PIPER ARCHER PA-28-180 N33083

Vso61 MPH Vs68 MPH Vx—Flaps 25°76 MPH	BEFORE TAXILights as needed / AWOS BEFORE TAKE-OFF CHECKLIST Brakes
Vy85 MPH	Door / Window Closed / Locked
Vfe 115 MPH	Flight ControlsFree and Correct
Va—2450 lbs. Gross Weight 127 MPH	Flight Instruments Check and Set
Vno140 MPH	Fuel SelectorFullest Tank
Vne 171 MPH	MixtureFull Rich
VgBest Glide85 MPH	PrimerIn and Locked
Landing Final Appch Speed (Flaps 40°) -80 MPH	Throttle (If oil temp allows)1800 RPM
Editalig I mai rippen speed (I mps 10) 00 1/11 11	Magnetos Max. Drop 175 RPM—Max. Difference 50 RPM
	Carburetor Heat Check
PRE-FLIGHT INSPECTION	Vacuum 5.0" Hg. +/1
COCKPIT CHECKLIST	Annunciator Panel Press-to-Test
Master SwitchOn	Oil Pressure/Temperature Check
Fuel Gauges & LightsCheck	Ammeter Check
Master Switch Off	Electric Fuel Pump (Off) Check Fuel PSI
FlapsExtend	Throttle Check Idle, Then 1000 RPM
Required Papers (A.R.O.W.)Check on Board	Trim Set
EXTERIOR INSPECTION	AutopilotOff
Right WingCheck	Transponder Squawk Code & Altitude
(Control Surfaces/hinges, Fuel qty/sump, Gear strut/tire/brakes)	Radios / GPS Set
Nose SectionCheck	Seat / Seat BeltsSecure / Fastened
(Clean,Oil Qty/leaks,Fuel drain,Propeller/Spinner,Alternator belt	Takeoff checklist Choose & Complete
tension, Gear strut/tire, Engine baffle seals) Left WingCheck	
(Control Surfaces/hinges, Fuel qty/sump, Gear strut/tire/brakes,	NORMAL TAKEOFF
Pitot/static head)	Fuel Pump / Landing Light On
Left Fuselage ConditionCheck	Flaps Retracted
Tail SectionCheck	Rotate65 MPH
(Stabilator/trim tab/hinges,Fresh air inlet)	Climb Speed (Vy)85 MPH
Right Fuselage ConditionCheck	Enroute Climb 100 MPH
STARTING ENGINE CHECKLIST	SHORT FIELD TAKEOFF
Passenger BriefingComplete	Fuel Pump / Landing Light On
Seats / Seat Belts Secure	Flaps (Second Notch) 25°
Electrical Equipment Off	Rotate60 MPH
Circuit BreakersIn	Climb at Vx76 MPH
BrakesSet	Accelerate to Vy85 MPH
Fuel Selector Fullest Tank	FlapsRetract Slowly
Master SwitchOn	
Electric Fuel PumpOn	SOFT FIELD TAKEOFF
Strobe LightsOn	Fuel Pump / Landing Light On
Carburetor Heat Off	Flaps (Second Notch)25°
MixtureFull Rich	ElevatorFull Back Pressure
Cold StartPump Throttle 2-3 times	Elevator Release as airspeed builds
ThrottleCRACKED Open	Rotate STAY IN GROUND EFFECT
AreaClear	Accelerate to Vx then initial climb76 MPH
StarterEngage/ release when fires	Accelerate to Vy Climb Speed)85 MPH
Throttle 1000- 1100 RPM	FlapsRetract Slowly
Oil PressureCheck	
AMONICE	

Mixture -----Lean for Taxi

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CRUISE	ENGINE FAILURE DURING TAKE-OFF
Fuel Pump / Landing Light Off	
Power2300-2400 RPM	Airspeed / Trim (Vg)85 MPH
MixtureAdjust (50-75° rich of peak)	Best Place to Land Determine
Fuel Selector Switch tanks every 30 min.	Carburetor Heat On
·	IF TIME & ALTITUDE PERMIT
BEFORE DESCENT	Electric Fuel PumpOn
Flight InstrumentsSet	MixtureRich
Seats & Seat BeltsCheck	Throttle Cycle
MixtureEnrichen as needed	PrimerIn and Locked
BEFORE LANDING	Magnetos Cycle, Ensure on 'Both'
Fuel Pump / Landing LightOn	Fuel Selector Switch Tanks
Fuel Selector Fullest Tank	Proceed with 'Securing Engine' and 'Emergency Landing
MixtureFull Rich	Checklist' if no power is regained.
Autopilot Off	
1	ENGINE FAILURE IN FLIGHT
NORMAL LANDING	Airspeed / Trim85 MPH
Power 1500-1600 RPM (as needed)	•
Flapsset – 115 MPH Max.	Best Place to Land Determine
Trimmed Airspeed (Flaps Up)85 MPH	Carburetor Heat On
Final Approach Speed (Flaps Down)80 MPH	Electric Fuel Pump On
Timal Approach Speed (Timps Down)	Mixture Rich
SHORT FIELD LANDING	Throttle Cycle
Approach Speed76 MPH	PrimerIn and Locked
FlapsFull	
ThrottleIdle	Magnetos Cycle, Ensure on 'Both'
Touchdown Brakes Firm	Fuel SelectorSwitch Tanks
FlapsRetract	Communicate Squawk 7700/Mayday 121.5
Controls Full Back Pressure	
	EMERGENCY LANDING
BALKED LANDING PROCEDURES	Airspeed when field can be reached 76 KIAS
ThrottleFull	_
Flaps 25°	Mixture Idle/Cutoff
Climb Speed (Vx) 76 MPH	Throttle Closed
Positive Rate of ClimbCheck	Master Switch Off
Flaps Retract Slowly	Magnetos Off
	Fuel Selector Off
AFTER LANDING	Seats / Seat BeltsTight
Clear of Runway Radio Call	e e e e e e e e e e e e e e e e e e e
FlapsRetracted	DoorsAjar
Fuel Pump / Landing Light Off	PassengersBrief
MixtureLean for Taxi	ENGINE FIRE DURING START UP
	Cranking Continue
SHUT DOWN	If Engine Starts:
Avionics Master Off	
ThrottleIdle	Throttle 1800 RPM
Mixture Idle Cut-Off	EngineShutdown and Inspect
Elec Switches / Master Switch Off	If Engine Fails to Restart:
Magnetos Off	Throttle Full Open
Aircraft Secure	Mixture Idle Cut-Off
	Cranking Continue
	•
	Master, Mags, & Fuel Off