

50291 Checklist (C172M)



Before Start

NOSE-TIPS-TAIL-CHOCKS-AREA..... CLEAR
PREFLIGHT INSPECTION.....COMPLETE
PASSENGER BRIEF.....COMPLETE
Seats & Seatbelts, Air Vents, Fire Extinguisher, Exits & Emergency, Traffic Scanning & Talking, Your questions?
SEAT & SEAT BELTS ADJUST AND LOCK
CIRCUIT BREAKERSCHECK IN
ELECTRICAL SWITCHES..... OFF
IGNITION SWITCH..... OFF
AVIONICS MASTER SWITCH..... OFF
ALTERNATE STATIC SOURCE..... OFF
FUEL SELECTOR.....BOTH
CARB HEAT.....COLD
MASTER SWITCH.....ON
BEACON.....ON
NAV LIGHT.....(night only) ON
FUEL GAUGE / QTY.....CHECK / SUFFICIENT

Starting Engine

WARM ENGINE

MIXTURE.....RICH
THROTTLE.....1/4" OPEN
BRAKES HOLD
PROP AREA..... CLEAR
IGNITION..... START

COLD ENGINE

PRIMER..... 3 STROKES & LOCK
MIXTURE.....RICH
THROTTLE..... 1/4" OPEN
BRAKES HOLD
PROP AREA..... CLEAR
IGNITION..... START

WHEN ENGINE STARTS

THROTTLE..... 1000 RPM
OIL PRESSURECHECK GREEN
MIXTURE.....LEAN
THROTTLE..... 1000 RPM
FLAPS.....UP

After Start

AVIONICS MASTER SWITCH.....ON
HEADSETSON
COMS.....SET FREQS (WX/TWR/GND)
WEATHER.....CHECK
ALTIMETER..... SET
FLIGHT INSTRUMENTS.....CHECK
TRANSPONDER..... SET CODE / ALT MODE
GPSENTER WPT / FPL / APR AS REQ
NAVSSET / COURSE

Taxi

AIRPORT DIAGRAM.....OUT / AVAILABLE
LANDING & TAXI LIGHTS.....(Night/IFR)ON
TAXI AREA..... CLEAR
BRAKESCHECK
TAXI CLEARANCE.....OBTAIN / BRIEF
FLIGHT INSTRUMENTS...(TC/HI/MC)Check in turns.
MAINTAIN STERILE COCKPIT

Run Up

MIXTURE.....RICH / FULL FWD
THROTTLE..... 1700 RPM
MAGNETOSCHECK
(Drop should not exceed 125 RPM on either magneto or a difference of 50 RPM between the two.)
ENGINE INSTRUMENTS & AMMETER CHECK
SUCTION GAUGECHECK
CARB HEAT.....ON/CHECK DROP
CARB HEAT.....OFF
THROTTLE..... 1000 RPM
MIXTURE.....LEAN

EMERGENCY BRIEF

ENGINE FAILURE DURING TAKEOFF ROLL:

THROTTLE.....IDLE
BRAKES.....APPLY
FLAPS.....UP
IGNITION SWITCH.....OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF:

AIRSPEED.....LOWER NOSE & PITCH FOR BEST GLIDE
MIXTURE.....IDLE CUTOFF
FUEL SELECTOR VALVE..... OFF
IGNITION.....OFF
FLAPS.....AS NECESSARY
TIME PERMITTINGDECLARE AN EMERGENCY
BATTERY MASTER.....OFF
DO NOT ATTEMPT 180° TURN BELOW 1000AGL

Before Takeoff

FLIGHT CONTROLS FREE & CORRECT
FLIGHT INSTRUMENTS CHECK & SET
FUEL SELECTOR.....BOTH
TRIM.....SET T/O
FLAPS..... SET
GPS(As req. for departure) SET
HEADING INDICATOR..... SET

DEPARTURE BRIEF

Planned Altitude & Heading
Brief Departure Procedure..... COMPLETE
ENGINE INSTRUMENTSCHECK
SEATS POSITION.....LOCKED
SEAT BELT & SHOULDER HARNESS...FASTENED

FINAL ITEMS

DOORS & WINDOWSCLOSED & LOCKED
STROBE & LANDING LIGHT.....ON
TRAFFICCHECK
MIXTURE.....RICH
SET FRQ / CONTACT TWR.....CHECK

