

# Cessna 172M – N10446

## 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                                   | Current     |
| 7. Control Lock (place in pilot-side pocket)           | Remove      |
| 8. Avionics Master/Electrical Switches (except beacon) | OFF         |
| 9. Ignition Switch/EAS Switch                          | OFF/KeyOut  |
| 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. 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. Left Landing Gear          | Check      |
| 2. Baggage Door               | Check/Open |
| 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 & Lights                               | 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. Nacelle Openings                                      | 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       |
| 37. Pitot Tube (remove cover, place in pilot-side pocket) | Remove      |
| 38. Stall Warning Orifice                                 | Check       |

- |                          |       |
|--------------------------|-------|
| 39. Fuel Air Vent        | Check |
| 40. Left Wing            | Check |
| 41. Left Wing Tip/Lights | Check |
| 42. Left Aileron         | Check |
| 43. Left Wing Flap       | Check |

### AIRPLANE FLUIDS CHECK

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|--|----------------|
| 1. Baggage Compartment   | Get Tools      |
| 2. Left Wing Sump  | Sample         |
| 3. Right Wing Sump   | 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 & Shoulder Harnesses      | Adjust & Fasten |
| 4. Doors & Windows                      | Close & Lock    |
| 5. Fuel Selector Handle                 | BOTH            |
| 6. Circuit Breakers                     | Check In        |
| 7. Rotating Beacon                      | ON              |
| 8. Avionics Switch/EFIS Switch          | OFF             |
| 9. Engine Start ( <b>Cold</b> )         |                 |
| a. Mixture                              | RICH            |
| b. Carb Heat                            | OFF             |

- |                    |               |
|--------------------|---------------|
| c. Throttle        | Open ¼ inch   |
| d. Master Switch   | ON            |
| e. Primer*         | 2-3 Shots     |
| f. Propeller Area  | “CLEAR”       |
| g. Brakes          | ENGAGE        |
| h. Ignition Switch | ENGAGE        |
| i. Throttle        | 1,000 RPM     |
| j. Oil Pressure    | Check/Green   |
| k. Mixture         | Lean for Taxi |

\*Pull primer out and keep it out for 10-15 seconds before pushing it back in.

### 10. Engine Start (Hot)

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

### TAXI CHECK

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|-----------|-----------------|
| 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 175rpm drop or 50rpm differential) Check
11. Pull Carb Heat (rpm drop) Check
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
5. Carb Heat As Required

## **AFTER LANDING CHECK – Clear of Runway**

1. Landing Lights & Strobes OFF
2. Flaps UP

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|---------------|-----------|
| 3. COM Radio  | Check/Set |
| 4. Radio Call | Complete  |

### **ENGINE SHUTDOWN CHECK**

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|----------------------------------|--------------------|
| 1. Throttle                      | 1000               |
| 2. Hobbs Meter & Tachometer      | Check/Record Times |
| 3. Avionics Master/EFIS Switch   | OFF                |
| 4. Lights Off (beacon stays on)  | OFF                |
| 5. Mixture                       | Lean/Cut Off       |
| 6. Master Switch                 | OFF                |
| 7. Ignition Switch               | Off/Key Out        |
| 8. Control Lock/Tie-Downs/Chalks | Complete           |
| 9. Clean Windshield              | Complete           |
| 10. Put sunshade in windshield   | Complete           |

### **CLOSE FLIGHT PLAN**

## **Great Basin Aviation**

**NOTE:** This is a Flight School Guide Only; Please refer to N10446 Operating Manual for details.