

## 156WM PA 44 Seminole Checklist

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 Master.....	On
Trim Master.....	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

BEFORE TAKEOFF	
Brakes.....	HOLD
Radios.....	SET
Flight Instruments.....	CHECK AND SET
FUEL.....	STATE QUANTITY
Mixtures.....	Full Forward
Props.....	Full Forward
Throttles.....	1500 RPM
Prop Controls.....	Check Feathering (500 RPM Max Drop)
Throttles.....	2000 RPM
Props – EXERCISE.....	(200-300 RPM drop) (3 times when cold)
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	
<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

Revision 4-14-2021

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:	
<b>Vr - 75 KIAS</b>	
<b>Vx - 82 KIAS</b>	<b>Vxse - 82 KIAS</b>
<b>Vy - 88 KIAS</b>	<b>Vyse - 88 KIAS</b>
<b>Vso - 55 KIAS</b>	<b>Vs1 - 57 KIAS</b>
<b>Vmc - 56 KIAS</b>	<b>Vsse - 82 KIAS</b>
<b>Va - 112 (2700 lbs)</b>	<b>Va - 135 (Max gross)</b>
<b>Vle - 140 KIAS</b>	<b>Vlr - 109 KIAS</b>
<b>Vno - 169 KIAS</b>	<b>Vne - 202 KIAS</b>



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 THROTTLE.....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
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
FLAPS ..... <b>EVALUATE</b>
GEAR ..... <b>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
NAV LIGHTS .....CHECK OFF
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
THROTTLES .....CLOSED
PROPS .....FULL FWD
MIXTURES .....ADJUST
GEAR .....Down Below 140 KIAS
COWL FLAPS .....CLOSED
MAINTAIN .....120-140 KIAS
NOTIFY ATC ASAP
<i>RECOVERY</i>
THROTTLES .....CRUISE
GEAR .....Up (Below 109 KIAS)
PROPS .....CRUISE
MIXTURES .....ADJUST
COWL FLAPS .....AS REQUIRED



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