

Piper Cherokee Archer II

Engine: Lycoming O-360-A4M 180HP. Four cylinder, normally aspirated, carburetor, horizontally opposed, oil and air cooled.

Prop: Fixed Pitch

Fuel: 100LL with 50 gal, 25 gals in each wing, 48gal useable. Fuel selector located on left side panel forward of pilot's seat. Engine mechanical fuel pump and an electrical fuel pump.

Oil: 20W50 winter, W100 summer. Max 8qts. Min 4qts

Max Baggage: 200lbs

Max Gross Weight: 2550lbs

Electrical: 12V battery with 60Amp alternator. Can be jumped through plug by the baggage door.

Struts: Air-Oil Type.

Brakes: Toe brakes, Hydraulic disc brakes. Reservoir to refill fluid is on firewall under cowl.

Heat: Heater muff attached to the exhaust system. Controls are on the far right panel (copilot side). Heat and air outlet is located on the side panel near the floor for each seat.

Starting the engine: Do **NOT** pump the throttle while turning over the engine. This will result in possible engine fire. Fuel pump is ON for starts. If cold (Summer), use three primer pumps and one pump of the throttle, then start. If cold (below 40deg F), use five primer pumps and one to two pumps on the throttle, then start. Follow checklist.

Airspeeds:

Vx: 64kts

Enroute Climb: 87kts

Vrot: 52-65kts (55 recommended)

Vy: 76kts

Vbestglide: 76kts

Vflapextended_max: 102kts

Vapproachfinal: 75-80MPH

Va: 113kts at full gross weight

Power Settings Cruise @ 75% power (recommended):

2000ft: 2510 RPM (114kts)

4000ft: 2560 RPM (116kts)

3000ft: 2540 RPM (115kts)

5000ft: 2580 RPM (117kts)

75% pwr = 10.5gal/hr