

Emergency Procedures

Rough Running Engine

Mix Rich
Fuel Re-select both + sufficient
Engine Guages Ts/Ps in the Green
Primer In and Locked
Mags Cycle then Both

Communication Failure

Radio Check Frequency, Volume, Squelch
Master Both Off
Electrical Equip..... Off
Circuit Breakers Check
Master/Electrical Equip On
Transponder 7600
Light Signals Green-Clr land, Red-Cont Circling
Contact Tower Emergency Line 250-765-3426
Or Divert to Alternate Airport

Engine Fire in Flight

Mix Idle Cut Off
Fuel Shut Off
Master Off
Cabin ht + air vents Closed
Airspeed 105 knots or higher
Forced Landing Land Safely!

Electrical Fire in Flight

Master Both Off
Cabin ht + air vents Closed
Fire Extinguisher Activate
Ventilate Cabin
Check circuit breakers Dont reset!!!
Switches except ignition Off
Master On
Switches Turn on one at a time slowly
Terminate Flight ASAP

Forced Landing

Pitch best glide 70 kts
Initial cause check Mix, fuel reselect both
Aux fuel pump Low 3-5 sec then off
Pick field Plan approach
Full Cause check

1. Fuel Sufficient
2. Oil temp + Pressure green
3. Fuel shutoff in
4. Primer in + locked
5. Master - both
6. Mags cycle then both
7. Throttle Vary
8. Mix vary
9. Props full fine
10. Fuel reselect both

Attempt Restart
Mayday Call On current Freq or 121.5
Transponder 7700
ELT ON
Passenger Brief
Secure engine Shutdown

MAKE THE FIELD

Secure Aircraft/Shut Down

Avionics Master Off
Switches Off
Live Mag Check Off/Both
Mixture Idle Cut Off
Mags Off
Master Off
Keys Out!

Control Lock Install
Secure Aircraft 4 ropes securely tied
Radios/Equip Off



1977 C172XP GYVB Checklist

Empty Wt. 1895 lbs
Gross Wt. 2550 lbs
Teledyne Continental fuel injection IO-360-K
Power 195 BHP @ 2600 rpm
Oil W100 - 6-8 qts

Take-Off

CIAS

Normal Climb 60-70
50' Max Performance -20° Flap 56
Vx - SL56/10K60
Vy - SL72/10K66
Best Glide 70

Enroute

Cruise @ 75% 23"/2300 RPM
Va - Maneuvering Speed 2550 lbs - 105
2300 lbs - 99
2050 lbs - 93
Vs - Stall 48
Vso - Stall/Flaps 42
Vne - Never Exceed Speed 163
Vno - CAUTION - Yellow arc 129

Land

Vfe - Flaps Extended 10° - 40° 85

Preflight Check

Weather / NOTAM
AIRWOLLE - CCC
Defects / Airtime

Preflight

Walk Around..... Complete(rudders/prop/etc)
Flaps Extend
Fuel 52gal total.....Check quantity- Secure Caps
24.5 gal/side Usable(49).....10 gal/hr
Sump fuel..... Grade/Water/Sediment
Oil- 6-8QTS.....6min/8max
Floats Pump
Control Lock Remove
Master On
Lights..... On/Check/Off
Master Off
Passenger Brief..... Complete

Before Start

Preflight Complete
Water Rudders Down
Fuel Selector Valve..... Both
Cowl Flaps Open
Mix Rich
Props Fine
Radios/Transponder..... Off
Circuit Breakers In
Avionics Master Off
Throttle Full
Master On
Boost Pump..... High 14 psi
Master Off
Throttle In 1/8"
Primer In + locked
Fuel shutoff..... In

Start

Master On
Prop Area..... CLEAR!
Ignition Switch..... Start
Oil Pressure Check Rise into green
Taxi 900RPM
Radio/Electronics On
Transponder ALT

Run Up/Before Take Off

Control column Full aft
Nav/Strobe Lights On
Runup area clear No obstructions - Into wind
Doors/belts/windows Secure
Flight Controls Free/Correct
Instrument check T.C. / A.I. / M.C.
Elevator Trim Take-Off
Instruments Set D.G. / A.I. / Alt
Engine Temperatures Start to rise
Throttle 1800 RPM
Engine Instruments Ts/Ps in the Green
Mixture Lean Check
Prop Cycle twice
Magnetos 150RPM Max Drop
Left/Both/Right/Both 50 RPM Difference
Suction in the green
Alternator Load Check
Throttle Idle
Throttle 800 RPM
Radios Set
Throttle Friction Lock..... Adjust
Review..... Departure/Emergency Procedures
TAKE OFF AS REQUIRED

Take-Off GUMPFS

Gas..... Both + Sufficient
Under Carriage Water Rudders up
Mix Full Rich
Props Full Fine
Flaps/cowl flaps open 20°
Switches Circuits in, mags both, master on
Primer In + locked
Throttle Advance slowly to full power
Fuel shut off In
Confirm Static RPM
Ts/Ps in the Green
Climb power..... 25", 2500 rpm
Confirm 60 kts/ Positive rate of climb
Flaps Retract in stages

Cruise Checks

Throttle 22" MP
Props 2300 RPM
Confirm throttle 23" MP
Trim Adjust
Mixture Lean 50° rich of peak
Radio Call As Required

Pre-Landing OWLS GUMPFS

Gas..... Both and sufficient
Under Carriage water rudders up
Mix Full Rich
Props/flaps To come
Switches Circuits in, mags both, master on
Primer In + locked
Fuel Shut off In
Engine Instruments Ts/Ps in the Green
Passenger Brief..... Belts/Doors/Windows
Radio Call As Required
Throttle Reduce in stages
Flaps as required

Balked Landing

Power..... Full Throttle
Flaps Retract to 20°
Build Airspeed 60 kts
Confirm 2500 rpm/Ts+Ps in the Green
Climb Power..... 25"mp/2500rpm
Confirm 60 kts/Positive rate of climb
Retract Flaps..... Slowly/maintain pitch

After Landing

Touch Down Slightly tail low
Throttle Idle
Flaps Retract
Control Wheel full AFT as plane decelerates
Throttle <1000 RPM
Water Rudders Down gently