

# CESSNA 172S CHECKLIST

## PREFLIGHT INSPECTION

Cowl plugs/pitot cover	remove/stow
Fire Extinguisher	secure/charged
First Aid Kit	stowed
Control Locks	removed & stowed
Trim	full travel/set takeoff
Flight Controls	free & correct
Electrical Equipment	off
Avionics Master	off
Magnetos	off
Master Switch	on
Beacon	on/check
Landing/Nav Lights	on/check/off
Avionics Master	on/check fan
Avionics Master	off
Fuel	check quantity
Fuel Shutoff Valve	on (push in)
Flaps	down in stages
Master Switch	off

## EXTERNAL CHECK as per C-172 POH

## BEFORE START ENGINE

Passenger Briefing	complete
Seats/Harnesses	adjusted & secure
Throttle Friction Lock	set
Fuel Selector	BOTH
Circuit Breakers	check
Master Switch	on
Interior Lights	on - night only
Navigation Lights	on - night only

## STARTING ENGINE

Fuel Selector	on both
Throttle	open 1/4 inch
Mixture	ICO
Toe Brakes	applied
Prop Area	call "CLEAR"

### Warm Start

Skip cold start procedure

### Cold Start

Aux Fuel Pump	on
Mixture:	
advance til fuel flow registers, then ICO	
Aux Fuel Pump	off
Mags	start
Mixture	advance when engine fires

## AFTER START

Throttle	1000 RPM
Oil Pressure	green/30 seconds
Avionics	on
Ammeter	charging
Flaps	up in stages
Flight Instruments	check/set
Transponder	STBY
ATIS	(CYKF - 125.10)

## TAXI CHECKS now or after run up

Grnd Clearance	(CYKF - 121.80)
Mixture	lean for taxi
Brakes	test
Flight Instruments	check
Take Off Briefing	

## RUN UP & BEFORE TAKEOFF CHECKS

Prop Blast Area	clear
Brakes	applied
Mixture	full rich
Throttle	1800 RPM
Engine Guages	green
Ammeter	electrical load check
Alternator	ff/check warning light/on
Circuit Breakers	check
Suction Gauge	green
Alternate Static	check
Magnetos (L/both/R/L/both):	

max drop 150/differential 50

Mixture	check
Throttle	idle
Throttle	1000 RPM

Engine Guages	green
Annunciator panel	test
Master Switch	on
Mags	on both
Mixture	full rich
Flaps	as required
Trim	set for take off
Fuel	confirm on BOTH
Flt Instruments & Nav Radios	set
Autopilot	off
Flight Controls	free & correct
Doors/Windows	closed/locked

## TAXI CHECKS

perform now if not done prior to run up

## HOLDING SHORT ACTIVE 126.0 clearance

mixture full rich

## LINE CHECK

Pitot Heat	as required
Transponder	ALT
Landing Light	on
Hdg Indicator	check RWY heading
Time Off	noted

## TAKE OFF

Flaps	as required
Throttle	full open
Mixture	rich
Elevator Control	lift nose wheel - 55 KIAS
Climb Speed	70-80 KIAS

## CLIMB - AFTER TAKEOFF 400'

Climb Speed	as required
Flaps	verify up
Landing light	off, or as required
Engine Gauges	green

## CRUISE CHECKS

Power	set as per POH
Engine Gauges	green
Mixture	lean as required
Airspeed	confirm/adjust pwr as req'd
Heading Ind	reset

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# Radio Failure Checks

1. Does the radio receive:
  - \* check ATIS
  - \* is the 0/5 switch in correct position
  - \* is the speaker/phone switch set
  - \* try speaker setting
  - \* is squelch turned up
2. Are the headset jacks in
3. Hand-Mike jack plugged all the way in
4. Is more than 1 radio selected at a time
5. Check the PTT switch is U/S
  - \* check by looking at the radio during transmission to see if the transmit indication illuminates
6. If the radio stops during flight, check the alternator is working by checking ammeter gauge

## CESSNA 172S CHECKLIST

### DESCENT

Mixture	Adjust
Altimeter	Set
Flaps	As Required

### BEFORE LANDING

Engine Gauges	green
Master Switch	on
Mags	both
Landing Light	on
Mixture	rich
Autopilot	off
Fuel	on both
Belts/Shoulder Harnesses	secure
Passenger Briefing	complete

### AFTER LANDING

Radios	Ground Frequency
Flaps	retract
Pitot Heat	off
Landing Light	off
Transponder	STBY/1200
Time Down	record
Mixture	lean for taxi
Ground Clearance	(CYKF -121.80)
Flight Plan	closed

### SHUTDOWN/SECURING

Throttle	1000 RPM
ELT - 121.50	check
Electrical Equipment	off
Avionics Master	off
Mags	L/both, R/both
Mixture	idle cut off
Magnetos	off
Master	off
Ctrl Lock/Plugs/Pitot Cover	install

CYKF ATIS	125.10
CYKF Ground	121.80
CYKF Tower	126.00
Common Freq N of CYKF	123.025
Common Freq S of CYKF	122.925
Common Freq E of CYYZ	122.90
Club Frequency	123.50

# C-172S Checklist - EMERGENCY

## ENGINE FAILURE (GROUND)

Throttle	idle
Braking	maximum
Flaps	up
Mixture	ico
Mags	off
Master switch	off

## ENGINE FAILURE (LIFT-OFF)

Airspeed	65 - 70 KIAS
Mixture	ico
Fuel Shutoff Valve	off (pull full out)
Mags	off
Flaps	as req'd (30" rec.)
Master switch	off
Doors	unlatch

