

Cessna 172M Checklist

N9614H

NORMAL PROCEDURES

Limiting and Recommended Airspeeds

Va – Maneuvering Speed	_____	2300 lbs	97 KIAS
		1950 lbs	89 KIAS
		1600 lbs	80 KIAS
Vapp – Final Approach Speed	_____		55-65 KIAS
Vfe – Max Flap Extension Speed	_____		85 KIAS
Vne – Never Exceed Speed	_____		160 KIAS
Vno – Normal Op Speed	_____		128 KIAS
Vr – Rotation Speed	_____		55 KIAS
Vso – Stall Speed (Landing Config)	_____		41 KIAS
Vs1 – Stall Speed (Clean)	_____		47 KIAS
Vx – Best Angle of Climb Speed	_____		63 KIAS
Vy – Best Rate of Climb Speed	_____		73 KIAS
Best Enroute Rate of Climb Speed	_____		80 KIAS
Max Window Open Speed	_____		160 KIAS
Best Glide Speed	_____		65 KIAS

PREFLIGHT

CABIN

1. Hobbs / Tach _____ RECORD
2. Airworthiness Inspections _____ VERIFY CURRENT
3. AROW _____ CHECK
4. Control Wheel Lock _____ REMOVE
5. Ignition Switch _____ OFF
6. Avionics Switch _____ OFF
7. Electrical Equipment _____ OFF
8. Master Switch _____ ON
9. Fuel Quantity _____ CHECK
10. Lights (As Required) _____ CHECK
11. Wing Flaps _____ 40 DEGREES
12. Master Switch _____ OFF
13. Fuel Selector Valve _____ BOTH

FUSELAGE & EMPENNAGE

1. Baggage Door _____ LOCKED
2. Antennas _____ CHECK
3. Fuselage _____ CHECK
4. Elevator _____ CHECK
5. Rudder _____ CHECK
6. Lights _____ CHECK
7. Tie Down _____ REMOVE
8. Elevator & Trim Tab _____ CHECK
9. Fuselage _____ CHECK

RIGHT WING

1. Wing Flaps _____ CHECK
2. Aileron _____ CHECK
3. Lights & Wingtip _____ CHECK
4. Wing Leading Edge & Strut _____ CHECK
5. Fuel Quantity & Top of Wing _____ CHECK
6. Filler Cap _____ SECURE
7. Main Landing Gear, Tire & Brakes _____ CHECK
8. Chocks / Wing Tie Down _____ REMOVE
10. Fuel Tank Sump _____ DRAIN

NOSE

1. Windshield _____ CHECK
2. Oil Quantity _____ CHECK (5-8 quarts)
3. Fuel Strainer _____ DRAIN
4. Oil Door _____ SECURE
5. Cowling & Screws _____ CHECK
6. Exhaust Pipe _____ CHECK
7. Alternator Belt _____ CHECK
8. Propeller & Spinner _____ CHECK
9. Landing Light _____ CHECK
10. Air Filter _____ CHECK
11. Nose Strut & Tire _____ CHECK
12. Chock _____ REMOVE
13. Cowling & Screws _____ CHECK
14. Static Port _____ CHECK

LEFT WING

1. Fuel Quantity & Top of Wing_____CHECK
2. Filler Cap_____SECURE
3. Pitot Tube_____CHECK
4. Stall Warning_____CHECK
5. Fuel Tank Vent_____CHECK
6. Wing Leading Edge & Strut_____CHECK
7. Lights & Wingtip_____CHECK
8. Aileron_____CHECK
9. Wing Flaps_____CHECK
10. Fuel Tank Sump_____DRAIN
11. Main Landing Gear, Tire & Brakes_____CHECK
12. Chocks / Wing Tie Down_____REMOVE

BEFORE START

1. Preflight Inspection_____COMPLETE
2. Seats_____ADJUSTED & LOCKED
3. Seat Belts & Harnesses_____SECURE
4. Alternate Static Source_____IN
5. Electrical Equipment_____OFF
6. Circuit Breakers_____IN
7. Avionics Switch_____OFF
8. Passenger Briefing_____BRIEF
9. Doors_____CLOSED & LOCKED
10. Brakes_____HOLD

