

FOR USE WITH

N26504

PREFLIGHT C – 172R

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. /G-1000 manual on board
3. Control Lock - Remove.
4. Avionics – Bus 1 and 2 off
5. Electrical Switches - Off.
6. Mixture - I.C.O.
7. Master Switch -On/Call.
8. Fuel Quantity - CK.
9. Lights (Night) - CK.
10. Flaps - Down / CK.
11. Master Switch - Off.
12. Flight Controls - CK.
13. Fuel Shutoff - In
14. Fuel Selector - Both.
15. Trim - Neutral.
16. 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. Throttle - Full
2. Mixture - Rich
3. Master switch - On/Call
4. Flaps - Up
5. Beacon – on
6. Nav Lights – As Req.
7. Boost Pump-on 3 secs
8. Throttle - in 1/4"
9. Mixture - ICO
10. Starter - Engage
11. Mixture – rich when running
12. Throttle – 700 RPM
13. Oil Pressure – CK
14. Mixture - Lean for taxi

HOT START

1. Throttle in 1/4 "
2. Mixture - ICO
3. Master - on
4. Flaps - up
5. Beacon - on
6. Mixture - rich when running
7. Oil Pressure - CK
8. Mixture - Lean for taxi

PRE - TAXI

1. Radios - On / Set.
2. Transponder - Sby.
3. Flaps - Up.
4. Radio Calls - As Req.
5. Taxi Area - Clear.
6. Throttle - Apply Smoothly
7. 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 - 1800 RPM.
5. Magnetos –
Max Drop 150
Max Diff 50
6. Engine Instruments - CK.
7. Suction Gauge - CK.
8. Ammeter - CK.
9. Engine Idle - CK
10. Throttle - 700 RPM.
11. Mixture – Lean for taxi

BEFORE TAKEOFF

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

CROSSING HOLD LINE

Strobes - On
Transponder – Altitude
Mixture – Set for Takeoff

TAKEOFF

Normal Vr - 55 KTS
Short / Soft - Per Manual

CLIMB

Vx - 62 KTS
Vy - 74 KTS
Cruise Climb - 85 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. Flight Instruments - Set.
5. 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.
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. Flaps - Up.
4. Trim - Neutral.
5. Landing / Strobes - As req.
6. Transponder - Sby / Off.
7. Unnecessary Avionics - Off.
8. Radio Calls - As Req.

SHUTDOWN / SECURING

1. Avionics / Electrical - Off.
2. Throttle – Idle
3. P-Lead - CK
4. 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. Name, Date, Hobbs, Tach times - Record
13. Aircraft - Properly Secure.
14. Discrepancies - Write Up.

**V - SPEEDS
C - 172R**

Vso	33 KTS
Vs	44 KTS
Vr	55 KTS
Vx	60 KTS
Vy	79 KTS
Va (2450)	99 KTS
Vfe	85 KTS
Vno	129 KTS
Vne	163 KTS
Final Approach	65 KTS
Final (short field)	62 KTS
Best Glide	65 KTS

ENGINE FAILURES

TAKEOFF RUN

1. Throttle - Idle.
2. Brakes - Apply.
3. 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 Shutoff - In.
4. Ignition Switch - Off.
5. Flaps - As Required.
6. Master Switch - Off.

DURING FLIGHT

1. Airspeed - 65 KTS.
2. Fuel Shutoff - In.
4. Fuel Selector - Both.
5. Boost Pump - On
6. Mixture - Rich.
7. Ignition Switch - Both.

FORCED LANDINGS

WITHOUT POWER

1. Airspeed
65 KTS (flaps up)
60 KTS (flaps dn)
2. Mixture - I.C.O..
3. Fuel Shutoff - Off.
4. Ignition Switch - Off.
5. 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. Flaps - 20 Deg.
3. Field – Overfly / Inspect
Retract Flaps at safe
altitude and airspeed.
4. Avionics / Electrical-Off.
5. Flaps - 30 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. Flaps - 20 to 30 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 /

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

2. Throttle - Full
3. Mixture I.C.O.
4. Cranking - Continue.
5. Fire Extinguisher - Obtain.
6. Engine - SECURE.
A. Master - Off.
B. Ignition - Off.
C. Fuel Shutoff - Pull.
7. Fire - Extinguish.
8. Fire Damage - Inspect.

ENGINE FIRE IN FLIGHT

1. Mixture - I.C.O.
2. Fuel Selector - Pull.
3. Boost Pump - 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. Strokes - 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
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. Avionics switch - Off
2. Alternator Switch - Cycle.
3. Electrical Load- Reduce.
4. 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-172R CHECKLIST
CONSULT P.O.H. FOR
DETAILED INFORMATION
ABOUT THIS AIRCRAFT
AND ITS PROCEDURES.