**SECURING AIRPLANE**

1. Parking Brake — **SET**

2. Avionics Master Switch — **OFF**

3. Electrical Equipment / Autopilot— **OFF**

4. Mixture — **IDLE CUTOFF**

5. Ignition Switch — **OFF**

6. Master Switch — **OFF**

7. Control Lock — **INSTALL**

8. Postflight Inspection -- **COMPLETE**

9. **CLOSE FLIGHT PLAN**

**HOLDING PROCEDURES**

**THROTTLE BACK TO HOLD SPEED**

**TURN TO OUTBOUND COURSE**

**TIME OUTBOUND LEG**

**TALK TO ATC**

**TWIST OBS TO INBOUND COURSE**

**IFR APPROACH CHECKLIST**

**ATIS — VERIFY**

**INSERT/LOAD APPROACH DATA**

**TUNE/IDENTIFY NAV RADIOS**

**BRIEF APPROACH AND MISSED APP.**

**WHEN CLEARED FOR APPROACH**

**SLOW TO APPROACH SPEED (90 MPH) ACTIVATE APPROACH IN GPS**

**VERIFY PROCEDURE TURN**

**DESCEND TO FINAL APPROACH ALT.**

**AT FAF BEGIN DESCENT (START TIME)**

**CONFIGURE AIRCRAFT PRIOR TO FAF**

**COMPLETE LANDING CHECKLIST**

**PRE-MANEUVER CHECK**

**ENGINE INSTRUMENTS — CHECK**

**MIXTURE — RICH**

**MINIMUM SAFE ALTITUDE — VERIFY**

**PRACTICE AREA — CLEAR**

**LANDING SITE -- SELECT**

**POST MANEUVER CHECK**

**MIXTURE — LEANED**

**ENGINE INSTRUMENTS — CHECK**

**RIGHT WING**

1. Wing Tip – **CHECK CONDITION**

2. Leading Edge – **CHECK CONDITION**

3. Wing Tie-Down — **DISCONNECT**

4. Main Wheel Tire — **CHECK**

5. Fuel Tank Quick Drain Valves —

**DRAIN**

6. Fuel Quantity — **CHECK VISUALLY**

7. Fuel Filler Cap — **SECURE**

**NOSE**

1. Right Static Source – **CHECK CLEAR**

2. Fuel Strainer Valve — **DRAIN**

3. Engine Oil Dipstick/Filler Cap —

**CHECK LEVEL AND SECURITY**

4. Engine Cooling Air Inlets — **CLEAR**

5. Propeller and Spinner — **CHECK**

6. Alternator Belt -- **CHECK**

7. Air Filter — **CHECK**

8. Nose Wheel Strut and Tire —

**CHECK**

7. Left Static Source Opening —

**CHECK**

**LEFT WING**

1. Fuel Quantity — **CHECK VISUALLY**

2. Fuel Filler Cap — **SECURE AND**

**VENT UNOBSTRUCTED**

3. Fuel Tank Quick Drain Valve —

**DRAIN**

4. Main Wheel Tire — **CHECK**

**LEFT WING LEADING EDGE**

1. Fuel Tank Vent Opening — **CHECK**

2. Stall Warning Opening — **CHECK**

3. Wing Tie-Down — **DISCONNECT**

4. Landing/Taxi Lights — **CHECK FOR**

**CONDITION**

5. Wing Tip – **CHECK CONDITION**

**LEFT WING TRAILING EDGE**

1. Aileron — **CHECK**

2. Flap — **CHECK**

**CABIN**

1. Documents — **CHECK ON BOARD**

2. Pitot Tube Cover — **REMOVE**

3. Pilot’s Operating Handbook — **ON**