## ENGINE FAILURE (CRUISE) FORCED

Airspeed	68 KIAS
Landing site	select
Engine	check no fire
<b>Cause Check:</b>	
Master Switch	on
Fuel	quantity
Mags	cycle, both
Fuel Shutoff Valve	on (push full in)
Fuel Selector	both
Aux Fuel Pump	on
Mixture	rich
Throttle	idle
Restart?	if prop stopped
Aux Fuel Pump	off
Radio	mayday call
Passengers	brief
<b>Shutdown:</b>	
Mixture	ico
Fuel Shutoff Valve	off (pull full out)
Throttle	idle
Mags	off
<b>When landing assured:</b>	
Flaps	as req'd (30" rec.)
Master Switch	off
Doors	unlatch

## CABIN FIRE

Master	off
Cabin air & heat	closed
Fire extinguisher	use
Cabin	ventilate
Land	asap

## WING FIRE

Exterior lights	off
Pitot heat	off
Sideslip away from burning wing	
Land	asap

## ENGINE FIRE (START)

Starter	continue cranking
Brakes	as req'd
<b>If engine starts:</b>	
Throttle	1800 rpm (2 min)
Shutdown	inspect a/c
<b>If engine doesn't start:</b>	
Throttle	full
Mixture	ico
Starter	continue cranking
Fuel Shutoff Valve	off (pull full out)
Aux Fuel Pump	off
Master switch	off
Mags	off
Parking brake	set
Evacuate A/C	
<b>USE HAND EXTINGUISHER</b>	

## ENGINE FIRE (IN FLIGHT)

Mixture	ico
Fuel Shutoff Valve	off (pull full out)
Aux Fuel Pump	off
Master switch	off
Airspeed	100+ KIAS
Forced landing	execute

## ELECTRICAL FIRE (FLIGHT)

Master switch	off
Cabin air/heat	closed
O/H vents	closed
Fire extinguisher	use
Avionics power	off
All other electrics	off
<b>If fire extinguished:</b>	
Cabin	ventilate
Master switch	on
Circuit breakers	check for fault
Radio switches	off
Avionics power	on
Radio/electrics	on one at a time
<b>If fire not extinguished:</b>	
Land	asap

## ELECTRICAL FIRE (GROUND)

Master	off
Throttle	idle
Mixture	ico
Fuel	off
Mags	off
Parking brake	set
Evacuate A/C	
<b>USE HAND EXTINGUISHER</b>	

# C-172S Checklist - ABNORMAL

## HEAD ON / FRONT RAIN

Pitot heat	on
Exit icing	asap
Cabin heat/defrost	on
Watch for signs of intake ice	
Throttle	adjust for max RPM
Mixture	adjust for max RPM
Land	asap

## LANDING WITH AIRFRAME ICE

Increase landing speed due to ice	
Flaps	retracted
Left window	open & slip for improved visibility
Approach	65 - 75 KIAS
Landing attitude	level

## APPROACH WITH ICE

Approach	normal
Flaps	30°
Touchdown	good tire first
Dir. control	maintain

## FLAP MALFUNCTION

Approach	normal
Flaps	as required
Touchdown	on mains
Nose	hold off
Elevator	hold up until stopped

## ENGINE FAILURE SOURCE

Alternate static	open
Airspeed	consult POH
	section 5 for A/S changes

## LANDING WITH ELEVATOR CONTROL

Trim & power	level at 65 KIAS
Flaps	20°
Glide	control with power
Flare	trim nose up
Power	adjust to level att.
Touchdown	close throttle

## PRE-ALTERNATE LANDING / ENGINE PLAN

Seats	Upright
Seats/Seatbelts	Secure
Airspeed	65 KIAS
Wing Flaps	20°
Select Field	Suitable
Radio / Electrics	Off
Wing Flaps	30°
Airspeed	65 KIAS
Master Switch	Off
Doors Before TD	Unlatch
Ignition Switch	Off
Brakes	Apply Heavily

## ALTERNATOR / COMPASS / LAND

Alternator	off
Compass may deviate up to 25°	
Non-essential electrics	off
Land	asap

## LOW VOLTAGE LIGHT (S) / NO CHANGE

Throttle	increase
If no change	cancel flight

## LOW VOLTAGE LIGHT (S) / NO CHANGE

Avionics master	off
Alternator CB	check in
Master switch	cycle (both sides)
Low voltage light	check off
Avionics master	on

## If low voltage light re-illuminates:

Alternator	off
Non-essential electrics	off
Land	asap

## PAY ATTENTION TO THE T/C

Vacuum guage	check
HI and Att Ind	unserviceable
180° turn	T/C & Compass

## LOW OIL TEMPERATURE

Oil temperature	check
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## If oil temp normal:

Land	nearest airport
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## If oil temp high:

Power	minimum req'd
Land	asap

## EXPECT ENGINE FAILURE

## EXPECTING

Radio	Transmit Mayday
Objects/Pax	Secure
Seat/Seatbelts	Secure
Flaps	20° - 30°
Power	55 KIAS
Approach	Into High Winds
	Along Swells Light Wind
Doors	Unlatch
Aircraft	Evacuate
Life Vests/Raft	Inflate