

Piper PA-32R Lance Model Guide

The Piper PA-32R Lance is a single-engine piston, retractable-gear, all-metal airplane built 1976 to 1978. It seats six to seven. Its handbook lists a Lycoming IO-540 rated 300 hp at 2700 rpm, two 100 lb luggage compartments and 98 gallons of fuel. A related Lance II (PA-32RT-300) has its own handbook.

KEY TAKEAWAYS

- Maximum weight is 3600 lbs. You cannot fly with maximum adult passengers, full fuel and maximum baggage at the same time.
- Fuel is 98 US gal total, 94 usable. There are two luggage compartments, 100 lbs each.
- Ask for records on the wing spar cap inspection (EASA AD 2021-0107R1) and the tee bar inspection (Piper SB 1355A).
- Never exceed speed is 191 KIAS. Gear extended limit is 129 KIAS and flap limit is 106 KIAS. No aerobatics or spins are approved.

ENGINE, PROP AND SYSTEMS

The handbook lists a fuel-injected Lycoming IO-540-K1G5D at 300 hp and 2700 rpm. Compression ratio is 8.7 to 1 and minimum fuel is 100/130 octane. It has a 60 ampere alternator and a Hartzell constant-speed propeller of 80 inches. The cowling cools the engine without cowl flaps. Alternate induction air is unfiltered, and the primary filtered source should be used for takeoff.

LOADING AND WEIGHT AND BALANCE

Maximum weight is 3600 lbs. At that weight the forward CG limit is 91.4 inches aft of datum and the rear limit is 95.0 inches. Baggage is 100 lbs per compartment, 200 lbs total. After any equipment change or modification, a new empty weight and CG must be recorded in the log book and the weight and balance record. Ask to see the current record.

VARIANTS AND HANDBOOKS

The Lance II is the PA-32RT-300, with its own handbook (report VB-890). That handbook applies to serial numbers 32R-7885001 through 32R-7985105, and it must be kept current by revisions. Check that the handbook and supplements in the airplane match its serial number and model.

SPECIFICATIONS

Max Takeoff Weight Lbs	3600
Fuel Capacity Gal	98
Usable Fuel Gal	94
Unusable Fuel Gal	4
Baggage Per Compartment Lbs	100
Engine Power Hp	300
Propeller Diameter Inches	80

V-SPEEDS

Vne Kts	191
Vno Kts	152
Va At Max Weight Kts	132
Vfe Kts	106
Vle Kts	129
Gear Retraction Kts	106

WEIGHT & BALANCE

Max Weight Lbs	3600
Max Baggage Lbs	200
Cg Forward Limit At Max Weight Inches	91.4
Cg Rear Limit Inches	95
Datum Ahead Of Wing Leading Edge Inches	78.4

SAFETY NOTES

- EASA AD 2021-0107R1 requires lower main wing spar cap inspection after fatigue cracking in a hard-to-see area. It lists the PA-32R-300 Lance as applicable.
- Piper SB 1355A covers tee bar cracks. Serials 32R-7680001 through 32R-7880068 are listed. Flight with known structural cracks is not allowed.
- Approved for day and night VFR and IFR in non-icing conditions only. No acrobatic maneuvers, including spins, are approved.