

Cessna-172M N5094R
(10-26-23)

***Check Fuel Quantity**

Preflight Cabin

- | | |
|----------------------------------|-----------------|
| 1. Windscreen | Clean |
| 2. Pitot/AoACover | Remove |
| 3. AROW(+ Supplements) | Check |
| 3. Parking Brake | Off if Chocked |
| 5. Control Wheel Lock | Remove |
| 6. Fuel Selector Valve | Both |
| 7. Elevator Trim | Set for Takeoff |
| 8. Alternate Static Source | Off |
| 9. Ignition Switch | Off |
| 10. ALT & Avionics Master Switch | Off |
| 11. Battery Master Switch | On |
| 12. Fuel Quantity | Adjust/Accept |
| 13. Hobbs/Tach Time | Record |
| 14. Avionics Master switch | On |
| 15. Avionics Cooling Fan | Check/Off |
| 16. Flaps | Extend |
| 17. Pitot Heat, Lights | On/Check/Off |
| 18. Master Switch | Off |
| 19. Screens | Confirm Off |

Preflight Empennage

- | | |
|---------------------|------------------------------|
| 1. Tail Tie-Down | Disconnect |
| 2. Control Surfaces | Check Freedom and Security |
| 3. Trim Tab | Check Security |
| 4. Antennas | Check Security and Condition |

Preflight Right Wing

- | | |
|--------------------------|----------------|
| 1. Flap | Check |
| 2. Aileron | Check |
| 3. Wing Tie Down | Disconnect |
| 4. AoA Tube | Check |
| 5. Main Wheel Tire/Brake | Check |
| 6. Fuel Quantity | Check Visually |
| 7. Fuel Drain Valve (1) | Drain/Check |
| 8. Fuel Filler Cap | Secure |

Preflight Nose

- | | |
|------------------------------|--------------------------------------|
| 1. Fuel Strainer Valve | Pull to Check
Ensure Full Closure |
| 2. Engine Oil Dipstick | Check level and Secure |
| | *5 qt minimum |
| | *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 for Blockage |
| 3. Stall Warning Opening | Check for Blockage |
| 4. Wing Tie Down | Disconnect |
| 5. Fuel Quantity | Check Visually |
| 6. Fuel Drain Valve(1) | Drain/Check |
| 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- Airvents | |
| F- Fuel | |
| E- Emergency | |
| T- Traffic | |
| Y- Your Questions | |
| 3. Seats/Seatbelts | Adjust and Lock |
| 4. Brakes | Test & Set |
| 5. Circuit Breakers | Check In |
| 6. Lights | Off Except Beacon |

CAUTION

The Avionics Master switch and ALT switch must be off during engine start to prevent damage to avionics

- | | |
|-------------------------------|-------------|
| 7. Avionics Master/ALT switch | OFF |
| 8. Fuel Selector Valve | Verify Both |

Starting Engine

- | | |
|--------------------------|----|
| 1. Battery Master Switch | On |
|--------------------------|----|

NOTE

If engine is warm omit priming procedure

PRIMING PROCEDURE

- | | |
|--------------|---------------|
| 1. 1-3 Pumps | IF NEEDED |
| 2. Primer | In and Locked |

STARTING ENGINE

- | | |
|-------------------------|---------------|
| 1. Mixture Control | Full Rich |
| 2. Carb Heat | Cold |
| 3. Throttle | Pump x2 |
| 4. Throttle | Open 1/8 Inch |
| 5. Propeller Area | Clear |
| 6. Ignition Switch | Start |
| 7. Oil Pressure | Check |
| 8. Throttle | 800-1000 RPM |
| 9. Mixture | Lean 1" |
| 10. Master Switch (ALT) | On |
| 11. Nav Lights | On at Night |
| 12. Avionics Master | On |
| 13. Flaps | Retract |
| 14. Flap handle | Neutral |

Before Taxi

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

Taxi

- | | |
|--------------------|-----------------------------|
| 1. Brakes | Release and Test |
| 2. Throttle | Adjust for Min Brake Use |
| 3. Check | Required Flight Instruments |
| 4. Flight Controls | Position for Wind |

NOTE:

This checklist is a guide to coordinate Pilot Operating Handbook 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

Property of Black Hound Aviation

Do not remove from N5094R

Before Takeoff - Run-Up

1. Parking Brake Set
2. Seats/Seatbelts Secure
3. Seat Backs Most Upright Position
4. Cabin Doors Closed and Locked
5. Flight Controls Free & Correct
6. Flight Instruments Check & Set
7. Fuel Quantity Check
8. Mixture Richen +1/2"
9. Carb Heat Cold
10. Throttle 1700 RPM
 1. Mag Check (125/50 max)
 2. Carb Heat Check RPM Drop
 3. Engine Instruments Check
 4. Amps/Volts Check Positive/~14V
11. Annunciators Check
12. Throttle Check Idle
13. Throttle 800-1000 RPM
14. Mixture Set 1/2" Lean
15. Throttle Friction Lock Adjust
16. Skyview CDI Select Nav Source
17. Transponder Verify ALT/SQK
25. Carb Heat Cold
26. Parking Brake Release