**BOARD**

4. Airplane Weight and Balance —

C**HECKED**

5. Parking Brake — **SET**

6. Control Wheel Lock — **REMOVE**

7. Ignition Switch — **OFF**

8. Avionics Master Switch — **OFF**

9. Master Switch — **ON**

10. Fuel Quantity Indicators **CHECK QTY.**

11. Alternate Static Source Valve — **OFF**

12. Fuel Selector Valve — **BOTH**

13. Flaps — **EXTEND**

14. Pitot Heat — **ON (check hot)**

15. Pitot Heat — **OFF**

16. Nav/Beacon/Landing/Taxi Lights —

**CHECK FOR OPERATION**

23. Master Switch — **OFF**

24. Baggage Door — **CHECK LOCKED**

**EMPENNAGE**

1. Rudder/Gust Lock — **REMOVE**

2. Tail Tie-Down — **DISCONNECT**

3. Control Surfaces — **CHECK**

4. Trim Tab — **CHECK SECURITY**

5. Antennas — **CHECK FOR**

**CONDITION**

**RIGHT WING TRAILING EDGE**

1. Aileron — **CHECK**

2. Flap — **CHECK**

**CRUISE**

1. Throttle — **2200—2700 RPM**

3. Elevator Trim — **ADJUST**

3. Mixture — **LEAN**

**DESCENT**

1. Mixture — **ADJUST**

2. Power — **AS DESIRED**

3. Fuel Selector Valve — **BOTH**

4. ATIS **— VERIFY**

5. Radios **— TUNED FOR ARRIVAL**

6. Seats, Seatbelts, Harnesses -- **SET**

**BEFORE LANDING**

1. Misture -- **RICH**

2. Carburetor Heat -- **ON**

3. Landing/Taxi Lights -- **ON**

4. Flaps – **AS REQUIRED**

5. Landing Clearance -- **RECEIVED**

**LANDING (NORMAL)**

1. Airspeed — **70-80 MPH (Flaps Up)**

2. Wing Flaps — **AS DESIRED**

3. Airspeed — **65-75 MPH (Flaps DN.)**

**LANDING (SHORT FIELD)**

1. Airspeed — **65-75 MPH (Flaps Up)**

2. Flaps — **FULL DOWN (40 Deg.)**

3. Airspeed — **70 MPH (until flare)**

4. Power — **REDUCE**

6. Brakes — **APPLY HEAVILY**

7. Wing Flaps — **RETRACT**

**GO AROUND/BALKED LANDING**

1. Throttle — **FULL OPEN**

2. Wing Flaps — **20 DEG.**

3. Climb Speed — **65-75 MPH**

4. Wing Flaps — **10 Deg. (until**

**obstacles cleared then retract after**

**safe altitude and 70 MPH)**

**AFTER LANDING/Clearing Runway**

1. Wing Flaps — **UP**

**AFTER CLEARING RUNWAY**

1. Wing Flaps -- **UP**

2. Strobe / Landing Lights — **OFF**

3. Pitot Heat **— OFF**

4. Transponder — **ALT (1200)**

5. Carburetor Heat **-- COLD**

**CESSNA 172M PREFLIGHT CHECKLIST**

**CESSNA 172M CHECKLIST**

**V SPEEDS**

**Vso:**

**Vsi:**

**Vfe:**

**Vr:**

**Vx:**

**Vy:**

**Va:**

**Vno:**

**Vne:**

**NORMAL APPROACH 65-75 MPH**

**SHORT APPROACH 70 MPH**

**BEST GLIDE 80 MPH**

**FIRE DURING START ON GROUND**

1. Cranking — **CONTINUE IF ENG. STARTS**

