



Cessna C-172S (Nav III) Normal Checklist



BEFORE START

BRAKES	TEST & SET
PASSENGER BRIEFING	COMPLETE
SEATS	ADJUST & LOCK
SEATBELTS & HARNESSSES	FASTEN
AVIONICS BUS 1 & 2	OFF
ELECTRICAL EQUIPMENT	OFF
CIRCUIT BREAKERS	CHECK IN
FUEL SHUTOFF	(Full In) ON
FUEL SELECTOR	BOTH
STANDBY BATTERY	(Hold 10 seconds) TEST & ARM
ENGINE INDICATING SYSTEM	(No red "X") CHECK
BUS "M" VOLTS	(1.5 or less) CHECK
BUS "E" VOLTS	(24 or more) CHECK
BATT "S" AMPS	(Discharge) CHECK
STANDBY BATTERY ANNUNCIATOR	CHECK

STARTING ENGINE

(For "Hot" & "Flooded" starts, ref: POH Section 4)

MASTER SWITCH	ON
BEACON	ON
NAVIGATION LIGHTS	AS REQUIRED
THROTTLE	¼ INCH OPEN
MIXTURE	IDLE CUT-OFF
PRIME	AS REQUIRED

PROPELLER AREA CLEAR

MAGNETOS	START
MIXTURE	(As engine starts) FULL RICH
OIL PRESSURE	CHECK

BEFORE TAXI

BATT "M" AMPS	(Positive) CHECK
BATT "S" AMPS	(Positive) CHECK
LOW VOLTS ANNUNCIATOR	CHECK OFF
AVIONICS BUS 1 & 2	ON
FLAPS	RETRACT
MFD DATABASE	ACKNOWLEDGE
MIXTURE	(1200 / Max RPM / 1000) ADJUST
FLIGHT PLAN	BUILD & ACTIVATE
NAV	(VOR/WAAS as required) VERIFY
FUEL TOTALIZER	SET
RADIOS	SET
ATIS	COPY
ALTIMETERS	(PFD & Standby) SET
ALTITUDE SELECT	SET
TRANSPONDER	SET

TAXI

PARKING BRAKE	RELEASE
TAXI LIGHT	ON
BRAKES, NOSE STEERING & FLIGHT INST.	CHECK

ENGINE RUNUP

PARKING BRAKE	SET
TAXI LIGHT	OFF
MIXTURE	FULL RICH
THROTTLE	1800 RPM
MAGNETOS	(Max drop: 150, Max diff.: 50) CHECK
ENGINE INDICATORS	CHECK
VACUUM	CHECK
VOLTMETERS & AMMETERS	CHECK
ANNUNCIATORS	CHECK CLEAR
THROTTLE	IDLE THEN 1000 RPM
MIXTURE	ADJUST

BEFORE TAKEOFF

DOORS & WINDOWS	CLOSED & LOCKED
SEATBELTS & HARNESSSES	FASTENED & SECURED
MAGNETOS	BOTH
CABIN PWR 12V	OFF
FLIGHT CONTROLS	FREE & CORRECT
AUTOPILOT	ENGAGE
FLIGHT CONTROLS	CHECK
AUTOPILOT (With button on control wheel)	DISCONNECT
FLIGHT DIRECTOR	OFF
FLIGHT INSTRUMENTS	(PFD) CHECK
CDI SOFT KEY	SELECT NAV SOURCE
OIL PRESSURE & TEMPERATURE	CHECK
STANDBY FLIGHT INSTRUMENTS	CHECK
FLAPS	() SET
TRIM	SET
FUEL SELECTOR	BOTH
TAKEOFF BRIEFING	COMPLETE
RADIOS	SET
PITOT HEAT	AS REQUIRED

LANDING, TAXI & STROBE LIGHTS	ON
MIXTURE	FULL RICH

NORMAL TAKEOFF

THROTTLE	FULL OPEN
ROTATE	55 KIAS
CLIMB	V _r

SHORT FIELD TAKEOFF (Flaps 10)

BRAKES	HOLD
THROTTLE	FULL OPEN
BRAKES	RELEASE
ROTATE	() KIAS
CLIMB	() KIAS
FLAPS	(Above 300 AGL) RETRACT

CLIMB

AIRSPEED	70-85 KIAS
THROTTLE	FULL OPEN
MIXTURE	(Above 3000) ADJUST

CRUISE

TRIM	SET
POWER	2100-2700 RPM
MIXTURE	ADJUST
ENGINE INDICATORS	CHECK
VACUUM	CHECK
VOLTMETERS & AMMETERS	CHECK
LIGHTS	AS REQUIRED
FMS/GPS	REVIEW & BRIEF

