

CESSNA 172M

(1973-1976)

Vso	44KTS
Vs1	50KTS
Vr	55KTS
Vx	(62KTS@10,000') (SL) 64KTS
BEST GLIDE	(GROSS) 65KTS
Vy	(68KTS@10,000') (SL) 78KTS
Vfe	85KTS
Va	(GROSS) 97KTS
Vno	128KTS
Vne	160KTS

*MANEUVERING SPEED DECREASES AS AIRCRAFT WEIGHT DECREASES !

POWER PLANT DATA

LYCOMING	O-320
MAXIMUM GROSS WEIGHT	2300LBS
FUEL CONSUMPTION	9GPH

APPROACH SPEEDS

FLAPS UP	60-70KTS
FLAPS DOWN	55-65KTS

PRE-FLIGHT COCKPIT INSPECTION

DOCUMENTS	(ARROW) ON BOARD
MASTER SWITCH	ON
FUEL QUANTITY	(GAUGES) CHECK
FLAPS	DOWN
MASTER SWITCH	OFF
CONTROL LOCK	REMOVE

EXTERIOR INSPECTION

RIGHT WING	CHECK
(CONTROL SURFACES,FUEL QTY./SUMP DRAIN)	
RIGHT MAIN GEAR	CHECK
(STRUT,BOLTS,BRAKE LINES,TIRE COND.)	
ENGINE COMPARTMENT	CHECK
(FUEL STRAIN,OIL QTY./LEAKS,NESTS, BELT)	
NOSE GEAR(STRUT,TIRE,NUTS,BOLTS)	CHECK
PROPELLER	(NICK,DENTS,TIGHTNESS,ETC)
LEFT WING	CHECK
(CONTROL SURFACES,PITOT,FUEL QTY./SUMP)	
LEFT MAIN GEAR	CHECK
(STRUT,BOLTS,BRAKE LINES,TIRE COND.)	
FUSELAGE LEFT SIDE	(CONDITION) CHECK
TAIL SECTION(COND.HINGES,ETC.)	CHECK
FUSELAGE RIGHT SIDE	(COND) CHECK

BEFORE STARTING CHECKLIST

PARKING BRAKE	SET
SEATS / SEAT BELTS	SECURE
ELECTRICAL EQUIPMENT	OFF
CIRCUIT BREAKERS	IN
FUEL SELECTOR	FULLEST TANK / BOTH
MASTER SWITCH	ON
FLAPS	UP
AREA	CLEAR

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ENGINE STARTING CHECKLIST

MIXTURE	RICH
CARBURETOR HEAT	COLD / OFF
PRIME	AS REQUIRED
PRIMER	IN / LOCKED
THROTTLE	1 / 8" OPEN
AREA	CLEAR
MAGNETOS / STARTER	ON / ENGAGE
THROTTLE	ADJUST 800-1000RPM
BEACON	ON
OIL PRESSURE	CHECK
(ALLOW 30 SEC. / WARM - 60 SEC. / COLD)	
LIGHTS AS REQUIRED / AVIONICS SWITCH(S) ON	

BEFORE TAKE-OFF CHECKLIST

PARKING BRAKE	SET
DOORS / WINDOWS	CLOSED / LOCKED
FLIGHT CONTROLS	CHECK
FLIGHT INSTRUMENTS	CHECK / SET
(D.G.,ALT.(BAR.PRESS),ATT.IND.,RADIOS,ETC.)	
MIXTURE	AS REQUIRED / RICH
THROTTLE	1700RPM
MAGNETOS	CHECK
(MAXIMUM DROP 125RPM / MAXIMUM DIFF. 50RPM)	
CARBURETOR HEAT	CHECK
AMMETER(POSITIVE CHARGE)	CHECK
VACUUM	CHECK
THROTTLE	IDLE
ENGINE INSTRUMENTS	GREEN
TRIM	SET
TRANSPONDER	ALTITUDE
CLOCK / TIME OFF	SET / LOG

NORMAL TAKE-OFF

FLAPS	UP
MIXTURE / CARB.HEAT	AS REQ. / COLD
THROTTLE	MAXIMUM POWER
ROTATE	55KTS
CLIMB SPEED(BEST RATE)	(SL) 78KTS

SHORT FIELD TAKE-OFF

FLAPS	UP
BRAKES	APPLY FULL
MIXTURE / CARB.HEAT	AS REQ. / COLD
THROTTLE	MAXIMUM POWER
BRAKES	RELEASE
ROTATE	55KTS
CLIMB SPEED	64KTS

