

# PA28-181 Checklist

## N6817J



PREFLIGHT	
Weather	Density Altitude
Weight & Balance	Flight Plan
Frequencies & Phone #s	
Papers: AROW (Airworthiness, Registration, Op. Limits, Weight and Balance), Pilot Cert, Current Medical	
EXTERIOR	
Cockpit:	
Ignition	OFF, Key Removed
Master Switch	ON
Avionics Master	ON
Light Switches (Nav, Strobe, Beacon, Landing)	ON
Pitot Heat	ON
Hobbs/Tach	Record Time
Walk around and check lights, pitot heat, stall warning	
Light Switches (Nav, Strobe, Beacon, Landing)	OFF
Pitot Heat	OFF
Avionics Master	OFF
Master	OFF
Flaps	Check operating range, EXTENDED
Walk around:	
RIGHT WING	
Flaps and Ailerons	CHECK
Wing Tip	CHECK
Wing Tie-down	DISCONNECT
Fuel Tank Vent	CHECK
Fuel Quantity	CHECK VISUALLY
Fuel Tank Sump	CHECK
Main Landing Gear (Tire 24 psi)	CHECK
NOSE	
Engine Oil Level	Oil 6-8 qts **Do not over tighten cap**
Carburetor Air Inlet	CHECK

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Propeller and Spinner	CHECK
Alternator Belt	CHECK
Nose Landing Gear (Tire 18 psi)	CHECK
Fuel Strainer	CHECK
LEFT WING	
Fuel Tank Sump	CHECK
Main Landing Gear (Tire 24 psi)	CHECK
Fuel Tank Vent	CHECK
Wing Tie-down	DISCONNECT
Fuel Quantity	CHECK
Wing Tip	CHECK
Aileron and Flaps	CHECK
EMPENNAGE	
Stabilator and Rudder	CHECK
Trim Tab	CHECK
Tail Tie Down	Remove
BEFORE STARTING ENGINE	
Brakes	Set
Passenger Brief	Complete (SAFETY)
Seat Tracks	Secure
Belts/Harness	Secure
Loose Items	Secure

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ENGINE START	
Flap	RETRACTED
Master Switch	ON
Circuit Breakers	CHECK IN
Carb Heat	OFF
Anti-Collision Lights	ON
Electric Fuel Pump	ON
Throttle	Closed
Mixture	Rich
Fuel Selector	Fullest Tank
Throttle	Pump as needed then open 1/8 inch
Prop Area	CLEAR PROP
Ignition Switch	ON
Throttle	Adjust to 800-1000 RPM, lean for taxi
Oil Pressure	Check GREEN
Ammeter	Check
Fuel Pump	OFF
Avionics Master Switch	ON
Transponder	Standby and VFR

PRE-RUN UP	
Avionics/Radios	On/Set Frequencies
Transponder	ALT
ATIS/AWOS	Listen/Notes
Altimeter	Set
Test and Set:	Brakes, Compass, Altitude, Heading and Turn Indicators, and Inclinometer
Landing/Taxi Lights	As Required
Taxi Area	Clear

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RUN-UP	
Brakes	Set and Hold
Cabin Doors	Closed and Latched
Flight Controls	Free and Correct
Primer	In and Locked
Fuel Selector	Fullest Tank, Quantity OK
Elevator and Rudder Trim	Set for Take Off
Fuel Pump	ON
Mixture	Rich or as appropriate
Throttle	2000 RPM
Check:	MAGS – R, B, L, B (Up to 175 RPM drop in either or 50 RPM differential) CARB HEAT Amps/Volts – In Green Oil Pressure and Temp – In GREEN
Annunciator Panel	Press to Test
Throttle	Check idle, 800-1000 RPM
Fuel Pump	OFF
Transponder	ALT
Flight Plan	Set

N6817J Speeds			
Vx:	<b>64 KIAS</b>	Vy:	<b>76 KIAS</b>
Vs:	<b>59 KIAS</b>	Vso:	<b>53 KIAS</b>
Vfe:	<b>100 KIAS</b>	Va:	<b>108 KIAS</b>
Vno:	<b>121 KIAS</b>	Vne:	<b>148 KIAS</b>

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<b>BEFORE TAKE OFF</b>	
Radio Frequency	CHECK
Mixture	Set
Lights	As required
Electric Fuel Pump	ON, Pressure OK
Take Off and Abort Plan	Complete
Traffic	Check

<b>FLIGHT</b>	
<b>NORMAL TAKE OFF</b>	
Flaps and Trim	10° and take off
Elevator Normal Climb Out Vy	Rotate at 60 KIAS 76 KIAS
Flaps	Retract slowly at safe altitude

<b>SHORT FIELD TAKE OFF</b>	
Flaps	25°
Elevator Initial Climb Speed Vx Climb Speed Vy	Rotate at 55 KIAS 64 KIAS until clear 50' obstacle 76 KIAS
Flaps	Retract slowly at safe altitude

<b>SOFT FIELD TAKE OFF</b>	
Flaps	25°
Elevator Initial Climb Speed Vx Climb Speed Vy	Rotate at a controllable airspeed 64 KIAS until clear 50' obstacle 76 KIAS
Flaps	Retract slowly at safe altitude

<b>CLIMB</b>	
Airspeed	76-87 KIAS
Throttle	Full Open
Mixture	Rich
Engine Instruments	Check
Landing/Taxi Lights	As required

