

Cessna-172M N5094R
(8-19-24)

***Check Fuel and Oil Quantity (max 38 usable fuel and 5 minimum oil)**

Preflight Cabin

- | | | | |
|---|-------------------|------------------------------|-------|
| 1. S.P.A.R.O.W | Check | 4. Propeller & Spinner | Check |
| 2. Pitot/AOA Cover | Remove | 5. Engine Cowling Security | Check |
| 3. Control Wheel Lock | Remove | 6. Alternator Belt | Check |
| 4. All Switches (Lgts,Avx,Alt,Ignition) | Off | 7. Air Filter | Check |
| 5. Battery Master Switch | On | 8. Nose Wheel Strut and Tire | Check |
| 6. Avionics Switch | On,Verify Fan,Off | 9. Static Source Opening | Check |
| 7. Fuel Quantity | Adjust/Accept | | |
| 8. Hobbs/Tach Time | Record | | |
| 9. Flaps | Extend | | |
| 10. Pitot Heat, Lights | On/Check/Off | | |
| 11. Master Switch | Off | | |
| 12. Screens | Confirm Off | | |
| 13. Windscreen | Clean | | |

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 Drain Valve (1) | Drain/Check |
| 7. Fuel Quantity | Check Visually |
| 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 (5.5 Summer) |
| | *Fill to 6+ for extended flights |
| | *DO NOT OVERTIGHTEN* |
| 3. Engine Cooling Air Inlets | Clear |

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- Air |
| | F- Fire |
| | E- Emergency |
| | T- Talking |
| | Y- Your Questions |
| 3. Seats/Seatbelts | Adjust and Lock |
| 4. Brakes | Test & Set |
| 5. Fuel Selector | Both |
| 6. Elevator Trim | Set for Takeoff |
| 7. Alternate Static Source | Off/in |
| 8. Mixture | Rich |
| 9. Throttle | Pump x2 |
| 10. Throttle | 1/8" In |

- | | |
|----------------------|-------------------|
| 11. Circuit Breakers | Check In |
| 12. Lights | Off Except Beacon |

CAUTION

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

- | | |
|--------------------------------|-----|
| 11. Avionics switch/ALT switch | OFF |
|--------------------------------|-----|

NOTE

If engine is warm omit priming procedure

PRIMING PROCEDURE

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

Starting Engine

- | | |
|--------------------------|--------------|
| 1. Battery Master Switch | On |
| 2. Propeller Area | Clear |
| 3. Ignition Switch | Start |
| 4. Throttle | 800-1000 RPM |
| 5. Oil Pressure | Check |
| 6. Mixture | Lean 1" |
| 7. Master Switch (ALT) | On |
| 11. Avionics Master | On |
| 12. Flaps | Retract |
| 13. Flap handle | Neutral |
| 14. Nav Lights | On at Night |

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. Airport Diagram | Available |
| 2. Taxi Clearance | Obtain |
| 3. Taxi Route | Brief |
| 4. Taxi Area | Clear |
| 5. Brakes | Release and Test |
| 6. Throttle | Adjust for Min Brake Use |
| 7. Check | Required Flight Instruments |
| 8. 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-Upt

1. Seats/Seatbelts	Secure
2. Seat Backs	Most Upright Position
3. Cabin Doors	Closed and Locked
4. Flight Controls	Free & Correct
5. Flight Instruments	Check & Set
6. Fuel Quantity	Check
7. Mixture	Richen +1/2"
8. Carb Heat	Cold
9. Throttle	1700 RPM
1. Mag Check	(125/50max)
2. Carb Heat	Check RPM Drop
3. Engine Instruments	Check
4. Amps/Volts	Check Positive/~14V
10. Annunciators	Check
11. Throttle	Check Idle
12. Throttle	800-1000 RPM
13. Mixture	Set 1/2" Lean
14. 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	(0°-10°)
4. Takeoff	Brief
Runway/Takeoff Type/Speeds/HDG/ALT	Lose Engine...
Runway	IDLE, EXIT RWY
Airborne Rwy Remaining	LAND
Below 1000 AGL	PUSH 70kts,
	Land Straight +/-30°
Above 1000 AGL	PUSH 70kts,
	Consider Return to Airport
5. Land/Taxi/Bcn/Strobe	On
6. Nav Lights	Night Only
7. 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 Max Rpm
5. Lights	As Needed

Pre-Maneuver Checklist

1. Instruments	Check
2. Configure Airplane	
Fuel	Tank Both
Mixture	Full Rich
Carb Heat	Off
Landing Light	On
3. Seatbelts	Secure
4. Clearing Turns	Execute
5. Radio Call	As Required

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 Nose Wheel 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)
- 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 38 Gal Usable
- Oil Capacity 8 Qts (Minimum 5)
- Electrical 14 Volt
- Tire Pressure Nose-45/ Main-38 PSI