

# 1977 CESSNA 172 N N733LL

## Before Start Checklist

Preflight.....Complete  
 Control Lock.....Removed  
 Brakes.....Set  
 Doors/Windows.....Closed & Locked  
 Seats/Seatbelts.....Secure  
 Fuel Selector.....Both  
 Elevator Trim.....Set  
 Mixture.....Full Rich  
 Throttle.....Idle  
 Carburetor Heat.....In/Cold  
 Circuit Breakers.....Check in  
 Avionics Master Switch.....Off  
 Primer.....In & Locked  
 Master/Alternator.....On  
 Beacon.....On  
 Flaps.....Up  
 Prop Area.....Clear  
 Starter.....Engage  
 Throttle.....Adjust to 900rpm  
 Oil Pressure.....Checked  
 Mixture.....Lean for Taxi  
 Avionics Master.....On  
 Radios.....Set  
 Weather.....Obtained  
 Parking Brake.....Released  
 Brakes.....Check Before Taxi

## Before Take-Off Checklist

Brakes.....Set  
 Doors/Windows.....Closed & Locked  
 Trim.....Take off  
 Mixture.....Set  
 Throttle.....1700rpm  
 Carburetor Heat.....Check *then* Cold  
 Magnetos.....Checked  
 (Max drop 125, 50 max diff)  
 Oil Pressure.....Green  
 Oil Temperature.....Green  
 Fuel.....Adequate  
 Suction.....(4.6"-5.4")...Green  
 Amps.....Check  
 Throttle.....Idle  
 Flight Controls.....Free & Correct  
 Flight Instruments.....Set  
 Flaps.....As Required  
 Lights.....As Required  
 Transponder.....Alt.

## Before Landing Checklist

Seats/Seatbelts.....Secure  
 Fuel Selector.....Both  
 Mixture.....Rich  
 Carburetor Heat.....On  
 Lights.....As Required  
 Flight Instruments.....Reset

## After Landing Checklist

Clear of Runway.....Then  
 Flaps.....Up  
 Carburetor Heat.....Cold/Off

## Shutdown Checklist

Lights.....Off  
 Avionics Master.....Off  
 Mixture.....Idle Cut-off  
 Magnetos.....Off  
 Master Switch.....Off  
 Control Lock.....Installed  
 Parking Brake.....Set  
 Logbook.....Completed  
 Aircraft.....Tiedown/Secure

## Important Speeds

$V_{so}$ .....**49 KIAS**  
 $V_{s1}$ .....47 KIAS  
 $V_r$ .....55 KIAS  
 $V_x$ .....**59 KIAS**  
 $V_y$ .....**73 KIAS**  
**Best Glide.....65 KIAS**  
 $V_{fe}$ .....85 KIAS  
 $V_{a...}$  (at max Gross Weight).....**97 KIAS**  
 $V_{no}$ .....128 KIAS  
 $V_{ne}$ .....160 KIAS

Maximum Demonstrated Crosswind Component....15 kts

Approach Speed.....60-70 KIAS

Lycoming O-320-H2AD

Oil level, 4-6 quarts

4 cylinder, Carbureted

160 Horsepower

Maximum Gross Weight...2300lbs

Fuel Consumption...9 gallons/hour

Fuel Capacity...43 Total, 40 useable

## Preflight

### Cockpit Inspection

Documents..(AROW).....On Board  
Master Switch.....On  
Fuel Quantity.....Checked  
Flaps.....Down  
Master Switch.....Off  
Control Lock.....Removed

### Exterior Inspection

Left Fuselage (Condition)

Tail Section (Rudder, Elevator)  
(Freedom, Cables, Condition)

Right Fuselage (Condition)

Right Wing (Condition, Fuel Sump, Fuel Qty.)  
(Control Surfaces, Freedom)

Right Main Gear (Nuts, Bolts, Tire)  
(Struts, Brake Line)

Engine Compartment (Oil, Leaks, Hoses)  
(Fuel Strain, Static Port)

Propeller (Nicks, Dents, Etc.)

Nose Gear (Tire, Strut, Bolts)

Left Wing (Condition, Fuel Sump, Fuel Qty. )  
(Control Surfaces, Freedom, Pitot, Stall Warning)

Left Main Gear (Nuts, Bolts, Tire)  
(Struts, Brake Line)

## Engine Failure During Takeoff Roll

Throttle.....Idle  
Brakes .....Apply Heavily  
Flaps.....Retract  
Mixture.....Idle Cutoff  
Magnetos.....Off  
Master Switch.....Off

## Engine Failure After Takeoff

Airspeed.....65 KIAS

**Plan to Land straight ahead**

Mixture.....Idle Cutoff  
Fuel Selector.....Off  
Magnetos.....Off  
Master Switch.....Off  
Flaps.....As Required  
**Doors.....Open Prior to Touchdown**

## Engine Failure in Flight

Choose a Landing Site & Fly Towards

Trim.....For Best Glide  
Carburetor Heat.....On  
Mixture.....Rich  
Fuel Selector.....Fullest Tank/Both  
Magnetos.....Cycle/Both  
Primer.....In & Locked  
**IF NO RESTART OR OFF AIRPORT LANDING**  
Transponder/Radio.....7700/121.50  
Mixture, Mags, Master, Fuel.....Off  
Seats/Seatbelts.....Secure  
Sharp Objects.....Stowed  
Doors.....Open Prior to Touchdown

## Engine Fire During Start

**Cranking.....Continue**

**If Engine Starts**

Throttle.....1700 rpm  
Engine.....Shutdown/Inspect

**If Engine Fails to Start**

Throttle.....Full Open  
Mixture.....Idle Cutoff  
Engine.....Inspect

## Engine Fire in Flight

**Mixture.....Idle Cut-off**  
Fuel Selector.....Off  
Master Switch.....Off  
Cabin Heat/Air.....Off  
Land.....As Soon As Possible