



Piper Cherokee 180 PA-28-180

1963-1975 (Incl. Challenger & Archer I)

1 PREFLIGHT (Inside Cockpit)

W&B / Performance Complete
 AROW documents On Board
 MASTER ON
 Fuel Gages / Fuel Valve Check
 Lights / Flaps Check
 MASTER / Ignition / Mags OFF

EXTERNAL

Locks / Chains / Chocks Remove
 Fuel Sumps Drain
 Fuel Tanks / Quantity Inspect
 Rivets / Skin / Doors Check
 Flaps / Ailerons / Rudder Check
 Tires / Brakes / Struts Inspect
 Oil 6-8 Qts.
 Prop Inspect
 Landing Light / Nav Lights Inspect
 Pitot / Static Inspect

ENGINE START

Briefing/Seat Belts Check
 Fuel Selector Fullest
 Beacon / Lights As Needed
 Circuit Breakers / Fuses Check
 MASTER / Fuel Pump ON
 Mixture RICH
 Carb Heat COLD / OFF
 Primer As Needed / Locked
 Area Clear / START 1000 RPM
 Oil Pressure Check
 Avionics/Transponder ON/STBY
 Mixture / Flaps Adjust
 ATIS/AWOS/ASOS Obtain
 Taxi Clearance Obtain

TAXIING

Brakes/Instruments Check
 Fuel Pump OFF

NOTE: Prime with Throttle when starting hot engine.
 When starting flooded be sure fuel pump is OFF

V SPEEDS KIAS (MPH)	Vr	52 (60)	Vfe	100 (115)
	Vy	74 (85)	Va	110 (127)
	Vx	64 (74)	Vno	122 (140)
	Vs	59 (68)	Vne	149 (171)
	Vs ₀	53 (61)	Vg _{glide}	70 (80)

BEFORE TAKEOFF

Flight Controls Check
 Mixture Adjust / DA & Elev
 Power 2000 RPM
 Ignition Switches L&R
 Carb Heat Check
 Engine Gages Check
 Vac/Ammeter Check
 Power Reduce
 Instruments Check/Set
 Fuel Pump ON
 COM/NAV's Set
 Doors/Windows Lock
 Flaps / Trim Set
 Lights/TXPDR Set
 Clearance Obtain

NORMAL TAKEOFF

Flaps 0-25
 Vr 52 KIAS (60)
 Vy 74 KIAS (85)
 Flaps UP / Pos. Climb

SHORT FIELD TAKEOFF

Flaps 25
 Runway To End/Brakes
 Vr 50 KIAS (57)
 Vx 64 over 50' (74)
 Vy 74 KIAS (85)
 Flaps UP / Pos. Climb

SOFT FIELD TAKEOFF

Flaps 25
 Back Pressure Keep Nose Up
 Vx 64 KIAS (74)
 Vy 74 KIAS (85)
 Flaps UP / Positive Climb

CLIMB

Power Adjust
 Fuel Pump OFF / Check Press.
 Enroute Climb 80 KIAS (90)

CRUISE

Power Set
 Mixture Adjust / Up to 75%
 Instruments Reset as Needed

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CRUISE PROFILE

6000 FEET / ISA			
% POWER	RPM	MPH	GPH
75%	2600	135	8.8
65%	2400	122	7.6
55%	2250	108	6.7

SURECHECK
PRO
Piper Cherokee
 PA-28-180
 1963-1975

EMERGENCIES

2

APPROACH / LANDING

ATIS/AWOS/ASOS	Obtain
Brief / Seat Belts	Check
Mixture	Set
Carb Heat	If Needed
Fuel Pump	ON
Fuel Selector	FULLEST
Flaps	Vfe 100 (115) Down
Normal Approach	65-75 KIAS (73-85)
SHORT / SOFT	69 KIAS (80)

GO AROUND

Power	FULL
Carb Heat	OFF
Flaps	Retract Slow
Pitch	(Vy) 74 KIAS (85)

AFTER LANDING

Flaps/Mixture	Adjust
Carb Heat / Fuel Pump	OFF
Transponder	OFF
Strobes	OFF
Clearance	Obtain

SECURE

Avionics/Navigation	OFF
Mixture/Ignition/MASTER	OFF
Flaps	UP and Locked
Chocks/Chains / Papers	Complete

• CLOSE FLIGHT PLAN
LOST COM

Check: Freq., Volume, Squelch, Phones	
Transponder	7600
Pattern	Enter / Light Sigs.

ENGINE FAILURES
Immediately After Takeoff

Pitch	70 KIAS (80)
Troubleshoot	If Alt Permits
Land	Straight Ahead

During Flight

Pitch	70 KIAS (80)
Landing Site	Select/Land into Wind
PRIMER	LOCKED
MASTER Switch	ON
IGNITION	BOTH / RESTART
Fuel Pump	ON
Fuel Selector	Fullest / Switch
Mixture	RICH
Carb Heat	Try Hot

Engine Fails to Start

Pitch	70 KIAS (80)
Communicate	121.5 or Current Freq
Transponder	7700
Seat Belts	Secure
Fuel/Mixture	OFF
Doors	Ajar

FIRES
Engine Fire During Flight

Fuel/Mixture	OFF
MASTER Switch	OFF
Vents / Windows	OPEN if smoke enters

Emergency Descent

Throttle	CLOSE
Carb Heat	HOT
Flaps	Down below 100 (115)
Airspeed	100 (115) to extinguish
Landing site	Acquire

Electrical Fire During Flight

MASTER Switch	OFF
Circuit Breakers	Check which is out
Fire	Extinguish
Vents	Open if smoke enters

ALTERNATOR TROUBLESHOOT

MASTER	Cycle
Ammeter	Confirm discharge
Electrical Load	Reduce/Land soon
NOTE: Cockpit lights will not be available after complete electrical failure	

ATC LIGHT SIGNALS
GROUND FLIGHT

Green (Steady)	Cleared For Takeoff	Cleared To Land
Green (Flashing)	Cleared To Taxi	Return for Landing
Red (Steady)	STOP	Give Way to Others
Red (Flashing)	Taxi Clear of Runway	Airport UNSAFE
White (Flashing)	Return to Starting Point	NA
Alt. Red/Green	CAUTION	CAUTION

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