

**FOR USE WITH**

**N828SP**

**PREFLIGHT C – 172S**

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. 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 – 172S**

Vso	40 KTS
Vs	48 KTS
Vr	55 KTS
Vx	62 KTS
Vy	74 KTS
Va (2550 )	105 KTS
Vfe	85 KTS
Vno	129 KTS
Vne	163 KTS
Final Approach	65 KTS
Final (short field)	62 KTS
Best Glide	65 KTS

Property of Vista Air

## 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 / 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.
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. 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
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-172S CHECKLIST  
CONSULT P.O.H. FOR  
DETAILED INFORMATION  
ABOUT THIS AIRCRAFT  
AND ITS PROCEDURES.**