

Piper Archer II 181

Cherokee N2171Y



FORBES
AVIATION

Before Start

Pre-Flight.....Complete
Pass Briefing.....Complete
Seat Belts.....Set
Brakes.....Tested
Circuit Breakers.....All In
Elec. Equip.....Off
Avionics Master.....Off
Carb. Heat.....Off
Fuel Selector.....Desired Tank

Engine Start

Brakes.....Set
Throttle.....1/4" Open
Prime.....As Needed
Primer.....Locked
Master.....On
Beacon.....On
Fuel Pump.....On
Mixture.....Rich
Prop Area.....Clear
Ignition.....Start (No >5secs)
Throttle.....1000RPM
Oil Pressure.....Check
Fuel Pressure.....Check
Mixture.....Lean
Avionics.....On
Transponder.....Alt/1200
Fuel Pump.....Off

Pre Taxi

Taxi Area.....Clear
Airport Diagram.....Check
Taxi Lights.....On
Brakes.....Check
Instrument Test.....Check

Run Up

Brakes.....Set
Blast Area.....Clear
Cabin Door.....Latched
Flight Controls.....Check
Trim Wheel.....Set Takeoff
Mixture.....Rich
Throttle.....2000 RPM
Flight Instruments.....Check
Vacuum Gauge.....4.9-5.1"Hg
Oil Temp/Pressure.....Check
Magneto.....Check
..(175 RPM max/50 RPM Max diff)
Carb. Heat.....Check
Annunciator.....Check
Throttle.....800-1000RPM
Mixture.....Lean

Pre Takeoff (Vr ~60)

Airspeed (Vy).....76KIAS
Airspeed (Vx)Flaps 25°....64KIAS
Mixture.....Rich
Fuel Pump.....On
Fuel Pressure.....Check

Climb (87KIAS)

Flaps.....As Req.
Fuel Pump.....On
Fuel Selector.....Fulltest Tank
Mixture.....Lean as Req
Lights.....As Req.

Cruise

Fuel Pump.....Off
Fuel Pressure.....Check
Mixture.....Lean

Pre-Landing

Fuel Pump.....On
Mixture.....Rich
Seatbelts.....On
Landing light.....On
Carb Heat.....As Req.
Fuel Selector.....Fulltest Tank
Flaps.....As Req.

0° Approach **76 KIAS**

40° Approach **66 KIAS**

**GUMPS - Gas Undercarriage Mixture
Prop Switches**

After Landing

Flaps.....Up/Retract
Carb Heat.....Off
Fuel Pump.....Off
Landing light.....As Req.
Strobes.....Off
Mixture.....Lean as Req.

Securing the Plane

ELT (121.5).....Check
Lights (Except Beacon).....Off
Avionics.....Off
Throttle.....Cut-Off
Mixture.....Lean
Ignition.....Off
Master Switch.....Off
Flight Controls.....Locked
Hobbs/Tach.....Record
Sun Shade/Cover.....Check
Engine Covers/Plugs.....Check
Doors.....Locked
Tie Down/Chalks.....Check

Additional Information

Vr **60KIAS** VNO **125KIAS**
Vy **76KIAS** VNE **154KIAS**
Vx **64KIAS** VG **76KIAS**
VFE **102KIAS** Vs0 **49KIAS**
VA **113KIAS** Vs1 **55KIAS**

Short Field Takeoff		Soft Field Takeoff	
25° of Flaps (2 nd Notch)		25° of Flaps (2 nd Notch)	
64KIAS until clear of obstacle		Ground effect then climb out at 76KIAS	
CRUISE	RPM	KNOTS	Fuel
2,000 FT	2350 RPM	106 KIAS	9.0 GPH
4,000 FT	2400 RPM	108 KIAS	9.0 GPH
6,000 FT	2450 RPM	112 KIAS	9.0 GPH
8,000 FT	2500 RPM	117 KIAS	9.0 GPH

Wx: 208-388-4640/123.9
Clearance: 125.9
Ground: 121.7
Tower: 118.1/119.0 (secondary)
Big Sky: <15NM 119.6/125.5
>15NM 126.9

EMERGENCY PROCEDURES FOUND ON OTHER SIDE

Piper Archer II

Emergency Aircraft Checklist



Failure During Takeoff

Airspeed.....76KIAS
 Fuel Selector.....Fulllest Tank
 Fuel Pump.....On
 Mixture.....Rich
 Carb. Heat.....On
 Engine Gauges.....Check
 Primer.....In and Locked
 Master Switch.....On
 Ignition.....On

IF NO RESTART.

