

PA-28-161- Short Checklist

Cockpit

Parking Brakes	Set
Hobbs/Tach	Check
Battery	ON
Fuel Quantity	Check
Lights/Stall Warning	Check
Electrical Equipment	OFF
Battery	OFF
Flaps	Check/UP
Trim	Check
Pitot/Static/Drains	Drain/Close
Acf/Pilot 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/Tyre	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 & Tyre	Check
Fuel Strainer	Sample

Left Wing

Flap Hinges	Check
Aileron	Check Hinges
Wingtip/Lights	Check
Leading Edge	Clean
Fuel Quantity	Check
Fuel Vent	Clear
Fuel Strainer	Sample
Landing Gear/Tyre	Check
Air Inlet	Clear
Pitot / Static Port	Check
Stall Warning Horn	Check

Fuselage / Emp.

Antennas	Check
Air Inlet	Check
Stabilator & Trim	Check
Rudder	Check

Before Start

Seat Belts	Fastened
Battery	ON
Anti-Collision Lights	ON
Nav Lights	As Req.
Fuel Selector	Lowest Tank

Engine Start

PIC	Established
Parking Brake	Set
Electric Fuel Pump	ON
Mixture	Full Rich
Throttle	¼" Open
Prime	As Req.
Prop Area	CLEAR
Starter	Engage
Throttle	1000 RPM
Engine Instruments	Check
Annunciators	Out
Electric Fuel Pump	OFF

After Start

Alternator	ON
Avionics	ON
Radios	Set
Transponder	STBY
Circuit Breakers	IN
Mixture	Leaned for Taxi
Fuel Selector	Opposite Tank
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	As Req.
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)

V _R	40 - 50	V _A	88 - 111
V _X	63	V _{FE}	103
V _Y	79	V _{NO}	126
Climb	87	V _{NE}	160
V _S	50	Glide	73
V _{SO}	44	Max XW	17
V _{REF} Flaps 0 - 10	68	V _{REF} Flaps 25 - 40	63

After Takeoff

Flaps	UP
Electric Fuel Pump	OFF

Cruise

Throttle	RPM
Mixture	Leaned
Landing Light	OFF

Pre-Maneuvre

Mixture	Rich
Minimum Safe Altitude	Verify
Area	Clear

Post-Maneuvre

Mixture	Lean
Engine Instruments	Check
Fuel Selector	Fulllest Tank

Approach

Flight Instruments	Check & Set
Radios	Set
Landing Light	ON
Electric Fuel Pump	ON
Mixture	Full Rich
Fuel Selector	Fulllest Tank
Approach Briefing	Complete
Seat Belts	Fastened

After Landing

Transponder	STBY
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 Aircraft

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

PA-28-161- EMERGENCY

Electrical Failure

Load Meter	Verify InOp
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IF LOAD METER INDICATES ZERO

Alternator	OFF
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REDUCE ELECTRICAL LOAD TO MIN

Alternator & Circuit Breaker	Check & Reset
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Alternator	ON
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IF POWER IS NOT RESTORED

Alternator	OFF
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REDUCE ELECTRICAL LOAD TO A

MINIMUM, LAND AS SOON AS PRACTICAL

Electrical Overload

Alternator	OFF
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Battery	ON
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IF ALTERNATOR LOADS ARE REDUCED,

REDUCE ELECTRICAL LOADS TO A

MINIMUM, LAND AS SOON AS

PRACTICAL.

OTHERWISE:

Alternator	OFF
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Battery	As Req.
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LEAVE BATTERY ON ONLY IF NEEDED TO

POWER ESSENTIAL ELECTRICAL

EQUIPMENT. LAND AS SOON AS

PRACTICAL.

Loss of Fuel Pressure

Electric Fuel Pump	ON
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Fuel Selector	Opposite Tank
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Flooded Engine Start

Throttle	½" Open
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Battery / Alternator	ON
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Electric Fuel Pump	OFF
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Mixture	Cut-Off
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Starter	Engage
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Mixture (when engine fires)	Full Rich
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Throttle	1000 RPM
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Oil Pressure	Check
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Hot Engine Start

Throttle	½" Open
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Battery / Alternator	ON
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Electric Fuel Pump	ON
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Mixture	Full Rich
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Starter	Engage
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Throttle	1000 RPM
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Oil Pressure	Check
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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 ?

YES

Leave fuel selector on present tank
Land as soon as possible

NO

Mayday	Transmit
Mixture	Cut-Off
Throttle	Open
Electric Fuel Pump	OFF
Fuel Selector	OFF

Engine Roughness

Carb Heat	ON
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IF ROUGHNESS CONTINUES - AFTER ONE
MINUTE:

Carb Heat	OFF
Mixture	Adjust
Electric Fuel Pump	ON
Fuel Selector	Opposite Tank
Engine Instruments	Check
Magnetos	Check

IF OPERATIONS ON EITHER MAGNETO IS
SATISFACTORY, CONTINUE ON THAT
MAGNETO AT REDUCED POWER WITH
MIXTURE FULL RICH. LAND AS SOON AS
PRACTICAL.

Carburetor Icing

Carb Heat	ON
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Mixture	Adjust
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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 During 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

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
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Loss of Oil Press. / High Oil Temp.

LAND AS SOON AS PRACTICAL. PREPARE
FOR IMMINENT ENGINE FAILURE.

