

Cessna 172M Checklist

N80790

Preflight

Cabin

1. **ARROW** ----- ON BOARD
2. Control Lock ----- REMOVE
3. Ignition Switch ----- OFF
4. Avionics & Electrical Switches ----- OFF
5. Master Switch ----- ON
6. Fuel Quantity ----- CHECK
7. A/C Lights ----- CHECK BEACON/STROBES
(CHECK ALL FOR NIGHT FLIGHT)
8. Flaps ----- DOWN
9. Master ----- OFF
10. Fire Extinguisher ----- CHECK
11. Hobbs Time ----- RECORD

Empenage

1. Left Fuel Tank Sump ----- DRAIN & CHECK
2. Baggage Door ----- CHECK
3. Left Side of Fuselage ----- CHECK
4. Left Horizontal Stabilizer ----- CHECK SECURE
5. Left Elevator ----- CHECK FREE AND SECURE
6. Vertical Stabilizer ----- CHECK SECURE
7. Rudder ----- CHECK FREE AND SECURE
8. Tail Tie-down ----- REMOVE
9. Nav Light and Beacon ----- CHECK
10. Right Horizontal Stabilizer ----- CHECK SECURE
11. Right Elevator, Trim Tab -- FREE AND SECURE
12. Right Side of Fuselage ----- CHECK
13. Antennas ----- CHECK SECURE

Right Wing

1. Right Fuel Sump ----- DRAIN & CHECK
2. Flaps ----- CHECK
3. Aileron ----- CHECK
4. Wing Tip ----- CHECK
5. Leading Edge ----- CHECK
6. Right Wing Tie-down ----- REMOVE
7. Right Wheel, Tire, Brake Lines ----- CHECK
8. Right Fuel Tank --- QUANTITY, SECURE CAP

Nose

1. Oil ----- CHECK (N80790 6-8 qt's)
2. Fuel Strainer ----- DRAIN & CHECK
3. Nose Wheel Strut ----- EXTENSION 2" -4"
----- LINKS SECURE
4. Shimmy Damper ----- CHECK
5. Tire ----- CHECK INFLATION & WEAR
6. Air Filter ----- CHECK CLEAN
7. Propeller and Spinner ----- CHECK
8. Alternator Belt ----- CHECK
9. Cowling, Windshield ----- CHECK
10. Static Port ----- CHECK CLEAR

Left Wing

1. Left Fuel Tank ----- QUANTITY, SECURE CAP
2. Leading Edge ----- CHECK
3. Pitot Tube ----- CHECK CLEAR
4. Stall Warning Horn ----- CHECK CLEAR
5. Fuel Vent ----- CHECK CLEAR
6. Left Wing Tie-down ----- REMOVE
7. Wing Tip ----- CHECK
8. Aileron ----- CHECK FREE & SECURE
9. Flaps ----- CHECK FREE & SECURE
10. Left Wheel, Tire, Brake Lines ----- CHECK

Engine Start

1. Seats & Seatbelts ----- ADJUST & SECURE
2. Brakes ----- SET
3. Passengers ----- BRIEF
4. Fuel Selector ----- BOTH
5. Mixture ----- FULL RICH
6. Throttle ----- OPEN ¼ INCH
7. Carb Heat ----- OFF
8. Lights and Avionics ----- OFF
9. Beacon ----- ON
10. Circuit Breakers ----- CHECK ALL IN
11. Primer ----- AS REQUIRED
12. Master Switch ----- ON
13. Propeller Area ----- CHECK & CALL CLEAR
14. Ignition Switch ----- START AND RELEASE

NOTE: Do not crank starter for more than 10 seconds

15. Throttle -----1000 RPM
16. Oil Pressure ----- CHECK in GREEN
17. Ammeter ----- CHECK NORMAL CHARGE
18. Mixture ----- LEAN FOR TAXI (1 inch)
19. Flaps ----- UP
20. Avionics Switches ----- ON
21. Transponder ----- STANDBY / SQUAWK 1200
22. ATIS ----- CHECK (KSAF 128.55)
23. Altimeter ----- SET
24. Ground Control ----- REQUEST TAXI
25. Brakes ----- RELEASE & TEST