ENGINE START

1. Mixture_____FULL RICH
2. Throttle_____OPEN 1/4inch
3. Carb Heat_____OFF
4. Beacon_____ON
5. Primer_____0-4 STROKES
6. Master Switch_____ON
7. Propeller Area_____CLEAR & CHECK
8. Ignition Switch_____START
9. Throttle_____800 RPM
10. Oil Pressure_____CHECK
11. Ammeter_____CHECK

BEFORE TAXI

1. Wing Flaps_____0 DEGREES
2. Mixture_____LEAN AS REQUIRED
3. Position Lights_____ON (night ops)
4. Avionics Switch_____ON
5. Circuit Breakers_____CHECK
6. Throttle_____800 RPM
7. Transponder_____1200 & GRND
8. Radios & GPS_____SET & TEST
9. ATIS / AWOS_____OBTAIN
10. Altimeter_____SET
11. Directional Gyro_____SET

TAXI

1. Brakes _____ RELEASE & TEST
2. Flight Controls _____ SET FOR WIND
3. Taxi Clearance _____ RECEIVE
4. Flight Instruments _____ CHECK

Great Bend Airport Frequencies

AWOS	119.27
CTAF	122.80
KS City Center	124.40 or 118.80
FSS	122.50

BEFORE TAKEOFF

1. Nose Wheel _____ STRAIGHT
2. Brakes _____ HOLD
3. Seats, Belts & Harnesses _____ SECURE
4. Flight Controls _____ FREE & CORRECT
5. Trim _____ SET FOR TAKEOFF
6. Throttle _____ 1700 RPM
 - Mixture _____ SET FOR TAKEOFF (RICH OF PEAK)
 - Magnetos _____ CHECK (MAX 125 RPM DROP)
 - Ammeter _____ CHECK
 - Engine Instruments _____ CHECK
 - Suction Gauge _____ CHECK
 - Carb Heat _____ CHECK & ON
7. Throttle _____ IDLE
8. Carb Heat _____ OFF
9. Throttle Friction Lock _____ ADJUST
10. Flight Instruments _____ CHECK
11. Radios _____ SET
12. NAV & GPS _____ SET
13. Transponder _____ SQUAWK CODE & ZOOM SET
14. Emergency Procedures _____ BRIEF
15. Takeoff Briefing _____ REVIEW
16. Windows _____ CLOSED
17. Landing Light _____ ON
18. Takeoff Clearance _____ RECEIVE
19. Brakes _____ RELEASE

NORMAL TAKEOFF

1. Wing Flaps _____ 0 DEGREES
2. Carb Heat _____ OFF
3. Throttle _____ FULL OPEN
4. Engine Instruments _____ CHECK IN GREEN
5. Airspeed _____ ALIVE
6. Elevator _____ ROTATE @ 55 KIAS
7. Climb Speed _____ 70-80 KIAS

SHORT FIELD TAKEOFF

1. Wing Flaps _____ 0 DEGREES
2. Carb Heat _____ OFF
3. Brakes _____ HOLD
4. Throttle _____ FULL OPEN
5. Engine Instruments _____ CHECK IN GREEN
6. Brakes _____ RELEASE
7. Airspeed _____ ALIVE
8. Elevator _____ ROTATE @ 55 KIAS
9. Climb Speed _____ 59 KIAS
10. Climb Speed Above Obstacle _____ 70-80 KIAS

SOFT FIELD TAKEOFF

1. Wing Flaps _____ 10 DEGREES
2. Carb Heat _____ OFF
3. Elevator _____ TAIL LOW
4. Throttle _____ FULL OPEN
5. Engine Instruments _____ CHECK IN GREEN
6. Airspeed _____ ALIVE
7. Remain in Ground Effect _____ UNTIL 65 KIAS
8. Climb Speed _____ 70-80 KIAS
9. Wing Flaps _____ 0 DEGREES ABOVE 200FT AGL

