N13243 CHECK LIST

1974 CESSNA 172M



IMPORTANT

This checklist is not an authoritative document. Full reference must be made to the individual aircraft FLIGHT MANUAL / PILOT OPERATING HANDBOOK as amended.

Current FAA, DFS and local procedures may also be relevant.

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CABIN

OABIN	
1. Aircraft Documents & Flight Plann	ing ON BOARD
Weather Report	ON BOARD
Runway Lengths	DETERMINED
Emergency Equipment	ON BOARD
5. Hobbs and Tach readings in greer	n book NOTE
6. Control Lock	REMOVE
7. Ignition OFF, KEY OUT & O	N INSTRUMENT COWLING
8. Mixture, Throttle	CLOSED
All Electric Switches	OFF
Avionics Power Switch	OFF
Alternate Static Source	CHECK
12. Instruments, Glass, Compass	CHECK
13. Master Switch	ON
14. Fuel Gauges	CHECK QUANTITY
15. Amber Electronic Ignition Warning	Light CHECK ON
16. Flaps	DOWN
17. Beacon and Lights for Night Operation	ation CHECK
18. Documents in blue book (ARROW	ON BOARD
19. Pitot Heat	CHECK
20. All Electrics	OFF
21. Master Switch	OFF
22. Fuel Selector Valve	ВОТН

EXTERIOR

Left (Port) Side

Empennage
 Baggage Door
 VISUALLY CHECK
 SECURED

Tail Section

Tail Tie-down
 Control Surfaces – movement, bolts
 CHECK

Right (Starboard) Side

1. Empennage VISUALLY CHECK

Right Wing	
1. Chocks, Wing Tie-down	REMOVE
Flap – bolts, fixing, movement, actuator rod	CHECK
3. Aileron – bolts, balance weights, movement	CHECK
	CHECK
4. Wing Tip – lights, strobes	
5. Wing Leading edge	CHECK
6. Wing Fuel Sump Strainer – check for contami	
7. Fuel Quantity (dip stick available in pouch) VIS	SUALLY CHECK
8. Fuel Filler Cap Secured	CHECK
9. Wing Upper surface & Antennaes	CHECK
10. Tyre, Brakes – 29 PSI	CHECK
•	
Nose Section	
1. Oil Quantity >6 qts (6 - 8 qts)	CHECK
2. Fuel Strainer – check for contamination	DRAIN
(with selector turned to left and right positions)	
`	SUALLY CHECK
4. Describes 9 Onleans and also said as switter	

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3.	Engine Compartment	VISUALLY CHECK
4.	Propellor & Spinner – nicks and security	CHECK
5.	Landing Lights	CHECK
6.	Cowl Plugs, Chocks & Tow Bar	REMOVE
7.	Alternator Belt & Engine Compartment from	front CHECK
8.	Carburetor Air Filter - obstructions, cleanlin	ess CHECK
9.	Nosewheel strut - function and steering roo	ls CHECK
10.	. Tyre – Inflation 31 PSI	CHECK
11.	. Static Port	CLEAR
12.	. External Power Socket cover	SECURE

Let	ft Wing	
1.	Fuel Quantity (dip stick available in pouch) VISUAL	LY CHECK
2.	Fuel Filler Cap Secured	CHECK
3.	Wing Upper surface & Antennaes	CHECK
4.	Pitot Tube, Fuel Vent, Stall Slot	CLEAR
5.	Wing Leading edge	CHECK
6.	Wing Tip – lights, strobes	CHECK
7.	Aileron – bolts, balance weights, movement	CHECK
8.	Flap – bolts, fixing, movement, actuator rod	CHECK
9.	Chocks, Wing Tie-down	REMOVE
10.	Wing Fuel Sump Strainer - check for contamination	n DRAIN
11.	Tyre, Brakes – 29 PSI	CHECK
12.	Baggage Door	SECURED

