



## PIPER ARCHER III PA-28-181 EMERGENCY PROCEDURES & PREFLIGHT CHECKLIST

\*This is to be used as a REFERENCE ONLY, it is not a substitute for the Airplane Flight Manual.

\*Refer to AFM/POH for amplified procedures. User assumes all risk of use in using this product. User consents to and understands that American Flight Schools bears no liability for the use of this product.

### ENGINE FIRE DURING START

1. Starter.....crank engine
2. Mixture.....idle cut-off
3. Throttle.....open
4. Electric fuel pump.....OFF
5. Fuel selector.....OFF

### ENGINE POWER LOSS DURING TAKEOFF

1. Fuel selector.....switch to tank  
.....containing fuel
2. Electric fuel pump.....check ON
3. Mixture.....check RICH
4. Carburetor heat.....ON

### ENGINE POWER LOSS IN FLIGHT

#### If at low altitude:

1. Airspeed.....MAINTAIN 76 KIAS  
.....minimum

#### If altitude permits:

2. Fuel selector.....switch to tank  
.....containing fuel
3. Electric fuel pump.....ON
4. Mixture.....RICH
5. Carburetor Heat.....ON

6. Engine Gauges .....CHECK

#### When Power is Restored:

7. Carburetor heat.....OFF
8. Electric fuel pump.....OFF

### POWER OFF LANDING

1. Trim for.....76 KIAS
2. Once field can be reached.....66KIAS
3. Flaps.....As desired
4. Throttle.....Close
5. Mixture.....Idle cut-off
6. Magnetos.....OFF
7. Battery Master Switch.....OFF
8. ALTR switch.....OFF
9. Fuel selector.....OFF
10. Seat belt and harness.....tight

### FIRE IN FLIGHT

1. Source of fire.....check
- #### Electrical fire
2. Batt. Master switch.....OFF
  3. ALTR switch.....OFF
  4. Vents.....Open
  5. Cabin heat.....OFF
  6. Land as soon as possible

#### Engine fire

1. Fuel selector.....OFF
2. Throttle.....CLOSED
3. Mixture.....idle cut-off
4. Electric fuel pump.....check OFF
5. Heater and defroster.....OFF
6. Proceed with power off landing procedure

### LOSS OF FUEL PRESSURE

1. Electric fuel pump.....ON
2. Fuel selector.....check on full tank

### ELECTRICAL FAILURES

ALT annunciator light illuminated:

1. Ammeter.....Check to verify inop. Alt

If ammeter shows zero:

2. ALT switch.....OFF

Reduce electrical loads to minimum:

3. ALT circuit breaker.....Check  
.....and reset as required
4. ALT switch.....ON

If power not restored:

5. ALT switch.....OFF

### ELECTRICAL OVERLOAD

1. ALT switch.....ON
2. BAT switch.....OFF

If alternator loads are reduced:

3. Electrical load.....Reduce to Minimum
4. Land as soon as possible

If alternator loads are not reduced:

5. ALT switch.....OFF
6. BAT switch.....As required
7. Land as soon as possible. Anticipate complete electrical failure.

### ENGINE ROUGHNESS

1. Carburetor heat.....ON

If roughness continues after one min:

2. Carburetor heat.....OFF
3. Mixture.....adjust until smooth
4. Electric fuel pump.....ON
5. Fuel selector.....switch tanks
6. Engine gauges.....check
7. Magneto switches .....Check L then R  
If operation is satisfactory on either one, continue on that magneto at reduced power and full RICH mixture to first airport.
8. Prepare for power-off landing

