

Vashon Aircraft Ranger R7 Model Guide

The Vashon Aircraft Ranger R7 is a single-engine piston Light Sport Aircraft built in Woodinville, Washington. The supplied documents (POH, maintenance manual, checklists, service bulletins) give procedures and inspection items but no weight, range or cruise-speed figures. Confirm those against the aircraft's own POH and weight and balance.

KEY TAKEAWAYS

- Carbureted piston LSA with an EFIS and a header tank. Takeoff is prohibited with less than 4 gallons in the wing tanks.
- Three service bulletins cover engine mount cracks, elevator stop punctures and fuel line chafing. Check the serial number against each.
- Vy is 75 KIAS and cruise climb is 85 KIAS. Above 103 KIAS, fly in smooth air only. Cruise power is 2200-2700 RPM, 2750 max.
- Oil check is 4-5 quarts on the checklist. The maintenance manual notes oil sump capacity was changed from 6 quarts to 5 quarts.

SERVICE BULLETINS TO VERIFY

Engine mount, SB-12-06-22-1 Rev C (serials below 10203): fatigue cracks in the mount lug welds. Inspect before further flight, then at 10, 25 and 100 hour intervals. Elevator stops, SB-04-09-26-1 Rev C (serial 10257 and lower): stops can puncture the elevator spars. Fuel lines, SB-09-12-25-1 Rev B (SN 10131-10250): chafing at the glareshield caused one leak. Ask for proof of compliance.

PRE-BUY AND PREFLIGHT CHECKS

Tire pressures are 25 psi on the mains and 22 psi on the nose. Rudder anti-servo tab free play must not exceed 3 mm. Check propeller nicks, air filter blockage, fuel sumps (including the header tank) and the exhaust outlet. At 1700 RPM, magneto drop must not exceed 150 RPM, with no more than 50 RPM between magnetos. Oil pressure must reach 10 psi within 30 seconds of start.

DOCUMENTS AND OWNERSHIP

The POH on file is Revision 5 (8/30/2024). An older POH, Revision 3 (1/11/19), is also in circulation, so make sure the aircraft carries the current one. The maintenance manual (master Revision 3) covers 100-hour and annual condition inspections. It lists which servicing a pilot-owner may do. Service alerts and bulletins are posted on the Vashon Aircraft support website.

V-SPEEDS

Best Climb Speed Kts	75
Cruise Climb Speed Kts	85

SAFETY NOTES

- Takeoff is prohibited with less than 4 gallons of fuel in the wing tanks.
- If contamination persists after repeated fuel sampling, do not fly. Qualified maintenance must drain the tanks and purge the system.
- Engine mount bulletin: if any cracks are found, do not continue to fly. Contact Vashon Aircraft Support.