

N61737

1975 CESSNA 172M

PREFLIGHT

WX/WEIGHT/FP/AROW.....COMPLETE
TIES, LOCKS, CHOCKS.....REMOVED
PARKING BRAKE.....SET
IGNITION SWITCH.....OFF
MASTER.....ON

- FUEL GAUGES.....CHECK
- FLAPS.....EXTEND
- PITOT HEAT SWITCH.....ON/CHECK (IFR)
- STROBES/NAVS/LANDING.....ON/CHECK

PITOT/LIGHTS/MASTER.....OFF
TRIM.....TAKE OFF
FIRE EXTINGUISHER.....SECURE/GREEN
FUSELAGE / ANTENNAS.....CHECK
EMPENNAGE.....MOVEMENT & SECURITY
FLAPS: HINGES,PINS,NUTS.....SECURED
AILERONS: HINGES/MOVEMENT.....CHECK
WING SURFACES/LEADING EDGE.....CHECK
TIRES, LINES, BRAKES, STRUT.....CHECK
FUEL.....SUPPLY, SUMP, STRAIN
OIL.....6-8 QUARTS

- 8 IF LONG FLIGHT IS PLANNED

PROP CLEAN FROM NICKS & CUTS.....CHECK
ENGINE COMPARTMENT.....CLEAR
AIR FILTER.....CLEAN
STATIC/PITOT/DRAIN.....CLEAR
STALL WARNING VENT.....CLEAR
STORAGE.....LOCKED
HOBBS.....LOGGED

PASSENGER BRIEF: SAFEST

Seatbelts, Air vents, Fire extinguisher
Exits, Sick, Talking

PRE-START

SEAT BACK, TRACK & BELTS.....LOCK / ON
FUEL SELECTOR/VALVE.....ON/BOTH
LIGHTS/ELECTRICAL/RADIOS.....OFF
PARKING BRAKES.....TEST/SET
CIRCUIT BREAKERS.....IN

ENGINE START

MIXTURE.....RICH
CARB HEAT.....COLD (IN)
PRIME.....AS REQUIRED
THROTTLE.....OPEN % INCH
PROP.....CLEAR
MASTER.....ON
BEACON.....ON
IGNITION SWITCH.....START
ENGINE ENGAGES.....THROTTLE TO 1000 RPM
OIL PRESSURE.....IN THE GREEN
TIME.....NOTED

PRE-TAXI / TAXI

FLAPS.....RETRACTED
MIXTURE.....LEAN
RADIO/AVIONICS/TRANSPOUNDER.....ON/ALT
ATIS / ALTIMETER.....WITHIN 75'
LIGHTS.....AS REQUIRED
TAXI CALL.....RADIO TEST
BRAKES.....TEST
INSTRUMENTS.....CHECK

RUN UP

BRAKES.....SET/HOLD
LIGHTS.....AS REQ'D
CABIN DOORS.....LATCHED
INSTRUMENTS.....SET
FLIGHT CONTROLS.....FREE & CORRECT
TRIM.....TAKE OFF
MIXTURE.....RICH
THROTTLE.....1700 RPM
MAGS TEST.....DROP <125.....DIFF <50
CARB HEAT.....RPM DROP
AMMETER....."ZERO" +/- 1
SUCTION.....4.6-5.4 in. Hg
OIL PRESS/TEMP.....CHECK
FUEL TANKS.....CHECK
THROTTLE/LOCK.....IDLE CK / 1000

ABORT PLAN READY

ROLL BEFORE ROTATION: Any Anomaly

- Throttle Idle, Brake, Exit RWY

AFTER ROTATION W/USABLE: Engine Fail/Fire

- Throttle Idle, Land straight ahead

AFTER ROTATION, W/O USABLE, <1000: Vg 75 MPH, best spot 30° of nose, communicate, shut down, emg. landing
AFTER ROTATION >1000: Vg 75 MPH, standard rate turn back to the field

PRE-TAKE OFF

LIGHTS.....AS REQUIRED
INSTRUMENTS.....SET
TRANSPONDER.....ALT
TIME.....NOTED
TRIM.....SET FOR T/O
SEAT BELTS, DOORS, WINDOWS.....SECURED
BRAKE.....RELEASE

TAKE OFF

FLAPS.....UP
CARB HEAT.....COLD (IN)
THROTTLE.....FULL OPEN
INSTRUMENTS.....GREEN
AIRSPEED.....ALIVE
V_r.....60 MPH
V_y.....75-85 MPH

ENROUTE

CLIMB.....80-90 MPH
MIXTURE.....LEAN FOR ALTITUDE
CRUISE.....POWER 2200 to 2700 RPM (< 75%)
ELEVATOR TRIM.....ADJUST

PRE-DESCENT/LANDING

WX.....OBTAINED
ALTIMETER.....SET
RADIOS.....SET
NAV/GPS.....TUNE
SEATBELTS/DOORS/WINDOWS.....SECURE
MIXTURE.....RICH
AIRSPEED FLAPS UP.....70-80 MPH
FLAPS DOWN.....65-75 MPH

