



# Piper Cherokee 180 PA-28-180

1963-1975 (Incl. Challenger &amp; Archer I)

## 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 ..... Fullst  
 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 <sub>1</sub>	53 (61)	Vg <sub>1</sub> 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**

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**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
Checks/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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