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<b>CRUISE</b>	
Throttle	As needed (75% power)
Mixture	Lean
Elevator and Rudder Trim	Adjust as needed
Fuel	Change Tanks as Required -Fuel pump ON -Switch tanks -Fuel pump OFF -Verify proper indications
Electric Fuel Pump	Off (On when changing tanks)
Engine and Flight Instruments	Check
Heading Indicator	Adjust to Compass

<b>DESCENT</b>	
Mixture	Adjust as needed
CARB Heat	As Required
Pitot Heat	As Required
ATIS/AWOS	Listen
Altimeter	Set
Landing/Taxi Lights	As Required

<b>LANDING CHECKLIST</b>	
Brakes	Pressure in Pedals
CARB Heat	ON
Landing/Taxi Lights	ON
Electric Fuel Pump	ON
Mixture, Master, Mags	RICH, ON, BOTH
Fuel Selector	Fullest Tank
Oil	Pressure and Temp OK
Hatches and Harnesses	Secure and Tighten

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LANDING	
<b>NORMAL LANDING</b>	
Extend Flaps	As Required
Approach Speed	66 KIAS
Brakes	As Required

SHORT FIELD LANDING	
Approach Speed	60 KIAS
Flaps	FULL if weather permits
Touchdown	Minimum Float and Speed
Flaps	RETRACT
Nose	DOWN
Brake	MAX OR AS REQUIRED
Control Wheel	BACK

SOFT FIELD LANDING	
Approach Speed	60 KIAS
Flaps	FULL/AS REQUIRED
Power	AS NEEDED
Touchdown	MINIMAL DESCENT RATE
Control Wheel	BACK

GO AROUND	
Throttle	Full OPEN
CARB Heat	OFF
Airspeed Vx	64 KIAS
Flaps	Retract Slowly

AFTER LANDING	
Radio Frequency	CHECK
Flaps	RETRACTED
CARB Heat	OFF
Landing/Taxi Lights	As Required
Electric Fuel Pump	OFF
Trim	Set for Take Off

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SHUT DOWN	
Hobbs/Tach	Record
Avionics/Electrical Switches	OFF
Mixture	Idle Cut Off
Master Switch	OFF
Ignition Switch	OFF, Key Out
Secure	Chocks/Tie Downs Hangar Door Closed and Locked

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\*These are not intended to replace the POH/AFM and pilots should refer to them in actual Emergency.

<b>EMERGENCY PROCEDURES</b>	
<b>Best Glide: 76 kts</b>	<b>Radios 121.5 Squawk 7700</b>
<b>ENGINE FAILURE DURING FLIGHT (Restart Procedures)</b>	
Airspeed Vg	76kts
Place to land	Locate
Carb Heat	ON
Fuel	Switch Tanks
Fuel Pump	ON
Magneto	CHECK
Throttle	SWEEP
Mixture	FULL RICH/SWEEP
Primer	LOCKED
Engine Gauges	CHECK
Declare Emergency	7700 / 121.5
If no restart, secure aircraft for landing	
Seatbelts	TIGHTEN
Doors	UNLATCH
FUEL	OFF
Fuel Pump	OFF
Throttle/Mixture	IDLE/CUT OFF
Magnetos	OFF
Master Switch	OFF
Flaps	AS NEEDED

<b>ENGINE FIRE DURING START</b>	
Starter	Keep Cranking
Mixture	IDLE CUT-OFF
Throttle	FULL OPEN
Fuel Pump	OFF
Fuel Selector	OFF

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<b>EMERGENCY PROCEDURES</b>	
<b>Best Glide: 76 kts</b>	<b>Radios 121.5 Squawk 7700</b>
<b>FIRE DURING FLIGHT</b>	
Source of fire	CHECK
<b>Electrical (Smoke in Cabin)</b>	
Master Switch	OFF
Vents	OPEN
Cabin Heat	OFF
Land as soon as practical	
<b>Engine Fire</b>	
Fuel Selector	OFF
Throttle	CLOSED
Mixture	IDLE CUT-OFF
Fuel Pump	OFF
Heater & Defrost	OFF
Emergency Decent	Execute (High airspeed to extinguish fire)
<b>DO NOT ATTEMPT RESTART</b>	
<b>Wing Fire</b>	
Mixture	IDLE CUT-OFF
Fuel Pump	OFF
Heater & Defrost	OFF
Emergency Decent	Execute (High airspeed to extinguish fire)
<b>LOSS OF OIL PRESSURE</b>	
Oil Temperature	CHECK
IF NORMAL	
Land	AS SOON AS PRACTICAL
If Elevated	
Throttle	Minimum Required
Land	AS SOON AS POSSIBLE (refer to emergency landing without engine power checklist)

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<b>Ammeter Shows Excessive Rate of Charge</b>	
Alternator	Cycle Off Then On
If Excessive Rate of Charge is Still Indicated	
Alternator	OFF
Non-Essential Equipment	OFF
Land	AS SOON AS PRACTICAL

<b>Alternator Shows Discharge</b>	
Alternator	OFF
Non-Essential Electrical Equipment	OFF
Land	AS SOON AS PRACTICAL

<b>Low Voltage Light During Flight</b>	
Radios, Avionics Switch	OFF
Alternator Circuit Breaker	CHECK
Master Switch	CYCLE
Low Voltage Light	CHECK OFF
Radios, Avionics Switch	ON
If Low Voltage Light Re-Illuminates	
Alternator	OFF
Non-Essential Electrical Equipment	OFF
Land	AS SOON AS PRACTICAL

<b>Loss of Fuel Pressure</b>	
Electric Fuel Pump	ON
Fuel Selector	Check Full Tank