CHECKLIST

N8876B



1958 Cessna *172*





Nebraska Flight Center

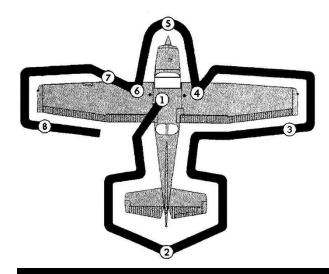
Eppley Airfield 3737 Orville Plaza Omaha, NE 68110 Tel. (402) 342-4314

www.nebflight.com

1958 GENERAL INFORMATION

Model Cessna Serial No 36	
Power Plant Continental O-30 Type Six Cylinder/ Carbur Horsepower 145 HP @ 2,700 Propeller McCauley, 2 Blade, Fixed F Electrical System 14 Volts	eted RPM Pitch
Fuel Capacity 42 Usable Fuel 37 Unusable Fuel, Each Tank 2.5 Fuel Type 10	7 Gal 5 Gal
Oil Capacity	
Main Gear Tire Pressure2:Nose Gear Tire Pressure3:Nose Gear Oleo Strut Pressure4Nose Gear Oleo Strut Extension3:	0 psi 5 psi
Basic Empty Weight (3-16-1976) 1,338. Arm 37. Moment 50,123 I	7.4 in
Maximum Gross Weight2,20Useful Load86Full Fuel22Maximum Useful Load, Full Fuel63Maximum in Baggage Compartment12	1 lbs 22 lbs 9 lbs
Cruise Airspeed, 75% Power	
Vs0 (flaps down) 42 Vs1 (clean) 48 VR 50 Vx 53 Vy 65 BEST GLIDE 60 VFE 0° - 40° 85 VNO 107 VNE 141 VA at 1600 lbs (maneuvering) 97 VA at 1450 lbs 93 VA at 1300 lbs 88	kias kias kias kias kias kias kias kias

^(*) Maneuvering Speed Decreases As Aircraft Weight Decreases



PREFLIGHT INSPECTION

CA	BIN (1)	
1	Required Documents	Aboard
2	Control Lock	Remove
3	Flaps	Extend
4	Ignition Switch Off (remo	ove key)
5	Electrical Switches	
6	Fuel Shutoff Valve	Both
7	Fuel Gauges	Check
8	Master Switch	On
9	Lights	On
10	Exit Aircraft	_
11	Position, Anti-Collision & Landing Lights .	
12	Stall Warning	
13	Lights	Off
14	Master Switch	
15	Hobbs / Tach	
16	Pilot Side Door	Check
	SELAGE LEFT SIDE	
1	Windows / Antennas	Chack
2	Underside	
_	Onderside	OHECK
	PENNAGE (2)	_
1	Gust Lock / Tie-Down	
2	Control Surfaces	
3	Trim Tab	
4	Antennas	Check
_	SELAGE RIGHT SIDE	
1	Windows / Antennas	
2	Underside	
3	Right Door	Check

RIG	GHT WING (3) & (4)	
1	Fuel Tank Sump	Drain
2	Flap	Check
3	Aileron	Check
4	Wingtip	
5	Tie-Down	
6	Main Wheel Tire	
7	Brake	
8	Wing Root Vent	
9	Fuel Tank	
10	Fuel Tank Cap	
11	Antennas	
• •	7 11101111100	Onook
	SE (5)	0
1	Windshield	
2	Gascolator Fuel Strainer.	
3	Venturi Tubes	
5	Tow-Bar	
4	Nose Tire	
7	Nose Strut Che	
8	Propeller	
9	Spinner	Check
10	Cowling Air Inlets	Check
11	Induction Air Inlet	Check
12	Oil Quantity	4 to 6 Qt +
13	Engine Mounts, Accessor	
14	Cowling Door	
15	Static Port	
	FT WING (6), (7) & (8) Wing Root Vent	Check
2	Antennas	
3	Fuel Tank	
4	Fuel Tank Cap	
5	Fuel Tank Sump	
6 7	Stall Warning	
	Pitot Tube	
8	Fuel Tank Vent	
9	Tie-Down	
10	Landing Light	
11	Wingtip	
12	Aileron	
13	Flap	
14	Main Wheel Tire	
15	Rrake	Chack Pade / Calina

