

SPECTRUM AIRWAYS PA34-200 PIPER SENECA I - NORMAL PROCEDURES

PREFLIGHT INSPECTION

Sample fuel.....**8 Positons**
Pitot / Static.....**DRAIN**
Magnetos.....**OFF**
Mixture Controls.....**ICO**
Master switch.....**ON**
Gear Lights.....**3 GREEN**
Fuel Pumps.....**ON-PRESSURE CHECK-OFF**
Fuel Gauges.....**CHECK QUANTITY**
Master Switch.....**OFF**
Rudder Trim.....**NEUTRAL**
Flaps.....**DOWN**
Cowl Flaps.....**OPEN**
Fire Extinguisher.....**CHARGED**
First Aid Kit.....**ON BOARD**
Ballast (Training flights).....**SECURE**
Documents.....**ON BOARD**
External Check.....**COMPLETE**
Pax Safety Briefing.....**COMPLETE**

PRE-ENGINE START

Seats and Seatbelts.....**ADJUST**
Hobbs Time.....**RECORD**
Flaps.....**UP**
Parking Brake.....**SET**
Circuit Breakers.....**CHECK**
Avionics / Electrics.....**OFF**
Cowl Flap.....**OPEN**
Alternate Air.....**OFF**
Alternate Static.....**OFF**

ENGINE START

Fuel Selectors.....**ON**
Master Switch.....**ON**
Alternators.....**TEST / ON**
Beacon Light.....**ON**
Magnetos.....**ON**
Mixture Controls.....**ICO**
Propeller Controls.....**FULL FORWARD**
Throttles.....**½ INCH**

LEFT ENGINE:

Fuel Pump.....**ON**
Mixture Control.....**PRIME THEN ICO**
Propeller.....**CLEAR**
Starter.....**ENGAGE**
Mixture Control.....**ADVANCE**
Throttle.....**1000 RPM**
Oil Pressure.....**CHECK**
Fuel Pump.....**OFF, CHECK PRESSURE**

REPEAT FOR RIGHT ENGINE

HOT START

Same procedure as normal start except;
Fuel Pumps.....**OFF**
Priming.....**OMIT**

FLOODED START

Mixture Control.....**ICO**
Propeller Control.....**FULL FORWARD**
Throttle.....**FULL FORWARD**
Fuel Pumps.....**OFF**
Propeller.....**CLEAR**
Starter.....**ENGAGE**
When engine fires, retard throttle and
advance mixture slowly

AFTER START

Mixture.....**LEAN @ 1200 RPM**
Electrics.....**AS REQUIRED**
Avionics.....**ON**
Transponder.....**TEST/STBY 1200**
Audio Panel.....**CHECK**
Flight Instruments.....**SET**
Radios.....**CHECK (OR ATIS)**
NAV/ GPS.....**SET**
Fuel Selectors.....**CROSSFEED FOR TAXI**
Parking Brake.....**OFF**

TAXI CHECKS

Brakes.....**TEST**
Control Inputs.....**FOR WIND**
Flight Instruments.....**CHECK**

RUN- UP

Parking Brake.....**SET**
Blast Area.....**CLEAR**
Fuel Selectors.....**ON**
Mixture Controls.....**LEAVE LEANED**
Prop Controls.....**FULL FORWARD**
Throttles.....**1500 RPM**
Prop Controls.....**FEATHER CHECK**
Throttles.....**2000 RPM**
Props (If Cold).....**Cycle 3X**
Prop Controls.....**GOVERNOR CHECK**
Prop Controls.....**FULL FORWARD**
Magnetos.....**CHECK**
Mixture / EGT.....**CHECK**
Alternate Air.....**CHECK**
Ammeters.....**FULL LOAD CHECK**
Suction (If Equipped).....**4.5" TO 5.2"**
Throttles.....**1000 RPM**

