

PA 44 Seminole Checklist (2126Y)

BEFORE START	
Preflight.....	Complete
Passenger Briefing.....	Complete
Seats.....	Adjusted
Seatbelts.....	Fasten
Circuit Breakers.....	In
Avionics.....	Off
Fuel Selectors.....	On
Trim.....	Set
Cowl Flaps.....	Open
Primers.....	Locked
Carb Heat.....	Off
Gear Lever.....	Down
Master.....	On
Alternators.....	On
Nav Lights.....	Night Only
Strobes.....	On
STARTING ENGINES	
Electric Fuel Pumps.....	All on
Magnetos.....	All on
Mixture.....	Full Rich
Props.....	Full Forward
Throttles.....	¼ inch open
Prime.....	As needed; locked
Prop Area.....	Clear
Starter.....	Engage
Throttle.....	1000 RPM
Oil Pressure.....	Check
Mixture.....	Lean for Taxi
Gyro Suction.....	Check
-Repeat checklist for 2nd Engine-	
BEFORE TAXIING	
Avionics Master.....	On
Avionics.....	SET
Wing Flaps.....	UP
Aux Fuel Pumps.....	OFF, Then On
(Check Fuel Pressure)	
Lights.....	AS REQUIRED
Weather.....	Obtain
Altimeter.....	SET
Cabin Air.....	AS REQUIRED
TAXIING	
Throttles.....	AS REQUIRED
Brakes.....	CHECK
Flight Instruments.....	CHECK
Hotspots and Taxi Route.....	BRIEF

BEFORE TAKEOFF	
Brakes.....	HOLD
Radios.....	SET
Flight Instruments.....	CHECK AND SET
FUEL.....	STATE QUANTITY
Mixtures.....	Full Forward
Props.....	Full Forward
Throttles.....	1500 RPM
Prop .Check Feathering, Max 500 RPM drop	
Throttles.....	2000 RPM
Props.....	Reduce to 1900 RPM
Throttles.....	Increase 1" MP
Props.....	Verify 1900 RPM
Prop Controls.....	FULL FWD
Carb Heat.....	Check
Magnetos.....	Check(<175/50)
Alternator Output.....	Check
Gyro Suction.....	Check 4.8 to 5.2
Engine Instruments.....	Check
Throttles.....	1000 RPM
Flight Controls.....	Free and Correct
Fuel Selectors.....	On
Cowl Flaps.....	Open
Primers.....	Locked
Carb Heat.....	Off
Quadrant Friction.....	Set
Mixtures.....	Set
Props.....	Full
Annunciator Panel.....	Test
HSI.....	Set
Autopilot.....	Check
Trim.....	Set
Fuel Pumps.....	On
Landing Light.....	On
Seatbelts.....	Secure
Door.....	Latched
Window.....	Closed
EMERGENCY BRIEF	
On the Runway	
After Liftoff, Runway Remaining	
No runway remaining, Below TPA	
Above TPA	
TAKEOFF	
Flaps.....	Up
Mixtures.....	SET for field elevation
Throttle.....	FULL 2700 RPM
Engine Inst.....	Check
Rotate.....	75 KIAS

AFTER TAKEOFF	
<u>After Positive Rate of Climb:</u>	
Brakes.....	Apply Momentarily
Landing Gear.....	Retract
Red Gear Unsafe Lt.....	OFF
Best Angle Climb.....	82 KIAS
Best Rate Climb.....	88 KIAS
CRUISE CLIMB	
Power.....	2500 RPM & 25"MP
Airspeed.....	90 to 105 KIAS
Mixtures.....	Adjust as needed
Cowl Flaps.....	AS REQUIRED
CRUISE	
Cruise Power - 20" to 23" MP & 2300RPM	
Prop RPM.....	SET
Mixtures.....	AS REQUIRED
Cowl Flaps.....	AS REQUIRED
Trim Tabs.....	ADJUST
Aux Fuel Pumps.....	OFF
FUEL.....	STATE QUANTITY
PRE-MANEUVER	
Aux Fuel Pumps.....	On
Fuel Selectors.....	On
FUEL.....	STATE QUANTITY
Lights.....	On
Area.....	Clear
Mixtures.....	Rich
Power and RPM.....	Set
DESCENT	
Mixtures.....	Adjust with Descent
Throttles.....	Adjust for Descent
Cowl Flaps Close if full stop or prolonged descent	
BEFORE LANDING	
GAS (Fuel Selectors & Aux Pumps.....) On	
PF - Undercarriage.....Down <140 KIAS	
- 3 Green 1 in the Mirror	
- No gear warning horn	
PM-.....	Verablize Confirm
Mixtures.....	Gradually Full Rich
Propellers.....	Sync and Full FWD (FINAL)
Seat Belts.....	SECURE
Switches.....	Lights On
Flaps - as required.....	below 111kts
Final Approach Speed.....	75 KIAS
Short Final.....	Verify Gear Down