CRUISE CHECKLIST

HEADING / ALTITUDE	CHECK
POWER	AS REQUIRED
MIXTURE	(FUEL FLOW) ADJUST
TRIM	SET

DESCENT CHECKLIST

FLIGHT INSTRUMENTS SET
MIXTURE ADJUST
POWER AS REQUIRED
CARBURETOR HEAT AS REQUIRED / ON
FUEL SELECTOR FULLEST TANK / BOTH
RADIOS SET

(SET DESCENT SPEED TO ALLOW FOR TURBULENCE)
OBTAIN ATIS OR CURRENT AIRPORT WEATHER

PLAN A DESCENT RATE THAT WILL BE
COMFORTABLE FOR YOUR PASSENGERS !

BEFORE LANDING CHECKLIST

SEATS / SEAT BELTS SECURE
FUEL SELECTOR FULLEST TANK / BOTH
CARBURETOR HEAT ON
MIXTURE RICH / AS REQUIRED
LIGHTS AS REQUIRED

NORMAL LANDING

APPROACH SPEED (F/UP) 60-70KTS
APPROACH SPEED (F/DN) 55-65KTS

SHORT FIELD LANDING

APPROACH SPEED (W/POWER) 55KTS
FLAPS FULL
THROTTLE IDLE
(AFTER CLEARING ALL OBSTACLES)
TOUCHDOWN BRAKES FIRM
FLAPS RETRACT

BALKED LANDING PROCEDURES

THROTTLE FULL
CARBURETOR HEAT COLD / OFF
POSITIVE RATE OF CLIMB CHECK
FLAPS 20° / (SL) 55KTS
POSITIVE RATE OF CLIMB CHECK
FLAPS RETRACT
(AFTER CLEARING ALL OBSTACLES)

AFTER LANDING CHECKLIST

CLEAR OF RUNWAY THEN
FLAPS UP
CARBURETOR HEAT COLD / OFF
TRANSPONDER STANDBY
CONTACT GROUND CONTROL/ AIRPORT TRAFFIC

SHUT DOWN CHECKLIST

ELECTRICAL EQUIPMENT OFF
MIXTURE IDLE-CUTOFF
MAGNETOS OFF
MASTER SWITCH OFF
PARKING BRAKE SET
CONTROL LOCK INSTALL
AIRCRAFT SECURE / TIE DOWN

ENGINE FAILURE TAKE-OFF ROLL

THROTTLE CLOSED
BRAKES APPLY FULL
FLAPS RETRACT
MIXTURE IDLE-CUTOFF
MAGNETOS OFF
MASTER SWITCH OFF

ENGINE FAILURE AT TAKE-OFF

AIRSPPEED (FLAPS UP) 60-70KTS
..... (FLAPS DOWN) 55-65KTS
MIXTURE IDLE-CUTOFF
FUEL SELECTOR OFF
MAGNETOS OFF
FLAPS AS REQUIRED
MASTER SWITCH OFF
DOOR(S) AJAR

ENGINE FAILURE IN FLIGHT

TRIM FOR BEST GLIDE 65KTS
PICK SUITABLE LANDING SITE
FLY TOWARD LANDING SITE
CARBURETOR HEAT ON
MIXTURE RICH
FUEL SELECTOR ON
MAGNETOS ON / BOTH
IF NO RESTART OR AN OFF AIRPORT LANDING
BECOMES NECESSARY: 121.5 MAYDAY MAYDAY
MIX, MAGS, MASTER, FUEL SELECTOR OFF
SEATS / SEAT BELTS SECURE
SHARP OBJECTS STOW
DOORS AJAR
(OPEN DOORS SLIGHTLY JUST BEFORE TOUCHDOWN)

ENGINE FIRE DURING START UP

CRANKING CONTINUE
IF ENGINE STARTS :
THROTTLE 1800RPM
ENGINE SHUTDOWN
ENGINE INSPECT

IF ENGINE FAILS TO RESTART:

THROTTLE FULL OPEN
MIXTURE IDLE-CUTOFF
CRANKING CONTINUE
FIRE EXTINGUISHER OBTAIN / ARM
ENGINE SECURE
MAGNETOS OFF
MASTER SWITCH OFF
FUEL SELECTOR OFF

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