Pre Takeoff

1. Aircraft ----- INTO WIND
2. Nose Wheel ----- STRAIGHT
3. Parking Brake ----- SET
4. Flight Controls ----- CHECK FREE & CORRECT
5. Fuel Selector ----- RE-CHECK "BOTH"
6. Elevator Trim ----- SET FOR TAKE-OFF
7. Throttle ----- 1800 RPM
8. Mixture ----- LEAN (ABOVE 3000')
9. Carb Heat ----- CHECK
10. Magnetos ----- CHECK (Max Drop 175 - Diff 50)
11. Primer ----- CHECK IN & LOCKED
12. Ammeter ----- CHECK
13. Engine Instruments ----- CHECK
14. Vacuum Gauge ----- CHECK
15. Throttle ----- 1000 RPM

16. Flight instruments ----- CHECK & SET
17. Radios & Avionics ----- SET
18. Transponder ----- Mode C (ALT)
19. Aircraft Lights ----- ON (As Needed)
20. Flaps ----- AS NEEDED
21. Doors, Windows, Seats & Seat Belts - SECURE
22. Takeoff Briefing ----- COMPLETE
23. Parking Brake ----- RELEASE
24. Tower ----- REQUEST TAKEOFF (KSAF 119.50)
25. Traffic ----- CHECK
26. Takeoff Time ----- NOTE

IN FLIGHT

Takeoff

1. Flaps ----- UP (or as needed)
2. Carb Heat ----- COLD
3. Throttle ----- FULL OPEN
4. Rotate ----- 55 KIAS
(Short Field) ----- (As planned)
(Soft Field) ----- (As soon as possible)
5. Climb ----- 70 KIAS
(Short Field) ----- (As planned)
(Soft Field) ----- (55 KIAS or more)
6. **WHAT IF**

Pre-Landing

1. Gas ----- BOTH TANKS, GAS IN THE TANKS
2. Undercarriage ----- DOWN
3. Mixture ----- AS REQUIRED
4. Prop and Power ----- SET
5. Seats and Safety Belts ----- SECURE
6. Speed ----- TRIMMED

Landing

1. Approach: Flaps 10° ----- 70 KIAS
Flaps 20° ----- 65 KIAS
Flaps 30° ----- 60—65 KIAS
2. Touch down ----- MAIN WHEELS FIRST

Cruise

1. Power ----- AS DESIRED
2. Trim ----- LEVEL FLIGHT
3. Mixture ----- AS REQUIRED
4. Flight instruments ----- CHECK & SET

Descent

1. Mixture ----- ADJUST FOR SMOOTH OPERATION
2. Power ----- AS REQUIRED
3. Landing/Taxi Lights ----- ON
4. ATIS ----- CHECK (KSAF 128.55)
5. ATC or CTAF ----- Contact
(DISTANCE, DIRECTION, ALTITUDE, ATIS, INTENTIONS)
6. Approach / Pattern ----- BRIEF

After Landing & Shut Down

After Landing

1. Runway ----- CLEAR
2. Flaps ----- UP
3. Carb Heat ----- OFF
4. Landing Lights / Strobes ----- OFF
5. Transponder ----- STANDBY
6. Ground Control ----- CONTACT

(if required for taxi instructions)

Shut Down

1. Throttle -----1000 RPM
2. Avionics ----- OFF
3. Mixture ----- IDLE CUT-OFF
4. Electrical Switches ----- OFF
5. Ignition ----- OFF
6. Master Switch ----- OFF
7. Control Lock ----- INSTALL
8. Secure Aircraft ----- TIE DOWN / CHOCKS
9. Hobbs Time ----- RECORD

Final Check:

- Electrical Switches -----CHECK OFF
- Control Locks ----- INSTALLED
- Parking Brake ----- SET
- Fuel Selector ----- L or R
- Pitot Cover ----- INSTALL
- Clean Aircraft ----- TRASH & POSSESSIONS
- Doors ----- LOCK
- Key ----- IN BOOK

