



# 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	(0-10) 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 <sub>r</sub>

## SHORT FIELD TAKEOFF (Flaps 10)

BRAKES	HOLD
THROTTLE	FULL OPEN
BRAKES	RELEASE
ROTATE	(MTOW) 51 KIAS
CLIMB	(MTOW) 56 KIAS
FLAPS	(Above 300 AGL) RETRACT

## CLIMB

AIRPEED	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
PARKING BRAKE	RELEASE
EXTERIOR	CHECK

## PRE-MANEUVER

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

Revised: 24 August 2018

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



# C-172SP Emergency & Abnormal Checklist



## ENGINE FAILURE (Before Rotation)

<b>THROTTLE</b>	<b>IDLE</b>
<b>BRAKES</b>	<b>APPLY</b>
MIXTURE	IDLE CUT-OFF
FLAPS	RETRACT
MAGNETOS	OFF
MASTER SWITCH	OFF
STANDBY BATTERY	OFF

## ENGINE FAILURE (After Rotation)

<b>AIRSPEED (Flaps up/down) 70/65 KIAS</b>	
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)

<b>AIRSPEED</b>	<b>68 KIAS</b>
<b>FUEL SELECTOR</b>	<b>BOTH</b>
<b>FUEL SHUTOFF</b>	<b>(Full In) ON</b>
<b>MIXTURE</b>	<b>RICH</b>
<b>FUEL PUMP</b>	<b>ON</b>
MAGNETOS (START if propeller is not windmilling)	BOTH
<b>(IF ENGINE DOES NOT START)</b>	
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
<b>(LANDING ASSURED)</b>	
FLAPS	AS REQUIRED
MAIN SWITCH	OFF
DOOR	UNLATCH
TOUCHDOWN	TAIL LOW
BRAKES	APPLY HEAVILY

## ENGINE FIRE (During Start)

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

## ENGINE FIRE (In Flight)

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

## ELECTRICAL FIRE

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

## CABIN FIRE

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

## WING FIRE

<b>LANDING &amp; TAXI LIGHTS</b>	<b>OFF</b>
<b>NAVIGATION LIGHTS</b>	<b>OFF</b>
<b>STROBE LIGHTS</b>	<b>OFF</b>
<b>PITOT HEAT</b>	<b>OFF</b>
<b>SIDESLIP</b>	<b>PERFORM AS REQUIRED</b>
LAND	AS SOON AS POSSIBLE

## LOW OIL PRESSURE

<b>OIL PRESSURE INDICATOR</b>	<b>CHECK</b>
<b>(IF PRESSURE &amp; TEMP ARE NORMAL)</b>	
LAND	AT SOON AS POSSIBLE
<b>(IF TEMPERATURE IS RED)</b>	
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

<b>BELOW 1000 RPM</b>	
THROTTLE	1000 RPM
LOW VOLTS ANNUNCIATOR	CHECK OFF
<b>ABOVE 1000 RPM</b>	
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)

<b>(IF LOW VOLTS ANNUNCIATOR REMAINS)</b>	
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)	
<b>CONTROL WHEEL</b>	<b>GRASP FIRMLY</b>
<b>A/P DISCONNECT</b>	<b>PRESS &amp; HOLD</b>
<b>TRIM</b>	<b>ADJUST MANUALLY</b>
<b>AUTO PILOT CIRCUIT BREAKER</b>	<b>PULL OUT A/P</b>
DISCONNECT	RELEASE

## ADC FAILURE

RED "X" AIRSPEED INDICATOR	
ADC / AHRS CIRCUIT BREAKER	CHECK IN
(Only reset one time)	
STANDBY AIRSPEED INDICATOR	USE IF NEEDED
<b>RED "X" ALTITUDE</b>	
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
<b>RED "X" HSI</b>	
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.