GO AROUND

THROTTLE.....FULL OPEN
CARB HEAT.....COLD
FLAPS.....Retract to 20°
AIRSPEED.....65-75 MPH
FLAPS.....RETRACT INCREMENTS.....65 & POS. RATE
TRIM.....AS REQUIRED

OPERATING SPEEDS: MPH

VNE	NEV.EXCEED	182	VG GLIDE	80
VNO	CRUISE	145	VSO STALL DIRTY	49
VA	MANEUVER	112	VS1 STALL	57
VR	ROTATE	60	VFE	70-80
VX		68	VFE 10° - 40°	65-75
VY		75-85	SHORT FLD 40°	70
CLIMB ENROUTE		80-90	XWIND	15

CLEAR RUNWAY

LIGHTS.....AS REQUIRED
CARB HEAT.....COLD
MIXTURE.....LEAN FOR TAXI
FLAPS.....RETRACTED
TRANSPONDER.....ALTITUDE
TRIM.....SET FOR T/O

SHUTDOWN

LIGHTS (EXCEPT BEACON).....OFF
AVIONICS.....OFF
MIXTURE, MAGS, MASTER, BEACON.....OFF

POST FLIGHT CHECK

HOBBS/TACH.....LOGGED
SQUAWKS.....LOGGED
WINDOWS.....CLEAN
CONTROL LOCK/BELTS.....SET
SHADE.....SET
TRASH/ITEMS.....REMOVED
TIES, LOCKS, CHALKS.....SECURE
DOORS.....LOCKED

A/C INFORMATION

MAX GROSS: 2300	BAGGAGE: 120
FUEL: 100LL BLUE CAPACITY P/TANK: 26 USEABLE P/TANK: 24	ELECTRICAL: 14v DC BATTERY: 12V ALTERNATOR: 60 AMP
OIL CAPACITY: 8 QTS OIL WEIGHT: 10W30 OR SAE 30 OR SAE 50	TIRE PRESSURE NOSE: 31PSI MAINS: 29 PSI
VACUUM: 4.5 - 5.4 in. Hg.	SERVICE CEILING: 13,100

EFFECTIVE 03-30-24

POWER LOSS IN FLIGHT / EMERGENCY LANDING

A: AIRSPEED: 80 MPH

B: BEST SPOT TO LAND WIND DIR/VELOCITY

C: CHECK ENGINE

- CARB HEAT.....ON
- FUEL SELECTOR.....BOTH
- MIXTURE.....RICH
- PRIMER.....IN/LOCKED
- MAGS.....CHECK

D: DECLARE EMERGENCY

- TWR, APP, Unicom.....121.5
- SQUAWK.....7700
- E.L.T.....ON

E: ENGINE SECURE

- FUEL SELECTOR.....OFF
- MIXTURE.....FULL CUT-OFF
- THROTTLE.....IDLE CUT-OFF
- FULL FLAPS.....WHEN FIELD ASSURED
- AVIONICS, MASTER, MAGS.....OFF
- SEAT BELTS/HARNESSES.....SECURE
- DOORS.....UNLATCH/PROP
- FORCE LAND.....PROTECT BODY

ENGINE FIRE START UP

NOT STARTED

THROTTLE.....OPEN
MIXTURE / FUEL / SELECTOR.....OFF
MAGS.....TURN 5 SECONDS & SHUTDOWN

STARTED

RUN A FEW MINUTES @ 1700 RPM

- DRAW FLAMES IN CYLINDER

MIXTURE / FUEL / SELECTOR.....OFF
EXTERNAL EXTINGUISHER

ENGINE FIRE IN FLIGHT

MIXTURE.....CUTOFF
FUEL SELECTOR.....OFF
SLIP OR EMERGENCY DESCENT (120 MPH).....EXT.FLAMES
MASTER/MAGS/ELECTRICAL.....OFF
CABIN HEAT/AIR.....OFF
IF FIRE NOT EXTINGUISHED.....INCREASE SPEED
FORCED LANDING (W/O POWER).....EXECUTE
ELECTRICAL

MASTER/ELECTRICAL.....OFF
CABIN HEAT/AIR.....OFF
DEFROSTER.....OFF

LAND AS SOON AS PRACTICAL

- IF FIRE OUT, TEST EACH ELECT. DEVICE
ONE AT A TIME

IF FIRE EXTINGUISHED, VENTILATE CABIN

IF NOT EXTINGUISHED: USE EXTINGUISHER, VENTILATE,
EMERGENCY LANDING
ENGINE

FUEL SELECTOR.....OFF
THROTTLE/MIXTURE.....IDLE/CUT-OFF
VENTS.....CLOSE
HEATER.....OFF

RADIO FAILURE

AUDIO PANEL.....ON
CIRCUIT BREAKERS.....IN
VOLUME.....CHECK
ALT. SWITCH.....RECYCLE