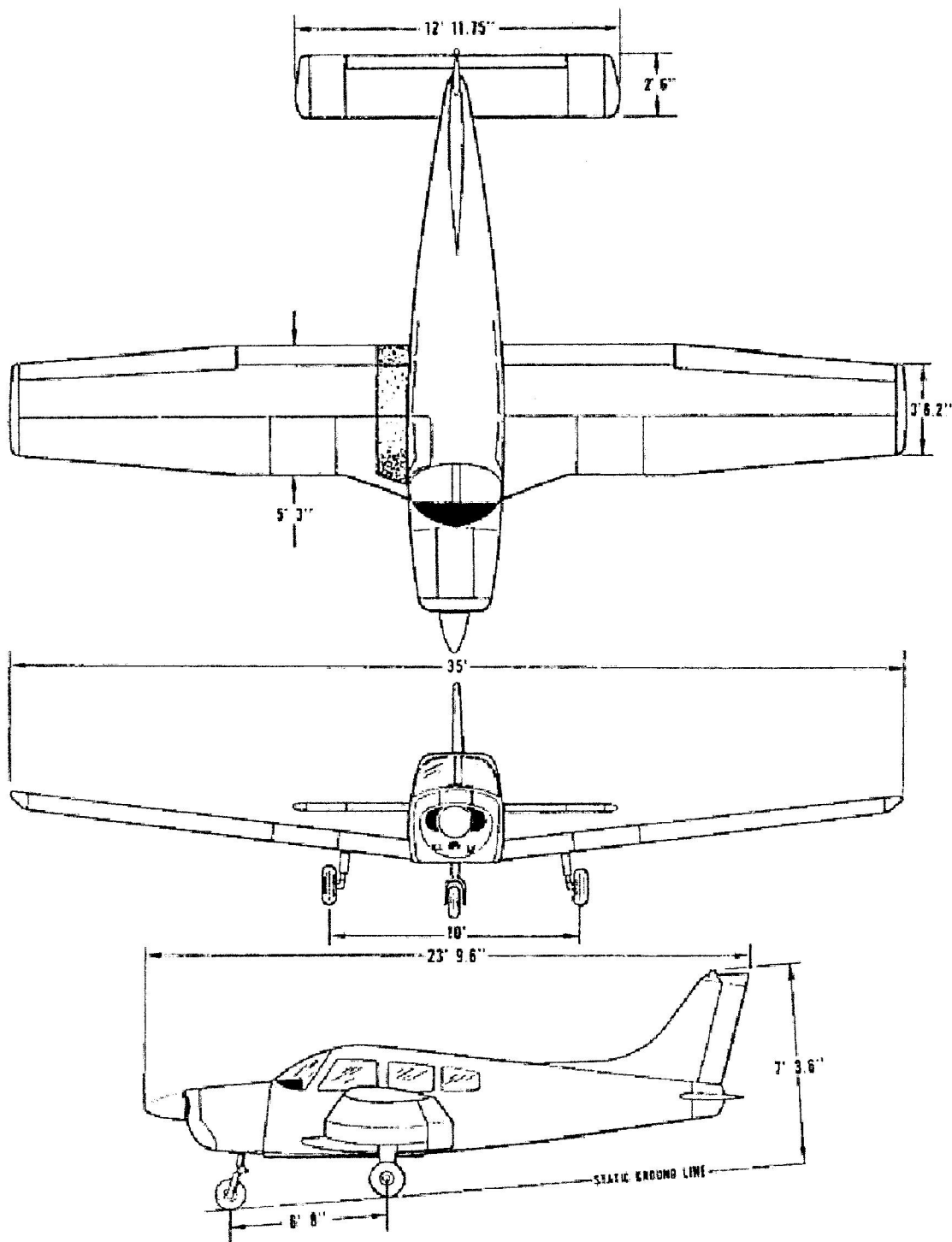


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SECTION 1

GENERAL

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THREE VIEW
Figure 1-1

1.3 ENGINES

(a) Number of Engines	1
(b) Engine Manufacturer	Lycoming
(c) Engine Model Number	O-320-D2A or O-320-D3G
(d) Rated Horsepower	160
(e) Rated Speed (rpm)	2700
(f) Bore (inches)	5.125
(g) Stroke (inches)	3.875
(h) Displacement (cubic inches)	319.8
(i) Compression Ratio	8.5:1
(j) Engine Type	Four Cylinder, Direct Drive, Horizontally Opposed, Air Cooled

1.5 PROPELLERS

(a) Number of Propellers	1
(b) Propeller Manufacturer	Sensenich
(c) Model	74DM6-0-60 or 74DM6-0-58
(d) Number of Blades	2
(e) Propeller Diameter (inches)	
(1) Maximum	74
(2) Minimum	72
(f) Propeller Type	Fixed Pitch

1.7 FUEL

AVGAS ONLY

(a) Fuel Capacity (U.S. gal) (total)	50
(b) Usable Fuel (U.S. gal) (total)	48
(c) Fuel	
(1) Minimum Octane	100 Green or 100LL Blue Aviation Grade
(2) Alternate Fuel	Refer to Fuel Requirements, Section 8 - Handling, Servicing and Maintenance.

1.9 OIL

- | | | |
|--|-----------|---|
| (a) Oil Capacity (U.S. quarts) | | 8 |
| (b) Oil Specification | | Refer to latest issue of Lycoming Service Instruction 1014. |
| (c) Oil Viscosity per Average Ambient Temp. for Starting | | |
| | Single | Multi |
| (1) Above 60° F | S.A.E. 50 | S.A.E. 40 or 50 |
| (2) 30° F to 90° F | S.A.E. 40 | S.A.E. 40 |
| (3) 0° F to 70° F | S.A.E. 30 | S.A.E. 40 or 20W-30 |
| (4) Below 10° F | S.A.E. 20 | S.A.E. 20W-30 |

1.11 MAXIMUM WEIGHTS

- | | | |
|--|--------|---------|
| | Normal | Utility |
| (a) Maximum Takeoff Weight (lbs) | 2440 | 2020 |
| (b) Maximum Ramp Weight (lbs) | 2447 | 2027 |
| (c) Maximum Landing Weight (lbs) | 2440 | 2020 |
| (d) Maximum Weights in Baggage Compartment (lbs) | 200 | 0 |

1.13 STANDARD AIRPLANE WEIGHTS

Refer to Figure 6-5 for the Standard Empty Weight and the Useful Load.

1.15 BAGGAGE SPACE

- | | |
|-------------------------------------|----|
| (a) Compartment Volume (cubic feet) | 24 |
| (b) Entry Width (inches) | 22 |
| (c) Entry Height (inches) | 20 |

1.17 SPECIFIC LOADINGS

- | | |
|----------------------------------|------|
| (a) Wing Loading (lbs per sq ft) | 14.4 |
| (b) Power Loading (lbs per hp) | 15.3 |