



FLIGHT SCHOOL

C172SP N268SP

**PREFLIGHT INSPECTIOIN**

**① CABIN**

- 1. Pitot Tube Cover.....REMOVE
- 2. AROW Documents/Maintenance Log.....CHECK
- 3. Emergency Equipment.....CHECK
- 4. Control Wheel Lock.....REMOVE
- 5. Ignition Switch.....OFF
- 6. Master Switch.....ON
- 7. Fuel Quantity.....( )CHECKED/LIGHTS OUT
- 8. Avionics Master Switch.....ON/FAN ON/OFF
- 9. Alt. Static Selector.....OFF
- 10. Annunciators.....CHECK
- 11. Fuel Selector Valve.....BOTH
- 12. Fuel Shutoff Valve.....ON
- 13. Pitot Heat.....CHECK
- 14. Master Switch.....OFF
- 15. Elevator Trim.....SET

**② EMPENAGE**

- 16. Baggage Door.....CHECK
- 17. Tie-Down.....DISCONNECT
- 18. Control Surfaces.....CHECK
- 19. Trim Tab.....CHECK
- 20. Antennas.....CHECK

**③ RIGHT WING**

- 21. Flap.....CHECK
- 22. Aileron.....CHECK
- 23. Tie-Down.....DISCONNECT
- 24. Main Wheel Tire.....CHECK
- 25. Fuel Tank Sumps(5).....DRAIN
- 26. Fuel Quantity/Caps.....CHECK/SECURE

**③ NOSE**

- 27. Fuel Sumps(3) .....DRAIN
- 28. Engine Oil (6-7 Qts).....CHECK
- 29. Engine Cooling Inlets.....CHECK/CLEAR
- 30. Propeller and Spinner.....CHECK
- 31. Air Filter.....CHECK
- 32. Nose Wheel Strut and Tire.....CHECK
- 33. Left Static Source.....CHECK

**④ LETF WING**

- 34. Fuel Quantity/Caps.....CHECK/SECURE
- 35. Fuel Tank Sumps(5).....DRAIN
- 36. Pitot Tube.....CHECK
- 37. Fuel Tank Vent.....CHECK
- 38. Tie-Down.....DISCONNECT
- 39. Main Wheel Tire.....CHECK
- 40. Stall Warning.....CHECK
- 41. Landing/Taxi Lights.....CHECK
- 42. Aileron.....CHECK
- 43. Flap.....CHECK

**BEFORE ENGINE START**

- 1. Preflight Inspection.....COMPLETE
- 2. Passenger Briefing.....COMPLETE
- 3. Seats and Seat Belts.....SET
- 4. Brakes.....TEST
- 5. Circuit Breakers.....CHECK IN
- 6. Electrical Equipment.....OFF
- 7. Avionics Master.....OFF
- 8. Fuel Selector Valve.....BOTH
- 9. Fuel Shutoff Valve.....ON
- 10. \*Prime.....AS REQUIRED
- 11. Throttle.....OPEN ¼ INCH
- 12. Mixture.....IDLE CUTOFF
- 13. Master Switch.....ON
- 14. Beacon.....ON
- 15. Propeller Area.....CLEAR



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**AFTER START**

- 1. Oil Pressure/Engine Instruments.....CHECK
- 2. Mixture.....LEAN
- 3. Flaps.....CHECK/UP
- 4. Avionics Master.....ON

**BEFORE TAKE OFF**

- 1. Flight Controls.....FREE/CORRECT
- 2. Fuel Quantity.....( )CHECK
- 3. Flight Instruments.....CHECK/SET
- 4. Mixture.....RICH
- 5. Fuel Selector Valve.....CHECK/BOTH
- 6. Runup (1800 RPM)
  - Magnetos (150 Max Drop/50Diferencial).....CHECK
  - Suction Gauge.....CHECK
  - Engine Instruments and Ampmeter.....CHECK
  - Idle.....CHECK
- 7. Annunciator Panel.....NO ANNUNCIATORS
- 8. Elevator Trim.....SET
- 9. Flaps.....SET
- 10. Departure/Emerg. Briefing.....COMPLETE

