

FOR USE WITH

N4936D

PREFLIGHT C – 172N

1. Aircraft Documents - CK.
2. Weather - Suitable.
3. Baggage - Weighed, stowed, secured.
4. Weight and C.G. - CK.
5. Navigation - Planned.
6. Charts and Nav aids - CK.
7. Performance - Determined
8. VOR Log (IFR) - CK.

INTERIOR

1. Hobbs / Tach time - CK.
2. P.O.H. - On board.
3. Control Lock - Remove.
4. Avionics - Off.
5. Electrical Switches - Off.
6. Primer - Locked
7. Carb Heat - Cold.
8. Mixture - I.C.O.
9. Master Switch -On/Call.
10. Fuel Quantity - CK.
11. Lights (Night) - CK.
12. Flaps - Down / CK.
13. Master Switch - Off.
14. Flight Controls - CK.
15. Fuel Selector - On.
16. Trim - Neutral.
17. Windows - CK Clean.

EXTERIOR

AS PER MANUAL

BEFORE START

1. Preflight - Complete.
2. Passenger Briefing - Complete.
3. Cabin Doors - Closed.
4. Seats - Adjusted / Locked.
5. Belts / Harnesses - Secure
6. Circuit Breakers - CK In.
7. All Switches - Off.
8. Brakes - Set and Test.

START

1. Mixture - Rich.
2. Throttle - Open 1/4".
3. Master Switch - On / Call.
4. Flaps - UP.
5. Beacon - On.
6. Nav. Lights - As Req.
7. Prop Area - Clear / Call.
8. Starter - Engage.
9. Throttle - 700 RPM.
10. Oil Pressure - CK.
11. Mixture - Lean for Taxi.

PRE - TAXI

1. Radios - On / Set.
2. Transponder – Sby/1200
3. Radio Calls - As Req.
4. Taxi Area - Clear.
5. Throttle - Apply Smoothly.
6. Brakes - CK.

TAXI

Controls - Position for wind
Instruments - Ck on taxi

RUN - UP

1. Brakes - Set.
2. Fuel Selector - Both.
3. Mixture - Rich.
4. Throttle - 1700 RPM.
5. Magnetos –
Max Drop 125
Max Diff 50
6. Carb Heat - CK.
7. Engine Instruments - CK.
8. Suction Gauge - CK.
9. Ammeter - CK.
10. Engine Idle- CK
11. Throttle - 700 RPM.
12. Mixture – Lean for Taxi

BEFORE TAKEOFF

1. Flight Instruments - Set.
2. Radios / Avionics - Set.
3. Engine Gauges - CK.
4. Mixture – Set for Takeoff
5. Carb Heat - Off.
6. Belts / Harnesses - CK.
7. Flaps - As Req.
8. Trim - Set for takeoff.
9. Controls - CK.
10. Doors / Windows - Latch.
11. Brakes - Recheck.

CROSSING HOLD LINE

Strobes - On
Transponder – Altitude
Mixture – Set for Takeoff

TAKEOFF

Normal Vr - 55 KTS
Short / Soft - Per Manual

CLIMB

Vx - 59 KTS
Vy - 73 KTS
Cruise Climb - 80 KTS.

CRUISE

1. Power - Per Manual.
2. Trim - Adjust.
3. Mixture - Set.
4. Landing Light - Off.
5. Engine Instruments - CK.
6. Flight Instruments - Set.

PRE - DESCENT

1. Fuel Selector - Both.
2. Power - As Req.
3. Mixture - Enrichen.
4. Carb Heat - As Req.
5. Flight Instruments - Set.
6. Engine Gauges - Monitor.

45 ENTRY / DOWNWIND CK

Fuel Selector - Both.
Mixture - Full Rich.
Throttle - As Req (85 KTS).
Landing Lts / Strobes-As Req.
Ignition - Both
Master Switch - On.
Primer - Locked.
Belts / Harnesses - CK.

LANDING

Normal, Short, and Soft field
As per manual.
Normal Final - 65 KTS.

ON FINAL

G. U. M.P.S.

AFTER LANDING

1. Throttle - 700 RPM.
2. Mixture - Lean for Taxi.
3. Carb Heat - Cold.
4. Flaps - Up.
5. Trim - Neutral.
6. Landing / Strobes - As Req.
7. Transponder - Sby / 1200.
8. Unnecessary Avionics - Off.
9. Radio Calls - As Req.

SHUTDOWN / SECURING

1. Avionics / Electrical - Off.
2. Throttle – idle
3. P-lead - CK
2. Mixture - I.C.O.
5. Ignition - Off / Key on dash.
6. Master - Off.
7. All Switches - Off.
8. Windows - Close / Latch.
9. Seatbelts - Stow.
10. Control Lock - Install.
11. Fuel Selector – Left or Right
12. Hobbs / Tach times - Record
13. Aircraft - Properly Secure.
14. Discrepancies - Write Up.

