

N11234

Aircraft: Cessna 172M • Revision: 21/05/2026

Preflight

Cockpit checks

Documents ON BOARD
First aid kit ON BOARD
Fire extinguisher CHECKED
ELT ARMED
Throttle IDLE
Mixture IDLE CUT OFF
Altimeter FIELD ELEVATION
Electrical switches OFF
Navigation lights ON
Alternate static air CHECKED
Battery switch ON
Fuel quantity CHECKED
Oil pressure / oil temp. CHECKED
Ammeter CHECKED
Circuit breakers CHECKED
Flaps 40°
Battery switch OFF

Before start

Walkaround COMPLETED
Engine intake covers CARGO
Passengers briefing COMPLETED
Fuel selector RIGHT
Mixture RICH
Carburetor heat COLD
Primer AS REQ'D
*2 ro 3 strokes if engine is cold
1 stroke if engine is warm*

Key IN

Start time NOTED

Battery switch ON
Beacon ON
Brakes APPLIED
Propeller area CLEAR
Throttle ½ INCH OPEN
Ignition switch START

Taxi

After start

Throttle 1,000 RPM
Oil pressure CHECKED
Alternator ON
Ammeter CHECKED
Radios SET
Transponder 1200 / STBY
Flaps UP / CHECKED
Fuel selector LEFT

Before Takeoff / Run-up

Run up

Brakes SET
Fuel selector BOTH
Oil press & temp CHECKED
Mixture RICH
Engine 1,700 RPM
Oil press. & temp. CHECKED
Suction CHECKED
Ammeter CHECKED
Mixture LEAN & CHKD
Magnetos R / L CHECKED
Carb heat ON / CHCK / OFF
Throttle IDLE
Engine 1,000 RPM

Before takeoff

Doors / window CLSD & LKD
Belts / harnesses ADJ & LKD
Cabin Air / Heat AS REQ
Fuel quantity CHECKED
Fuel selector BOTH
Primer LOCKED
Magnetos BOTH
Mixture FULL RICH
Friction lock SET
Flight controls FREE
Trim TAKEOFF
Flaps AS REQUIRED
Oil press. & temp. CHECKED
Autopilot OFF
Takeoff briefing REVISED

Takeoff

Lineup

Transponder ALT
Compass CHECKED
Directional gyro CHECKED
Time NOTED
Landing light ON

Climb / Cruise

After takeoff (at 400 feet AGL)

Oil pressure & temp. CHECKED
Flaps UP
Landing light OFF
Airspeed ▼ 80 KIAS



Level off / Cruise

Cruise power SET
Mixture LEAN AS REQ'D
Carburetor heat ON / OFF
Oil pressure & temp. CHECKED
Fuel quantity CHECKED
Directional gyro SET

Landing

Before landing

Safety belts FASTENED
Brakes DEPRESSED
Fuel selector BOTH
Mixture FULL RICH
Carb heat ON
Oil press & temp. CHECKED
Landing light ON
Autopilot OFF

After landing

Flaps UP
Carburetor heat COLD
Landing light AS REQUIRED
Transponder 1200 / STBY
Time down NOTED

Shutdown

Engine shutdown

Landing light OFF
121.5 MHz CHECKED
Throttle 1000 RPM
Dead mags CHECKED
Mixture IDLE CUT OFF
Magnetos
Battery & alternator OFF / OFF
switch
Electrical switches AS REQUIRED
Time NOTED
Flight plan CLOSED

Emergencies

Power Loss After Takeoff

Takeoff roll (runway left):

Land AHEAD
Throttle CLOSED
Braking MAX
Fuel selector OFF
Electrical OFF

No Runway - Below ~1000 AGL

Airspeed (best glide) 80 MPH - TRIM
Landing area AHEAD ($\pm 45^\circ$)
Fuel selector CHECK
Mixture CHECK / SET
Carb heat CHECK
Mags CHECK
Landing EXECUTE