**RUNWAY ITEMS**

- 1. Heading Indicator.....SET
- 2. Altitude XPDR.....SET
- 3. Lights.....SET
- 4. Fuel.....MIX FULL RICH
- 5. Time.....RECORD

**CLIMB**

- 1. Flaps.....UP
- 2. Airspeed.....70-85 KIAS
- 3. Throttle.....FULL OPEN
- 4. Mixture.....LEAN/TOP OF THE GREEN

**CRUISE**

- 1. Power (2100-2600) (<75%).....( )SET
- 2. Trim.....SET
- 3. Mixture (Peak-75°).....LEAN
- 4. Engine Instruments.....CHECK

**DESCENT**

- 1. ATIS/ASOS.....ACUIRE
- 2. POWER.....CRUISE DESCENT SET
- 3. Mixture.....SET
- 4. Altimeter.....( )SET
- 5. Fuel Selector.....BOTH
- 6. Approach Briefing.....COMPLETE

**BEFORE LANDING**

- 1. Mixture.....RICH
- 2. Autopilot.....OFF
- 3. Lights.....SET
- 4. Flaps.....10° SET

**AFTER LANDING**

- 1. Lights.....SET
- 2. Flaps.....UP
- 3. Mixture.....LEAN

**SHUTDOWN**

- 1. Avionics Master.....OFF
- 2. Lights OFF.....OFF
- 3. Mixture.....CUTOFF
- 4. Ignition.....OFF
- 5. Master Switch.....OFF

**SECURING**

- 1. Control Lock.....INSTALL
- 2. Fuel Seletctor Valve.....LEFT OR RIGHT
- 3. Pitot Cover.....INSTALL
- 4. Chocks.....LEFT MAIN
- 5. Tie-Downs.....SET
- 6. Paperwork/Flight Plan.....COMPLETE/CLOSED



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**ENGINE FAILURE DURING TAKEOFF ROLL**

- 1. Trottle.....IDLE
- 2. Brakes.....APPLY
- 3. Flaps.....RETRACT
- 4. Mixture.....CUTOFF
- 5. Ignition .....OFF
- 6. Master Switch.....OFF

**ENGINE FAILURE DURING CLIMB**

- 1. Airspeed...70 KIAS (Flaps UP) 65 KIAS (Flaps Down)
- 2. Mixture.....CUTOFF
- 3. Fuel Shutoff Valve.....OFF
- 4. Ignition .....OFF
- 5. Flaps.....AS REQUIRED
- 6. Master Switch.....OFF
- 7. Cabin Door.....UNLATCH
- 8. Land.....STRAIGHT AHEAD

**ENGINE FAILURE DURING FLIGHT**

- 1. Airspeed.....68 KIAS
- 2. Fuel Shutoff Valve.....ON (push full in)
- 3. Fuel Selector Valve.....BOTH
- 4. Auxiliary Fuel Pump.....ON
- 5. Mixture.....RICH
- 6. Ignition .....BOTH (or START if propeller is stopped)

**EMERGENCY LANDING WITHOUT ENGINE POWER**

- 1. Passenger Seat Backs.....MOST UPRIGHT POSSITION
- 2. Seats and Seat Belts.....SECURE
- 3. Airspeed...70 KIAS (Flaps UP) 65 KIAS (Flaps Down)
- 4. Mixture.....CUTOFF
- 5. Fuel Shutoff Valve.....OFF
- 6. Ignition .....OFF
- 7. Flaps.....AS REQUIRED
- 8. Master Switch.....OFF
- 9. Cabin Door.....UNLATCH

**ENGINE FIRE DURING START**

**1. Ignition Switch .....START, Continue Cranking**

If engine starts:

- 2. Power.....1800 RPM
- 3. Engine.....SHUTDOWN

If engine fails to start

**4. Throttle.....FULL OPEN**

**5. MIXTURE.....CUT OFF**

**6. Cranking.....CONTINUE**

**7. Fuel Shutoff Valve.....OFF (Pull Full Out)**

**8. Auxiliary Fuel Pump.....OFF**

**9. Engine.....SECURE**

a. Master Switch...OFF

b. Ignition Switch...OFF

**10. Airplane.....EVACUATE**

**11. Fire.....EXTINGUISH**

**ENGINE FIRE IN FLIGHT**

**1. Mixture.....CUT OFF**

**2. Fuel Shutoff Valve.....OFF**

**3. Auxiliary Fuel Pump.....OFF**

**4. Master Switch.....OFF**

**5. Cabin Heat and Air.....OFF**

**6. Airspeed.....100-163 KIAS**

**7. Forced Landing.....EXCECUTE**

**ELECTRICAL FIRE IN FLIGHT**

**1. Master Switch.....OFF**

**2. Vents, Cabin Air, Heat.....CLOSED**

**3. Fire Extinguisher.....ACTIVATE**

**4. Avionics.....OFF**

**5. All other switches (except ignition switch).....OFF**



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**PRECAUTIONARY LANDING WITH ENGINE POWER**

1. Passenger Seat Back...**MOST UPRIGHT POSSITION**
2. Seats and Seat Belts.....**SECURE**
3. Airspeed.....**65 KIAS**
4. Flaps.....**20°**
5. Selected Field.....**FLY OVER**
6. Avionics Master Switch and  
Electrical Switches.....**OFF**
7. Flaps.....**30° (on final approach)**
8. Airspeed.....**65 KIAS**
9. Master Switch.....**OFF**
10. Doors.....**UNLATCH**
11. Touchdown.....**SLIGHTLY TAIL LOW**
12. Ignition Switch.....**OFF**

**DITCHING**

1. Radio.....**TRANSMIT MAYDAY on 121.5 MHz, giving location and intentions and SQWAK 7700**
2. Heavy Objects (in baggage area).....**SECURE OR JETTISON**
3. Passenger Seat Backs..**MOST UPRIGHT POSSITION**
4. Seats and Seat Belts.....**SECURE**
5. Flaps.....**20° to 30°**
6. Power...**ESTABLISH 300 FT/MIN DESSCENT AT 55 KIAS**  
If no power is available, approach at 70 KIAS with flaps up or at 65 KIAS with 10° flaps
7. Cabin  
Doors.....**UNLATCH**
8. Touchdown.....**LEVEL ATTITUDE**
9. Face.....**CUSHION**
10. ELT.....**ACTIVATE**
11. Airplane.....**EVACUATE**  
If necessary open window to flood cabin to equalize pressure so doors can be opened.
13. Life Vests and Raft.....**INFLATE WHEN CLEAR OF AIRPLANE**

**LANDING WITH A FLAT MAIN TIRE**

1. Approach.....**NORMAL**
2. Flaps.....**30°**
3. Touch Down.....**GOOD MAIN TIRE FIRST, hold airplane off flat tire as long as possible with aileron control**
4. Directional Control.....**MAINTAIN**

**LANDING WITH A FLAT NOSE TIRE**

1. Approach.....**NORMAL**
2. Flaps.....**30°**
3. Touch Down.....**ON MAINS, hold nose wheel off the ground as long as possible, when nose wheel touches the ground maintain full up elevator.**
4. Directional Control.....**MAINTAIN**

**AMMETER – EXCESSIVE RATE OF CHARGE**

1. Alternator.....**OFF**

**LOW VOLTAGE ANNUNCIATOR (VOLTS) DURING FLIGHT**

May occur during low RPM, Annunciator will go out at higher RPM

1. Avionics Master.....**OFF**
  2. Alternator Circuit Breaker (ALT FLD).....**CHECK IN**
  3. Master Switch.....**OFF (both sides)**
  4. Master Switch.....**ON**
  5. Low Voltage Annunciator (VOLTS).....**CHECK OFF**
  6. Avionics Master.....**ON**
- If low voltage annunciator (VOLTS) illuminates again:
7. Alternator.....**OFF**
  8. Nonessential Radio and Electrical Equipment.....**OFF**
  9. Flight.....**TERMINATE as soon as practical**

**VACCUM SYSTEM FAILURE (L VAC) or (R VAC) Annunciator**

1. Vacuum Gauge.....**CHECK**
- If vacuum is not within normal limits partial panel procedures maybe required.