CLIMB

1. Airspeed _____ 70-80 KIAS
2. Throttle _____ FULL RPM
3. Mixture _____ LEAN AS REQUIRED
4. Landing Light _____ OFF

CRUISE

1. Airspeed _____ ESTABLISH
2. Power _____ 2200-2600 RPM
3. Trim _____ ADJUST
4. Engine Instruments _____ MONITOR
5. Mixture _____ LEAN AS REQUIRED

DESCENT

1. Mixture _____ ADJUST
2. Throttle _____ AS REQUIRED
3. Carb Heat _____ AS NECESSARY
4. Weather / Approach Briefing _____ COMPLETE

BEFORE LANDING

1. C - Carb Heat _____ ON
2. G - Gas Fuel Selector _____ BOTH
3. U - Undercarriage _____ DOWN & LOCKED
4. M - Mixture _____ ADJUST (ENRICHEN)
5. P - Primer _____ IN & LOCKED
6. S - Seatbelts _____ SECURE
7. Airspeed _____ 70-80 KIAS
8. Wing Flaps _____ AS DESIRED

NORMAL LANDING

1. Airspeed _____ 60-65 KIAS
2. Wing Flaps _____ AS DESIRED
3. Touchdown _____ MAIN WHEELS FIRST
4. Landing Roll _____ LOWER NOSE WHEEL GENTLY
5. Brakes _____ MINIMUM REQUIRED
6. Back Pressure _____ APPLY

SHORT FIELD LANDING

1. Airspeed _____ 55 KIAS
2. Wing Flaps _____ 30-40 DEGREES
3. Touchdown _____ MAIN WHEELS FIRST
4. Brakes _____ APPLY AS NECESSARY
5. Wing Flaps _____ 0 DEGREES
6. Back Pressure _____ APPLY

SOFT FIELD LANDING

1. Airspeed _____ 60-65 KIAS
2. Wing Flaps _____ 20-30 DEGREES
3. Touchdown _____ MAIN WHEELS FIRST
4. Landing Roll _____ LOWER NOSE WHEEL GENTLY
5. Brakes _____ MINIMUM REQUIRED
6. Back Pressure _____ APPLY

CROSSWIND LANDING

1. Airspeed _____ 60-70 KIAS
2. Wing Flaps _____ MINIMUM REQUIRED
3. Drift Correction _____ WING LOW
4. Touchdown _____ MAIN WHEELS FIRST
USE RUDDER TO LAND STRAIGHT
5. Wing Flaps _____ 0 DEGREES
6. Brakes _____ AS REQUIRED
7. Control Wheel _____ AILERON INTO WIND

GO-AROUND

1. Throttle_____FULL OPEN
2. Carb Heat_____OFF
3. Wing Flaps_____RETRACT TO 20 DEGREES
4. Airspeed_____65 KIAS
5. Wing Flaps_____RETRACT TO 10 DEGREES
6. Wing Flaps_____RETRACT TO 0 DEGREES
ABOVE 200 FT AGL
7. Airspeed_____70-80 KIAS

AFTER LANDING

1. Wing Flaps_____0 DEGREES
2. Mixture_____LEAN FOR TAXI
3. Carb Heat_____OFF
4. Transponder_____GRND & 1200
5. Trim_____SET FOR TAKEOFF
6. Taxi_____BELOW 1000 RPM
7. Flight Controls_____SET FOR WIND

SHUTDOWN / SECURING AIRPLANE

1. Magneto Ground_____CHECK
2. Electrical Equipment____OFF (EXCEPT BEACON)
3. Avionics Switch_____OFF
4. Mixture_____IDLE-CUT OFF
5. Ignition Switch_____OFF
6. Master Switch_____OFF
7. Control Wheel Lock_____INSTALL
8. Hobbs / Tach_____RECORD
9. Window_____CLOSED
10. Wheel Chock & Tie Downs_____INSTALL