DESCENT

LANDING LIGHT	ON
FUEL SELECTOR	BOTH
POWER	AS REQUIRED
MIXTURE	ADJUST
ALTIMETERS	(PFD & Standby) SET
ALTITUDE SELECT	SET
CDI SOFT KEY	SELECT NAV SOURCE
FMS/GPS	REVIEW & BRIEF

BEFORE LANDING

SEAT BACKS	MOST UPRIGHT
SEATBELTS & HARNESSSES	FASTENED & SECURE
FUEL SELECTOR	BOTH
MIXTURE	FULL RICH
LANDING & TAXI LIGHTS	ON
CABIN PWR 12V	OFF
AUTOPILOT	DISCONNECT
FLAPS	AS REQUIRED
(85 Downwind, 75 Base, 65 Final (61 Short Field @ MLW))	

AFTER LANDING (Clear of Runway)

RADIO	SET
LANDING LIGHT	OFF
TAXI LIGHT	ON
STROBE LIGHTS	OFF
PITOT HEAT	OFF
MIXTURE	ADJUST
FLAPS	RETRACT
TRIM	SET

SHUTDOWN

PARKING BRAKE	SET
TAXI LIGHT	OFF
ELT	MONITOR 121.50
AVIONICS BUS 1 & 2	OFF
THROTTLE	IDLE
MAGNETOS	CHECK
THROTTLE	1000 RPM
MIXTURE	IDLE CUT-OFF
MAGNETOS	OFF
MASTER SWITCH	OFF
TACH & HOBBS TIMES	RECORD
STANDBY BATTERY	OFF
CONTROL LOCK	INSTALL
FUEL SELECTOR	RIGHT TANK
CHOCKS	INSTALL
PITOT TUBE COVER	INSTALL
PARKING BRAKE	RELEASE
EXTERIOR	CHECK

PRE-MANEUVER

ALTITUDE	CHECK
AIRSPEED	95 or 105 KIAS
FUEL SELECTOR	BOTH
MIXTURE	ADJUST
LANDING LIGHT	ON
FLAPS	AS REQUIRED

SHORT FIELD T/O SPDS (ROT/OBST)

2550	51/56 KIAS
2400	48/54 KIAS
2200	44/50 KIAS

Revised: 16 February 2021

** To be used in conjunction with the POH**



C-172SP Emergency & Abnormal Checklist



ENGINE FAILURE (Before Rotation)

THROTTLE	IDLE
BRAKES	APPLY
MIXTURE	IDLE CUT-OFF
FLAPS	RETRACT
MAGNETOS	OFF
MASTER SWITCH	OFF
STANDBY BATTERY	OFF

ENGINE FAILURE (After Rotation)

AIRSPEED (Flaps up/down) 70/65 KIAS	
THROTTLE	IDLE
MIXTURE	IDLE CUT-OFF
FUEL SHUTOFF	(Pull Out) OFF
FLAPS	AS REQUIRED
MAGNETOS	OFF
MASTER SWITCH	OFF
STANDBY BATTERY	OFF
CABIN DOOR	UNLATCH
LAND	STRAIGHT AHEAD, AVOID OBSTACLES

ENGINE FAILURE (In Flight)

AIRSPEED 68 KIAS	
FUEL SELECTOR BOTH	
FUEL SHUTOFF (Full In) ON	
MIXTURE RICH	
FUEL PUMP ON	
MAGNETOS (START if propeller is not windmilling) BOTH	
(IF ENGINE DOES NOT START)	
FUEL PUMP	OFF
FORCED LANDING	EXECUTE

FORCED LANDING

AIRSPEED (Flaps up/down) 70/65 KIAS	
SEATS	MOST UPRIGHT
SEATBELTS & HARNESSSES	FASTEN & SECURE
FUEL SHUTOFF	(Pull Out) OFF
MIXTURE	IDLE CUT-OFF
RADIO	MAYDAY 121.50
MAGNETOS	OFF
STANDBY BATTERY	OFF
(LANDING ASSURED)	
FLAPS	AS REQUIRED
MASTER SWITCH	OFF
DOOR	UNLATCH
TOUCHDOWN	TAIL LOW
BRAKES	APPLY HEAVILY

ENGINE FIRE (During Start)

STARTER	CONTINUE CRANKING
(IF ENGINE STARTS)	
THROTTLE	(For a few minutes) 1800 RPM
ENGINE	SHUT DOWN, INSPECT
(IF ENGINE FAILS TO START)	
THROTTLE	FULL OPEN
MIXTURE	IDLE CUT-OFF
STARTER	CONTINUE CRANKING
FUEL SHUTOFF	(Pull Out) OFF
FUEL PUMP	OFF
MAGNETOS	OFF
MASTER SWITCH	OFF
STANDBY BATTERY	OFF
PARKING BRAKE	RELEASE
FIRE EXTINGUISHER	OBTAIN
AIRCRAFT	EVACUATE
FIRE	EXTINGUISH IF POSSIBLE
ENGINE	INSPECT

