



## PIPER SARATOGA PA-32R-301 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. Landing Gear (if terrain is rough).....UP
2. Fuel selector.....switch to tank  
.....containing fuel
3. Electric fuel pump.....check ON
4. Mixture.....check RICH
5. Alternate air .....OPEN

### ENGINE POWER LOSS IN FLIGHT

#### If at low altitude:

1. Airspeed.....MAINTAIN 83 KIAS  
.....minimum

#### If altitude permits:

2. Fuel selector.....switch to tank  
.....containing fuel
3. Electric fuel pump.....ON
4. Mixture.....RICH
5. Alternate air .....OPEN
6. Engine Gauges .....CHECK

### When Power is Restored:

7. Alternate air .....CLOSED
8. Electric fuel pump.....OFF
9. Mixture .....SET

### POWER OFF LANDING

1. Trim for.....83 KIAS  
*When landing assured*
2. Landing Gear .....Down
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 (Smoke in cabin)**
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 OIL PRESSURE

1. LAND.....ASAP

### LOSS OF FUEL PRESSURE

1. Throttle .....retard
2. Electric fuel pump.....ON

3. Throttle .....reset as required

### ELECTRICAL FAILURES

ALT annunciator light illuminated:

1. Ammeter.....Verify Failure
2. Battery ammeter..... Verify bat is  
.....supplying aircraft power

#### If indication confirm failure

3. ALT switch.....OFF  
Reduce electrical loads to minimum:
4. ALT circuit breaker.....Check  
.....and reset as required

5. ALT switch.....ON

#### If power not restored:

6. ALT switch.....OFF

### ELECTRICAL OVERLOAD

#### (Alt over 20 AMPS above known loads)

*If elec overload condition is present and abnormally high bat charge load persists (longer than 5 min)*

1. ALT switch.....ON
2. BAT switch.....OFF
3. Land as soon as practical

*If elec overload condition is present and bat charge load is normal*

4. ALT switch ..... OFF
5. Electrical load ..... Reduce to minimum
6. BAT switch ..... As required
7. Land as soon as possible

### PROPELLER OVERSPEED

1. Throttle ..... retard
2. Oil pressure ..... Check
3. Prop Control .....full DECREASE rpm  
.....then set if any control available
4. Airspeed ..... reduce
5. Throttle .....as required to  
.....remain below 2700rpm

## **EMER LANDING GEAR EXTENSION**

### **Prior to emergency extension procedure**

1. Batt Master switch ..... check ON
2. ALTR switch ..... check ON
3. Gear handle .....cycle
4. Day/Night dimming switch .....day
5. Gear Indicator bulbs ..... check

### **If ldg gear does not check down and lock**

1. Ldg Gear Pump C/B.....PULL
2. Gear handle .....DOWN
3. Emer gear knob .....PULL  
.....while fish tailing airplane  
(approx. 10 sec to down and lock)

## **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)

## **UNLATCHED DOOR INFLIGHT**

### **Slow aircraft to 90 KIAS**

1. Cabin vents ..... close
2. Storm window .....open
3. If door latch is open.....pull on  
.....armrest while moving latch handle to  
.....latch position

## **PREFLIGHT CHECK**

### **COCKPIT**

1. Required Papers(ARROW)..... on board
2. Control wheel.....release restraints
3. Gear handle.....DOWN
4. Parking brake.....set
5. Avionics.....OFF
6. All switches.....OFF
7. Mixture.....idle cut-off
8. Magneto switches.....OFF

9. Battery Master switch.....ON
10. Fuel gauges.....check quantity
11. Annunciator panel.....check lights
12. Flaps.....extend
13. Battery Master switch.....OFF
14. Primary flight controls .....check
15. Trim.....neutral
16. Pitot and static systems.....drain
17. Windows.....check clean
18. Tow bar and baggage.....properly-secure
19. Baggage door-Rear.....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  
.....(4.00 ±.25 in.)
11. Tire.....check
12. Brake block and disc.....check
13. Fresh air inlet.....clear

### **NOSE SECTION**

1. Baggage door.....close and secure
2. General condition.....check
3. Baggage door.....close and secure
4. Cowling.....secure
5. Windshield.....clean
6. Propeller and spinner.....check
7. Air inlets.....clear
8. Engine baffle seals.....check
9. Chock.....remove
10. Nose gear strut.....proper inflation  
.....(3.25± .25 in.)
11. Nose Gear Door .....check
12. Nose wheel tire.....check
13. Landing light .....secure
14. Oil.....check quantity
15. Dipstick.....properly seated

16. Oil filler cap.....secure

### **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. Tie down and chock.....remove
6. Main gear strut.....proper inflation  
.....(4.00 ± .25 in.)
7. Tire.....check
8. Brake block and disc.....check
9. Fuel tank .....check supply visually  
..... secure cap
10. Stall warning vanes .....check
11. Pitot tube.....remove cover- holes clear
12. Wing tip and lights.....check
13. Aileron and hinges.....check
14. Flap and hinges.....check
15. Static wicks.....check- secure

### **FUSELAGE**

1. Antennas.....check
2. Static vent .....check
3. Empennage.....clear of ice, frost, snow
4. Stabilator and trim tab.....check
5. 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.....OFF
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.....ON
12. Battery master switch.....OFF
13. Fuel Strainer Sump.....drain
14. Passenger.....board
15. Door.....Closed and secure
16. Seat.....adjusted and /locked in position
17. Seat belts and harness.....  
.....fasten/adjust check inertia reel