PREFLIGHT C-172S

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

INTERIOR

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

EXTERIOR

AS PER MANUAL

BEFORE START

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

START

- Throttle Full 2. Mixture - Rich
- 3.
- Master switch On/Call
- 4 Flaps - Up
- Beacon on 5. 6.
- Boost Pump-on 3 secs
- 7. Throttle - in 1/2"
- 8. Mixture - ICO
- Starter Engage 9
- 10. Mixture rich when running
- 11. Throttle 700 RPM
- 12. Oil Pressure CK
- 13. Mixture Lean for taxi

HOT START

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

PRE - TAXI

- Nav Lights as req. 1.
- 2. Radios - On / Set.
- Transponder Sby. 3.
- 4. Flaps - Up.
- Radio Calls As Req. 5.
- Taxi Area Clear. 6. Throttle - Apply Smoothly 7.
- Brakes CK. 8.

TAXI

| Controls - Position for wind | |
|------------------------------|--|
| Instruments - Ck on taxi | |

1. Power - Per Manual.

Cruise Climb - 85 KTS.

- 2. Trim - Adjust.
- 3. Mixture - Set.
- Landing Light Off. 4.
- 5. Engine Instruments -
 - CK.

RUN - UP

CK.

Brakes - Set.

Mixture - Rich.

Fuel Selector - Both.

Throttle - 1800 RPM.

150 - Max Diff 50

Ammeter - CK.

BEFORE TAKEOFF

Mixture - Set.

Flaps - As Req.

Controls - CK.

10. Brakes - Recheck.

CROSSING HOLD LINE

Transponder -

Normal Vr - 55 KTS

Short / Soft - Per Manual

Strobes - On.

TAKEOFF

CLIMB

CRUISE

Vx - 62 KTS

Vy - 74 KTS

Magnetos - Max Drop

Engine Instruments -

Suction Gauge - CK.

Throttle - 700 RPM.

Flight Instruments - Set.

Radios / Avionics - Set.

Belts / Harnesses - CK.

Doors / Windows - Latch.

Altitude

Engine Gauges - CK.

Trim - Set for takeoff.

1.

2.

3.

4

5.

6.

7.

8.

9.

1.

2.

3.

4.

5.

6.

7.

8.

9.

6. Flight Instruments - Set.

PRE - DESCENT

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

45 ENTRY / Downwind CK

Fuel Selector - Both. Mixture - Full Rich. Throttle - As Reg (85 KTS). Landing Lts / Strobes-As Reg. 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 - 1000 RPM.
- 2. Mixture - Lean for Taxi.
- 3. Flaps - Up.
- Trim Neutral. 4
- Landing / Strobes As 5. req.
- 6. Transponder - Sby / Off.
- Unnecessary Avionics -7. Off.
- 8. Radio Calls - As Req.

SHUTDOWN / SECURING Avionics / Electrical - Off.

Mixture - I.C.O.

Master - Off.

10. Aircraft - Properly

11. Discrepancies - Write

Secure.

Up.

V - SPEEDS

C – 172S

Va (2550)

Final approach

Best Glide

Final (short field)

Vso

Vs

Vr

Vx

Vy

Vfe

Vno

Vne

dash.

Ignition - Off / Key on

Windows - Close/Latch.

Control Lock - Install.

Name, Date, Hobbs,

Tach times - Record

40 KTS

48 KTS

55 KTS

62 KTS

74 KTS

105 KTS

85 KTS

129 KTS

163 KTS

65 KTS

62 KTS

65 KTS

All Switches - Off.

Seatbelts - Stow.

1.

2.

3.

4

5.

6.

7.

8.

9.

ENGINE FAILURES

TAKEOFF RUN

- Throttle Idle.
 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.
- 3. Fuel Selector Both.
- 4. Boost Pump On
- 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 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

- Airspeed 60 KT
 Flaps 20 Deg.
- Field Overfly/Investigate Retract Flaps at safe altitude and airspeed.
- 4. Avionics / Electrical-Off.
- 5. Flaps 30 Deg. (final)
- 6. Airspeed 60 KTS.
- 7. Master Switch Off.
- B. Doors Unlatch.
 Touchdown Tail Low.
- 10. Ignition Switch Off.
- 11. Brakes Apply Heavily.

DITCHING

- 1. Radio Transmit Mayday.
- 2. Heavy Objects Secure/Toss
- Approach Into High Winds. Parallel to Swells in light winds.
- Flaps 20 to 30 Deg.
 Power 300'/min @ 55 KTS.
- 6. Doors Unlatch.
 - 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

- 2. Throttle Full
- 3. Mixture I.C.O.
- Cranking Continue.
 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
- 4. Master Switch Off.
- 5. Cabin Heat and Air Off. (except wing root vents)
- 6. Airspeed 100 KTS.
- (faster if needed)
- 7. Forced Landing- execute

ELECTRICAL FIRE IN FLIGHT

- 1. Master Switch Off.
- 2. All Other Switches Off. (except ignition switch)

ELECTRICAL

2.

3.

2.

3.

1.

2.

3.

4.

5.

4

MALFUNCTIONS

OVER VOLTAGE LIGHT ON

Master Switch - On.

Over Voltage Light - Off.

If over voltage light remains on.

1. Master Switch - Off

4. Flight - Terminate as

1. Avionics switch - Off

Alternator switch - Cycle.

Electrical Load- Reduce.

Flight - Terminate as

soon as practical.

Ailerons - Neutral.

Rudder - Opposite.

Elevator - Forward.

Recover from dive.

C-172R CHECKLIST CONSULT

INFORMATION ABOUT THIS

P.O.H. FOR DETAILED

AIRCRAFT AND ITS

PROCEDURES.

AMMETER SHOWS

SPIN RECOVERY

Power - Idle.

DISCHARGE

soon as practical.

- 3. All Vents Closed.
- 4. Fire Extinguisher Activate.
- 5. Cabin Ventilate.

If fire appears Out.

- 6. Master Switch On.
- Circuit Breakers Check for faulty circuit, don't reset
- 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.
- Land Aircraft as soon as possible to inspect for damage

WING FIRE

MAIN TIRE

First

3.

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

LANDING WITH A FLAT

2. Approach - Normal

1. Wing Flaps – As Desired

Touchdown – Good Tire