GO AROUND	
Power.....	FULL & 2700 RPM
Wing Flaps.....	Up to 10°
(when clear of obstacles & Positive Rate)	
Landing Gear.....	Retract
(Positive Rate)	
Pitch for Blue Line	
Wing Flaps.....	Up to 0°
Cowl Flaps.....	As Required
Carb Heat.....	OFF
AFTER LANDING	
Radio.....	SET
Flaps.....	UP
Lights.....	As Required
Cowl Flaps.....	OPEN
Carb Heat.....	OFF
Mixture.....	LEAN FOR TAXI
Fuel pumps.....	OFF
Heater (if used).....	Fan (Down)
SHUT DOWN	
Transponder.....	VFR
Avionics Master.....	OFF
All Lights.....	OFF
Aux Pumps.....	ALL OFF
Throttles.....	IDLE
Props.....	HIGH RPM
Mixtures.....	IDLE CUT OFF
Magnetos.....	(after engine stops) ALL OFF
Batt and Alternators.....	ALL OFF
HOBBS/TACH TIME.....	RECORD
Control Lock.....	INSTALL
Cabin Door.....	CLOSE/LOCK
V Speeds:	
Vr - 75 KIAS	
Vx - 82 KIAS	Vxse - 82 KIAS
Vy - 88 KIAS	Vyse - 88 KIAS
Vso - 55 KIAS	Vs1 - 57 KIAS
Vmc - 56 KIAS	Vsse - 82 KIAS
Va - 112 (2700 lbs)	Va - 135 (Max gross)
Vle - 140 KIAS	Vlr - 109 KIAS
Vno - 169 KIAS	Vne - 202 KIAS



ENGINE FIRE ON GROUND
<i>(Engine not started)</i>
Mixture..... CUTOFF
Throttle..... FULL OPEN
STARTERKEEP ENGAGED
CONTINUE TO CRANK ENGINE
<i>(ENGINE HAS JUST STARTED)</i>
CONTINUE RUNNING TO PULL FIRE INTO ENGINE
<i>(IF FIRE CONTINUES)</i>
FUEL SELECTORS..... OFF
FUEL PUMPS..... OFF
MIXTURES..... CUTOFF
THROTTLES..... FULL OPEN
MASTER SWITCH..... OFF
FIRE EXTINGUISHER USE IF PRACTICAL
EVACUATE AIRCRAFT
EMERGENCY EVACUATE
MIXTURES CUTOFF
FUEL SELECTORS..... OFF
FUEL PUMPS..... OFF
MASTER SWITCH..... OFF
PARKING BRAKE..... SET
EXIT MAIN DOOR OR EMERGENCY EXIT
EMERGENCY EXIT
PLASTIC COVER..... REMOVE
EMG EXIT HANDLE..... PULL FWD
WINDOW..... PUSH OUT
ENGINE FIRE IN FLIGHT
AFFECTED ENG FUEL SELECTOR..... OFF
AFFECTED ENG THROTTL..... CLOSE
AFFECTED ENG PROP..... FEATHER
AFFECTED ENG MIXTURE..... CUTOFF
AFFECTED ENG COWL FLAPS..... OPEN
<i>PERFORM ENGINE FAILURE SECURE CHECKLIST</i>
IF FIRE PERSISTS:
AIRSPEED INCREASE UP TO 202 KIAS
LAND ASAP AT NEAREST SUITABLE AIRPORT

