

Cessna 172S- N810SA
(8-19-24)

***Check Fuel and Oil Quantity (max 53 usable fuel and 5 minimum oil)**

Preflight Cabin

- | | |
|---------------------------------|-------------------|
| 1. S.P.A.R.O.W | Check |
| 2. Hobbs/Tach Time | Record |
| 3. Pitot Cover | Remove |
| 4. Control Wheel Lock | Remove |
| 5. All Switches (Ign,Avnx,EFIS) | Off |
| 6. Master Switch | On |
| 7. Avionics Switch | On,Verify Fan,Off |
| 8. Fuel Quantity | Check |
| 9. Annunciator Switch | Test |
| 10. Flaps | Extend |
| 11. Pitot Heat, Lights | On/Check/Off |
| 12. Master Switch | Off |
| 13. Windscreen | Clean |

Preflight Empennage

- | | |
|----------------------------|------------------------------|
| 1. Autopilot Static Source | Check for Blockage |
| 2. Aspen OAT | Check for Blockage |
| 3. Tail Tie-Down | Disconnect |
| 4. Control Surfaces | Check Freedom and Security |
| 5. Trim Tab | Check Security |
| 6. Antennas | Check Security and Condition |

Preflight Right Wing

- | | |
|--------------------------|----------------|
| 1. Flap | Check |
| 2. Aileron | Check |
| 3. Wing Tie Down | Disconnect |
| 4. Main Wheel Tire/Brake | Check |
| 5. Fuel Drain Valves (5) | Drain/Check |
| 6. Fuel Quantity | Check Visually |
| 7. Fuel Filler Cap | Secure |

Preflight Nose

- | | |
|-------------------------|------------------------|
| 1. Fuel Drain Valves(3) | Drain/Check |
| 2. Engine Oil Dipstick | Check Level and Secure |

*5 qt min (5.5 Summer)
*Fill to 6+ for extended flights
DO NOT OVERTIGHTEN

- | | |
|------------------------------|-------|
| 3. Engine Cooling Air Inlets | Clear |
| 4. Propeller & Spinner | Check |
| 5. Engine Cowling Security | Check |
| 6. Alternator Belt | Check |
| 7. Air Filter | Check |
| 8. Nose Wheel Strut and Tire | Check |
| 9. Static Source Opening | Check |

Preflight Left Wing

- | | |
|----------------------------|--------------------|
| 1. Pitot Tube + Drain Hole | Check for Blockage |
| 2. Fuel Tank Vent | Check |
| 3. Stall Warning Opening | Check |
| 4. Wing Tie-Down | Disconnect |
| 5. Fuel Drain Valves (5) | Drain/Check |
| 6. Fuel Quantity | Check Visually |
| 7. Fuel Filler Cap | Secure |
| 8. Aileron | Check |
| 9. Flap | Check |
| 10. Main Wheel Tire/Brake | Check |
| 11. Baggage Door | Secure |

Before Starting Engine

- | | |
|----------------------------|-----------------|
| 1. Preflight Inspection | Complete |
| 2. Passenger Brief | Complete |
| S- Seats/Seatbelts | |
| A- Air | |
| F- Fire | |
| E- Emergency | |
| T- Talking | |
| Y- Your Questions | |
| 3. Seats/Seatbelts | Adjust and Lock |
| 4. Brakes | Test & Set |
| 5. Fuel Selector | Both |
| 6. Fuel Shutoff Valve | Full In |
| 7. Elevator Trim | Set for Takeoff |
| 8. Alternate Static Source | Off/In |
| 9. Mixture | Idle Cutoff |
| 10. Throttle | 1/4" In |

- | | |
|----------------------|-------------------|
| 11. Alternate Air | Off/In |
| 12. Circuit Breakers | Check In |
| 13. Lights | Off Except Beacon |

Caution

The Avionics Master switch and EFIS switch must be off during engine start to prevent possible damage to avionics.

