Piper Seneca II

N300DE

FORBES AVIATION

Before Start

Pre-Flight	**COMPLETE**
Passenger Briefing	**COMPLETE**
Seats / Belts / Doors	**SECURE**
Brakes	**SET**
Circuit Breakers	**ALL IN**
Elec. Equipment	**OFF**
Avionics Master	**OFF**
Propellers	**FULL FWD**
Alternate Air	**OFF**
Cowl Flaps	**OPEN**
Fuel Selectors	**ON / ON**
Alternators	**ON**
Aux Fuel Pumps	**OFF**
Janitrol / Defrost / Fan	**OFF**

Engine Start - Each

Mixture	**FULL RICH**
Propeller	**FULL FWD**
Throttle	**APPROX 1/2**
Master / Beacon	**ON**
Magnetos	**ON**
Prop Area	**CLEAR**
Primer	**AS REQUIRED**
Starter	**ENGAGE**
Throttle	**1000-1200**
Oil Pressure	**CHECK <=30 SEC**
Mixture	**Lean as Needed**

Use N300DE's installed primer system/placard and ambient-temperature procedure.

Pre Taxi

Avionics Master	**ON**
Dual G5s / 530W	**CHECK**
GTX 330ES / Radios	**SET**
Engine Instruments	**CHECK**
Annunciators / Alternators	**CHECK**
Mixtures	**LEAN FOR TAXI**
Taxi Area	**CLEAR**
Brakes / Steering	**CHECK**
Flight Instruments	**CHECK TURN**

Run Up

Parking Brake / A/P	**SET / OFF**
Oil Temperature	**>=75 F**
Mixtures / Props	**FULL FWD**
Throttle	**1000 RPM**
MP Lines	**DRAIN 5 SEC**
MP During Drain	**<25 in Hg**
Feather Check	**<=300 RPM DROP**
Throttle	**1900 RPM**
Prop Governors	**200-300 DROP**
1st Flight of Day	**CYCLE 3X**
Alternate Air	**ON - OFF**
Magnetos	**<=150 / 50 DIFF**
Engine Gauges	**CHECK**
Alternator Output	**CHECK**
Gyro Pressure - if inst.	**4.5-5.2**
Throttle	**800-1000**
Fuel Selectors	**ON / ON**
Aux Fuel Pumps	**OFF**
Mixtures	**LEAN FOR TAXI**

Crossfeed Check

Left Selector	**X-FEED - ON**
Right Selector	**X-FEED - ON**

Return BOTH selectors to ON before takeoff. CROSSFEED is not a takeoff position.

FIKI Ground Check

Wing / Tail Boots	**CHECK / FUNCTION**
Prop Deice	**CHECK / FUNCTION**
Pitot / Lift Heat	**CHECK**
Windshield Heat	**CHECK**
Ice Inspection Light	**CHECK**
Surface Deice Timer	**CHECK**

Before icing dispatch. Pitot/lift heat: 3 min ground max. Windshield heat: 30 sec ground max unless ice is present.

Pre Takeoff

Flight Controls	**FREE / CORRECT**
Trim	**TAKEOFF SET**
Flaps	**SET**
Dual G5s / 530W / CDI	**SET**
Doors / Belts	**SECURE**
Fuel Selectors	**ON / ON**
Aux Fuel Pumps	**OFF**
Mixtures	**SET TAKEOFF**
Props	**FULL FWD**
Alternate Air	**OFF**
Cowl Flaps	**OPEN**
Autopilot	**OFF**
Lights / Pitot Heat	**AS REQD**
Takeoff / Eng Fail Brief	**COMPLETE**

High-elevation takeoff: set mixture per POH/fuel-flow indications.

Normal Takeoff

Flaps	**UP**
Power	**39 NOM / 40 MAX / 2575**
Engine Instruments	**CHECK**
Accelerate / Liftoff	**66-71 KIAS**
After Liftoff	**ACCEL 89**
Gear	**UP WHEN SAFE**
Climb	**89 KIAS**

Short Field - 25°

Flaps / Trim	**25 / TAKEOFF**
Brakes	**HOLD**
Power	**SET / CHECK**
Brakes	**RELEASE**
Accelerate / Rotate	**61 KIAS**
Through 50 ft	**69 KIAS**
Obstacle	**76 KIAS**
Best Rate	**89 KIAS**
Gear / Flaps	**UP AS APPROPR.**

Below VMC after liftoff: if an engine fails, RETARD the operating-engine throttle as required and LOWER the nose to maintain control.