BEFORE STARTING ENGINE

1	Preflight Inspection	Completed
2	Seats	Adjust & Lock
3	Seatbelts / Shoulder Harness .	Fasten / Adjust
4	Passenger Briefing	Complete
5	Avionics	Off
6	Carb Heat	Off
7	Fuel Selector	Both
8	Flight Controls	Free and Correct
9	Brakes	Test / Apply / Hold

STARTING ENGINE

1 2 3 4	Throttle Open ¼" Master Switch On Anti-Collision Light On Primer Prime / Lock		
	 If engine is warm, omit priming. 		
5	Mixture Full Rich		
6	Propeller Area Clear		
7	Magneto Switch Both		
8	Starter Engage		
9	Throttle Adjust		
10	Oil Pressure Moving up within 30 Seconds		
11	Alternator Switch On		
12	Warm-up 800 RPM		
13	Mixture Lean for Taxi		
14	Circuit Breakers Check In		
15	Radios On / Set		
16	Transponder Standby		
FLO	FLOODED ENGINE:		
1	Mixture Idle / Cut Off		
2	Throttle Full Open		
3	Starter Engage		
4	Mixture Advance slowly to RICH when engine starts		
5	Throttle Retard Promptly		
6	Oil Pressure Moving up within 30 Seconds		
	 Continue with steps 11 to 16 above. 		

BEFORE TAXI

1	Flaps	Retract
	Nav Lights	
3	Listen to AWOS or ATIS	Сору
	Contact CLNC DEL / Radio C	

TAXI

1	Brakes	Check
2	Throttle	As Required
3	Direction Control	Check
4	Magnetic Compass	Check
	Turn Coordinator	

BEFORE TAKEOFF / RUNUP

1 2 3 4 5 6 7 8 9	Cabin Doors / Windows Closed and Locke Brakes Apply / Hol Flight Controls Free & Correct Fuel Selector Bot Fuel Gauges Chec Throttle 1600 RPM Mixture Set / Best Ric Engine Instruments & Ammeter Chec Magnetos Chec • Right / Both • Left / Both • Max Drop 100 RPM	d ch k k h k
10	Carb Heat On / Check Drop / Of	ff
11	Alternator Check Output	υt
	Throttle Check Idl	
	Throttle Friction Lock Adjust	
14	Mixture Full Ric	
	Flight Instruments Se	
16	PrimerLocke	d
17	Elevator Trim Se	
18		
19		
20	Landing Light, Nav Lights O	n
21	Transponder A	١t

TAKEOFF - NORMAL

1	Flaps Retracted
2	Mixture Full Rich
3	Carb HeatOff
4	Power Full Throttle, Slowly
5	Avoid dragging brakes by keeping heels on floor
6	Apply slight back pressure on the elevator control to
	raise nosewheel when take-off speed is reached.
	 Notice that Knots are indicated on the
	inside arc of the airspeed indicator.
7	Climb70 kias

TAKEOFF - SHORT FIELD

MINIMUM GROUND RUN TAKEOFF		
1	Flaps 10° (First Notch)	
2	Mixture Set / Best Rich	
3 4	Carb HeatOff PowerFull Throttle	
7	For training purposes, brakes are NOT to	
	be held during power application due to	
	potential propeller damage.	
5	Elevator Control	
6 7	Lift Off Lift Nose 50 kias Climb Vx until obstacle cleared - 53 kias	
8	Transition to Vy	
Ū		
٥.	00TA 01 F 01 FADANOF TAKEOFF	
1	SSTACLE CLEARANCE TAKEOFF Flaps Retracted	
2	Mixture Set / Best Rich	
3	Carb HeatOff	
4	Power Full Throttle	
	For training purposes, brakes are NOT to he hold during power application due to	
	be held during power application due to potential propeller damage.	
5	Elevator Control Slightly Tail Low	
6	Lift Off Lift Nose 50 kias	
7	Climb	
8	Transition to Vy	
SC	FT FIELD TAKEOFF	
1	Flaps 10° (First Notch)	
2	Mixture Set / Best Rich Carb Heat Off	
4	Power Full Throttle	
•	For training purposes, brakes are NOT to	
	be held during power application due to	
_	potential propeller damage.	
5 6	Elevator Raise Nose Wheel Clear of Ground Lift Off Tail Low	
o 7	Lift Off Tail Low Level off momentarily to accelerate to safe speed	
8	Climb Vx until obstacle cleared - 53 kias	
9	Transition to Vy 65 kias	