- | | |
|--------------------------------------|-----|
| 14. Avionics Master, EFIS, AutoPilot | Off |
|--------------------------------------|-----|

NOTE

If engine is warm, omit priming

PRIMING PROCEDURE

NOTE: MAX PRIME 3-5 SECONDS

- | | |
|------------------|---|
| 1. Master Switch | On |
| 2. Fuel Pump | On |
| 3. Mixture | Full to obtain 3-5 GPH fuel flow, then Idle Cut Off |
| 4. Fuel Pump | Off |

Starting Engine

- | | |
|-------------------|--|
| 1. Throttle | 1/8" In |
| 2. Propeller Area | Clear |
| 3. Master Switch | On |
| 4. Ignition | Start |
| 5. Mixture | Full lean until engine fires, then smoothly to Full Rich |

NOTE

If the engine floods, Mixture idle cut off, open throttle 1/2 to full, and crank engine. When the engine fires, advance mixture to full rich & retard throttle promptly.

- | | |
|----------------------------|------------------|
| 6. Throttle | 1000 RPM |
| 7. Alternator Switch | On |
| 8. Oil Pressure/Amps/Volts | Check |
| 9. Mixture | Lean for Max RPM |
| 10. Avionics Master Switch | On |
| 11. EFIS Switch | On |
| 12. Flaps | Retract |
| 13. Nav Lights | On at Night |

Before Taxi

- | | |
|-------------------------------------|----------------------|
| 1. Cabin Air/Heat | As Needed |
| 2. Radios/Nav aids/GPS | Checked/Set |
| 3. ATIS | Set BARO/ALT/HDG Bug |
| 4. Autopilot | Off |
| 5. Transponder | Verify ALT/SQK |
| 6. Caution/Warning No Annunciations | |

Taxi

- | | |
|--------------------|---|
| 1. Airport Diagram | Available |
| 2. Taxi Clearance | Obtain |
| 3. Taxi Route | Brief |
| 4. Taxi Area | Clear |
| 5. Brakes | Release and Test |
| 6. Throttle | Adjust for Min Brake Use |
| 7. Check | Flight Instruments PFD/HDG/ATTITUDE/COMPASS |
| 8. Flight Controls | Position for Wind |

NOTE:

This checklist is a guide to coordinate Pilot Operating Handbook data applicable to this particular aircraft only. The applicable Pilot Operating Handbook remains the official documentation for this aircraft. **The pilot in command is responsible for complying with all items in the Pilot Operating Handbook**



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Before Takeoff - Run-Up

1. Seats/Seatbelts Secure
2. Seat Backs Most Upright Position
3. Cabin Doors Closed and Locked
4. Flight Controls Free & Correct
5. Flight Instruments Check & Set
6. Fuel Quantity Check
7. Fuel Selector Both
8. Mixture Richen +1/2"
9. Throttle 1800 RPM
 - a. Mag Check L-R-L-Both (150 Max 50 Difference)
 - b. Engine Instruments/CHT Check
 - c. Amps/Volts Check Positive/28V
10. Annunciators Check
11. Throttle Check Idle
12. Throttle 800-1000 RPM
13. Mixture Lean +1/2"
14. Throttle Friction Lock Adjust
15. GPS/Aspen CDI Select Nav Source
16. Autopilot Off
17. Transponder Verify ALT/SQK

Before Takeoff- Hold Short Line

1. Frequency TWR/CTAF
2. Elevator Trim Set for Takeoff
3. Flaps (0-10°)
4. Landing/Taxi/Bcn/Strobe On
5. Takeoff Brief
Runway/Takeoff Type/Speeds/HDG/ALT
Lose Engine...
Runway IDLE, EXIT RWY
Airborne Rwy Remaining LAND
Below 1000 AGL PUSH 70kts,
Land Straight +/-30°
Above 1000 AGL PUSH 70kts,
Consider Return to Airport
6. Mixture Full Rich

Normal Takeoff

1. Flaps 0-10°
2. Runway Heading Verify
3. Throttle Full Open
4. Rotate (Vr) 55 KIAS
5. Vy 74 KIAS

SHORT FIELD Takeoff

1. FLAPS 10°
2. Use all Available Runway
3. Hold Brakes/Full Power/Check RPM
4. Release Brakes
5. Vr 51 KIAS
6. Vx 56 KIAS
7. Obstacle Cleared 60 KIAS/FlapsUP

