

Cessna 172SP – N2291C

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 | Current |
| 7. Control Lock (place in pilot-side pocket) | Remove |
| 8. Avionics Master/Electrical Switches (except beacon) | OFF |
| 9. Ignition Switch | OFF/Key Out |
| 10. Master Switch | ON |
| 11. Exterior Lights (night flight only) | Check/OFF |
| 12. Fuel Quantity Gauges and Selector | Check/BOTH |
| 13. Wing Flaps | DOWN |
| 14. Annunciators (volts/vacuum/fuel/oil-flashing) | Check |
| 15. Master Switch | OFF |
| 16. Elevator Trim | SET T/O |
| 17. Fuel Shutoff | IN |
| 18. Alternate Static Source | Cycle |
| 19. Adjust Seats/Seat Backs | Check/Set |

EXTERIOR CHECK

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|-------------------------------|------------|
| 1. Left Landing Gear | Check |
| 2. Baggage Door | Check/Open |
| 3. Autopilot Static Source | Check |
| 4. Left Side Fuselage & Belly | Check |
| 5. Left Vertical Stabilizer | Check |
| 6. Left Horizontal Stabilizer | Check |

7. Left Elevator	Check
8. Rudder	Check
9. Tail Tie-Down	Remove
10. Right Vertical Stabilizer	Check
11. Right Elevator & Trim	Check
12. Right Horizontal Stabilizer	Check
13. Right Side Fuselage and Belly	Check
14. Antennas	Check
15. Right Landing Gear	Check
16. Right Wing Flap	Check
17. Right Aileron	Check
18. Right Wing Tip & Lights	Check
19. Right Wing	Check
20. Right Wing Tie-Down	Remove
21. Right Wing Strut	Check
22. Right Side Air Vents	Check
23. Windshield	Check/Clean
24. Right Side Engine Cowl & Exhaust Stack	Check
25. Propeller Spinner	Check
26. Propeller	Check
27. Alternator Belt	Check
28. Nacelle Openings	Check
29. Engine Air Inlet & Filter	Check
30. Oil Sump Air Inlet	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
37. Pitot Tube (remove cover, place in pilot-side pocket)	Remove

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|---------------------------|-------|
| 38. Stall Warning Orifice | Check |
| 39. Fuel Air Vent | Check |
| 40. Landing/Taxi Lights | Check |
| 41. Left Wing | Check |
| 42. Left Wing Tip/Lights | Check |
| 43. Left Aileron | Check |
| 44. Left Wing Flap | Check |

AIRPLANE FLUIDS CHECK

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|--|----------------|
| 1. Baggage Compartment | Get Tools |
| 2. Left Wing Fuel Sumps (5) | Sample |
| 3. Right Wing Fuel Sumps (5) | Sample |
| 4. Belly Fuel Sump | Sample |
| 5. Right Fuel Tank (use stick) | Check Quantity |
| 6. Right Fuel Tank Filler Cap | Secure |
| 7. Oil Quantity (max 7 quarts...add at 5 or below only) | Check |
| 8. Oil Dip Stick (if oil is needed, full quarts only – no partial) | Secure |
| 9. Engine Hatch | Close |
| 10. Left Fuel Tank (use stick) | Check Quantity |
| 11. Left Fuel Tank Filler Cap | Secure |
| 12. Baggage Compartment (replace tools) | Close & Lock |

ENGINE START CHECK

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|---|-----------------|
| 1. Passenger Briefing | Complete |
| 2. Charts, Plates, Logs, Runway Diagram | Review/Organize |
| 3. Seat Belts | Adjust & Fasten |
| 4. Doors & Windows | Close & Lock |
| 5. Fuel Selector Handle | BOTH |
| 6. Circuit Breakers | Check In |
| 7. Rotating Beacon | ON |
| 8. STBY Battery Switch | ON/ARM |
| 9. Avionics Switch | OFF |

10. Engine Start (Cold)

- a. Mixture RICH
- b. Throttle Open ½ inch
- c. Master Switch ON
- d. Primer 2-3 Seconds
- e. Propeller Area "CLEAR"
- f. Brakes ENGAGE
- g. Ignition Switch ENGAGE
- h. Throttle 1,000 RPM
- i. Oil Pressure Check/Green
- j. Mixture Lean for Taxi

11. Engine Start (Hot)

- a. Mixture RICH
- b. Throttle Open ¼ inch
- c. Master Switch ON
- d. Propeller Area "CLEAR"
- e. Brakes ENGAGE
- f. Ignition Switch ENGAGE
- g. Throttle 1,000 RPM
- h. Oil Pressure Check/Green
- i. Mixture Lean for Taxi

BEFORE TAXI CHECKLIST

- 1. Avionics Master Switch ON
- 2. Wing Flaps UP
- 3. STBY Battery Switch Check/ON
- 4. COM & NAV Radios ATIS ON/Set
- 5. Barometric Pressure/Altimeter Check/Set
- 6. Transponder Check/Set
- 7. Interior/Exterior Lights As Required
- 8. Radio Calls Complete

TAXI CHECK

1. Brakes Both Sets/Check

ENGINE RUN-UP/BEFORE TAKEOFF CHECK

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 1,800 RPM
8. Mixture Lean for ALT
9. Engine Instruments Green/Charging
10. Magnetos (max 150rpm drop or 50rpm differential) Check
11. Alternator (min 24 volts) Check Load Meter
12. Annunciator Lights No Warnings
13. Throttle Check for Idle the 1,000 RPM
14. COM & FLT PLN (GPS & VOR) Radios Check & Set
15. Transponder Check
16. Exterior Lights (taxi light off/beacon, strobes, & landing lights) ON
17. Wing Flaps Set for Takeoff
18. Brakes Release
19. Radio Call (call made at runway hold short) Complete

BEFORE LANDING CHECK

1. Seat Belts Secure
2. Fuel Selector Both
3. Mixture Enrich for Altitude
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 | Check/Set |
| 4. Radio Call | Complete |

ENGINE SHUTDOWN CHECK

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|----------------------------------|--------------------|
| 1. Throttle | 1000 |
| 2. Avionics Master | OFF |
| 3. Mixture | Lean/Cut Off |
| 4. Master Switch | OFF |
| 5. Ignition Switch | Off/Key Out |
| 6. STBY Avionics Switch | ON |
| 7. Hobbs Meter & Tachometer | Check/Record Times |
| 8. STBY Avionics Switch | OFF |
| 9. Control Lock/Tie-Downs/Chalks | Complete |
| 10. Clean Windshield | Complete |

CLOSE FLIGHT PLAN

Great Basin Aviation

NOTE: This is a Flight School Guide Only; Please refer to N2291C POH for details.