SPECTRUM AIRWAYS PA34-200 PIPER SENECA I - NORMAL PROCEDURES

PRE-TAKEOFF

Fuel Selectors.....**ON**
 Magnetos.....**ON**
 Prop Controls.....**FULL FORWARD**
 Mixture Controls.....**RICH**
 Alternate Air.....**OFF**
 Circuit Breakers.....**CHECK**
 Cowl Flaps.....**OPEN**
 Flaps.....**AS REQUIRED**
 Rudder and Elevator Trim.....**SET**
 Flight Controls.....**FREE AND CORRECT**
 Front and Rear Doors.....**SECURE**
 Seats / Belts.....**SECURE**
 Flight Instruments.....**SET**
 Nav Instruments.....**SET**
 Pax Briefing.....**COMPLETE**
 Takeoff Briefing**COMPLETE**
 Parking Brake.....**OFF**
 T.....**TRANSPONDER**
 H.....**HEADING / BUG**
 I.....**ICE PROTECTION**
 L.....**LIGHTS**
 P.....**FUEL PUMPS**

ON RUNWAY

Max Power.....**SET**
 Gauges.....**GREEN**
 Airspeed**ALIVE**
 EFIS A/S.....**CROSSCHECK @ 60KMPH**

AFTER TAKEOFF CHECK

Climb Power.....**SET 25"/2500 RPM**
 Gear.....**CONFIRM UP**
 Flaps.....**RETRACTED**
 Check.....**Caps, Cowl Latches,
 Fire, Smoke, Oil, Transponder ALT
 EFIS ALT.....CROSSCHECK @ 400 AGL**

CRUISE CHECK

Cruise Power.....**SET**
 Cowl Flaps.....**CLOSED**
 Fuel Pumps.....**OFF, CHECK PRESSURE**
 Mixture Controls.....**LEAN**
 Landing Lights.....**OFF**

IN RANGE / PRE-LANDING CHECK

Magnetos.....**ON**
 Master.....**ON**
 Alternators.....**ON**
 Lights.....**AS REQUIRED**
 Engine Gauges.....**CHECK**
 Mixture Controls.....**RICH**
 Fuel Selectors.....**ON**
 Seats/Belts.....**SECURE**
 Passengers.....**BRIEFED**

ON FINAL (VFR) / BEACON INBOUND (IFR)

Gas.....**FUEL SELECTORS ON**
 Undercarriage.....**3 GREEN**
 Mixtures.....**RICH**
 Propellers.....**FULL FORWARD**
 Switches.....**FUEL PUMPS ON**

AFTER LANDING

Flaps.....**RETRACT**
 Cowl Flaps.....**OPEN**
 Transponder.....**STANDBY/1200**
 Fuel Pumps.....**OFF**
 Unnecessary Electrics.....**OFF**
 Landing Time.....**NOTE**
 Mixtures.....**LEAN @ 1200 RPM**
 Flight Plan.....**CLOSE**

SHUT DOWN

Radio.....**121.5 ELT CHECK**
 Avionics.....**OFF**
 Electrics.....**OFF**
 Panel Lights.....**OFF**
 Throttles.....**IDLE**
 Magnetos.....**LIVE MAG CHECK**
 Mixtures.....**ICO**
 Magnetos.....**OFF**
 Master Switch.....**OFF**
 Alternators.....**OFF**
 Hobbs Time.....**RECORD**

REPORT UNSERVICEABILITIES

CRITICAL SPEEDS		MPH
Vso	Stall - gear Dn/40° Flap	69
Vs	Stall - Clean	76
Vmc	Minimum Controllable	80
Vr	Rotation Speed	85
Vsse	Safe Single Engine Speed	90
Vx	Best Angle	90
Vy	Best Rate	105
Vyse	Best Rate - single engine	105
Vapp	Approach (Flaps 40°)	110
Vref	Over the Threshold	95
Vfe	Max Flap Extension	125
Vlo	Max Gear Retraction	125
Va	Manoeuvring Speed	146
Vle	Max Gear Extension	150
Vno	Structural Cruise Speed	190
Vne	Never Exceed Speed	217