SOFT FIELD Takeoff

1. FLAPS 10°
2. Full Aft/No Brakes
3. Remain in Ground Effect
4. Begin Climb Vx 62 KIAS
5. Obstacle Cleared 74 KIAS/Flaps UP

Enroute Climb

1. Airspeed 75 - 85 KIAS
2. Throttle Full Open
3. Mixture Full Rich below 3000'
4. Engine Instruments Check
5. Transponder Verify ALT/SQK

Cruise

1. Power 2100-2500
2. Elevator Trim Adjust
3. Mixture Lean Max Rpm
4. Lights As Needed

Pre-Maneuver Checklist

1. Instruments Check
2. Configure Airplane
 - Fuel Selector Both
 - Mixture Full Rich
 - Landing Light On
3. Seatbelts Secure
4. Clearing Turns Execute
5. Radio Call As Required

Before Descent

1. Weather (ATIS) Obtain
2. Altimeters Set
3. Approach Brief
4. VOR/GPS Setup As Needed
5. Aspen and GPS CDI Select
6. Fuel Selector Valve Both
7. Mixture Adjust

Before Landing

1. Seats & Seat Belts Secure & Lock
2. Fuel Selector Both
3. Mixture Control Richen
4. Landing & Taxi Lights On
5. Autopilot Off

Normal Landing

1. Airspeed 65 - 75 KIAS
2. Wing Flaps As Needed
0° - 10° below 110 KIAS
20° -30° below 85 KIAS

SHORT FIELD Landing

1. Flaps 30°
2. Airspeed (@MTOGW) 61 KIAS
3. Aerodynamic Braking Flaps UP
Yoke Aft- Apply Brakes

SOFT FIELD Landing

1. Flaps 20-30°
2. Hold Nosewheel Off
3. MINIMUM to NO Braking

Balked Landing

1. Throttle Full Open
2. Wing Flaps Retract to 20°
3. Climb Speed 60 KIAS
4. Wing Flaps Retract Slowly

After Landing (Clear of Runway)

1. Aircraft Clear of Runway
Full Stop
2. Throttle 1000 RPM
3. Mixture Lean +1"
4. Throttle Adjust for Min Brake Use
5. Wing Flaps Up
6. Lights As Needed
7. Transponder ALT/1200
8. Pitot Heat Off
9. Taxi Clearance Brief

Securing Aircraft

1. Parking Brake As Needed
2. Lights Off
3. Autopilot Off
4. EFIS Switch Off
5. Avionics Master Switch Off
6. Throttle Idle
7. Magnetos Check for Ground
8. Mixture Idle Cut Off
9. Magneto Off, Remove Key
10. Master Switch Off
11. Control Wheel Lock Install
12. Fuel Selector Left or Right
13. Sun Shields Install
14. Pitot Tube Cover Put on
15. Aircraft Locked if away from Home
16. Flight Plan Closed

V Speeds and Specs

- X-Wind (Max Demo'd) 15 Knots
- Best Glide Speed 68 KIAS (flaps up)
- Vx (Sea Level) 62 KIAS
- Vy (Sea Level) 74 KIAS
- Vso Stall w/ Flaps 40 KIAS
- Vs1 Stall w/o Flaps 48 KIAS
- Va Maneuvering 95-105 KIAS
- Vno Max Structural Cruise 129 KIAS
- Vne Never Exceed 163 KIAS

Aircraft Information

- Gross Takeoff Weight 2550 lbs
- Engine Lycoming IO-360-L2A
- Max Power 180 BHP
- Max Engine Speed 2700 RPM
- Fuel Type 100LL (Blue)
- Fuel Capacity 53 Gal Usable
- Oil Capacity 8 Qts (Minimum 5)
- Electrical 24 - 28 Volt / 60 Amp
- Tire Pressure Nose-45/ Main-38 PSI

N810SA