2. Throttle — **1800 RPM (2 Min.)**

3. Engine — **SHUTDOWN IF NO START**

**Fails To Start**

4. Throttle — **FULL OPEN**

5. Mixture — **IDLE CUTOFF**

6. Cranking — **CONTINUE**

7. Fuel Shutoff Valve —**OFF**

8. Fire Extinguisher — **ACTIVATE**

9. Engine — **SECURE**

a. Master Switch — **OFF**

b. Ignition Switch — **OFF**

10. Parking Brake — **SET**

11. Airplane — **EVACUATE**

12. Fire — **EXTINGUISH**

34. Fire Damage — **INSPECT**

**ENGINE FIRE IN FLIGHT**

1. Mixture — **IDLE CUTOFF**

2. Fuel Selector Valve — **OFF**

4. Master Switch — **OFF**

5. Cabin Air/Heat — **OFF**

6. Airspeed — **100 MPH**

6. Forced Landing — **EXECUTE**

**ELECTRICAL FIRE IN FLIGHT**

1. Master Switch — **OFF**

2. Vents / Cabin Air / Heat — **CLOSED**

3. Fire Extinguisher — **ACTIVATE**

4. Avionics Master Switch — **OFF**

5. All Other Switches (except ign. switch) —

**OFF**

**IF FIRE EXTINGUISHED**

6. Master Switch — **ON**

7. Circuit Breakers — **CHECK IN (no reset**)

8. Radio Switches — **OFF**

9. Avionics Master Switch — **ON**

10. Radio/Electrical Switches — **ON (1 at a**

**time)**

11. Vents / Cabin Air / Heat — **OPEN**

**CABIN FIRE**

1. Master Switch — **OFF**

2. Vents / Cabin Air / Heat — **CLOSED**

3. Fire Extinguisher — **ACTIVATE**

4. **LAND AS SOON AS PRACTICAL**

**WING FIRE**

1. Nav, Landing/Taxi Light Switches — **OFF**

2. Pitot Heat — **OFF**

3. Strobe Lights — **OFF**

**LOW VOLTAGE ANNUNCIATOR**

1. Avionics Master Switch — **OFF**

2. Alternator Circuit Breaker — **CHECK IN**

3. Master Switch — **OFF (both sides)**

4. Master Switch — **ON (Check Ammeter)**

14. Throttle Friction Lock — **ADJUST**

15. Radios And Avionics — **SET**

16. NAV/GPS Switch — **SET**

17. Wing Flaps – **SET FOR TAKEOFF**

18. Parking Brake -- **RELEASED**

**CLEARED FOR TAKEOFF**

18. Strobe / Landing Lights **— ON**

19. Transponder **— Verify ALT**

20. Brakes **— RELEASED**

21. Time **— NOTE**

**TAKEOFF (NORMAL)**

1. Wing Flaps — **UP**

2. Mixture — **RICH (Lean above 3000”)**

3. Throttle — **FULL OPEN**

4. Rotate — **60 MPH**

5. Engine Instruments**—CHECK**

**TAKEOFF (SHORT FIELD)**

1. Wing Flaps — **UP**

2. Brakes — **APPLY**

3. Throttle — **FULL OPEN**

4. Mixture — **RICH** **(Lean Above 3000')**

5. Brakes — **RELEASE**

6. Rotate – **60 MPH**

7. Climb Speed **— 68 MPH** (until

obstacle cleared)

