

**Piper Seminole
Normal Checklist (Rev. 2 08MAR23)**

BEFORE STARTING ENGINE

Passenger Briefing COMPLETE
 Weight and Balance VERIFY IN LIMITS
 Seats ADJUSTED & LOCKED
 Seatbelts and Harness FASTEN/ADJUST
 Empty Seats SECURED
 Prayer AS DESIRED

Fuel Selectors ON
 Trim (Stabilator and Rudder) SET
 Cowl Flaps OPEN
 Carburetor Heat (Both) OFF
 Friction Control Handle AS DESIRED
 Mixtures IDLE CUT-OFF
 Propeller Controls FULL FORWARD
 Throttles IDLE
 Gear Selector GEAR DOWN
 Parking Brake SET

Heater Switch OFF
 Circuit Breakers CHECK IN
 Radio Master Switch OFF
 Electrical Switches OFF
 Day/Night Switch AS REQUIRED

Refer to POH for appropriate checklist for these starts:

- Cold Weather
- Flooded Engine

NOTE

When starting at ambient temperatures +20°F and below, operate first engine started with alternator ON (at max charging rate not to exceed 1500 RPM) for 5 minutes minimum before initiating start on second engine.

NORMAL START – COLD ENGINE

Battery Master ON / COOLING FANS
 Alternators ON
 Electrical Fuel Pumps ON
 Fin Strobe ON
 Mixtures FULL RICH
 Propeller Controls FULL FORWARD
 Throttles 1/4 inch OPEN
 Landing Gear Lights 3 GREEN
 Primary Flight Display (PFD) INCREASE BRIGHTNESS
 *Magneto Switches ON
 *Primer AS REQUIRED
 *Propeller Area CLEAR
 *Starter ENGAGE
 *Throttle 1000 RPM
 *Oil Pressure CHECK

Repeat Above Procedure (*) for Second Engine Start

Warmup 1000 – 1200 RPM
 Annunciator Panel Lights EXTINGUISHED
 (except pitot-heat)
 Radio Master ON
 Autopilot Master Switch ON

VERIFY SELF TEST COMPLETED

NORMAL START – HOT ENGINE

Same Procedure as Cold Engine Start, except Don't Prime for a hot start

BEFORE TAXIING

Initial Usable Fuel SET
 Ammeters CHECK
 Voltmeter CHECK
 Fuel Quantity/Imbalance CHECK
 Heater and Defroster AS DESIRED
 Electric Trim CHECK
 Standby Attitude Indicator CAGE & TEST
 Altimeter/Standby Altimeter SET
 ADAHRS VERIFY INITIALIZED
 Mixtures LEAN

TAXIING

Taxi Area CLEAR
 Fuel Selectors L & R - CROSSFEED
 Recognition Light ON
 Parking Brake RELEASE
 Brakes & Steering CHECK
 Flight Instruments CHECK

GROUND CHECK

Parking Brake SET
 Fuel Selectors ON
 Mixtures ADJUST FOR D.A. & ELEVATION
 Propeller Controls FULL FORWARD
 Engine Instruments CHECK
 Throttles 1500 RPM
 Propeller Controls FEATHER – CHECK
 (Max. Drop - 500 RPM)
 Throttles 2000 RPM
 Propeller CYCLE 3X, THEN FULL FWD
 (Max. Drop - 300 RPM)
 MANIFOLD PRESSURE INCREASE
 RPM DECREASE
 OIL PRESSURE DECREASE
 Magnetos CHECK
 (Max. Drop - 175 RPM)
 (Max. Diff. - 50 RPM)
 Carburetor Heat CHECK
 Alternator Output CHECK
 Annunciator Panel Lights EXTINGUISHED
 (except pitot heat)
 Throttles (550 to 650 RPM) IDLE - CHECK
 Throttles 1000 RPM
 Friction Handle SET