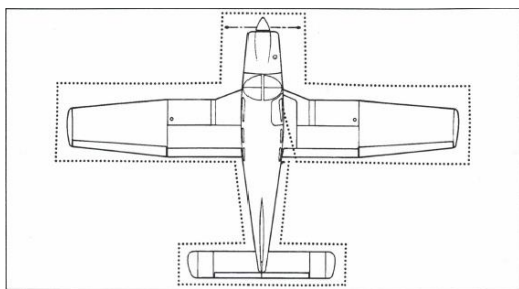
### CARBURETOR ICING

1. Carburetor heat.....ON
2. Mixture.....adjust  
.....for maximum smoothness

## SPIN RECOVERY (PARE)

1. THROTTLE.....IDLE
2. AILERONS.....NEUTRAL
3. RUDDER.....FULL OPPOSITE  
(to direction of rotation)
4. CONTROL WHEEL.....FULL FORWARD
5. RUDDER.....NEUTRAL  
(when rotation stops)
6. CONTROL WHEEL.....AS REQUIRED  
(to smoothly regain level flight altitude)

## PREFLIGHT CHECK



WALK-AROUND  
Figure 4-1

## COCKPIT

1. Required Papers(ARROW).....on board
2. Control wheel.....release restraints
3. Parking brake.....set
4. Avionics.....OFF
5. All switches.....OFF
6. Mixture.....idle cut-off
7. Magneto switches.....OFF
8. Battery Master switch.....ON
9. Fuel gauges.....check quantity
10. Annunciator panel.....check
11. Battery Master switch.....OFF
12. Flaps.....extend
13. Primary flight controls .....check
14. Trim.....neutral
15. Pitot and static systems.....drain
16. Windows.....check clean
17. Tow bar and baggage.....secure
18. Baggage door.....close and secure

## RIGHT WING

1. Surface condition.....clear  
.....of ice, frost, snow
2. Flap and hinges.....check
3. Aileron and hinges.....check
4. Static wicks.....check- secure
5. Wing tip and lights.....check
6. Fuel tank .....check supply visually  
..... secure cap
7. Fuel tank vent.....clear
8. Fuel tank sump.....drain and check  
.....for water, sediments and proper fuel
9. Tie down and chock.....remove
10. Main gear strut.....proper inflation  
.....(4.5 ±.25 in.)
11. Tire.....check
12. Brake block and disc.....check
13. Fresh air inlet.....clear

## NOSE SECTION

1. General condition.....check
2. Cowling.....secure
3. Windshield.....clean
4. Propeller and spinner.....check
5. Air inlets.....clear
6. Engine baffle seals.....check
7. Chock.....remove
8. Nose gear strut.....proper inflation  
.....(3.25± .25 in.)
9. Nose wheel tire.....check
10. Oil.....check quantity
11. Dipstick.....properly seated
12. Oil filler cap.....secure
13. Fuel strainer.....drain

## LEFT WING

1. Surface condition.....clear  
.....of ice, frost, snow
2. Fresh air inlet.....clear
3. Fuel tank sump.....drain and check  
.....for water, sediments and proper fuel
4. Fuel tank vent.....clear
5. Main gear strut.....proper inflation

- .....(4.5 ± .25 in.)
6. Tire.....check
7. Brake block and disc.....check
8. Tie down and chock.....remove
9. Fuel tank .....check supply visually  
..... secure cap
10. Pitot/static head.....remove  
.....cover- holes clear
11. Wing tip and lights.....check
12. Aileron and hinges.....check
13. Flap and hinges.....check
14. Static wicks.....check- secure

## FUSELAGE

1. Antennas.....check
2. Empennage.....clear of ice, frost, snow
3. Stabilator and trim tab.....check
4. Tie down.....remove

## MISCELLANEOUS

1. Battery master switch.....ON
2. Flaps.....retract
3. Interior lighting.....CHECK
4. Pitot heat switch.....ON
5. Pitot heat OFF/INOP Annunciator.....  
.....extinguished
6. Exterior lighting switches.....CHECK
7. Pitot Heat .....check – warm
8. Stall warning horn.....check
9. All lighting switches.....OFF
10. Pitot heat switch.....OFF
11. Pitot heat OFF/INOP Annunciator.....  
.....illuminated
12. Battery master switch.....OFF
13. Passenger.....board
14. Door.....Closed and secure
15. Seats.....adjusted  
.....and /locked in position
16. Seat belts and harness.....  
.....fasten/adjust check inertia reel