

# Piper Archer PA28-181 Checklist

<p align="center"><b>—INTERIOR PREFLIGHT—</b></p> <p>Pitot Tube Cover.....Remove  Hobbs and Tach.....Check  Certificates and Documents.....Check  Control Wheel Restraints.....Remove  Air Vent Fan.....Off  AC (If Equipped).....Off  Circuit Breakers.....Check  Carburetor Heat.....Off  Mixture.....Idle Cut-Off  Throttle.....Idle  Interior Lights.....Off  Radio Master Switch.....Off  Auto Pilot.....Off  All Switches.....Off  Magnetos.....Off  Battery Master Switch.....On  Fuel Gauges.....Check Quantity  Fuel Selector.....Less Full Tank  Annunciator Panel.....Test  Pitot Heat Inop Annunciator.....Check  Exterior Lights.....Check  Stall Warning Horn.....Check  Pitot Heat.....Check  All Switches.....Off  Battery Master Switch.....Off  Flaps.....Extend(Check Visually)  Trim.....Neutral  Alternate Static.....Check  Pitot / Static Systems.....Drain  Fire Extinguisher.....Check Pressure</p>	<p>Cowling.....Secure  Fuel Strainer.....Drain  Fresh Air Inlet.....Clear  Left Main Gear Assembly.....Check  Fuel Sump.....Sample  Fuel Tank Vent.....Check  Fuel Quantity.....Check  Fuel Filler Cap.....Secured / Vent Open  Left Wing Upper Surface.....Check  Left Wing Tie Down.....Remove  Left Wing Lower Surface.....Check  Stall Warning Vane.....Check  Pitot Mast.....Check  Left Wing Leading Edge.....Check  Left Wingtip Condition / Lights.....Check  Left Flap and Aileron.....Check  Left Side Fuselage.....Check  Static Port.....Check  AC door (If Equipped).....Closed  Empennage.....Check  Stabilator and Trim Tab.....Check  Control Surfaces.....Check  Trim Tab.....Check  Tail Tie Down.....Remove  Right Side Fuselage.....Check  Static Port.....Check  Baggage Door.....Locked</p>	<p align="center"><b>—BEFORE TAXI—</b></p> <p><b>Mixture.....Lean (EGT / RPM)</b>  Flaps.....Up(Check Visually)  Circuit Breakers.....In  Radio Master Switch.....On  Avionics.....Set and Check  Flight Instruments.....Set and Check  Taxi Area.....Clear  Brakes.....Release</p> <p align="center"><b>—TAXI—</b></p> <p>Brakes.....Check  Flight Instruments.....Check</p> <p align="center"><b>—BEFORE TAKEOFF—</b></p> <p>Brakes.....Hold  Flight Controls.....Free and Correct  Manual Electric Trim.....Test  Autopilot.....Test  Trim.....Set for Takeoff  Fuel Pump.....On (Check Pressure)  Fuel Selector.....Fullest Tank  Mixture.....Rich  Throttle.....2000 RPM  Magnetos.....Checked  .....Max Drop 175 RPM  .....Max Difference 50 RPM  Ammeter... Check (Pitot Heat On then Off)  Vacuum Gauge.....Check  Engine Instruments.....Check  Annunciator Panel.....Check  Fuel Pump.....Off (Check Pressure)  Carburetor Heat.... On (Check RPM Drop)  Throttle.....Idle  Carburetor Heat.... Off (Check RPM Rise)  Throttle.....1000 RPM  Circuit Breakers.....In  Pitot Heat.....As Required</p>	<p align="center"><b>—CRUISE—</b></p> <p>Cruise Power.....Set  Mixture.....Set  Landing Light.....Off  Pitot Heat.....As Required  Fuel Selector.....Set  Fuel Pump.....Off(Check Pressure)</p> <p align="center"><b>— DESCENT—</b></p> <p>Seats / Belts.....Secure  Fuel Pump.....On(Check Pressure)  Fuel Selector.....Fullest Tank  Mixture.....Set  Descent Power.....Set  Avionics.....Set and Check  Flight Instruments.....Set and Check  Engine Instruments.....Check  Pitot Heat.....As Required  Approach Briefing.....Complete</p> <p align="center"><b>—BEFORE LANDING—</b></p> <p>Seats / Belts.....Secure  <i>Landing Light.....On</i>  <i>Fuel Pump.....On(Check Pressure)</i>  <i>Fuel Selector.....Fullest Tank</i>  <i>Mixture.....Rich</i>  <i>Magnetos.....Both</i>  <i>Engine Gauges.....Check</i>  <i>Circuit Breakers.....In</i>  <i>Air Conditioner (If equipped).....Off</i></p>