ELECTRICAL FIRE
MASTER SWITCH..... OFF
ALTERNATORS OFF
ALL ELECTRICAL SWITCHES OFF
AVIONICS MASTER..... OFF
VENTS (AVOIDS DRAFTS)..... OFF
CABIN HEAT..... OFF
LAND AS SOON AS PRACTICAL
<i>Extinguish with fire extinguisher if practical. Refer to POH for complete electrical fire checklist procedure</i>
IN-FLIGHT ENGINE FAILURE
MAINTAIN DIRECTIONAL CONTROL / PITCH ATTITUDE / AIRSPEED
MIXTURES FULL FWD
PROPS FULL FWD
THROTTLES FULL FWD
FLAPS UP
GEAR UP
IDENTIFY DEAD FOOT
VERIFY/THROTTLE CLOSE
<i>Troubleshoot:</i>
INOP THROTTLE OPEN 1"
FUEL PUMPS ON
MAGNETOS ON/CHECK
FUEL SELECTORS ON
PRIMERS LOCKED
CARB HEAT ON, CHECK, OFF
FUEL QTY/PRESSURE CHECK
OIL PRESSURE/TEMP CHECK
<i>If engine inop, continue Engine Failure Secure Checklist</i>
ENGINE FAILURE SECURE
INOP ENG PROP FEATHER
INOP ENG MIXTURE CUTOFF
OP ENG MIXTURE LEAN AS REQ
OP ENG THROTTLE POWER AS REQ
TRIM AS REQ
INOP ENG MAGNETOS OFF
INOP ENG FUEL PUMP OFF
INOP ENG ALTERNATOR OFF
INOP ENG FUEL SELECTOR OFF
INOP ENG COWL FLAP CLOSED
FRESH AIR Blower..... OFF(Center)

AIRSTART
INOP ENG FUEL SELECTOR ON
INOP ENG CARB HEAT OFF
INOP ENG MIXTURE FULL FWD
INOP ENG PROP FULL FWD
INOP ENG FUEL PUMP ON
INOP ENG ALTERNATOR ON
INOP ENG MAGNETOS ON
INOP ENG THROTTLE .. 2 FULL STROKES
INOP ENG THROTTLE 1/8" OPEN
INOP ENG STARTER (8 sec max) ENGAGE
<i>PROP WINDMILLING</i>
INOP ENG STARTER RELEASE
<i>WHEN ENGINE BEGINS TO RUN</i>
THROTTLE..... SLOWLY TO 15" MP
MAINTAIN 15" MP UNTIL CHT GREEN
<i>PERFORM CRUISE CHECKLIST</i>
PROP OVERSPEED
THROTTLE RETARD
OIL PRESSURE CHECK
PROP CONTROL DECREASE
<i>Do not feather. Set RPM if any control.</i>
AIRSPEED REDUCE
THROTTLE (below 2700 RPM) AS REQ
ENG SHUTDOWN IF NECESSARY
IN-FLIGHT ENGINE FAILURE APPROACH
MIXTURES FULL FWD
PROPS FULL FWD
THROTTLES FULL FWD
FLAPSEVALUATE
GEAREVALUATE
IDENTIFY DEAD FOOT
VERIFY/THROTTLE..... CLOSE
INOP ENG PROP FEATHER
INOP ENG MIXTURE CUTOFF
<i>On Short Final: "Gear Down-3 Green, 1 in the Mirror"</i>

UNSAFE GEAR / MANUAL EXTENSION
DAY/NIGHT DIMMER DAY
CIRCUIT BREAKERS CHECK
MASTER SWITCH CHECK ON
AMMETERS CHECK
AIRSPEED 100 KIAS MAX
GEAR SELECTOR DOWN
EMER. EXTENSION KNOB PULL
INDICATOR LIGHTS CHECK 3 GREEN
LEAVE EMER. KNOB OUT CHECK
IF 3 GREEN NOT INDICATED.... YAW AIRCRAFT and APPLY G-LOAD
<i>Refer to POH for amplified.</i>
EMERGENCY DESCENT
COWL FLAPS CLOSED
THROTTLES CLOSED
PROPS FULL FWD
MIXTURES ADJUST
GEAR Down Below 140 KIAS
MAINTAIN 120-140 KIAS
NOTIFY ATC ASAP
<i>RECOVERY</i>
GEAR Up (Below 109 KIAS)
COWL FLAPS AS REQUIRED
THROTTLES CRUISE
PROPS CRUISE
MIXTURES ADJUST



KADS	
ATIS (972-628-2439)	133.4
Ground	121.6
Tower (972-628-2420)	126.0
Approach (972-615-2500)	124.3/124.25
Atlantic (972-713-7000) :	122.85