

PIPER ARROW II Model Guide

PIPER ARROW II is a single-engine piston aircraft with retractable landing gear, from the Piper PA-28 family. The family lists up to 4 passengers, up to 910 nm range and up to 172 kt cruise across all variants. This guide uses a flight-school PA28-R200 Arrow II checklist. No variant-specific weight or performance tables were provided.

KEY TAKEAWAYS

- PIPER ARROW II has retractable gear: gear-down checks (3 green lights) and the emergency gear extension lever are central to safe operation.
- Checklist climb setting after 1000 ft: 2500 RPM, 25 inches MP, 105-110 MPH.
- Gear-down limit is 150 MPH and flaps-down limit is 125 MPH in the descent checklist.
- Family-level figures (910 nm, 172 kt, 4 passengers) are maxima across PA-28 variants, not this model's ratings.

WHAT TO INSPECT ON A WALK-AROUND

The checklist's exterior inspection covers: fuel sump drains and fuel vents on both wings; main gear shock struts (about 2 in showing); nose strut (about 2-2/3 in showing); hydraulic lines and gear cylinders for leaks; tires; brake blocks and discs; propeller and spinner; oil and fuel leaks; cowling and cowl scoop; air inlet; and control surfaces. Check the same items during a pre-buy.

GEAR SYSTEM AND ELECTRICAL CHECKS

Start-up checks include 3 green gear lights, a vacuum gauge reading of 5 inches Hg, an ammeter check, and a magneto check (175/50 RPM). If the gear fails to extend, the abnormal procedure covers the circuit breakers, gear indicator bulbs and the emergency extension lever. With all electrical power lost, the position lights do not work. With the master off, the gear cannot be retracted.

TYPICAL PATTERN AND CLIMB NUMBERS

Pattern work in the checklist: downwind at 2400 RPM and 18 inches MP; gear down abeam the touchdown point at 13 inches MP with flaps 10 degrees at 105 MPH; base flaps 25 degrees at 90 MPH; final flaps 40 degrees at 85 MPH. Go-around: flaps 25 degrees at 100 MPH, then gear and flaps up once the climb is positive.

V-SPEEDS

Vso Mph	64
Vs Mph	71
Vx Mph	85
Vy Mph	100
Vfe Mph	125
Vlo Mph	125
Vle Mph	150
Va Mph	131

SAFETY NOTES

- Engine failure in flight: airspeed 105 MPH, gear and flaps up, switch fuel tank, electric fuel pump on, mixture rich, alternate air on.
- If a power loss follows fuel exhaustion, power may take up to 10 seconds to return after switching tanks.
- Propeller overspeed: keep below 2700 RPM. Limit starter cranking to thirty seconds, then rest two minutes.