

Preflight Inspection	
Cockpit	
Aircraft Documents	On Board
Hobbs/Tach	Check
Master	On
Lights/Stall Warning	Check
Fuel Quantity	Check
CHT/Circuit Breakers	Check
Master	Off
Controls	Free & Clear
Flaps	Down
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
Tiedown	Untied
Nose	
Engine Condition	Check
Oil Quantity	Check
Propeller & Spinner	Check
Alternator Belt	Check
Air Inlets	Clear
Nose Gear & Tire	Check
Fuel Strainer	Sample
Engine Condition (L)	Check
Fuel Strainer	Sample
Left Wing	
Same as Right Wing (in reverse).	
Pitot/Static Mast	Clear
Fuselage and Empenage	
Antennas	Check
Air Inlet	Check
Stabilator & Trim	Check
Rudder	Check
Before Start	
Seat Belts	Fastened
Clock	Set
Passengers	Briefed
Electronic Devices	Silenced
Parking Brake	Set
Avionics Master	Off
Carb Heat	Off
Fuel Selector	Lowest Tank
Engine Start	
Pilot In Command	Establish
Master	On
Beacon	On
Nav Lights	As Required
Fuel Pump	On
Mixture	Rich
Throttle	1/4" Open
Prime	As Required

Prop Area	Clear!		
Starter	Engage		
Throttle	1000 RPM		
Engine Instruments	Check		
Oil Pressure, Fuel Pressure, Alternator			
After Start			
Avionics Master	On		
GPS Database & Test	Verified		
JPI	Set Fuel Amount		
Radios	Set		
ATIS/ASOS	Received		
VORs	Checked		
Flight Instruments	Set		
Transponder	Set		
Before Taxi			
Taxi Route	Briefed		
Mixture	Leaned for Taxi		
Fuel Selector	Opposite Tank		
Fuel Pump	Off for Taxi		
Parking Brake	Released		
Brakes	Check		
Taxi			
Compass & DG	Check		
Turn Coord. & Ball	Check		
Attitude Indicator	Check		
Altimeter	Check		
Vertical Speed	Stable		
Run Up			
Parking Brake	Set		
Oil Temperature	Check		
Mixture	Rich		
Throttle	2000 RPM		
Engine Instruments	In Limits		
Magnetos	<175 drop		
Carb Heat	Check		
Oil Temp, Pressure	In Limits		
Alternator	Check		
Annunciators	Check		
Throttle	Idle		
Engine Instruments	In Limits		
Throttle	1000 RPM		
Circuit Breakers	In		
V-Speeds (in MPH)			
Vr	70-75	Va	109-124
Vx	74	Vfe	115
Vy	87	Vno	140
Climb	100	Vne	171
Vs	68	Glide 87	
Vso	61	Max dem XW	17
Vref Flaps 0-10		85+1/2 Gust	
Vref Flaps 25-40		76+1/2 Gust	

PA-28-181 CHECKLIST	
Before Takeoff	
Flight Instruments	Check
Radios & Nav	Set/Received
Transponder	Alt & ID
Auto Pilot	Test
Flight Controls	Free & Correct
Flaps	As Required
Trim	Set
Takeoff Briefing	Complete
Runway Heading & Length, Abort Point, Emergencies	
Door & Window	Latched
Parking Break	Released
After Takeoff	
Fuel Pump	On
Landing Lights	On
Anti-Collision Lights	On
Time Off	Noted
After Takeoff	
Flaps	Up
Cruise	
Fuel Pump	Off
Power	Set
Mixture	Leaned
Engine Instruments	In Limits
Approach	
Flight Instruments	Ckd & Set
Radios	Set
Fuel Selector	Proper Tank
Mixture	Rich
Fuel Pump	On
Carb Ice	Check
Approach Briefing	Complete
Seat Belts	Fastened
Landing Lights	On
Flaps	As Required
After Landing	
Flaps	Up
Fuel Pump	Off
Landing Lights	Off
Anti-Collision Lights	Off
Mixture	Leaned
Shutdown	
Parking Brake	Set
Throttle	Idle
Avionics Master	Off
Hot Mag Check	Complete
Throttle	1000 RPM
Mixture	Cut-Off
Magnetos	Off
Beacon	Off
Master	Off

Pre-Maneuver Check	
Mixture	Rich
Fuel Pump	On
Min Safe Altitude	Verify
Area	Clear
Post-Maneuver Check	
Mixture	Lean
Fuel Pump	As Required
Engine Instruments	Check
Fuel Selector	Proper Tank
Flooded Engine Start	
Throttle	Full Open
Master	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
Master	On
Electric Fuel Pump	On
Mixture	Full Rich
Starter	Engage
Throttle	1000 RPM
Oil Pressure	Check
Fouled Plugs	
Mixture	Lean of Peak
Throttle	2000 RPM
After 2 minutes	
Throttle	1000 RPM
Engine Roughness	
Carb Heat	On
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 operation on either magneto is satisfactory, continue on that magneto at reduced power with mixture full rich. Land as soon as practical.	
PA-28-181 Archer II	
Verify checklist with POH before use.	

Engine Failure	
Altitude Sufficient For Restart?	
No	
Airspeed – Best Glide	80 IAS
Best Landing Site	Select
Mayday	Transmit/7700
Fuel Selector	Off
Magnetos	Off
Mixture	Cut-Off
Master	Off
Door	Wedged Open
Yes	
Leave fuel selector on present tank. Land as soon as possible.	
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	
Fuel Selector	Off
Throttle	Closed
Mixture	Cut-Off
Magnetos	Off
Cabin Heat & Air	Off
Airspeed	Increase to Extinguish
Best Landing Site	Select
Cabin Fire In Flight	
Battery/Alternator	Off
Electrical Equipment	Off
Vents	Open
Securing the Aircraft	
Parking Brake	Release
Flight Controls	Secure
Tie-Downs / Wheel Chocks	On
Door & Window	Secure
Hobbs/Tach	Record
Flight Plan	Close

Yes	
Airspeed – Best Glide	80 IAS
Best Landing Site	Select
Fuel Pump	On
Mixture	Full Rich
Fuel Selector	Opposite Tank
Carb Heat	On
Throttle	Set
Primer	Locked
Magnetos	Check
Engine Restarted?	
No	
Mayday	Transmit/7700
Fuel Selector	Off
Magnetos	Off
Mixture	Cut-Off
Master	Off
Door	Wedged Open
Electrical Failure	
Load Meter	Verify Inop
If load meter indicates zero	
Alternator	Off
Reduce electrical load to min	
Alternator Fld	Check
Circuit Breaker	& Reset
Alternator	On
If power is not restored	
Alternator	Off
Reduce electrical loads to a minimum, land as soon as practical.	
Electrical Overload	
Battery	On
Alternator	Cycle
If overload remains, reduce electrical loads to a minimum, land as soon as practical. Otherwise:	
Alternator	Off
Loss of Oil Pressure / High Oil Temperature	
Land as soon as practical. Prepare for imminent engine failure.	
Loss of Fuel Pressure	
Electric Fuel Pump	On
Fuel Selector	Opposite Tank
Carburetor Icing	
Carb Heat	On
Mixture	Adjust