

Piper PA-28R Arrow IV Model Guide

The Piper PA-28R Arrow IV is a four-seat, single-engine piston airplane with retractable gear, built from 1979 to 1982. The supplied documents mostly cover related Arrow variants (PA-28R-201 checklists and the original 180 hp Cherokee Arrow handbook). Check every figure against the POH for the specific airplane you are buying.

KEY TAKEAWAYS

- Four seats, piston single, built 1979-1982. Retractable gear means a gear-up landing is a real risk, so check the gear system closely.
- PA-28R-201 Arrow speeds: Vy 90 KIAS gear up, gear extended limit 129 KIAS, gear retraction limit 107 KIAS.
- Safety data: 72 percent of PA-28R accidents were pilot-caused, and most serious ones came in the first 100 hours in type.
- The original 1967 Cherokee Arrow handbook lists a 180 hp fuel-injected Lycoming and 2,500 lb gross weight. Do not assume these apply to the Arrow IV.

SPEEDS AND LIMITS (PA-28R-201 DOCUMENTS)

Normal rotation is 75 KIAS and climb-out is 90 KIAS. Vx is 78 KIAS gear up and 72 gear down. Flaps extended limit is 103 KIAS, VNO is 146, and VNE is 183. Maneuvering speed is 118 KIAS at 2,750 lbs. Demonstrated crosswind is 17 kts. Confirm against your airplane's own POH.

PRE-BUY AND PREFLIGHT CHECKS

Check for fuel and oil leaks, and that oil reads 6 to 8 qts. Check the main gear strut, tires and brakes, and the alternator belt tension. Drain the pitot and static lines and fuel sumps. At run-up, magneto drop should not exceed 175 rpm, with no more than 50 rpm between magnetos. Test alternate air, and confirm three green gear lights.

SYSTEMS TO INSPECT

The Cherokee-series review describes a vacuum system that powers the attitude indicator and directional gyro, plus a pitot-static system with alternate static air. On the older 'classic' PA-28 electrical system, the review says a battery older than 3-5 years will likely fail a load test. Ask for vacuum pump, alternator and battery history.

SPECIFICATIONS

Seats	4
First Year	1979
Last Year	1982

V-SPEEDS

Normal Rotation Kts	75
Best Rate Of Climb Gear Up Kts	90
Best Rate Of Climb Gear Down Kts	78
Best Angle Of Climb Gear Up Kts	78
Best Angle Of Climb Gear Down Kts	72
Max Landing Gear Extended Kts	129
Max Landing Gear Retraction Kts	107
Max Flaps Extended Kts	103

SAFETY NOTES

- With the battery master off, the landing gear cannot be retracted. In an emergency landing with gear down, shut off fuel, mixture, ignition and electrics.
- Engine power loss: hold at least 79 KIAS, switch tanks, electric fuel pump on, mixture rich, alternate air open. Slow to 72 KIAS for the shortest landing.
- More than 60 percent of serious PA-28 accidents happened in the first 100 hours of time in type. Plan transition training.