No Runway - Above ~1000 AGL

Airspeed (best glide) 80 MPH - TRIM
Restart ATTEMPT
Turn INTO WIND (if able)
Return 180° TO RUNWAY (if able)

Power Loss In Flight

Airspeed (best glide) 80 MPH - TRIM
Landing area SELECT
Fly to TARGET
Fuel & engine gauges CHECK
Carb heat ON
Throttle 1/4"
Mixture CHECK / SET
Fuel selector BOTH
Mags ALL

No Restart - Prepare To Land

Best glide TO TARGET
Mixture IDLE CUT-OFF
Fuel selector OFF
Transponder 7700
Mayday TRANSMIT
When landing site secured
Airspeed 70 MPH - FULL FLAPS (if able)
Mags OFF
Alternator OFF
Master OFF
Doors UNLOCKED
Body ▼ PROTECT



Engine Fire During Start

Cranking CTN (few seconds)
If starts

Run engine FEW MINUTES
Shutdown NORMAL
Inspect REQUIRED

If no start

Mixture IDLE CUT-OFF
Fuel selector OFF
Throttle FULL OPEN
Cranking CTN (20s)
Master OFF
Mags OFF
Evacuate ASAP
Fire extinguisher USE

Engine Fire In Flight

Mixture IDLE CUT-OFF
Fuel selector OFF
Master OFF
Mags OFF
Airspeed 120 MPH
Cabin vents / heat CLOSED
Landing area SELECT
Airspeed / Slip AS REQ EXTGSH

Electrical Fire In Flight

Master OFF
Mags ON (engine running)
Cabin vents CLOSED
Fire extinguisher USE (if required)
Circuit breakers DO NOT RESET
After fire/smoke out
Master ON
Cabin vents OPEN

Icing

Pitot heat ON
Cabin heat / defrost MAX
Exit Icing CLIMB / DSND
Power MAX
Carb heat AS REQUIRED
Flaps NOT REMND
Land faster than normal if req.

Carburetor Icing

Carb heat ON
Throttle FULL OPEN
Mixture LEAN AS REQUIRED

After ice clears

Return to NORMAL OPS
Monitor icing CONTINUOUS

Quick reference

Aircraft Data

Empty Weight 1421.0 lb (644.6 kg)
EW Arm 39.60 in
EW Moment 56.285 (x1000 lb·in)
Max Gross Weight 2300 lb (1043.3 kg)
Useful Load 879.0 lb (398.7 kg)
Fuel Type 100LL
Fuel (usable) 38 gal / 228.0 lb (103.4 kg)
Payload @ full fuel 651.0 lb (295.3 kg)
Max Baggage 120 lb (54.4 kg)
Oil 8 qts (15 lb / 6.8 kg, min 6-7 qt)

Frequencies

Emergencies (Guard) 121.5
CZBA (Burlington) 123.5
CYFD (Brantford) 122.82
CYHM ATIS (Hamilton) 128.1
CYHM TWR (Hamilton) 125.0
CYKF ATIS (Waterloo) 125.1
CYKF TWR (Waterloo) 126.0
CYYZ (Terminal) 119.3 / 133.4
Flight Service 123.27 / (FISE/RCO) 126.7
CTAF 122.925 / 123.025 / (Uncontrolled) 122.9

Speeds (MPH CAS) - Normal Operation (POH)

Stall Speed (power OFF, flaps UP) 57 MPH
Stall Speed (power OFF, flaps DOWN) 49 MPH
Rotation / Lift nose wheel 60 MPH
Best Angle of Climb (Vx) 68 MPH
Best Rate of Climb (Vy) 75 MPH
Normal Climb 75-85 MPH
Enroute Climb 80-90 MPH
Approach (flaps UP) 70-80 MPH
Approach (flaps DOWN) 65-75 MPH
Maximum Flaps Extended (Vfe) 100 MPH
Maneuvering Speed (Va @ max gross) 112 MPH
Maximum Structural Cruising (Vno) 145 MPH
Never Exceed (Vne) 182 MPH