**AFTER TAKEOFF / CLIMB**

1. Airspeed — **80-90 MPH**

2. Throttle — **FULL OPEN**

3. Mixture — **LEAN ABOVE 3000’**

4. Landing Lights — **AS REQUIRED**

5. Engine Instruments -- **CHECK**

**49 MPH**

**57 MPH**

**100 MPH**

**60 MPH**

**75 MPH (50’)**

**91 MPH**

**112 MPH (Sea Level)**

**145 MPH**

**182 MPH**

**163 KIAS**

**ENGINE FAILURE IMMEDIATELY AFTER**

**TAKEOFF**

1. Airspeed — **75 MPH (Flaps Up)**

**70 MPH (Flaps Down)**

2. Mixture — **IDLE CUTOFF**

3. Fuel Selector Valve — **OFF**

4. Ignition Switch — **OFF**

5. Wing Flaps — **AS REQUIRED**

6. Master Switch — **OFF**

7. Cabin Door — **UNLATCH**

8. Land — **STRAIGHT AHEAD**

**ENGINE FAILURE DURING FLIGHT**

1. Airspeed — **80 MPH**

2. Fuel Selector Valve — **BOTH**

3. Mixture -- RICH

4. Carburetor Heat -- ON

5. Ignition Switch — **BOTH (or start if**

**propeller is stopped)**

**6. Primer – IN AND LOCKED**

**EMERGENCY LANDING WITHOUT POWER**

1. Airspeed — **70-75 MPH (Flaps Up)**

2. Mixture — **IDLE CUTOFF**

3. Fule Selector Valve — **OFF**

4. Ignition Switch — **OFF**

5. Wing Flaps — **AS REQUIRED**

6. Doors — **UNLATCHED**

7. Transmit — **121.5**

8. Squawk **— 7700**

9. Master Switch**—OFF**

10. Passenger Seats and Seatbelts —

**SECURE**

11. Touchdown — **SLIGHTLY TAIL LOW**

12. Brakes — **APPLY HEAVILY**

**PRECAUTIONARY LANDING WITH POWER**

1. Wing Flaps — **20 DEGREES**

2. Airspeed — **70 MPH**

3. Selected Field — **FLY OVER**

4. Avionics and Electrical Switches — **OFF**

5. Flaps — **40 DEGREES (final approach)**

7. Airspeed — **70 MPH**

8. Master Switch — **OFF**

9. Doors — **UNLATCHED**

10. Touchdown — **SLIGHTLY TAIL LOW**

11. Ignition Switch — **OFF**

12. Brakes — **APPLY HEAVILY**

**ROUGH RUNNING ENGINE**

1. Mixture — **LEAN OR ENRICHEN**

2. Ignition Switch — **CYCLE MAGNETOS**

**LEFT, RIGHT, BOTH**

3. Reduce Climb Rate For Better Cooling

4. If Not Recovered — **LAND AS SOON**

**AS PRACTICAL**

**EXCESSIVE RATE OF CHARGE**

1. Alternator — **OFF**

2. Nonessential Electrical Equipment —

**OFF**

3. Flight — **TERMINATE ASAP**

**CESSNA 172M EMERGENCY CHECKLIST**

**BEFORE STARTING ENGINE**

1. Preflight Inspection — **COMPLETE**

2. Passenger Briefing — **COMPLETE**

3. Seats, Belts, Harnesses — **ADJUST**

4. Fuel Selector Valve — **BOTH**

5. Avionics Master Switch -- **OFF**

6. Brakes – **TEST AND SET**

7. Circuit Breakers – **CHECKED IN**

8. Carburetor Heat – **OFF**

9. Beacon Light – **ON**

10. Navigation Lights – **AS REQUIRED**

**STARTING ENGINE**

1. Primer – **AS REQUIRED**

2. Throttle – **OPEN ¼ INCH**

3. Mixture – **FULL RICH**

4. Propeller Area -- **CLEAR**

5. Master Switch -- **ON**

6. Ignition Switch -- **START**

7. Oil Pressure -- **CHECK**

8. Throttle – **800-1000 RPM**

9. Wing Flaps -- **UP**

10. Avionics Master Switch -- **ON**

11. Transponder – **ALT (1200)**

**TAXI**

1. ATIS – **NOTED**
2. Taxi Clearance – **RECEIVED**
3. Brakes -- **TESTED**

**BEFORE TAKEOFF**

1. Parking Brake — **SET**

2. Passenger Seat Backs — **UPRIGHT**

3. Seats And Seatbelts — **SECURE**

4. Cabin Doors — **CLOSED AND**

**LOCKED**

5. Flt. Controls — **FREE AND CORRECT**

6. Flt. Instruments —**CHECK AND SET**

7. Fuel Quantity — **CHECKED**

8. Fuel Selector Valve — **BOTH**

9. Mixture — **RICH**

10. Elevator Trim — **SET FOR TAKEOFF**

11. Throttle — **1700 RPM**

a. Magnetos — **CHECK MAX DROP**

**125 RPM —**  **50 RPM DIFF**

b. Carburetor Heat -- CHECK

c. Engine Instruments — **CHECK**

d. Ammeter — **CHECK**

e. Suction Guage —  **CHECK**

12. Throttle – **CHECK IDLE**

12. Throttle — **1000 RPM (or less)**

13. Takeoff Briefing**—COMPLETE**

**CESSNA 172M CHECKLIST**