

# PA-28-161 WARRIOR III

## Vital Statistics

### Engine

Engine Model: Lycoming O-360-D2A

Type: direct-drive, horizontally opposed, normally aspirated, four-cylinder, air cooled

Horsepower: 160

Maximum RPM: 2700

Features: carburetor heat

### Operating Weights (2440 lbs. Maximum Gross Weight Model)

Maximum Gross Ramp Weight: 2447 lbs. Normal Category; 2027 lbs. Utility Category

Maximum Gross Takeoff Weight: 2440 lbs. Normal Category; 2020 lbs. Utility Category

Maximum Gross Landing Weight: 2440 lbs. Normal Category; 2020 lbs. Utility Category

Baggage Compartment: 200 lbs. maximum Normal Category; 0 lbs. maximum Utility Category

### Operating Weights (2325 lbs. Maximum Gross Weight Model)

Maximum Gross Ramp Weight: 2332 lbs. Normal Category; 2027 lbs. Utility Category

Maximum Gross Takeoff Weight: 2325 lbs. Normal Category; 2020 lbs. Utility Category

Maximum Gross Landing Weight: 2325 lbs. Normal Category; 2020 lbs. Utility Category

Baggage Compartment: 200 lbs. maximum Normal Category; 0 lbs. maximum Utility Category

### Oil System

Type: wet sump

Minimum Operating Quantity: 2 quarts

Maximum Operating Quantity: 8 quarts

Normal Operating Quantity: 6-8 quarts

### Fuel System

Fuel Grade: 100LL (100/130 minimum grade)

Total Capacity: 50 gallons

Total Usable: 48 gallons (24 gallons each wing)

Total Unusable: 2 gallons

Tanks: 2

Drains: 3

Pumps: one engine-driven; one electric auxiliary

Features: electric primer

## Electrical System

Battery: one at 35 amperes, 12 volts

Alternators: one at 60 amperes, 14 volts

Features: external power source; voltage regulated @ 14 volts

## Vacuum System

Pumps: one engine-driven

Normal Suction: 4.8 to 5.1 In/Hg

## Flap System

Type: single-slotted

Actuation: manual

Settings: 0°, 10°, 25°, 40°

## Propeller System

Type: fixed-pitch

## Landing Gear System

Type: fixed

Tire Sizes: 5.00 X 5, 4-ply nose; 6.00 X 6, 4-ply main

Tire Inflation: 30 psi nose; 24 psi main

Strut Inflation: 3.25 inches nose; 4.50 inches main

## Brake System

Actuation: manual hydraulic

Features: disk brakes on main gear; parking brake

## Pitot-Static System

Pitot Source: probe under left wing

Static Source: probe under left wing

Features: pitot and static drains; alternate static source; pitot-static heat

## Cruise Performance (based on 5000 feet Pressure Alt., Standard OAT, No Wheel Fairings)

Average Cruise TAS: 110 KTS @ 75% power, Best Economy Leaning

100 KTS @ 65% power, Best Economy Leaning

90 KTS @ 55% power, Best Economy Leaning

Average Fuel Consumption: 8.5 GPH @ 75% power, Best Economy Leaning

7.5 GPH @ 65% power, Best Economy Leaning

6.6 GPH @ 55% power, Best Economy Leaning