BEFORE STARTING ENGINE

Exterior Preflight Inspection	COMPLETE
2. All Seats, Belts, Shoulder Harness SE	T & SECURED
3. Passengers	BRIEFED
4. Brakes	SET
5. Circuit Breakers	CHECK IN
6. Autopilot	OFF
7. Alternate Static Source	OFF
8. Fuel Selector	ВОТН
9. IFR Flights from Egelsbach REQUEST STARTU	_
10. Radio, Avionic Master Switch	OFF
11. Mixture	RICH
12. Carburetor Heat	COLD/OFF
13. Throttle	PEN 1/8 INCH
	AS REQUIRED
,	AND LOCKED
16. Beacon	ON
17. Master Switch	ON
18. Ammeter	TEST
19. Propeller Area	CLEAR
20. Starter ENGAGE UNTIL E	NGINE START
	DISENGAGED
22. Oil Pressure	CHECK
23. Electronic Ignition Light	CHECK OFF
24. Avionic Master Switch	ON
25. Radios, Avionics, Audio Panel and Intercomm	ON AND SET
26. Transponder (0021 Germany for VFR)	SBY
27. Engine Gauges	CHECK
28. Flaps	RETRACTED
29. Nav. Lights (night opr. only)	ON
	TO COMPASS
31. Parking Brake	CHECK OFF
32. Lean for Taxi CHECK DENSITY ALTITU	
33. Request taxi Using Radio #1 to check it works of	
(C172, People, Location, IFR/VFR, Dest.)	COPY

BEFORE TAXI

The following items shall be checked during Taxi. For obvious safety reasons, memorise them and work from memory only.

1. Brakes CHECK

2. Set Flight Controls FOR WIND

3. Magnetic CompassCHECK (FLUID FULL, SWINGS FREELY+10°)

4. Airspeed Indicator CHECK (ZERO)

5. Attitude Indicator CHECK (SET, MAX. 5° IN TURNS)

6. Turn Coordinator CHECK (SHOWS TURNS, RACE FULL; BALL)

7. Heading Indicator CHECK (SHOWS TURNS)

8. VSI CHECK (ZERO)

9. Altimeter CHECK (+/- 75')

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BEFORE TAKEOFF

1. Taxi Checks	COMPLETE
2. Point Prop. Blast away from ot	ther Planes & Property CHECK
3. Nosewheel Straight, Brakes	SET
4. Mixture	RICH
5. Throttle	1000 RPM
6. Fuel Selector	вотн
7. Fuel Quantity	CHECK
8. Primer	CLOSED AND LOCKED
9. Throttle	1700 RPM
10.Oil Pressure	CHECK
11.Suction	CHECK
12.Ammeter	CHECK
13. Magnetos, first Left then Right	
14.Carb. Heat ON / OFF	CHECK FOR DROP
15.Throttle	1000 RPM
16.Electronic Ignition Light	CHECK OFF
17.Throttle Friction Lock	ADJUST
18.Mixture	LEAN FOR T/O
19.Flight Controls	CHECK FREE AND CORRECT
20.Trim Wheel	FOR TAKEOFF
21.Flaps – 10 deg for soft field	AS REQUIRED
22. Flight Instruments (Heading In	
23.Radio and Avionics	FREQUENCIES SET
24.Doors and Windows	CLOSED AND LOCKED
25.Seat Belt and Shoulder Harne	
26.Brakes release; Taxi to Holdin	
Using Radio #2 to check it wor	
27.IFR Clearance	REQUEST AND COPY
28. Transponder (Double-Check S	,
29.Strobes	ON
30.Landing Light	ON
31.T/O-Brief (MPH: Vrot=60, Vx=	
32.Time	NOTE
33. Report Ready for Dep. (Exit Po	oint, Copy T/O Clearance) COPY

TAKE-OFF

Normal

Flaps – 0 degrees
 Carburettor Heat
 Power
 Engine Gauges + RPM
 Lift Nose Wheel
 Climb Speed
 SET
 COLD
 FULL THROTTLE
 CHECK
 60 MPH
 Climb Speed
 75 – 85 MPH

Maximum Performance

Flaps – 0 degrees
 Carburettor Heat
 Brakes
 Power
 Brakes
 FULL THROTTLE
 Brakes
 Airplane Attitude
 Climb Speed until obstacles cleared
 SET
 COLD
 APPLY
 FULL THROTTLE
 SLIGHTLY TAIL LOW
 68 MPH

ENROUTE CLIMB

Airspeed
 Throttle
 Mixture (may be leaned above 3000 ft.)
 80 – 90 MPH
 FULL OPEN
 FULL RICH