EMERGENCY PROCEDURES

ENGINE FAILURE DURING TAKEOFF

ON TAKEOFF ROLL

1. Throttle _____ IDLE
2. Braking _____ AS REQUIRED
3. Fuel Selector _____ OFF
4. Master Switch _____ OFF

AFTER TAKEOFF

1. Airspeed _____ 65 KIAS
2. Throttle _____ IDLE
3. Flaps _____ AS REQUIRED
4. Master Switch _____ OFF
5. Door _____ OPEN

Land Straight Ahead

ENGINE FAILURE DURING FLIGHT

1. AVIATE _____ FLY THE PLANE – 65 KIAS
2. NAVIGATE _____ FIND A LANDING SPOT
3. INVESTIGATE _____ RESTART PROCEDURE
 - Fuel Selector
 - Mixture
 - Throttle
 - Carb Heat
 - Ignition Switch
 - Primer
 - Engine Instruments
4. COMMUNICATE _____ 121.50
“Mayday, Mayday, Mayday, N9614H, Cessna 172,
Located ___ Engine failure with ___ people on board, ___
gallons of fuel, Aircraft is blue on white. Planning to
land ___”.
SQUAWK _____ 7700
5. SHUTDOWN _____ SEAT BELTS / FUEL OFF

EMERGENCY LANDING WITHOUT POWER

1. Airspeed _____ 65 KIAS
2. Fuel Selector _____ OFF
3. Mixture _____ IDLE CUTOFF
4. Ignition Switch _____ OFF
5. Seat Belts _____ SECURE
6. Doors _____ OPEN / UNLATCH
7. Radio Call _____ DECLARE EMERGENCY
8. Flaps _____ AS REQUIRED
9. Master Switch _____ OFF
10. Touchdown _____ TAIL LOW
11. Brakes _____ AS REQUIRED

EMERGENCY OFF AIRPORT LANDING WITH ENGINE POWER

1. Airspeed _____ 75 KIAS
2. Select Field _____ FLY OVER
3. Radio Call _____ DECLARE EMERGENCY
4. Flaps _____ AS REQUIRED
5. Airspeed _____ 65 KIAS
6. Seat Belts _____ SECURE
7. Doors _____ OPEN / UNLATCH
8. Master Switch _____ OFF
9. Touchdown _____ TAIL LOW
10. Brakes _____ AS REQUIRED
11. Ignition Switch _____ OFF
12. Fuel Selector _____ OFF

ENGINE FIRE DURING START

1. Starter Switch _____ CONTINUE CRANKING

If engine starts:

1. Throttle _____ 1700 RPM
(RUN FOR 2 MINUTES)
2. Fuel Selector _____ OFF
3. Mixture _____ IDLE CUTOFF
4. Ignition Switch _____ OFF
5. Master Switch _____ OFF
6. Evacuate
7. Fire _____ EXTINGUISH
8. Fire Damage _____ INSPECT

ENGINE FIRE IN FLIGHT

1. Fuel Selector _____ OFF
2. Mixture _____ IDLE CUTOFF
3. Throttle _____ CLOSED
4. Cabin Heat & Air _____ CLOSED
5. Master Switch _____ OFF
6. Airspeed _____ 95 KIAS
7. Bank Angle _____ 45 DEGREES
*IF FIRE IS NOT EXTINGUISHED, INCREASE GLIDE SPEED
TO FIND AN AIRSPEED WHICH WILL PROVIDE AN
INCOMBUSTIBLE MIXTURE*
8. Emergency Landing _____ EXECUTE

CABIN FIRE

1. Master Switch _____ OFF
2. Vents/ Cabin Air / Heat _____ CLOSED
3. Fire Extinguisher _____ EXTINGUISH

*After discharging an extinguisher within a closed
cabin, ventilate the cabin.*

Land as soon as practical to inspect for damage

ELECTRICAL FIRE

1. Master Switch_____OFF
2. Avionics Switch_____OFF
3. Electrical Equipment_____OFF
4. Vents / Cabin Air / Heat_____CLOSED
5. Fire Extinguisher___ACTIVATE AS NECESSARY

After discharging an extinguisher within a closed cabin, ventilate the cabin.