V - SPEEDS	C – 172N
Vso	41 KTS
Vs	47 KTS
Vr	55 KTS
Vx	59 KTS
Vy	73 KTS
Va (2300 #)	97 KTS
Vfe	85 KTS
Vno	128 KTS
Vne	160 KTS
Final Approach	65 KTS
Final (short field)	60 KTS
Best Glide	65 KTS

ENGINE FAILURES

TAKEOFF RUN

1. Throttle - Idle.
2. Brakes - Apply.
3. Wing Flaps - Retract.
4. Mixture - I.C.O..
5. Ignition - Off.
6. Master Switch - Off.

AFTER TAKEOFF

1. Airspeed - 65 KTS.
2. Mixture - I.C.O..
3. Fuel Selector - Off.
4. Ignition Switch - Off.
5. Wing Flaps - As Required.
6. Master Switch - Off.

DURING FLIGHT

1. Airspeed - 65 KTS.
2. Carb Heat - ON.
3. Primer - Locked.
4. Fuel Selector - Both.
5. Mixture - Rich.
6. Ignition Switch - Both.

FORCED LANDINGS

WITHOUT POWER

1. Airspeed –
65 KTS (flaps up)
60 KTS (flaps dn)
2. Mixture - I.C.O..
3. Fuel Selector - Off.
4. Ignition Switch - Off.
5. Wing Flaps - As Required.
6. Master Switch - Off.
7. Doors - Unlatch.
8. Touchdown - Tail Low.
9. Brakes - Apply Heavily.

WITH POWER

1. Airspeed - 60 KTS.
2. Wing Flaps - 20 Deg.
3. Field - Overfly/Inspect
Retract Flaps at Safe
altitude and airspeed.
4. Avionics / Electrical -
Off.
5. Wing Flaps - 40 Deg.
(final)
6. Airspeed - 60 KTS.
7. Master Switch - Off.
8. Doors - Unlatch.
9. Touchdown - Tail Low.
10. Ignition Switch - Off.
11. Brakes - Apply Heavily.

DITCHING

1. Radio - Transmit
Mayday.
2. Heavy Objects -
Secure/Toss
3. Approach - Into high
winds.
Parallel to swells in
light winds.
4. Wing Flaps - 40 Deg.
5. Power - 300'/min @ 55
KTS.
6. Doors - Unlatch.
7. Touchdown - Level
attitude @ 300'/min.
8. Face - Cushion at
Impact.
9. Aircraft - Evacuate.
Flood Cabin if
necessary.
10. Life Vests / Rafts -
Inflate.

FIRES

DURING START

1. Cranking - Continue.

If Engine Starts

2. Power - 1700 RPM
(few min)
3. Engine - Shutdown
Inspect for damage.

If Engine Fails to Start

4. Cranking - Continue.
5. Fire Extinguisher -
Obtain.
6. Engine - SECURE.
A. Master - Off.
B. Ignition - Off.
C. Fuel Selector - Off.
7. Fire - Extinguish.
8. Fire Damage - Inspect.

ENGINE FIRE IN FLIGHT

1. Mixture - I.C.O..
2. Fuel Selector - Off.
3. Master Switch - Off.
4. Cabin Heat and Air - Off.
(except wing root vents)
5. Airspeed - 100 KTS.
(faster if needed)
6. Forced Landing -
Execute.

ELECTRICAL FIRE IN FLIGHT

1. Master Switch - Off.
2. All Other Switches - Off.
(except ignition switch)
3. All Vents - Closed.
4. Fire Extinguisher -
Activate.
5. Cabin - Ventilate.

If fire appears Out.

6. Master Switch - On.
7. Circuit Breakers - Check
for faulty circuit don't
reset.
8. Electrical Switches - On
one at a time with
delay until short
circuit is localized.
9. Vents - Open as
required.

CABIN FIRE

1. Master Switch - Off.
2. Vents - Close.
3. Fire Extinguisher -
Activate.
4. Cabin - Ventilate.
5. Land Aircraft as soon as
possible to inspect for
damage.

WING FIRE

1. Nav Lights - Off.
2. Strobes - Off.
3. Pitot Heat - Off.
4. Side slip away from
flames.

LANDING WITH A FLAT MAIN TIRE

1. Wing Flaps - As desired.
2. Approach - Normal.
3. Touchdown - Good tire
first.

ELECTRICAL MALFUNCTIONS OVER VOLTAGE LIGHT ON

1. Master Switch - Off
(both sides).
2. Master Switch - On.
3. Over Voltage Light -
Off.

If over voltage light
remains on.
4. Flight - Terminate as
soon as practical.

AMMETER SHOWS DISCHARGE

1. Alternator - Off.
2. Electrical Load -
Reduce.
3. Flight - Terminate as
soon as practical.

SPIN RECOVERY

1. Power - Idle.
2. Ailerons - Neutral.
3. Rudder - Opposite.
4. Elevator - Forward.
5. Recover from dive.

C-172N CHECKLIST
CONSULT P.O.H. FOR
DETAILED
INFORMATION ABOUT
THIS AIRCRAFT AND ITS
PROCEDURES.