

**PA 44 Seminole Checklist (2000+)**

**BEFORE START**

Preflight.....Complete  
 Passenger Briefing.....Complete  
 Seats.....Adjusted  
 Seatbelts.....Fasten  
 Circuit Breakers.....In  
 Radio Master.....Off  
 Fuel Selectors.....On  
 Trim.....Set  
 Cowl Flaps.....Open  
 Carb Heat.....Off  
 Gear Lever.....Down  
 Cabin air/Heater.....Off(Center)  
 Master.....On  
 Alternators.....On  
 Day/Night.....As required  
 Fin Strobe.....Down

**STARTING ENGINES**

Electric Fuel Pumps.....All On  
 Magnetos.....All on  
 Mixture.....Full Rich  
 Props.....Full Forward  
 Throttles.....¼ inch open  
 Prime .....As needed  
 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**

Radio Master.....On  
 PFD.....On  
 Autopilot and Trim.....On  
 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  
 175rpm max drop, 50rpm max diff  
 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  
 Carb Heat.....Off  
 Quadrant Friction.....Set  
 Mixtures.....Set  
 Props.....Full  
 Annunciator Panel.....Test  
 HSI.....Set  
 Autopilot.....Check  
 Trim.....Set  
 Fuel Pumps.....On  
 Lights.....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**

After Positive Rate of Climb:  
 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

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**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  
 All Lights.....OFF  
 Radio Master.....OFF  
 PFD.....OFF  
 Autopilot and Trim Master.....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..... <b>CUTOFF</b>
Throttle..... <b>FULL OPEN</b>
STARTER .....KEEP ENGAGED
CONTINUE TO CRANK ENGINE
<i>(ENGINE HAS JUST STARTED)</i>
<b>CONTINUE RUNNING TO PULL FIRE INTO ENGINE</b>
<i>(IF FIRE CONTINUES)</i>
FUEL SELECTORS..... <b>OFF</b>
FUEL PUMPS..... <b>OFF</b>
MIXTURES..... <b>CUTOFF</b>
THROTTLES..... <b>FULL OPEN</b>
MASTER SWITCH..... <b>OFF</b>
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>
<b>IF FIRE PERSISTS:</b>
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
<b>MAINTAIN DIRECTIONAL CONTROL / PITCH ATTITUDE / AIRSPEED</b>
MIXTURES ..... <b>FULL FWD</b>
PROPS ..... <b>FULL FWD</b>
THROTTLES ..... <b>FULL FWD</b>
FLAPS ..... <b>UP</b>
GEAR ..... <b>UP</b>
IDENTIFY ..... <b>DEAD FOOT</b>
VERIFY/THROTTLE ..... <b>CLOSE</b>
<i>Troubleshoot:</i>
INOP THROTTLE .....OPEN 1"
FUEL PUMPS .....ON
MAGNETOS .....ON/CHECK
FUEL SELECTORS .....ON
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 THROTTLE.....1/8" OPEN
INOP ENG FUEL SELECTOR .....ON
INOP ENG CARB HEAT .....OFF
INOP ENG MAGNETOS .....ON
INOP ENG FUEL PUMP .....ON
INOP ENG ALTERNATOR .....ON
INOP ENG MIXTURE.....FULL RICH
AIRSPEED .....100 TO 120 KIAS
INOP ENG PROP.....FULL FWD
<i>If prop does not come out of feather, engage starter for 1-2 seconds.</i>
<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
<b>FLAPS .....EVALUATE</b>
<b>GEAR .....EVALUATE</b>
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
<b>IF 3 GREEN NOT INDICATED.... YAW AIRCRAFT and APPLY G-LOAD</b>
<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