



## PIPER ARCHER Tx/Lx EMERGENCY PROCEDURES & PREFLIGHT CHECKLIST v3-Jan-23

\*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.....Engage and HOLD
2. Mixture.....IDLE CUT-OFF
3. Throttle.....OPEN
4. Aux. Fuel Pump.....OFF
5. Fuel Selector.....OFF

*If fire continues for more than a few seconds, abandon the aircraft*

### POWER LOSS DURING TAKEOFF

*If enough runway remains to stop*

1. Airspeed.....Maintain Safe Airspeed
2. Landing.....Land/Stop Straight Ahead
3. Brakes.....MAX SAFE

*If insufficient runway remains*

1. Airspeed.....Maintain Safe Airspeed
2. Flaps.....As Required
3. Landing.....Straight Ahead

*If altitude is sufficient to attempt a restart*

1. Airspeed.....76 KIAS
2. Fuel Selector.....Fullest Tank
3. Fuel Pump.....ON
4. Mixture.....RICH
5. Alt Air.....OPEN

*If power is not restored, proceed with power-off landing*

### ENGINE FIRE IN FLIGHT

1. Fuel Selector.....OFF
2. Throttle.....CLOSED
3. Mixture.....IDLE CUT-OFF
4. Fuel Pump.....OFF
5. Heat/Defroster.....OFF

*If fire is not extinguished, execute emergency descent until extinguished or safe landing can be made*

6. Power Off Landing.....EXECUTE

### ENGINE POWER LOSS IN FLIGHT

1. Airspeed.....MAINTAIN 76 KIAS
2. Fuel Selector.....Fullest Tank
3. Fuel Pump.....ON
4. Mixture.....RICH
5. Alt Air.....OPEN
6. L Magneto.....OFF then ON
7. R Magneto.....OFF then ON

*If power is restored:*

1. Alt Air.....CLOSE
2. Fuel Pump.....OFF
3. Land.....As soon as Practical

*If engine power is not restored proceed with a power off landing*

### POWER OFF LANDING

1. Airspeed.....Maintain 76 KIAS
2. Air Con.....OFF
3. Landing Pattern....1000ft agl downwind  
*When committed to landing..*
4. Airspeed.....66 KIAS
5. Flaps.....As Desired
6. Throttle.....CLOSE
7. Mixture.....IDLE CUT-OFF
8. Left/Right Mags.....OFF
9. Battery Master.....OFF
10. Alternator.....OFF
11. Fuel Selector.....OFF
12. Seatbelts.....Set/Locked

### HIGH OIL TEMP

1. Throttle.....Minimum Required
2. Mixture.....ENRICH
3. Airspeed.....Increase if Practical

### ELECTRICAL FIRE IN FLIGHT

1. E Batt.....ARM
2. Battery Master.....OFF
3. Alternator.....OFF
4. Vents.....OPEN
5. Heat/Defroster.....OFF
6. Fire.....Extinguish
7. Emergency Descent.....As Required

### STARTER ENGAGED

*If on the ground:*

1. Throttle.....Reduce
2. Starter Breaker (R.1, C.10).....PULL
3. Engine.....Shutdown

*If in flight:*

1. Throttle.....Reduce
2. Starter Breaker (R.1, C.10).....PULL
3. Land.....As soon as possible

### LOSS OF FUEL FLOW

*If caused by fuel exhaustion:*

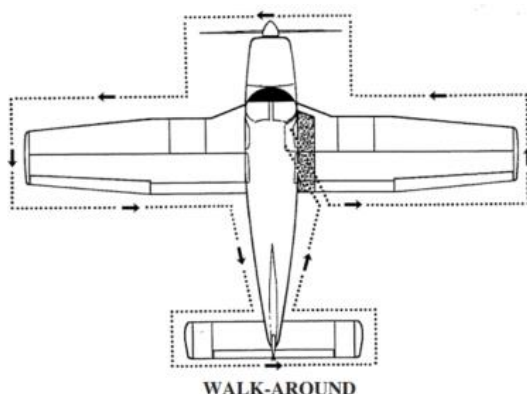
1. Fuel Pump.....ON
2. Fuel Selector.....Fullest Tank
3. Fuel Pump.....OFF