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After Takeoff (1000 AGL)

AIRSPEED..... 90 MPH
FLAPS.....UP
THROTTLE..... FULL
MIXTURE..... RICH BELOW 3000' MSL
LANDING LIGHT.....OFF

Cruise

POWER..... SET
ENGINE INSTRUMENTSCHECK
MIXTURE.....LEAN
MAG COMPASS / HI..... CHECK / SET

In-Range / Approach

WEATHER.....CHECK
ALTIMETER..... SET
IFR PRELIMINARY APPROACH BRIEF

- *Type of Approach / Airport Name / Frequencies*
- *Runway length / Lighting*
- *Field Elevation / Sector Altitude*
- *Highest Obstacle / Terrain Review*
- *NAV / Course / Minimums / Missed*
- *Crosswind Component*COMPLETE

HEADING INDICATOR TO COMPASS SET
FUEL SELECTOR.....BOTH
PARKING BRAKE..... CHECK RELEASED
LANDING LIGHTON
AIRPORT DIAGRAM (Keep available).....CHECK
SEAT BELTS FASTENED
CARB HEAT..... AS REQ
CALL TWR / CTAF.....10-15NM OUT

—WHEN DIRECT TO IAF OR VECTORED—

FLIGHT & NAV INSTRUMENTS..... SET/IDENT
GPS (As Required for Approach)..... SET
AIRSPEED..... 100 MPH

Before Landing Checklist

MIXTURE.....RICH
POWER.....SET
CARB HEAT.....ON
FLAPS.....AS REQ

After Landing

TRIM.....CENTERED
CARB HEAT.....OFF
FLAPS.....UP
MIXTURE.....LEAN
TAXI CLEARANCE..... OBTAIN & BRIEF

Shutdown/Terminate

TRANSPONDER.....1200
AVIONICS MASTEROFF
THROTTLE.....1000 RPM
MIXTURE.....CUTOFF
IGNITION SWITCH.....OFF
MASTER SWITCH.....OFF
ELECTRICAL SWITCHES.....OFF
RECORD TIMES.....COMPLETE
FLIGHT CONTROLSSECURE
TIEDOWN / CHOCKSECURE
PITOT GATOR.....INSTALL

V-Speeds

Vso.....54 MPH
Vs1.....61 MPH
Vr.....60 MPH
Vx (50 ft obst.)65 MPH
Vx75 MPH
Vg80 MPH
Vy (0'-10,000' MSL)..91-80 MPH
Vfe.....100 MPH
Va90-112 MPH
Vno145 MPH
Vne182 MPH

Local Frequencies

CLL ATIS126.85
CLL Ground128.70
CLL Tower118.50
HOU Departure.....134.30
Flight Service122.65
CFD123.00
RWV, LHB, 60R.....122.90
11R.....123.07

-Engine Failure During Flight-

AIRSPEED..... Vg 80 MPH
CARB HEAT.....ON
FLAPS.....UP
MIXTURE.....RICH
FUEL SELECTOR VALVE.....BOTH
PRIMER.....IN & LOCKED
MAGNETOSCHECK ALL

IF PROP NOT WINDMILLING

IGNITION SWITCH.....START
MAGNETOSCHECK ALL
DECLARE EMERGENCY

-Engine Fire In Flight-

DECLARE EMERGENCY

MIXTURE.....IDLE CUT OFF
FUEL SELECTOR VALVE.....OFF
MASTER SWITCH.....OFF
AIRSPEED.....120 MPH glide
CABIN HEAT & AIR.....OFF
IF FIRE PERSISTS.....INCREASE SPEED
DO NOT ATTEMPT ENGINE RESTART

-Emergency Landing No Engine Power-

LANDING AREASELECT & INSPECT
AIRSPEED.....Vg 80 MPH
MIXTURE.....CUTOFF
FUEL SELECTOR VALVE.....OFF
IGNITION & ELECTRICAL SWITCH.....OFF
FLAPS..... AS REQ
MASTER SWITCH.....OFF
DOORS(Prior to touchdown) UNLATCH
BRAKES APPLY HEAVILY

-Emergency Descent-

THROTTLE.....IDLE
DESCENDING TURNS.....30° 45° BANK
AIRSPEED.....120 MPH
DECLARE EMERGENCY