

Cessna 172S

Operating Checklist

BEFORE EXTERIOR CHECK

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| 1. Aircraft Papers (AROW) | Check |
| 2. Progressive Inspections & AD's | Current |
| 3. Transponder Inspection | Current |
| 4. ALT/Static Systems | IFR/Current |
| 5. VOR Receivers | IFR/Current |
| 6. Fire Extinguisher | Green |
| 7. Control Lock (place in side pocket) | Remove |
| 8. Pitot heat cover | Remove |
| 9. Avionics Master/Electrical Switches (except beacon) | OFF |
| 10. Ignition Switch/EAS Switch | OFF/Key Out |
| 11. Master Switch | ON |
| 12. Exterior Lights and pitot heat | On/Check/OFF |
| 13. Fuel Quantity Gauges and Selector | Check/BOTH |
| 14. Wing Flaps | DOWN |
| 15. Master Switch | OFF |
| 16. Elevator Trim | SET T/O |
| 17. Fuel selector | BOTH |
| 18. Fuel Shut off | In |
| 19. Alternate Static Source | Cycle |
| 20. Adjust Seats/Seat Backs | Check/Set |

EXTERIOR CHECK

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|-------------------------------|------------|
| 1. Baggage Door | Check/Open |
| 2. Auto Pilot static source | Check |
| 3. Left Side Fuselage & Belly | Check |
| 4. Left Vertical Stabilizer | Check |
| 5. Left Horizontal Stabilizer | Check |

6. Left Elevator	Check
7. Rudder	Check
8. Tail Tie-Down	Remove
9. Right Vertical Stabilizer	Check
10. Right Elevator & Trim	Check
11. Right Horizontal Stabilizer	Check
12. Right Side Fuselage and Belly	Check
13. Antennas	Check
14. Right Landing Gear	Check
15. Right Wing Flap	Check
16. Right Aileron	Check
17. Right Wing Tip	Check
18. Right Wing	Check
19. Right Wing Tie-Down	Remove
20. Right Wing Strut	Check
21. Right Side Air Vents	Check
22. Windshield	Check/Clean
23. Right Side Engine Cowl & Exhaust Stack	Check
24. Propeller Spinner	Check
25. Propeller	Check
26. Alternator Belt	Check
27. Engine Cooling Air Inlets	Check
28. Engine Air Inlet & Filter	Check
29. Oil Sump Air Inlet	Check
30. Landing/Taxi Lights	Check
31. Nose Wheel & Strut Assembly	Check
32. Left Side Engine Cowl	Check
33. Flight Instruments Static Port	Check
34. Left Side Air Vents	Check
35. Left Wing Tie-Down	Remove
36. Left Wing Strut	Check

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|---------------------------|-------|
| 37. Stall Warning Orifice | Check |
| 38. Fuel Air Vent | Check |
| 39. Left Wing | Check |
| 40. Left Wing Tip | Check |
| 41. Left Aileron | Check |
| 42. Left Wing Flap | Check |
| 43. Left Landing Gear | Check |

AIRPLANE FLUIDS CHECK

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| 1. Left Wing Sump (5) | Sample |
| 2. Right Wing Sump (5) | Sample |
| 3. Belly Fuel Sump (3) | Sample |
| 4. Right Fuel Tank (use stick) | Check Quantity |
| 5. Right Fuel Tank Filler Cap | Secure |
| 6. Oil Quantity (max 7 quarts...add at 5 or below only) | Check |
| 7. Oil Dip Stick (if oil is needed, full quarts only – no partial) | Secure |
| a. Do not over tighten! | |
| 8. Engine Hatch | Close |
| 9. Left Fuel Tank (use stick) | Check Quantity |
| 10. Left Fuel Tank Filler Cap | Secure |
| 11. Baggage Compartment (replace tools) | Close |

ENGINE START CHECK

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|---|-----------------|
| 1. Passenger Briefing | Complete |
| 2. Charts, Plates, Logs, Runway Diagram | Review/Organize |
| 3. Seat Belts & Shoulder Harnesses | Adjust & Fasten |
| 4. Doors | Close & Lock |
| 5. Fuel Selector Handle | BOTH |
| 6. Circuit Breakers | Check In |
| 7. Beacon | ON |