ENGINE FIRE (In Flight)

MIXTURE	IDLE CUTOFF
FUEL SHUTOFF	(Pull Out) OFF
FUEL PUMP	OFF
MASTER SWITCH	OFF
CABIN VENTS	OPEN
CABIN HEAT & AIR	OFF
AIRSPEED	100 KIAS
FORCED LANDING	EXECUTE

ELECTRICAL FIRE

STANDBY BATTERY	OFF
MASTER SWITCH	OFF
CABIN VENTS	CLOSED
CABIN HEAT & AIR	OFF
AVIONICS BUS 1 & 2	OFF
ELECTRICAL SWITCHES	OFF
FIRE EXTINGUISHER	ACTIVATE
(AFTER FIRE IS EXTINGUISHED)	
CABIN	VENTILATE
(IF ELECTRICAL POWER IS REQUIRED)	
CIRCUIT BREAKERS	(Do NOT Reset) CHECK
MASTER SWITCH	ON
STANDBY BATTERY	ON
AVIONICS BUS 1	ON
AVIONICS BUS 2	ON

CABIN FIRE

STANDBY BATTERY	OFF
MASTER SWITCH	OFF
CABIN VENTS	CLOSED
CABIN HEAT & AIR	OFF
FIRE EXTINGUISHER	ACTIVATE
(AFTER FIRE IS EXTINGUISHED)	
CABIN	VENTILATE
LAND	AS SOON AS POSSIBLE

WING FIRE

LANDING & TAXI LIGHTS	OFF
NAVIGATION LIGHTS	OFF
STROBE LIGHTS	OFF
PITOT HEAT	OFF
SIDESLIP	PERFORM AS REQUIRED
LAND	AS SOON AS POSSIBLE

LOW OIL PRESSURE

OIL PRESSURE INDICATOR	CHECK
(IF PRESSURE & TEMP ARE NORMAL)	
LAND	AT SOON AS POSSIBLE
(IF TEMPERATURE IS RED)	
THROTTLE	IDLE
FORCED LANDING	EXECUTE

HIGH VOLTS (Batt "M" AMPS 40+)

ALTERNATOR	OFF
AVIONICS BUS 1	OFF
EXTERNAL LIGHTS	OFF
PITOT HEAT	OFF
CABIN PWR 12V	OFF
AVIONICS BUS 2	OFF
LAND	AS SOON AS PRACTICAL

LOW VOLTS

BELOW 1000 RPM	
THROTTLE	1000 RPM
LOW VOLTS ANNUNCIATOR	CHECK OFF
ABOVE 1000 RPM	
ALTERNATOR	OFF
ALT FIELD CIRCUIT BREAKER	CHECK IN
ALTERNATOR	ON
LOW VOLTS ANNUNCIATOR	CHECK OFF
BUS "M" VOLTS	(Minimum 27.5) CHECK
BAT "M" AMPS	(Positive) CHECK

(CONTINUED)

(IF LOW VOLTS ANNUNCIATOR REMAINS)	
ALTERNATOR	OFF
AVIONICS BUS 1	OFF
EXTERNAL LIGHTS	OFF
PITOT HEAT	OFF
CABIN PWR 12V	OFF
AVIONICS BUS 2	OFF
LAND	AS SOON AS PRACTICAL

AUTOPILOT / ELECTRIC TRIM

(AP or PTRM Annunciators)	
CONTROL WHEEL	GRASP FIRMLY
A/P DISCONNECT	PRESS & HOLD
TRIM	ADJUST MANUALLY
AUTO PILOT CIRCUIT BREAKER	PULL OUT A/P DISCONNECT
	RELEASE

ADC FAILURE

RED "X" AIRSPEED INDICATOR	
ADC / AHRS CIRCUIT BREAKER	CHECK IN
(Only reset one time)	
STANDBY AIRSPEED INDICATOR	USE IF NEEDED
RED "X" ALTITUDE	
ADC / AHRS CIRCUIT BREAKER	CHECK IN
(Only reset one time)	
STANDBY ALTIMETER	USE IF NEEDED

AHRS FAILURE

RED "X" ATTITUDE INDICATOR	
ADC / AHRS CIRCUIT BREAKER	CHECK IN
(Only reset one time)	
STANDBY ATTITUDE INDICATOR	USE IF NEEDED
RED "X" HSI	
ADC / AHRS CIRCUIT BREAKER	CHECK IN
(Only reset one time)	
MAGNETIC COMPASS	USE IF NEEDED

NOTE

Items shown in **BOLD FACE** type are immediate action items which should be committed to memory.