TAKEOFF - CROSSWIND

TAKEOFF IN STRONG CROSSWIND

1	Flaps Retracted
2	Mixture Set / Best Rich
3	Carb HeatOff
4	Power Full Throttle
5	Aileron Into the wind to maintain wings level
6	Hold nosewheel on ground 5 to 9 kias above
	normal takeoff speed
7	Take off abruptly to prevent airplane from settling
	back to runway while drifting
8	Transition to Vy

CLIMB

1	Airspeed	70 to 80 kias
2	Throttle	Full Open
3	Engine Instruments	Check
4	Trim	Adjust
5	Mixture	Lean Above 3,000' MSL

CRUISE

1	Landing Light Off, or as needed
2	Power Set for Cruise
	 After cruise IAS has been reached, 2450 to 2650 RPM.
	 No more than 75% is recommended.
3	Trim Adjust
4	Mixture Lean / Best Power
5	Oil Pressure 30 to 40 psi
6	Oil Temperature Within Green Arc Range
7	Engine Instruments Check
8	Lean mixture as required to obtain smooth engine
	operation when using carburetor heat in cruise

1	Mixture	ENRICHEN
2	Power	Reduce, As Required
3	Carb Heat	On, As Required
4	Landing Light	On
	 Prior to traffic 	pattern entry

	Thor to traine pattern entry.
	LANDING
BE 1 2 3 4	FORE LANDING Seatbelts / Shoulder Harness Fasten / Adjust Fuel Selector Valve
5	Airspeed 60 to 70 kias
1	PRMAL LANDING Airspeed (flaps up)
2 3 4	Flaps 10° to 40°
SH	ORT FIELD LANDING
1 2 3 4 5 6	Airspeed (flaps up)
8	Flaps Retract
	OSSWIND LANDING
1	Flaps Minimum Required for Field Length Use wing low, crab, or combination method of drift correction
3	Land In nearly level attitude

- 4 Hold straight course with steerable nosewheel and occasional breaking if necessary

N8876B Cessna 172 7

REJECTED LANDING

REJECTED LANDING (GO AROUND)

1	Power	Full Throttle
2	Carb Heat	Off, or as necessary
3	Flaps	Retract to 20°
	Airspeed	
5	Obstacle	Cleared
6	Flaps	Retract to 10°
	Airspeed	
	Flaps	

AFTER LANDING

(Aircraft Clear of the Runway, Stopped)

1	Carb Heat	Off
2	Mixture	Lean for Taxi
3	Flaps	Retract
4	Landing Light	Off, or as needed
5	Transponder	Off, then set to 1200

SECURING AIRPLANE

1	Brakes	Apply / Hold
2	Electrical Equipment	Off
3	Avionics Master Switch	Off
4	Radio and Transponder	
4	Lights	
5	Throttle	Retard
6	Mixture	Idle / Cut-Off
7	Magneto Switch	Off (remove key)
8	Alternator Switch	Off
9	Beacon	Always ON
10	Master Switch	Off
11	Control Lock	Install
12	Hobbs / Tach	Record
13	Airplane	. Chock / Tie Down

DO NOT PUSH AIRPLANE FROM NOSE COWL OR SPINNER. PUSH ONLY FROM PROPELLER ROOT AND/OR WING STRUTS

CLOSE YOUR FLIGHT PLAN!