<p align="center"><b>—EXTERIOR PREFLIGHT—</b></p> <p>Right Flap and Aileron.....Check  Right Wing Tip Condition / Lights...Check  Right Wing Leading Edge.....Check  Right Wing Tie Down.....Remove  Right Wing Lower Surface.....Check  Fuel Sump.....Sample  Fuel Tank Vent.....Check  Right Main Gear Assembly.....Check  Fuel Quantity.....Check  Fuel Cap.....Secure / Vent Open  Right Wing Upper Surface.....Check  Fresh Air Inlet.....Check  Wind Shield.....Check Clean  Cowling.....Secure  Oil.....6-8 Quarts(Fly at 6)  Exhaust.....Check  Prop / Spinner.....Check  Engine Cooling Inlets.....Check  Nose Wheel Strut and Tire.....Check  Air Filter Inlet.....Check</p>	<p align="center"><b>—BEFORE START—</b></p> <p>Preflight Inspection.....Complete  Seats / Belts.....Adjust and Lock  Cabin Doors.....Closed and Latched  Passengers.....Secured / Briefed  Brakes.....Hold</p> <p align="center"><b>—ENGINE START—</b></p> <p>BATT MASTR Switch.....On  ALTR Switch.....On  Fuel Pump.....On (Check Pressure)  Magnetos.....On  Strobe Lights.....On  Nav. Lights.....On (Night Ops. Only)  Fuel Selector.....Less Full Tank  Mixture.....Full Rich  Area.....Clear(Visually and Verbally)  Prime.....3-6 Strokes of the Throttle  Throttle.....Open SLIGHTLY  Starter.....Engage  Throttle.....1000 RPM  Engine Instruments.....Check  Fuel Pump.....Off (Check Pressure)</p>	<p>.....Max Drop 175 RPM  .....Max Difference 50 RPM  Ammeter... Check (Pitot Heat On then Off)  Vacuum Gauge.....Check  Engine Instruments.....Check  Annunciator Panel.....Check  Fuel Pump.....Off (Check Pressure)  Carburetor Heat.... On (Check RPM Drop)  Throttle.....Idle  Carburetor Heat.... Off (Check RPM Rise)  Throttle.....1000 RPM  Circuit Breakers.....In  Pitot Heat.....As Required</p> <p><i>Doors and Windows.....Closed and Latched</i>  <i>Seats / Belts.....Secure</i>  <i>Flaps.....Set for Takeoff</i>  <i>Air Conditioner (If equipped).....Off</i>  <i>Flight Instruments.....Set and Check</i>  <i>Fuel Pump.....On (Check pressure)</i>  <i>Landing Light.....On</i>  <i>Strobes.....On</i>  <i>Transponder.....ALT / Check code</i>  <i>Mixture.....Rich</i></p> <p>Takeoff Briefing.....Complete</p> <p align="center"><b>—CLIMB—</b></p> <p>Flaps.....As Required  Climb Airspeed.....76 KIAS  At 300 Ft. AGL.....Flaps Up</p>	<p align="center"><b>—AFTER LANDING—</b></p> <p><i>Landing Light.....Off</i>  <i>Lights.....As required</i>  <i>Fuel Pump.....Off</i>  <b>Mixture.....Lean (EGT / RPM)</b>  <i>Transponder.....SBY</i>  <i>Circuit Breakers.....In</i>  <i>Trim.....Set For Takeoff</i>  <i>Flaps.....Up</i></p> <p>Flight Plan.....Close</p> <p align="center"><b>—SHUTDOWN—</b></p> <p>RADIO MASTR Switch.....Off  Air Conditioner (If equipped).....Off  Mixture.....Idle-Cut-Off  All Switches / Lights.....Off  Magnetos.....Off  Master Switches.....Off  Hobbs and Tach.....Record  Seat Belts.....Secure  <b>Doors.....Lock</b>  Cowl Plugs/Pitot Cover.....Install  Aircraft.....Tie Down</p>