If fire appears out and electrical power is necessary for continuance of flight:

6. Master Switch_____ON BAT ONLY
7. Circuit Breakers_____CHECK – DO NOT RESET
8. Radios_____OFF
9. Avionics Switch_____ON
10. Radios / Electrical Equipment__ON-AS REQUIRED
11. Vents / Cabin Air / Heat_____OPEN

Land as soon as practical

WING FIRE

1. Master Switch_____OFF
2. Position Lights_____OFF
3. Pitot Heat_____OFF

Perform a side slip to keep the flames away from the fuel tank and cabin, and land as soon as practical,

4. Emergency Landing__EXECUTE AS NECESSARY

ELECTRICAL FAILURE

EXCESSIVE DISCHARGE:

1. Ammeter_____INDICATES DISCHARGE
2. Alternator Circuit Breakers_____CHECK
3. Master Switch_____CYCLE
4. Electrical Load_____REDUCE TO MINIMUM

BATTERY OVERCHARGE:

1. Ammeter___INDICATES EXCESSIVE CHARGE
2. Alternator_____OFF
3. Electrical Load_____REDUCE TO MINIMUM

HIGH OIL TEMPERATURE

1. Mixture_____ENRICH
2. Power_____REDUCE IF NECESSARY
3. Airspeed_____MAINTAIN ABOVE 85 KIAS

HIGH EXHAUST GAS TEMPERATURE

1. Mixture_____ENRICH
2. Power_____REDUCE IF NECESSARY

LOSS OF OIL PRESSURE

Land as soon as possible.

Initiate Engine Failure During Flight Procedure.

CARBUERETOR ICING

1. Carb Heat _____ FULL ON
Roughness will increase initially
 2. Throttle _____ FULL OPEN
 3. Mixture _____ ADJUST FOR MAX SMOOTHNESS
- When Ice is cleared:
4. Carb Heat _____ OFF
 5. Throttle _____ NORMAL CRUISE SETTING
 6. Mixture _____ ADJUST FOR CRUISE

GYRO SUCTION FAILURE

1. RPM _____ INCREASE TO 2400 RPM
2. Communication _____ ADVISE CONTROLLER
3. Flight Instruments _____ MONITOR ALL

OPEN DOOR IN FLIGHT

1. Airspeed _____ BELOW 85 KIAS
 2. Cabin Vents _____ CLOSE
 3. Opposite Window _____ OPEN
 4. Slip Airplane _____ FACING DOOR INTO WIND
 5. Door _____ CLOSE & LATCH
- If unable to close door, land as soon as practical*

SPIN RECOVERY

INTENTIONAL SPINS ARE PROHIBITED

1. Throttle _____ IDLE
2. Ailerons _____ NEUTRAL
3. Rudder _____ FULL OPPOSITE OF DIRECTION OF
ROTATION
4. Control Wheel _____ BRISKLY FULL FORWARD
5. Rudder _____ NEUTRAL WHEN ROTATION STOPS
6. Control Stick _____ BACK PRESSURE TO
RECOVER FROM DIVE

EMERGENCY DESCENT

1. Seat Belts _____ SECURE
2. Throttle _____ IDLE
3. Airspeed _____ MAINTAIN BELOW 128 KIAS
4. Bank Airplane _____ 40 TO 45 DEGREES

ICING

1. Pitot Heat _____ ON
2. TURN BACK AROUND or CHANGE ALTITUDE
3. Cabin Heat _____ ON
4. Throttle _____ FULL OPEN
5. Carb Heat _____ ON
6. Plan landing at nearest airport
7. Watch for higher stall speeds
8. Wing Flaps _____ 0 DEGREES
9. Approach Speed _____ 70 KIAS
10. Landing _____ NORMAL