Before Takeoff- Hold Short Line

1. Frequency TWR/CTAF
2. Elevator Trim Set for Takeoff
3. Flaps Set for Takeoff (0°-10°)
4. Land/Taxi/Bcn/Strobe On
Nav Lights Night Only
5. Takeoff Brief
Runway/Takeoff Type/Speeds/Heading/Altitude
Lose engine on runway IDLE, EXIT RWY
Lose engine airborne rwy remaining LAND
Lose engine below 1000 AGL PUSH 70KTS
Land Straight +/-30°
- Above 1000 AGL PUSH 70KTS
Consider return to airport
6. Mixture Best Power

Normal Takeoff

1. Flaps 0°
2. Throttle Full Open
3. Vr 52 KIAS
4. Vy 70 KIAS

SHORT FIELD

1. Use all Available Runway
2. Hold Brakes/Full Power/Check RPM
3. Release Brakes
4. Vr 52 KIAS
5. Vx 59 KIAS
6. Obstacle Cleared 70 KIAS/Flaps UP

SOFT FIELD

1. FLAPS 10°
2. Full Aft/No Brakes
3. Remain in Ground Effect
4. Begin Climb Vx 58 KIAS
5. Obstacle Cleared 70 KIAS/Flaps UP

Enroute Climb

1. Airspeed 70 - 80 KIAS
2. Throttle Full Open
3. Carb Heat Cold
4. Mixture Full Rich below 3000'
5. Engine Instruments/CHT Check

Cruise

1. Power As Needed
2. Carb Heat As Needed
3. Elevator Trim Adjust
4. Mixture Lean as Needed
5. Lights As Needed

Before Descent

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

Before Landing

1. Seat Backs Most Upright Position
2. Seats & Seat Belts Secure & Lock
3. Fuel Selector Valve Both
4. Mixture Control Richen
5. Carb Heat As Needed
(apply full heat prior to idle)
6. Landing & Taxi Lights On

Normal Landing

1. Airspeed (w/flaps) 56 - 65 KIAS
2. Airspeed (no flaps) 60-70 KIAS
3. Flaps As Needed
Below 85 KIAS

SHORT FIELD LANDING

1. Flaps 40°
2. Airspeed 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. Carb Heat Cold
3. Wing Flaps Retract to 20°
4. Climb Speed 65 KIAS
5. Flaps Retract Slowly

After Landing (Clear of Runway)

1. Carb Heat Cold
2. Aircraft Clear of Runway
Full Stop
3. Throttle 800-1000 RPM
4. Mixture Lean 1"
5. Throttle Adjust for Min Brake Use
6. Wing Flaps Up
7. Lights As Needed
8. Transponder ALT/1200
9. Pitot Heat Off
10. Taxi Clearance Brief

Securing Aircraft

1. Parking Brake Off if Chocked
2. Lights Off
3. Avionics Master,PFD Switch Off
4. Throttle Idle
5. Magnetos Check for Ground
6. Mixture Idle Cut Off
7. Magnetos Off, Remove Key
8. Master/ALT Switch Off
9. Control Wheel Lock Install
10. Fuel Selector Left or Right
11. Pitot/AoA Tube Cover Install
12. Sun Shield Install
13. Aircraft Locked if away from Home
14. Flight Plan Closed

V Speeds and Specs

- X-Wind (Max Demo'd) 15 Knots
- Best Glide Speed 69 KIAS (flaps up)
- Short Field Takeoff flaps 10° 58 KIAS
- Vx (Sea Level) 59 KIAS
- Vy (Sea Level) 70 KIAS
- Vso Stall w/ Flaps 42 KIAS
- Vs1 Stall w/o Flaps 49 KIAS
- Va (2550#) 97 KIAS
- Va (2150#) 95 KIAS
- Va (1750#) 85 KIAS
- Vno Max Structural Cruise 126 KIAS
- Vne Never Exceed 158 KIAS
- **Aircraft Information**
- Gross Takeoff Weight 2300 lbs
- Engine Lycoming O-360-A4M
- Max Power 150 BHP
- Max Engine Speed 2700 RPM
- Fuel Type 100LL (Blue)
- Fuel Capacity 48 Gal Usable
- Oil Capacity 8 Qts (Minimum 5)
- Electrical 14 Volt
- Tire Pressure Nose-45/ Main-38 PSI
- BEW 1488.57
- Arm 38.65
- Moment 57526.97