*If caused by engine driven fuel pump failure*

1. Throttle.....Closed
2. Fuel Pump.....ON
3. Throttle.....As Required
4. Mixture.....As Required

## ALTERNATOR FAILURE

1. Verify Failure.....Check Amps  
*ALTR breaker should not be opened manually when ALTR is functioning properly*
2. ALTR Switch.....OFF
3. ALTR Breaker (R1,C3).....RESEST if out
4. ALTR Field Breaker (R2,C13)..RESET ->
5. ALTR Switch.....ON  
*If Alternator is still failed:*
6. ALTR Switch.....OFF
7. Electrical Power Remaining.....<30min
8. Electrical Load.....Shed in <3min
9. Non. Ess. Bus Breaker (R1,C1).....PULL
10. Lighting Bus Breaker (R1,C2).....PULL
11. Avionics Master Switch.....OFF  
*To ensure 30min battery life*
12. Batt Discharge.....<-13amps
13. Pitot Heat.....<14min
14. Com Radio.....<3min
15. Fuel Pump.....<2min
16. Land as soon as **possible**



## PREFLIGHT INSPECTION

### CABIN

1. FSP.....Checkout
2. Pitot Tube Cover.....REMOVE
3. ARROW.....Check
4. Avionics Manuals.....Check
5. TOLD/W&B.....Complete
1. All Switches.....OFF
2. Mixture.....IDLE CUT-OFF
3. Mags.....OFF
4. Battery Master.....ON
5. (Night) Interior Lighting.....Check
6. Pitot Heat.....ON
7. Pitot Heat CAS Msg.....Extinguished
8. (IFR) Pitot Heat.....Check (3m Max)
9. Pitot Heat.....OFF
10. Fuel Gauges.....Check
11. All Lights.....ON
12. All Lights.....Check
13. Stall Warning.....Check
14. All Lights.....OFF
15. Pitot Heat.....Verify OFF
16. Pitot Heat CAS Msg.....Illuminated
17. Battery Master.....OFF
18. Flaps.....40°
19. Flight Controls.....Check
20. Trims.....Neutral
21. Pitot/Static System.....Drain (p.7-58)
22. Windows/Shield.....Clean as Required

### RIGHT WING

1. Surface.....Clear of Decontaminants
2. Flap.....Check
3. Aileron.....Check/Free/Correct
4. Static Wicks.....Check
5. Wing Cap.....Check
6. Tie Down/Chocks.....Remove
7. Fuel Vent.....Clear
8. Fuel Sump.....Drain/Check
9. Fuel Quantity.....Visually Verify
10. Landing Gear.....Check  
*Suspension, Inflation, Brake Pads, Rotors*
11. Cabin Air inlet.....Clear

## NOSE

1. Oil.....Check Quantity (6-8qt)
2. Prop.....Check
3. Spinner.....Check
4. Air Inlets.....Clear
5. Landing Gear.....Check  
*Suspension, Inflation*
6. Gascolator.....Drain/Check

## LEFT WING

1. Surface.....Clear of Contaminants
2. Cabin Air Inlet.....Clear
3. Landing Gear.....Check  
*Suspension, Inflation, Brake Pads, Rotors*
4. Fuel Sump.....Drain/Check
5. Fuel Quantity.....Visually Verify
6. Fuel Vent.....Clear
7. Tie Down/Chocks.....Remove
8. Pitot Mast.....Clear (3)
9. OAT Probe.....Check
10. Wing Cap.....Check
11. Aileron.....Check/Free/Correct
12. Flap.....Check
13. Static Wicks.....Check

## FUSELAGE/TAIL

1. Antennas.....Check
2. Surface.....Clear of Contaminants
3. Stabilator/Trim.....Check/Free/Correct
4. Rudder.....Check/Correct
5. Static Wicks.....Check
6. Tie Down.....Remove