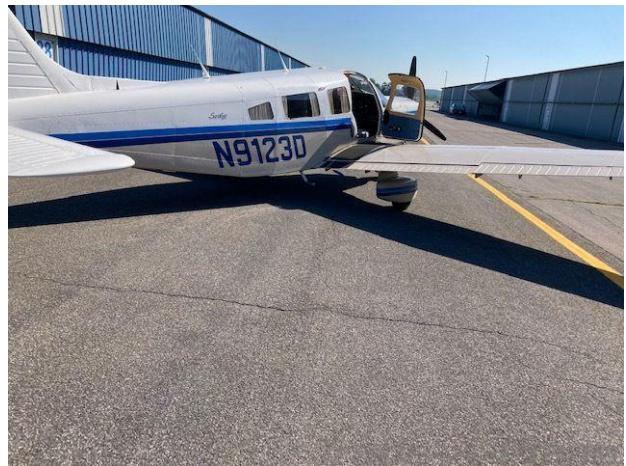


N9123D, 1987 Piper Saratoga

Use the following references (links) for your aircraft Knowledge:

POH N9123D
Garmin 500W Pilot's Guide & Reference
Garmin 400W/500W Series Display Interfaces
Garmin 400W/500W Series
Garmin 500W Series Quick Reference
Garmin 500W Supplement
GTX 330
KCS 55A (HIS) Compass System
KFC 150 FCS Pilot's Guide
Stormscope Wx 950 (Wx Radar)



Highlights of the Saratoga

NO A/C but a good Hi/Low Fan
External Radio Antenna Connection
Functioning A/P w/Altitude Hold
Operating ADF
Garmin 530W (WAAS)
"Ground Clearance" Button

NO on-board O-2 System
HSI w/Flt Director
2 NAV/COMs that work
ADS-B Out ("IN" to be installed)
ELECTRIC Flaps w/in transit Ind
Extra Long Tow Bar

6-Place, 4 with Club Seating
Intercom @ all seats
5 David Clark Headsets
Wx Stormscope
Electric Pitch Trim
Pilot's Sunshade has
"Cruise Power Settings"
Imprinted on the shade

PERFORMANCE SPECIFICATIONS:

AIRFRAME: Aluminum
Length: 27 ft 8 in
Gross Wgt: 3600 lbs
Basic Empty Wgt: 2248 lbs
FWD Compartment: 100 lbs

Wingspan: 36 ft 2 in
Height: 8 ft 2 in
Max Ldg Wgt: 3600 lbs
Useful Load: 1367 lbs
Aft Compartment: 100 lbs

Wing Area: 178.3 sq ft
Min. Turning Radius: 34 ft
Max. Ramp Wgt: 3615 lbs
Max. Baggage Wgt: 200lbs
Useable Fuel: 102 gals

PROPELLER: Hartzell, 3 blades, 78 inches diameter (MIN 76 in)

ENGINE: Lycoming, 6 Cylinder, IO-540-K1G5, 300 HP @ 2700 RPM
Normal RPM: 500 – 2700 (MAX)
Oil Pressure: 60 – 90 psi
Oil Capacity: 12 qts
Oil Temp: 75 – 245 F.

PERFORMANCE:

Never Exceed Speed (Vne): 197 kts
Max. Cruise Speed (Vno): 154 kts
Cruise Speed @ 10K/65% power: approx. 150 kts
Max. Range @ 10K/65% power: 900 nm w/reserves
Endurance @ 10K/65% power: 6 hrs w/reserves
MAX. Altitude: 14K
Maneuvering Speed (Va): @ 3600 lbs=134 KIAS; @ 2225 lbs=104 KIAS
Stall Speed – Flaps UP: 62 kts.
Stall Speed – Flaps Extended: 58 kts
Take-off Speed (Rotate) w/Flaps UP: 74 – 80 kts
MAX. Speed w/Flaps Extended (Vfe): 112 kts
Best Rate of Climb (Vy): 90 kts
Best Angle of Climb (Vx): 76 kts
En Route Climb: 100 kts
Best Glide – Flaps UP & Prop FULL DECREASE: 80 kts
Emergency Descent – Flaps FULL DOWN, Prop FULL FWD: 95 kts max
Landing Distance over 50 ft obstacle – FULL FLAPS DOWN: 1800 ft
Take-off Distance over 50 ft obstacle – Flaps @ 25 deg.: 2200 ft
Approach Speeds:
Normal – Flaps UP – 95 kts Short/Soft Field w/FULL Flaps: 79 kts
Max Demonstrated Cross-Wind: 17 kts
MAX speed w/storm window open: 129 KIAS
Nose Gear tire inflation pressure: 35 psi (or as stipulated by the manufacturer on tire)
Main Gear tire inflation pressure: 50/55 psi (or as stipulated by the manufacturer on tire)