EMERGENCY CHECKLIST

ENGINE FIRE DURING START

1	Starter •	Continue Cranking Abandon, obtain fire extinguisher, if fire continues.
IF 2 3 4	Throttle Mixture	STARTS
IF 5 6 7 8 9 10	Throttle Mixture Starter Fuel Sh Ignition	FAILS TO START
E	NGINE	POWER LOSS DURING TAKEOFF
1		eient runway for landing straight
	uncuu.	LAND
2 3 4 5 6 7 8 9	Flaps Throttle Mixture Fuel Sh Ignition Master Cabin D	CIENT RUNWAY REMAINS In Safe Airspeed

ENGINE ROUGHNESS

1	Carb Heat On
2	Fuel Shutoff Valve On
IF F	ROUGHNESS CONTINUES AFTER ONE MINUTE
3	Carb Heat Off
4	Mixture Adjust Max Smoothness
5	Engine Gauges Check
6	Magneto Switch L then R then Both
	If operation is satisfactory on either one
	magneto, continue on that magneto at
	reduced power and full rich mixture to first
	suitable airport.
	δαιταρίε απροτί.

PREPARE FOR POWER OFF LANDING

ENGINE POWER LOSS IN FLIGHT

1	Maintain Safe Airspeed 60 kias
2	Carb HeatOn
3	Fuel Shutoff Valve On
4	Primer In and Locked
5	Mixture Enrichen
6	Engine Gauges Check
7	Ignition Switch Both, or Start if Prop Stopped
	 If power is not restored, proceed with
	power-off landing.

IF POWER IS RESTORED

1	Mixture	Adjust Max Smoothness
2	Carb Heat	On. As Required

IF POWER IS NOT RESTORED PREPARE FOR POWER OFF LANDING

TRIM AND MAINTAIN 60 KIAS

POWER OFF LANDING

1 2 3 4 5 6 7 8	Suitable Field Locate Landing Pattern Establish Transponder
Wł	HEN COMMITTED TO LANDING
1 2 3 4 5 6 7 8	Throttle Off Mixture Idle / Cut-Off Fuel Shutoff Valve OFF Ignition Switch Off Master Switch Off Cabin Door Unlatch Seatbelts / Shoulder Harness Tight ELT Activate
	PRECAUTIONARY LANDING WITH ENGINE POWER
1	Suitable Field Locate • Fly over, noting terrain and obstructions, retract flaps upon reaching a safe altitude and airspeed.
2	Landing Pattern Establish

Maintain Safe Airspeed 60 kias Transponder 7700 5 Radios Declare Emergency 121.5 Seat Backs Erect 7 8 Short Final 55 kias Flaps on final approach......40° Radios and Electrical Switches Off Throttle Off Mixture Idle / Cut-Off 13 Fuel Shutoff Valve OFF 14 Ignition Switch Off 15 Master Switch Off 17 Seatbelts / Shoulder Harness Tight 18 Touch Down Minimum Controllable Airspeed 19 ELT Activate

DITCHING

1	Transponder 7700
2	Radios Declare Emergency 121.5
3	Heavy Objects in Baggage Area Secure or Jettison
4	Seat Backs Erect
5	Seatbelts / Shoulder Harness Fasten / Adjust
6	Flaps 40°
7	Power 300 fpm descent at 55 kias
8	No Power 60 kias with flaps up or 55 w/10° Flaps
9	Approach into the wind High Seas, Heavy Wind
10	Parallel to Swells Light Wind or Heavy Swells
11	Cabin Door Unlatch
12	Touchdown Level attitude at established rate of descent
13	Face Cushion at touchdown with folded coat
14	ELT Activate
15	Airplane Evacuate through cabin doors
	 If necessary, open window and flood
	cabin to equalize pressure so doors can
	be opened.
16	Life vests and raft Inflate w/clear of airplane

FIRE IN FLIGHT

1	Source of Fire	. Determine
ELI	ECTRICAL FIRE (Smoke in Cabin)	
1	Master Switch	Off
2	Vents	Closed
3	Cabin Air & Heat	Off
4	Fire Extinguisher	
5	Radios and Electrical Switches	
	 After discharging fire exting ascertained that fire is com extinguished, ventilate the 	pletely
6	Vents / Cabin Air	
7	Cabin Air & Heat	•
	 If fire is completely extingular electrical power is necessal continue flight to nearest so airport or landing area: 	ry to
8	Master Switch	On
9 10	Circuit Breakers Check for faulty circuit Radios / Electrical Switches • Only equipment absolutely with delay after each until s	On needed,
	is located.	

