

# Piper Archer III (PA-28-181)

## PREFLIGHT

### CABIN

- |                        |         |
|------------------------|---------|
| 1. Magneto Switches    | OFF     |
| 2. Pitot/Static Drains | Drained |

### WALKAROUND

#### Right Wing

- |                         |               |
|-------------------------|---------------|
| ★ 3. Tie Down / Chock   | Removed       |
| 4. Fuel Drain           | Sample Clean  |
| 5. Fuel Quantity        | Visual Verify |
| ★ 6. Fuel Cap           | Secure        |
| 7. Strut, Tire & Brakes | ~4.5", 27 psi |

#### Nose

- |                            |                |            |
|----------------------------|----------------|------------|
| ★ 8. Oil                   | >5 Qt (8 max)  | Cap Secure |
| 9. Strut & Tire            | ~3.25", 20 psi |            |
| ★ 10. Wheel Chock          | Removed        |            |
| ★ 11. Engine Cooling Inlet | Unobstructed   |            |
| 12. Main Fuel Strainer     | Sample L & R   |            |

#### Left Wing

- |                          |               |
|--------------------------|---------------|
| 13. Strut, Tire & Brakes | ~4.5", 27 psi |
| ★ 14. Pitot/Static Mast  | Unobstructed  |
| 15. Fuel Drain           | Sample Clean  |
| 16. Fuel Quantity        | Visual Verify |
| ★ 17. Fuel Cap           | Secure        |
| ★ 18. Tie Down / Chock   | Removed       |

#### Empennage

- |                     |         |
|---------------------|---------|
| ★ 19. Tail Tie Down | Removed |
| ★ 20. Baggage Door  | Secure  |

## ENGINE START & PRE-TAXI

- |                       |               |
|-----------------------|---------------|
| 1. Passenger Briefing | Completed     |
| 2. Prop Area          | Clear         |
| 3. Oil Pressure       | In the green  |
| 4. Mixture            | LEANED        |
| 5. Flight Controls    | Free, Correct |

## PRE-DEPARTURE

- |                         |             |
|-------------------------|-------------|
| 1. Run-up               | Completed   |
| 2. Mixture              | Set for T/O |
| 3. Emergency Procedures | Reviewed    |
| 4. Departure Briefing   | Completed   |
- Check THAT Setup (Xpdr, Heading, Alt, Talk)

## TAKEOFF

- |                        |                     |        |
|------------------------|---------------------|--------|
| 1. Carb Heat           | COLD (off)          |        |
| 2. All Exterior Lights | ON                  | Lights |
| 3. Transponder         | ALT                 | Camera |
| 4. Fuel Pump           | ON                  | Action |
| 5. Timer               | Start               |        |
| 6. Engine Instruments  | Verify in the green |        |
- Climb Speed  $V_y$  (76 KIAS)

## ENROUTE CLIMB

- |             |                 |
|-------------|-----------------|
| 1. Airspeed | 87 KIAS         |
| 2. Throttle | FULL            |
| 3. Mixture  | LEAN +5000' MSL |

## CRUISE

- |            |               |
|------------|---------------|
| 1. Power   | 75% or less   |
| 2. Trim    | Adjusted      |
| 3. Mixture | LEAN as req'd |

## LANDING

- |                        |              |
|------------------------|--------------|
| 1. Approach Procedures | Reviewed     |
| 2. Seats & Belts       | Secured      |
| 3. Fuel Selector       | Fullest Tank |
| 4. Fuel Pump           | ON           |
| 5. Mixture             | RICH         |
- G M

## AFTER LANDING

- |                  |                |
|------------------|----------------|
| 1. Fuel Pump     | OFF            |
| 2. Carb Heat     | COLD (off)     |
| 3. Elevator Trim | Set to NEUTRAL |

## SHUTDOWN

- |                        |             |
|------------------------|-------------|
| 1. Mixture             | IDLE CUTOFF |
| 2. Magneto Switches    | OFF         |
| 3. Master & Alternator | OFF         |
| 4. Flight Plan         | Closed      |

# Piper Archer III (PA-28-181)

## ENGINE FAILURE

### TAKEOFF RUN

- |             |         |
|-------------|---------|
| 1. Throttle | IDLE    |
| 2. Brakes   | Maximum |

### IMMEDIATELY AFTER TAKEOFF

- |             |                          |
|-------------|--------------------------|
| 1. Airspeed | V <sub>g</sub> - 76 KIAS |
|-------------|--------------------------|

### DURING FLIGHT (Restart)

- |                   |                          |
|-------------------|--------------------------|
| 1. Airspeed       | V <sub>g</sub> - 76 KIAS |
| 2. Mixture        | RICH                     |
| 3. Fuel Pump      | ON                       |
| 4. Fuel Selector  | Switch Tanks             |
| 5. Carb Heat      | ON                       |
| 6. Magneto Switch | Try L, R                 |

## ENGINE PROBLEMS

### LOSS OF FUEL PRESSURE

- |                  |              |
|------------------|--------------|
| 1. Fuel Pump     | ON           |
| 2. Fuel Selector | Fullest Tank |

### LOW OIL PRESSURE / HIGH TEMP

**LAND AS SOON AS PRACTICAL**

### ENGINE ROUGHNESS

- |                   |              |
|-------------------|--------------|
| 1. Carb Heat      | FULL ON      |
| 2. Fuel Pump      | ON           |
| 3. Mixture        | Adjust       |
| 4. Fuel Selector  | Switch Tanks |
| 5. Magneto Switch | Try L, R     |

## MISCELLANEOUS

### CO ALERT

- |                       |      |
|-----------------------|------|
| 1. Heater / Defroster | OFF  |
| 2. Storm Window       | Open |

### OPEN DOOR

- With passenger:
  - a. Airspeed <= 87 KIAS
  - b. Passenger to latch door
- Without passenger:
  - a. Land when practical

## FIRES

### DURING START ON GROUND

- |                  |            |
|------------------|------------|
| 1. Cranking      | CONTINUE   |
| 2. Mixture       | IDLE C/OFF |
| 3. Throttle      | FULL OPEN  |
| 4. Fuel Pump     | OFF        |
| 5. Fuel Selector | OFF        |

### DURING FLIGHT (ENGINE)

- |                  |            |
|------------------|------------|
| 1. Mixture       | IDLE C/OFF |
| 2. Fuel Pump     | OFF        |
| 3. Fuel Selector | OFF        |

**LAND AS SOON AS POSSIBLE**

### DURING FLIGHT (ELECTRICAL)

- |                           |          |
|---------------------------|----------|
| 1. Master & Alternator    | OFF      |
| 2. Vents, Cabin Air, Heat | Closed   |
| 3. Fire Extinguisher      | Activate |

## FORCED LANDINGS

### WITHOUT POWER

- |                  |                          |
|------------------|--------------------------|
| 1. Airspeed      | V <sub>g</sub> - 76 KIAS |
| 2. Mixture       | IDLE C/OFF               |
| 3. Fuel Selector | OFF                      |

### PRECAUTIONARY WITH POWER

- |                            |                          |
|----------------------------|--------------------------|
| 1. Airspeed                | V <sub>g</sub> - 76 KIAS |
| 2. <u>Landing Assured:</u> |                          |
| a. Mixture                 | IDLE C/OFF               |

### DITCHING

- |                     |                          |
|---------------------|--------------------------|
| 1. Airspeed         | V <sub>g</sub> - 76 KIAS |
| 2. Mixture          | IDLE C/OFF               |
| 3. <u>Approach:</u> |                          |
| a. High winds       | Land into Wind           |
| b. Light winds      | Parallel to Swells       |