Additional Information

V-SPEEDS - KIAS

VMC 66 VSSE 76 VXSE 78 VYSE 89
VX 76 VY 89 VA 136 @ 4570
VFE 10/25/40: 138 / 121 / 107
VLO ext/ret 129/107 VLE 129
VNO 163 VNE 195

WEIGHTS

BEW 3187 lb BE CG 87.95 in
Useful 1383 lb MTOW 4570
MLW 4342 MZFW 4000
Fwd/Aft baggage 100 / 100 lb
6 seats - 2 / 2 / 2

POWER / SERVICE

Takeoff: 39 nominal / 40 max / 2575
Cruise climb: 31.5 / 2450 / 102+
Oil capacity: 8 qt / engine
HD tires: Nose 34 / Mains 46 PSI
Max demonstrated xwind: 17 kt

NORMAL PROCEDURES CONTINUED ON OTHER SIDE

Piper Seneca II

N300DE - Normal Procedures

Climb

Takeoff Climb	**89 KIAS**
Best Angle	**76 KIAS**
Props	**2575 RPM**
Manifold Pressure	**<=40 in Hg**
Cowl Flaps	**OPEN / AS REQD**
Gear / Flaps	**UP / UP**
Terrain Clearance	**ESTABLISH**
Cruise Climb	**102+ KIAS**
Power	**31.5 / 2450**
Mixtures	**FULL RICH**

Cruise

Power	**PER CHARTS**
Propellers	**SET**
Mixtures	**PER POH**
Cowl Flaps	**AS REQD**
Fuel Selectors	**ON / ON**
Aux Fuel Pumps	**OFF**
Fuel / Engine Inst.	**MONITOR**
Autopilot	**AS DESIRED**

Descent / In Range

Mixtures	**ENRICH W/DESC**
Cowl Flaps	**CLOSED / REQD**
Fuel	**CHECK**
ATIS / Weather	**OBTAIN**
Altimeters	**SET**
Dual G5s / Heading	**CROSS-CHECK**
530W / Radios	**SET**
Approach / Missed	**BRIEF**
Landing Performance	**CONFIRM**

Pre-Landing

Gear Warning Horn	**CHECK**
Fuel Selectors	**ON / ON**
Aux Fuel Pumps	**OFF**
Mixtures	**SET**
Props - Approach	**2250 RPM**
Gear	**DOWN <=129**
Gear Lights	**3 GREEN**
Flaps	**AS REQUIRED**
Seat Belts	**SECURE**
Lights	**AS REQUIRED**
Downwind	**98 KIAS**
Base	**97 KIAS**
Initial Final	**87 KIAS**
Close Final - Props	**FULL FWD**

Normal Landing

Full Flap Final - Gross	**83 KIAS**
Full Flap Final - Light	**79 KIAS**
Touchdown	**MAINS FIRST**
Brakes	**AS REQUIRED**

Short Field Landing

Flaps	**40°**
Final	**78 KIAS**
Throttle	**IDLE AS REQD**
Touchdown	**MAINS FIRST**
Flaps After TD	**UP**
Elevator / Brakes	**BACK / AS REQD**

Go-Around

Mixtures / Props	**TAKEOFF / FWD**
Power	**<=40 in Hg**
Positive Climb	**ESTABLISH**
Flaps	**RETRACT**
Gear	**UP**
Cowl Flaps	**OPEN**
Climb	**89 KIAS**
After Clearance	**102+ /31.5/2450**

After Landing

Flaps	**UP**
Cowl Flaps	**OPEN**
Alternate Air	**OFF**
Mixtures	**LEAN TAXI**
Ice Protection	**OFF**
Transponder	**AS REQUIRED**
Lights	**AS REQUIRED**
Janitrol - if used	**PER SUPPLEMENT**

Shutdown

Parking Brake	**AS REQUIRED**
Janitrol / Defrost	**PER SUPP / OFF**
Avionics	**OFF**
Electrical Equipment	**OFF**
Mixtures	**IDLE CUTOFF**
Magnetos	**OFF**
Master	**OFF**
Hobbs / Tach	**RECORD**

Secure Aircraft

Control Lock	**SECURE**
Pitot Cover	**INSTALL**
Chocks	**PLACE**
Tie Downs	**ATTACH**
Fuel Caps	**SECURE**
Baggage / Cabin	**LOCK**

FIKI - In Flight

Defroster	**ON BEFORE ICING**
Pitot / Lift Heat	**ON**
Windshield Heat	**ON**
Prop Deice	**ON**
Surface Boots	**CYCLE 1/4-1/2 in**
Ice Inspection Light	**AS REQUIRED**
Airspeed	**MAINTAIN MARGIN**
Autopilot	**MONITOR CLOSELY**

Do not cycle boots with less than 1/4 in accumulation. Severe icing / freezing rain: EXIT. Night known/forecast icing requires operative inspection lights.

Operational Notes

FIKI

Moderate icing >10,000: avoid if practical
Residual ice landing: add 10-15 KIAS
Full flaps + slight power when practical

GEAR / APPROACH

Gear extend <=129 KIAS
Gear retract <=107 KIAS
Emergency extension <=85 KIAS
SE landing: 91 KIAS / flaps 25

KBOI QUICK

D-ATIS 123.9 CLNC 125.9
Ground 121.7 Tower 118.1
Big Sky 119.6 / 126.9

EMERGENCY PROCEDURES ON SEPARATE LAMINATED CARD

Condensed checklist - Piper PA-34-200T POH/AFM, placards and N300DE installed supplements govern.