At 500 Ft. AGL..... Cruise Climb 87 KIAS

# Piper Archer PA28-181 Emergency Procedures

## —V-SPEEDS—

V <sub>r</sub> .....	60 KIAS
V <sub>so</sub> .....	45 KIAS
V <sub>s1</sub> .....	50 KIAS
V <sub>x</sub> .....	64 KIAS
V <sub>y</sub> .....	76 KIAS
V <sub>FE</sub> .....	102 KIAS
V <sub>A</sub> .....	113 KIAS
V <sub>NO</sub> .....	125 KIAS
V <sub>NE</sub> .....	154 KIAS
Best Glide.....	76 KIAS
Oil.....	Min. 6 Max. 8 qt.(Fly at 6)
Max. Landing Weight.....	2550 lbs.

## —ENGINE FAILURES—

### —DURING TAKEOFF ROLE—

Throttle.....	Idle
Brakes.....	Apply
Mixture.....	Idle-Cut-Off
Ignition.....	Off
BATT MASTR Switch.....	Off

### —IMMEDIATELY AFTER TAKEOFF

Airspeed.....	76 KIAS
Attempt Engine Restart Procedure, if Time Permits	
If Engine Does Not Start:	
Mixture.....	Idle-Cut-Off
Fuel Valve.....	Off
Magnetos.....	Off
Flaps.....	As Required
BATT MASTR Switch.....	Off
Cabin Door.....	Unlatch
Land.....	As Briefed

## —IN CRUISE FLIGHT—

### (RESTART PROCEDURE)

Airspeed.....	76 KIAS
Possible Landing Area.....	Identify
Fuel Selector.....	Switch To Full Tank
Mixture.....	Rich
Fuel Pump.....	On
Carburetor Heat.....	On
Ignition Switch.....	Both or
.....	Start (if propeller stopped)
When Power is restored:	
Carburetor Heat.....	Off
Fuel Pump.....	Off
If Power is not restored, prepare for Forced Landing.	

### —FORCED LANDINGS—

#### —WITHOUT ENGINE POWER—

Transponder.....	7700
Radio(s).....	121.5 (if time permits)
Airspeed.....	76 KIAS
Flaps.....	As required
Throttle.....	Closed
Mixture.....	Idle-Cut-Off
Magnetos.....	Off
BATT MASTR Switch.....	Off
ALTR Switch.....	Off
Fuel Selector.....	Off
Seats And Seat Belts.....	Upright / Tight

## —FIRES—

### —ENGINE FIRE DURING START—

Cranking.....	Continue
Mixture.....	Idle Cut-Off
Throttle.....	Full open
Electric Fuel Pump.....	Off
Fuel Selector.....	Off
If Fire Continues, Abandon Plane	

### —FIRE IN FLIGHT—

Source Of Fire.....	Check
<b>Electrical Fire:</b>	
BATT MASTR Switch.....	Off
ALTR Switch.....	Off
Vents.....	Open
Cabin Heat.....	Off
Land As Soon As Possible	
<b>Engine Fire:</b>	
Fuel Selector.....	Off
Throttle.....	Closed
Mixture.....	Idle Cut-Off
Electric Fuel pump.....	Off
Heater / defroster.....	Off
Proceed With Power Off Landing	

### **Always Check POH For Other Emergency Checklists**



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