Go To "Power Off Landing"

Electrical Fire

Master Switch.....Off
 Alternator Switch.....Off
 Cabin and Vents.....Closed
 Cabin Heat.....Off
 Land.....A.S.A.P.

Power Off Landing

Airspeed.....76KIAS
 Landing Location.....Locate
 Radio.....Mayday 121.5
 ELT.....On
 Squawk.....7700
 Seat Belts.....Secure
WHEN LANDING IS PLANNED.
 Mixture.....Cut-Off
 Fuel Selector.....Off
 Ignition.....Off
 Master Switch.....Off
 Flaps.....As Req.
 Fuel Selector.....Fulllest Tank
 Door.....Unlatched

Failure in Flight

Airspeed.....76KIAS
 Landing Location.....Locate
 Fuel Selector.....Fulllest Tank
 Fuel Pump.....On
 Mixture.....Rich
 Carb. Heat.....On
 Engine Gauges.....Check
 Primer.....In and Locked

IF NO FUEL PRESSURE.

Fuel Tank.....Verify has Fuel

IF POWER IS RESTORED.

Carb. Heat.....Off
 Fuel Pump.....Off

IF NO RESTART.

Go To "Power Off Landing"

Fire During Start

Starter.....Crank Engine
 Mixture.....Idle Cut-Off
 Throttle.....Open
 Fuel Pump.....Off
 Fuel Selector.....Off
 If Fire Continues.....EVACUATE

Spin Recovery

Throttle.....Idle
 Ailerons.....Neutral
 Rudder.....Full Opposite
 Yoke.....Forward
ONCE ROTATION STOPS.
 Rudder.....Neutral
 Yoke.....As Req.

Alternator Failure

Circuit Breakers.....Check
 Alternator Switch.....Off
 Wait.....5 Seconds
 Alternator Switch.....On
IF NO OUTPUT.
 Alternator Switch.....Off
 Electrical Load.....Reduce

Engine Fire In-Flight

Fuel Selector.....Off
 Throttle.....Closed
 Mixture.....Idle
 Fuel Pump.....Off
 Heater.....Off
 Defroster.....Off
 Airspeed.....120KIAS
 Go To "Power Off Landing"

Loss of Fuel Pressure

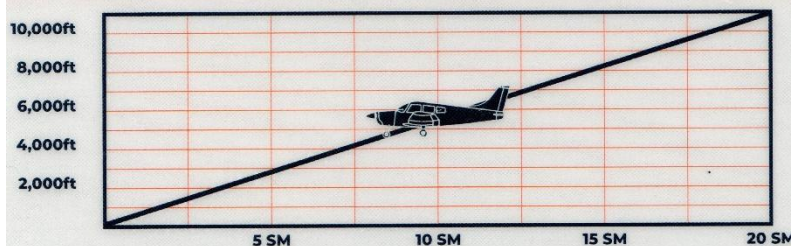
Fuel Pump.....On
 Fuel Selector.....Fulllest Tank

Engine Roughness

Carb. Heat.....On
IF ROUGHNESS PERSISTS >1 MIN.
 Carb. Heat.....Off
 Mixture.....Adjust as Req.
 Fuel Pump.....On
 Fuel Selector.....Switch Tank
 Engine Gauges.....Check
 Magneto.....Left—Right—Both
CONTINUE ON BEST MAGNETO.
 Land.....A.S.A.P.

This checklist is derived from Piper Archer II PA-28-181 POH. PIC is responsible to reference POH, FAR/AIM etc.
 The PIC is responsible for compliance with laws and best practices.

Glide Ratio at a Glance



Speed: 76 KIAS
 Flaps: Up

Weight: 2550 LBS
 Wind: 0 Knots

Regular Procedures on Other Side