CRUISE

Power
 Elevator Trim
 Mixture
 Engine & Electr. Gauges
 Landing Light
 Circuit Breakers
 Autopilot – track / wing leveller
 SET (2200 - 2600 RPM)
 ADJUST
 ADJUST
 ADJUST
 CHECK MAX RPM
 CHECK
 OFF
 Circuit Breakers
 CHECK IN
 AS REQUIRED

DESCENT; BEFORE REACHING IAF

Approach Chart
 Approach Sequence and Missed Approach
 ATIS (if applicable)
 VORs, ILS, NDB, DME
 TURNED IN AND IDENTIFIED
 Tower Frequency
 Marker Beacon Receiver

CHECK AND ON

BEFORE LANDING CHECKLIST, REACHING FAF

1. Fuel Selector BOTH 2. Mixture **RICH** 3. Carb. Heat ON 4. Seat Belts and Shoulder Harnesses **SECURED** 5. Autopilot OFF 6. Landing Lights and Strobes ON 7. Airspeed - initial 90 MPH 8. Flaps SFT

GO AROUND, MISSED APPROACH

1. Power FULL
2. Carb. Heat COLD / OFF
3. Positive Rate of Climb ESTABLISH
4. Flaps RETRACT TO 20 °
5. FlapsUP SLOWLY AFTER REACHING SAFE ALT: AND 65 MPH
6. Radio REPORT
6. Landing Light OFF

EMERGENCY

ENGINE FAILURE

Best Glide Speed 80 Mph
 Carburettor Heat ON
 Look for Emergency Landing Field DECIDE

If time permits

4. Fuel Selector BOTH
5. Primer IN AND LOCKED
6. Master Switch CHECK ON
7. Mixture RICH
8. Throttle OPEN
9. Ignition RESTART

Restart unsucessfull, Emergency Landing

10.Radio last Frequ. 121,5 Emergecy freq. MAYDAY Who, Where, Situation

11.Transponder 7700SET12.Fuel SelectorOFF13.PrimerLOCKED14.IgnitionOFF15.ThrottleCLOSE16.MixtureIDLE CUT OFF17.Seat/Shoulder BeltsFASTENED

After final flap setting

18.Master Switch OFF 19.Doors OPEN NEAR GROUND

Emergencies by their nature are not standard, and this Check list can only provide a guide to the appropriate actions - In an Emergency:

PILOT JUDGEMENT SHOULD DICTATE PILOT ACTIONS

AFTER LANDING

Active Runway
 Flaps
 Carburettor Heat
 Strobes, Pitot Heat
 Transponder
 Trim
 Reset Neutral
 Reset Neutral
 Reset Neutral
 As Required

SHUTDOWN

1. Parking Brake **AS REQUIRED** 2. Throttle 1000 RPM 121.5 CHECK ELT 3. Radio 4. Radios and Avionics OFF 5. Avionics Master Switch OFF **IDLE CUT OFF** 6. Mixture 7. Magnetos **OFF OUT AND PLACED ON COWLING** 8. Key 9. Master Switch OFF 10.All Electric Switches OFF

SECURING

1. Hobbs and Tach NOTE 2. Control Lock **INSTALL** 3. Pitot Cover **INSTALL** 4. Front Window Heat Shield **INSTALL** 5. Cabin Air Vents (all 3) **CLOSE** 6. Belongings and Keys **REMOVED** 7. Master Switch **VERIFY OFF** 8. Windows and Doors (Luggage Door) **CLOSED** LOCKED 9. Doors 10. Chocks, Tie Down, Towing handle AS REQUIRED

11. Close Flight Plan if required

PERFORMANCE CHART

Registration	N13243
Туре	C172
Chart Date	22.3.02

Max. Weight	2300 lbs
Max. Weight	1045 kg
Fuel Gal L/R	19/19
Fuel Lits L/R	72/72
Cruise Gal/h	8,5
Climb Gal/h	13
Serv.Ceiling	13100'
Voltage	12 V

Speeds in	mph
Vne	182
Vno	145
Va	112
Vs flaps up	57(50ind)
Vso	49(40ind)
Vfe	100
Vx	68
Vy	91
Best Glide	80
Vr short field	55