BEFORE TAKEOFF – FIRST TAKEOFF

Annunciator Panels	PRESS-TO-TEST
Autopilot/FD	Disengaged / “RDY”
Fuel Selectors	ON
Stabilator and Rudder Trims	SET
Flaps	UP
Cowl Flaps	OPEN
Carb Heat	OFF
Mixtures	FULL RICH
Propellers	FULL FWD
Flight Instruments	CHECK
Flight Controls	CHECK
Battery Master Switch	ON
Alternators	ON
Electric Fuel Pumps	ON
Pitot Heat	AS REQUIRED
Exterior Lights	ON
Transponder	AS REQUIRED
Engine Instruments	CHECK
Annunciator/MFD Messages	CHECK
Door	LATCHED
Takeoff Briefing	COMPLETE
* Computed Takeoff Distance	
* Available Runway Distance	
* Climb Speeds	
* Brief intentions if engine fails	
Parking Brake	RELEASE

* Refer to POH for Takeoff Procedure
* Rotate = 75 KTS (normal), or 70 KTS (short field)

CLIMB (Above 1000’ AGL)

Enroute Climb	105 KIAS
Power	25” MP
Propeller Controls	2500 RPM
Flaps	UP
Gear	UP
Fuel Pumps	OFF/AS REQUIRED

CRUISE/POST MANEUVER

Power	SET PER POWER TABLE
Mixture Controls	ADJUST
Landing Light	OFF
Cowl Flaps	CLOSED/AS REQUIRED

PRE-MANEUVER

Area	CLEAR
Minimum Safe Altitude	VERIFY
Fuel Selectors	ON
Mixtures	AS REQUIRED
Fuel Pumps	ON
Exterior Lights	ON

DESCENT – (within 10 miles)

Radios & Avionics	CHECK & SET
Altimeter/Standby Altimeter	SET
Toe Brakes	DEPRESS TO CHECK
Seat Belts/Harnesses	FASTEN/ADJUSTED
Seat Backs	ERECT
Cowl Flaps	CLOSED/AS REQUIRED
Mixture Controls	ADJUST
Approach Briefing	COMPLETE

BEFORE LANDING

Fuel selectors	ON
Landing Gear	DOWN/3 GREEN (<140 KIAS)
Nacelle Mirror	NOSE GEAR DOWN
Mixture	FULL RICH
Propeller Controls	FULL FWD (<100 KIAS)
Fuel Pumps	ON
Exterior Lights	ON
Carburetor Heat Controls	OFF/AS REQUIRED
Cowl Flaps	OPEN

AFTER LANDING

Flaps	RETRACT
Cowl Flaps	FULL OPEN
Carburetor Heat Controls	OFF
Mixtures	LEAN
External Lights	AS REQUIRED
Electric Fuel Pumps	OFF
Cabin Heat	OFF

BEFORE TAKEOFF - SUBSEQUENT TAKEOFFS

Fuel Selectors	ON
Trims	SET
Flaps	SET
Cowl Flaps	AS REQUIRED
Carburetor Heat Controls	OFF
Mixture Controls	SET
Propeller Controls	MAX RPM
Fuel Pumps	ON
External Lights	AS REQUIRED

STOPPING ENGINE

Parking Brake	SET
Heater (If ON)	FAN - 2 MIN. THEN OFF
Autopilot/FD	OFF
Radio Master Switch	OFF
Electrical Equipment	OFF (except Fin Strobe)
Throttles	IDLE
Magnetos	GROUND CHECK
Throttles	1000 RPM
Mixtures	IDLE CUTOFF
Throttles	IDLE
Fin Strobe	OFF
Magneto Switches	OFF
Alternator Switches	OFF
Battery Master	OFF

LEAVING AIRCRAFT

Parking Brake	AS REQUIRED
Flaps	VERIFY RETRACT
Control Wheel	SECURED WITH BELTS
Passenger and Baggage Door	LOCKED
Chocks/Tie Downs	INSTALLED
Pitot Cover	INSTALLED

QUICK REFERENCES

SPEEDS

V _x	82 KIAS
V _y	88 KIAS
V _{YSE}	88 KIAS
V _{MCA}	56 KIAS
V _{so}	55 KIAS
V _s	57 KIAS
V _{LE}	140 KIAS
V _{LO(EXT)}	140 KIAS
V _{LO(RET)}	109 KIAS
V _{FE}	111 KIAS
V _A (@3800 LBS)	135 KIAS
V _A (@2700 LBS)	112 KIAS
V _{NO}	169 KIAS
V _{NE}	202 KIAS

WEIGHTS

Maximum Ramp	3816 lbs
Maximum Takeoff Weight	3800 lbs
Maximum Landing Weight	3800 lbs
Maximum Baggage	200 lbs