PA-28-161 CHECKLIST

Preflight Inspection

Cockpit

Parking Brake	Set
Hobbs/Tach	Check
Battery	On
Fuel Quantity	Check
Lights/Stall Warning	Check
Electrical Equipment	Off
Battery	Off
Flaps	Check/Up
Trim	Set
Pitot/Static Drains	Drain/Close
Acft Documents	On Board

Right Wing

Flap Hinges	Check
Aileron	Check Hinges
Wingtip/Lights	Check
Leading Edge	Clean
Fuel Quantity	Check
Fuel Vent	Clear
Fuel Strainer	Sample
Landing Gear/Tire	Check
Air Inlet	Clear

Nose

Engine Condition	Check
Oil Quantity	Check
Propeller & Spinner	Check
Alternator Belt	Check
Air Inlets	Clear
Landing Light	Check
Nose Gear & Tire	Check
Engine Condition (L)	Check
Fuel Strainer	Sample

Left Wing

Same as Right Wing (in reverse).
Also: check pitot / static mast and stall warning horn

Fuselage and Empenage

Antennas	Check
Air Inlet	Check
Stabilator & Trim	Check
Rudder	Check

Before Start

Seat Belts	Fastened
Battery	On
Alternator	On
Anti-Collision Lights	On
Nav Lights	
Fuel Selector	Lowest Tank

Engine Start

Pilot In Command	Establish
Parking Brake	Set
Electric Fuel Pump	On
Mixture	Full Rich
Throttle	1/4" Open
Prime	As Required
Prop Area	Clear!
…	

…

Starter	Engage
Throttle	1000 RPM
Engine Instruments	Check
Annunciators	Out
Electric Fuel Pump	Off

After Start

Avionics	On
Radios	Set
Transponder	Standby
Circuit Breakers	In
Mixture	Leaned for Taxi
Fuel Selector	Opposite Tank

Before Taxi

Toe Brakes	Check
Fuel Pump	Off for Taxi

Run Up

Brakes	Set
Mixture	Full Rich
Throttle	2000 RPM
Engine Instruments	In Limits
Magnetos	Check
Annunciators	Test
Carb Heat	Check
Gyro Suction	In Limits
Throttle	Idle
RPM & Oil Pressure	In Limits
Throttle	1000 RPM

Before Takeoff

Flight Controls	Check
Flight Instruments	Set
Radios	Set
Flaps	
Trim	Set
Takeoff Briefing	Complete
Door & Window	Secured
Parking Brake	Released
Electric Fuel Pump	On
Landing Light	On
Transponder	Altitude
Time Off	Noted

V-Speeds (in KIAS)

Vr	40-50	Va	88-111
Vx	63	Vfe	103
Vy	79	Vno	126
Climb	87	Vne	160
Vs	50	Glide	73
Vso	44	Max dem XW	17
Vref Flaps 0-10		68+1/2 Gust	
Vref Flaps 25-40		63+1/2 Gust	

After Takeoff

Flaps	Up
Electric Fuel Pump	Off

Cruise

Throttle	_____ RPM
Mixture	Leaned
Landing Light	_____

Pre-Maneuver Check

Mixture	Rich
Min Safe Altitude	Verify
Area	Clear

Post-Maneuver Check

Mixture	Lean
Engine Instruments	Check
Fuel Selector	Fullest Tank

Approach

Flight Instrument	Ckd & Set
Radios	Set
Landing Light	On
Electric Fuel Pump	On
Mixture	Full Rich
Fuel Selector	Fullest Tank
Approach Briefing	Complete
Seat Belts	Fastened

After Landing

Transponder	Standby
Electric Fuel Pump	Off
Landing Light	Off
Mixture	Leaned
Flaps	Up

Parking

Avionics	Off
Mixture	Cut-Off
Electrical Equipment	Off
Battery & Alternator	Off
Magnetos	Off

Securing the Aircraft

Hobbs/Tach	Record
Flight Controls	Secure
Door & Window	Secure
Tie-Downs	Secure

Engine Failure

Altitude Sufficient For Restart?

No

Glide	Establish
Landing Site	Select
Mixture	Cut-Off
Battery/Alternator	Off
Magnetos	Off
Fuel Selector	Off

Yes

Glide	Establish
Landing Site	Select
Electric Fuel Pump	On
Mixture	Full Rich
Fuel Selector	Opposite Tank
Carb Heat	On
Throttle	Set
Primer	Locked
Magnetos	Check

Engine Restarted?

No

Mayday	Transmit
Mixture	Cut-Off
Battery/Alternator	Off
Magnetos	Off
Fuel Selector	Off

Yes

Leave fuel selector on present tank. Land as soon as possible.

Loss of Fuel Pressure

Electric Fuel Pump	On
Fuel Selector	Opposite Tank

Flooded Engine Start

Throttle	Full Forward
Battery/Alternator	On
Electric Fuel Pump	Off
Mixture	Cut-Off
Starter	Engage
Mixture (when engine fires)	Full Rich
Throttle	1000 RPM
Oil Pressure	Check

Hot Engine Start

Throttle	1/2" Open
Battery/Alternator	On
Electric Fuel Pump	On
Mixture	Full Rich
Starter	Engage
Throttle	1000 RPM
Oil Pressure	Check

Engine Roughness

Carb Heat	On

If roughness continues after one minute:

Carb Heat	Cut-Off
Mixture	Adjust
Electric Fuel Pump	On
Fuel Selector	Opposite Tank
Engine Instruments	Check
Magnetos	Check

If operation on either magneto is satisfactory, continue on that magneto at reduced power with mixture full rich. Land as soon as practical.

Engine Fire During Start

Starter	Engage
Mixture	Cut-Off
Throttle	Open
Electric Fuel Pump	Off
Fuel Selector	Off

Evacuate if fire continues

Engine Fire During Taxi

Airplane	Stop
Mixture	Cut-Off
Fuel Selector	Off
Battery/Alternator	Off

Evacuate Aircraft

Engine Fire In Flight

Mixture	Cut-Off
Fuel Selector	Off
Glide	Establish
Landing Site	Select
Mayday	Transmit
Magnetos	Off
Battery/Alternator	Off

Cabin Fire In Flight

Battery/Alternator	Off
Electrical Equipment	Off
Vents	Open

Carburetor Icing

Carb Heat	On
Mixture	Adjust

Spin Recovery

Throttle	Idle
Ailerons	Neutral
Rudder	Opposite dir of rotation
Control Wheel	Full Forward

Rudder and Control Wheel Neutral when rotation stops.

Pitch	Level

Loss of Oil Pressure / High Oil Temperature

Land as soon as practical. Prepare for imminent engine failure.

Electrical Failure

Load Meter	Verify Inop

If load meter indicates zero

Alternator	Off

Reduce electrical load to min

Alternator Fld Circuit Breaker	Check & Reset
Alternator	On

If power is not restored

Alternator	Off

Reduce electrical loads to a minimum, land as soon as practical.

Electrical Overload

Alternator	Off
Battery	On

If alternator loads are reduced, reduce electrical loads to a minimum, land as soon as pracical. Otherwise:

Alternator	Off
Battery	As Required

Leave battery on only if needed to power essential electrical equipment. Land as soon as practical.

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by Dauntless Software

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