

# Cessna 172R – N37JA

## Operating Checklist

### BEFORE EXTERIOR CHECK

- |  |             |
|--|-------------|
| 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. Avionics Master/Electrical Switches (except beacon) | OFF         |
| 9. Ignition Switch/EAS Switch                          | OFF/Key Out |
| 10. Master Switch                                      | ON          |
| 11. Exterior Lights                                    | Check/OFF   |
| 12. Fuel Quantity Gauges and Selector                  | Check/BOTH  |
| 13. Wing Flaps   | DOWN        |
| 14. Master Switch                                      | OFF         |
| 15. Elevator Trim                                      | SET T/O     |
| 16. Fuel   | BOTH        |
| 17. Alternate Static Source                            | Cycle       |
| 18. Adjust Seats/Seat Backs                            | Check/Set   |

### EXTERIOR CHECK

- |                               |            |
|-------------------------------|------------|
| 1. Baggage Door               | Check/Open |
| 2. Left Side Fuselage & Belly | Check      |
| 3. Left Vertical Stabilizer   | Check      |
| 4. Left Horizontal Stabilizer | Check      |
| 5. Left Elevator              | Check      |
| 6. Rudder                     | Check      |
| 7. Tail Tie-Down              | Remove     |

- |   |             |
|---|-------------|
| 8. Right Vertical Stabilizer                              | Check       |
| 9. Right Elevator & Trim                                  | Check       |
| 10. Right Horizontal Stabilizer                           | Check       |
| 11. Right Side Fuselage and Belly                         | Check       |
| 12. Antennas  | Check       |
| 13. Right Landing Gear                                    | Check       |
| 14. Right Wing Flap                                       | Check       |
| 15. Right Aileron   | Check       |
| 16. Right Wing Tip & Lights                               | Check       |
| 17. Right Wing  | Check       |
| 18. Right Wing Tie-Down                                   | Remove      |
| 19. Right Wing Strut                                      | Check       |
| 20. Right Side Air Vents                                  | Check       |
| 21. Windshield  | Check/Clean |
| 22. Right Side Engine Cowl & Exhaust Stack                | Check       |
| 23. Propeller Spinner                                     | Check       |
| 24. Propeller   | Check       |
| 25. Alternator Belt                                       | Check       |
| 26. Nacelle Openings                                      | Check       |
| 27. Engine Air Inlet & Filter                             | Check       |
| 28. Oil Sump Air Inlet                                    | Check       |
| 29. Landing/Taxi Lights                                   | Check       |
| 30. Nose Wheel & Strut Assembly                           | Check       |
| 31. Left Side Engine Cowl                                 | Check       |
| 32. Flight Instruments Static Port                        | Check       |
| 33. Left Side Air Vents                                   | Check       |
| 34. Left Wing Tie-Down                                    | Remove      |
| 35. Left Wing Strut                                       | Check       |
| 36. Pitot Tube (remove cover, place in pilot-side pocket) | Remove      |
| 37. Stall Warning Orifice                                 | Check       |
| 38. Fuel Air Vent   | Check       |

- |                          |       |
|--------------------------|-------|
| 39. Left Wing            | Check |
| 40. Left Wing Tip/Lights | Check |
| 41. Left Aileron         | Check |
| 42. Left Wing Flap       | Check |
| 43. Left Landing Gear    | Check |

### AIRPLANE FLUIDS CHECK

- |  |                |
|--|----------------|
| 1. Baggage Compartment   | Get Tools      |
| 2. Left Wing Sump (5)  | Sample         |
| 3. Right Wing Sump (5)   | Sample         |
| 4. Belly Fuel Sump (3)   | 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         |
| a. <b>Do not over tighten!</b>                                     |                |
| 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          |

### ENGINE START CHECK

- |   |                 |
|---|-----------------|
| 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. Rotating Beacon                      | ON              |
| 8. Avionics Switch                      | OFF             |
| 9. Engine Start ( <b>Cold</b> )         |                 |
| a. Mixture                              | RICH            |

- b. Throttle Open ¼ inch
  - c. Master Switch ON
  - d. Fuel Pump Switch 2-3 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
- 10. Engine Start (Hot)**
- a. Mixture RICH
  - 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. Headsets on/Sound Check "Loud & Clear"
- 3. ATIS ON/Set
- 4. Barometric Pressure/Altimeter Check/Set
- 5. Clearance Delivery Call
- 6. Transponder Check/Set
- 7. Interior/Exterior Lights As Required

## **TAXI CHECK**

- |                   |                 |
|-------------------|-----------------|
| 1. Brakes         | Both Sets/Check |
| 2. Ground Control | Call            |
| 3. Wing Flaps     | UP              |
| 4. Taxi Light     | ON              |

## **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 (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 (taxi light off/beacon, strobes, & landing lights) | ON                            |
| 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     | Set for Cruise    |
| 3. Seatbelts | Secure            |

## BEFORE LANDING CHECK

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

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

1. Throttle 1000
2. Hobbs Meter & Tachometer Check/Record Times
3. Avionics Master OFF
4. Lights Off (beacon stays on) OFF
5. Mixture (Gradually pull to idle cut-off) Lean/Cut Off
6. Master Switch OFF
7. Ignition Switch Off/Key Out
8. Control Lock/Tie-Downs/Chocks Complete
9. Clean Windshield Complete
10. Put sunshade in windshield Complete
11. Doors and Baggage Door Locked

## CLOSE FLIGHT PLAN

### Great Basin Aviation

**NOTE:** This is a Flight School Guide Only; Please refer to N37JA Operating Manual for details.