8. STBY Battery Switch (G1000) ON
9. Avionics Switch OFF
10. Engine Start (**Cold**)
 - a. Mixture RICH
 - b. Throttle Open 1/2 inch
 - c. Master Switch ON
 - d. Fuel Pump Switch 4 Seconds
 - e. Propeller Area (Left, Center, Right) "CLEAR PROP"
 - f. Brakes ENGAGE
 - g. Ignition Switch ENGAGE
 - h. Throttle 1,000 RPM
 - i. Oil Pressure (shut down if not green in 30 sec) Check/Green
 - j. Mixture Lean for Taxi
11. Engine Start (**Hot**) (No Fuel Pump)
 - a. Mixture Lean For Density Altitude
 - b. Throttle Open ¼ inch
 - c. Master Switch ON
 - d. Propeller Area (Left, Center, Right) "CLEAR PROP"
 - e. Brakes ENGAGE
 - f. Ignition Switch ENGAGE
 - g. Throttle 1,000 RPM
 - h. Oil Pressure (shut down if not green in 30 sec) Check/Green
 - i. Mixture Lean for Taxi

BEFORE TAXI CHECKLIST

1. Avionics Master Switch ON
2. Flaps UP
3. Headsets on/Sound Check "Loud & Clear"
4. ATIS/COMS/NAV ON/Set
5. Barometric Pressure/Altimeter Check/Set
6. Clearance Delivery Call

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|-----------------------------|-------------|
| 7. Transponder | Check/Set |
| 8. Interior/Exterior Lights | As Required |

TAXI CHECK

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|-------------------|-----------------|
| 1. Brakes | Both Sets/Check |
| 2. Taxi Light | ON |
| 3. Ground Control | Call |

ENGINE RUN-UP/BEFORE TAKEOFF CHECK

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| 1. Nose wheel | Straight |
| 2. Brakes | Hold/Set |
| 3. Flight Instruments (primary and standby) | Check/Set |
| 4. Fuel Selector Switch | Both |
| 5. Flight Controls | Free & Correct |
| 6. Elevator Trim | Set for Takeoff |
| 7. Throttle (close & latch windows) | 1,800 RPM |
| 8. Mixture | Lean for ALT |
| 9. Engine Instruments | Green/Charging |
| 10. Magnetos (max 175rpm drop or 50rpm differential) | Check |
| 11. Test Annunciator Lights (Hold lever up 2 sec) | Check |
| 12. Throttle | Check for idle then 1,000 RPM |
| 13. COM & FLT PLN (GPS & VOR) Radios | Check & Set |
| 14. Transponder | Check |
| 15. Exterior Lights | As Required |
| 16. Wing Flaps | Set for Takeoff |
| 17. Brakes | Release |
| 18. Radio Call (call made at runway hold short) | Complete |

Cruise Check List

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|-----------------------|--------------------------------|
| 1. Mixture | Lean for Altitude |
| 2. Power | (2100-2400 RPM) Set for Cruise |
| 3. Engine Instruments | Green |
| 4. Seatbelts | Secure |

BEFORE LANDING CHECK

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|-------------------------------------|--------------------|
| 1. Seat Belts | Secure |
| 2. Fuel Selector | Both |
| 3. Mixture | Enrich for Descent |
| 4. Landing, Strobe, & Beacon Lights | ON |

AFTER LANDING CHECK – Clear of Runway

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| 1. Landing Lights & Strobes | OFF |
| 2. Flaps | UP |
| 3. COM Radio (Switch from tower to ground) | Check/Set |
| 4. Radio Call | Complete |

ENGINE SHUTDOWN CHECK

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|---|--------------|
| 1. Throttle | 1000 |
| 2. Avionics Master | OFF |
| 3. Lights Off (beacon stays on) | OFF |
| 4. Mixture (Gradually pull to idle cut-off) | Lean/Cut Off |
| 5. Ignition Switch | Off/Key Out |
| 6. Hobbs, Engine Tach & Fuel | Record |
| 7. Master Switch | OFF |
| 8. STBY Battery Switch (G1000) | OFF |
| 9. Control Lock/Pitot cover/Chocks | Complete |
| 10. Clean Windshield | Complete |
| 11. Put sunshade in windshield | Complete |
| 12. Doors and Baggage Door | Locked |

Great Basin Aviation

NOTE: This is a Flight School Guide Only; Please refer to your aircraft POH for details.