LAND AS SOON AS PRACTICABLE

FIRE IN FLIGHT (cont.)

- 1 Nav Lights Off 2 Pitot Heat Off
 - Perform a sideslip to keep the flames away from the fuel tank and cabin.
 - Land as soon as possible using flaps only as required for final approach and touchdown.

ENGINE FIRE IN FLIGHT

1	Mixture	Idle / Cut-Off
2	Fuel Shutoff Valve	OFF
3	Throttle	Closed
4	Master Switch	Off
5	Cabin Heat and lower vents	Off
6	Airspeed	85 kias

 If fire is not extinguished, increase glide speed to an airspeed below V_{ne} that will produce an incombustible mixture.

LAND AS SOON AS PRACTICABLE

PREPARE FOR POWER OFF LANDING

LOSS OF OIL PRESSURE

LAND AS SOON AS POSSIBLE PREPARE FOR POWER OFF LANDING

HIGH OIL TEMPERATURE

1	Mixture	Enrichen
2	Airspeed	Increase if Slow

PROCEED TO NEAREST AIRPORT PREPARE FOR POWER OFF LANDING

VACUUM SYSTEM FAILURE

VACUUM FAILURE SUSPECTED

1	Vacuum Gauge	Check
2	Verify Failure of Vacuum System	. Check
3	Partial Panel Procedures	Initiate

LAND AS SOON AS PRACTICABLE

STATIC SOURCE BLOCKAGE

ERRONEOUS INSTRUMENT READING SUSPECTED

1	Alternate Static Source	Valve Open
2	Airspeed	Adjust Appropriately

SPIN RECOVERY

1	I hrottle	Idle
2	Ailerons	Neutral
3	Rudder	. Full opposite direction of rotation
4	Control Wheel .	Full Forward
5	Rudder	Neutral when rotation stops
6	Control Wheel .	As required to smoothly
		regain level flight attitude

ELECTRICAL FAILURES

	ELECTRICAL FAILURES
OV I 1 2 3	ER-VOLTAGE LIGHT ILLUMINATES Master Switch (Both Sides)
A 11.7	METER SHOWS DISCHARGE
1 2 3	ALT Switch Off Electrical Load Reduce ALT Switch On
IF F 4	POWER NOT RESTORED ALT Switch
L	ANDING WITH A FLAT MAIN TIRE
1 2 3	Approach
4	Use brake on good wheel as required.

LANDING WITH A FLAT NOSE TIRE

1	Approach Normal
2	Flaps As Required
3	Touchdown On Main Wheels
	 Hold nose wheel off the ground as long as possible.
	 When nose wheel touches down, maintain full up elevator as airplane slows

to stop.

ICING

INADVERTENT ICING ENCOUNTER Pitot Heat On Turn Back or Change Altitude OK Cabin Heat Full Open Defroster Outlets Full Open 5 Cabin Air Adjust for Max heat and airflow Watch for signs of engine related icing conditions. Engine RPM loss could be caused by ice blocking the air intake filter or ice blocking the fuel injection air reference tubes. Throttle Adjust in or out for max RPM 6 7 Carb Heat On, As Required Mixture Adjust in or out for max RPM Flaps Keep Retracted 10 Left Window Open 11 Ice from windshield Remove if possible A forward slip may be necessary on final approach to improve visibility. 12 Approach Speed 65 to 75 kias 13 Touchdown Level Attitude

PROCEED TO NEAREST AIRPORT

PREPARE FOR OFF-AIRPORT LANDING

PREPARE FOR HIGHER STALL SPEED

LIGHT GUN SIGNALS

Steady Green Ground

Ground Cleared For Takeoff In Flight Cleared To Land

Flashing Green

Ground Cleared To Taxi
In Flight Return For Landing

Steady Red

Ground Stop In Flight Give Way, Continue Circling

Flashing Red

Ground Taxi Clear Of Runway In Use In Flight Airport Unsafe, Do Not Land

Flashing White

Ground Return To Starting Point In Flight Not Used

Alternating Red & Green

General Warning Signal
Exercise Extreme Caution

A superior pilot
uses his
superior judgment
to avoid situations
that require
the use
of his
superior skills