

**START**

Fuel Selector	ON – Correct Tanks
Mixture	RICH
Throttle	SET 1cm
Propellers	Full Forward
Magnetos	ON
Pumps	ON
Primers	As Required then Lock
Start	

**AFTER START**

Engines	Set 1200 RPM
Oil Pressure	Check
Oil Temperature	Check
Gyro Suction	Check
Ammeters	Check
Fuel Pumps	OFF
Fuel Pressure	Check
Avionics	As Required

**TAXI**

Brakes	Check
Instruments	Check

**PRE TAKE-OFF**

Brakes	ON
Mixture, Propellers	Full Forward
Throttles (Oil Temp GREEN)	1500 RPM
Feather Check	Check
Throttles 2000 RPM - Magnetos	Check
Propeller Governors	Check
Carburettor Heat	Check
Annunciators	Test – Check
Engine Gauges	Check
Throttles Idle	Check
Cowl Flaps	Check – Open
Wing Flaps	Check – Set
Controls	Full and Free
Trims	Check & Set
Instruments	Check & Set
Departure Brief	Complete
Emergency Brief	Complete

**ENTERING RUNWAY**

Fuel Pumps	ON
Transponder	ON
Strobes	ON
Landing Lights	As Required
Pitot Heat	As Required

**TAKEOFF**

Mixture	Set As Required
Propellers	Full Forward
Throttle	Full Forward
Power	Check
ASI	Alive
Temps & Pressures	Check

**AFTER TAKEOFF**

ROC	Positive
Undercarriage	UP (< 106 KIAS)
Speed	V <sub>Y</sub> (88 KIAS)
Fuel Pumps	OFF
Fuel Pressure	Check
Landing Lights	OFF

**TOP OF CLIMB**

Power	SET Cruise 65% BHP
Trim	SET
Cowl Flaps	CLOSE (As Req'd)
Mixture	LEAN
Engine Gauges	Checked
Pitot Heat	As Required

**DESCENT**

Approach Review / Plan	Complete
Mixtures	Progressive Rich
Power	SET
Cowl Flaps	CLOSED

**PRELAND**

Park Brake	OFF
Brake Pressure	Checked
Fuel Selector	Main – Correct Tank
Fuel Quantity	Sufficient
Fuel Pumps	ON
Mixtures	RICH
Seat Belts and Harness	Secure
Seat Backs	Upright
Undercarriage	DOWN ≤ 140 KIAS
Flaps	As Required
Landing Lights	As Required
Carburettor Heat	As Required

**FINAL APPROACH**

Undercarriage	3 Green Lights
Propellers	Set
Flap	Set
Fuel Pumps	ON
Carburettor Heat	OFF
Runway Clear	Check
Landing Clearance	Acknowledge

**AFTER LANDING**

Radios	Set
Transponder	OFF
Propellers	Full Forward
Cowl Flaps	OPEN
Wing Flaps	UP
Strobes	OFF
Lights	AS required
Heater	FAN then OFF
Pitot Heat	OFF
Fuel Pumps	OFF

**SHUTDOWN - PARK**

Avionics	OFF
Park Brake	OFF
Mixture	Idle Cut-off
Magnetos	OFF
Master Switch – Alternators	OFF
Controls	LOCKED
Chocks	IN
Tie Downs	SECURE
Screens	Installed
Security	SET

**USEFUL SPEEDS - KIAS**

Best Rate of Climb – V <sub>Y</sub>	88
Best Single Engine Rate of Climb – V <sub>YSE</sub>	88
Best Angle of Climb – V <sub>X</sub>	82
Best Single Engine Angle of Climb – V <sub>XSE</sub>	82
Single Engine Minimum Control Speed - V <sub>MC</sub>	56
Maximum Gear Extension Speed – V <sub>LE</sub>	140
Maximum Gear Retraction Speed – V <sub>LO</sub>	109
Maximum Flap Speed – V <sub>FE</sub>	111
Maximum Crosswind	17
Turbulence Penetration – V <sub>A</sub>	135/112
Normal Operating – V <sub>NO</sub>	169
Never Exceed – V <sub>NE</sub>	202

### SOP - Techniques

Immediately after starting each engine ( by ROTE )  
check Oil pressure, temperature, Suction, Amps.

### TAXI

Whilst Taxiing, (ROTE) "Left turn, numbers (compass) decreasing, (DG) decreasing, (TC) left turn, right skid, (FAI) No pitch or Bank, (ADF on distant NDB) ADF tracking Altimeter within 75 (or 60 or 100 as appropriate) feet".

TAXI – NO Strobes, Pitot Heat or Transponder. Limit Pitot Heat ground operation to 3 minutes maximum.

### TAKE-OFF

Gently apply full power. Check power and other gauges.  
Check Airspeed alive.  
Check Airspeed at Runway Halfway point. Must have at least 75% of Take-off speed, (57 KIAS) otherwise close throttles, apply full brakes, exit runway.  
Rotate at 75 KIAS.  
Rotate to 7½° to 10° pitch attitude.  
Positive ROC (confirm on VSI) apply brakes, raise undercarriage.  
Climb at Full Power and V<sub>Y</sub> to 500 AGL, reduce to 25" 2400 RPM, accelerate to Cruise-climb speed 105 KIAS then complete after take-off checks.

### CRUISE

Use 65% BHP. Lean to BP. Low RPM, High MP is preferred.  
See cruise power table. Adjust cowl flaps to maintain CHT within green arc (about 400°F max)

### DESCENT

Reduce power 1" per 1000 feet or 1 " per 2 minutes to 20" MP.  
Leave propeller controls.  
Richen mixture on descent. Do not set full rich at TOPD.

### CIRCUIT – HOLDING PATTERN

Set 20" MP. Leave Cruise RPM.

### APPROACH & LAND

Commence descent from Circuit. Reduce to 15" MP, select 10° Flap, maintain V<sub>YSE</sub> + 10 (98 KIAS). Use 25° Flap as required to maintain speed and profile. At about 300 AGL on final, apply full flap, slow to approach speed, 80 – 90 KIAS.

### USE OF FLAPS

Use 0° Flaps for normal take-off  
Use 25° for short/soft field with obstacles  
Consider using 0° or 10° Flap in strong gusty crosswinds



SCHOFIELDS FLYING CLUB

## PIPER SEMINOLE PA44



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### Abbreviated Checklist – Normal Operations

For full details, notes, precautions, abnormal and emergency operations - see Pilot Operating Handbook

#### PRESTART

Preflight Inspection	Complete
Documentation	Complete / onboard
Seats, Belts, Harness, Doors	Secure
Brakes	ON
Circuit Breakers	Checked
Instruments	Checked
Controls	Full & Free Movement
Carburettor Heat	OFF
Avionics	OFF
Battery Master	ON
Alternators	ON

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