Aircraft V-speeds

(Sea level, gross weight unless indicated)

V _{so} (Stall Speed Landing)-	41 KIAS
V _s (Stall Speed Clean)-	47 KIAS
V _R (Rotation for Takeoff)	55 KIAS
V _x (Best Climb Angle)	59 KIAS
V _y (Best Climb Rate)	73 KIAS
V _{fe} (Max Flap Extended)	85 KIAS
V _A (Maneuvering) 2300 lb	97 KIAS
1950 lb	89 KIAS
1600 lb	80 KIAS
V _{no} (Max Structural Cruise)	128 KIAS
V _{NE} (Never Exceed Speed)	160 KIAS
Best Glide Speed	65 KIAS
Demonstrated Crosswind Velocity	15 Kt

Engine Failures

Fires

Engine Failure During Flight

1. Glide Speed ----- TRIM TO 65 KIAS
2. Landing Site ----- SELECT
(Best Spot & Winds)
3. Fuel Selector ----- BOTH
4. Mixture ----- FULL RICH
5. Throttle ----- MOVE
6. Carb Heat ----- ON
7. Ignition ----- L - R - BOTH
8. Primer ----- IN AND LOCKED

Forced Landing W/O Power

1. Seatbelts ----- CHECK TIGHT
2. Squawk ----- 7700
3. MayDay ----- CURRENT FREQ.
or 121.5
4. Passengers ----- BRIEF
5. Fuel Selector ----- OFF
6. Mixture ----- PULL OFF
7. Ignition ----- OFF
8. Doors ----- UNLATCHED
9. Flaps ----- AS NEEDED
(40° recommended)
10. Trim ----- TAKEOFF SETTING
11. Master ----- OFF
(when landing assured)

Land into wind if possible.

Engine Fire

1. Mixture ----- IDLE CUT-OFF
2. Fuel Selector Valve ----- TURN OFF
3. Master Switch ----- OFF
4. Cabin Heat & Air ----- OFF
(Except Overhead Vents)
5. Airspeed ----- 100 KIAS
(If fire is not extinguished, increase glide speed to find airspeed which will provide incombustible mixture.)
6. Forced Landing W/O Power --- EXECUTE

Electrical Fire In Flight

1. Master Switch ----- OFF
2. All Other Switches (Except Ignition) ----- OFF
3. Cabin Air Vents / Heat ----- CLOSED
4. Fire Extinguisher ----- ACTIVATE

WARNING

After discharging extinguisher, ventilate the cabin.

- If fire appears out and electrical power is necessary
5. Master Switch ----- ON
 6. Circuit Breakers ----- CHECK
 7. Radio/Electrical Switches ----- DO NOT RESET ONLY
 8. Cabin Air Vents / Heat ----- OPEN
WHEN FIRE OUT

Cabin Fire

- 1. Master Switch -----OFF
- 2. Cabin Air Vents / Heat ----- CLOSED
- 3. Fire Extinguisher ----- ACTIVATE

WARNING

After discharging extinguisher, ventilate the cabin.

Land as soon as possible to inspect for damage .

Wing Fire

- 1. Nav Lights -----OFF
- 2. Pitot Heat ----- OFF
- 3. Strobes -----OFF

Sideslip to keep the fire away from fuel tanks and cabin. Land as soon as possible using flaps only if necessary.

Electrical Problems

Over Voltage Light

- 1. Avionics Switch ----- OFF
- 2. Alternator Circuit Breaker ----- CHECK IN
- 3. Master Switch ----- TURN OFF (Both Sides)
- 4. Master Switch ----- ON
- 5. Over Voltage Light ----- CHECK OFF
- 6. Avionics Switch ----- ON

If Over Voltage stays on

- 7. Alternator----- OFF
- 8. Non-essential Equipment ----- OFF
- 9. Flight ----- LAND AS SOON AS PRACTICAL

Ammeter Shows Excessive Charge

- 1. Alternator ----- OFF
- 2. Non-essential Equipment ----- OFF
- 3. Flight ----- LAND AS SOON AS PRACTICAL