

Cessna-172M N172JD

(10-26-23)

*Check Fuel Quantity

Preflight Cabin

- | | |
|----------------------------------|--------------------|
| 1. Pitot Tube Cover | Remove |
| 2. AROW(+ supplements) | Check |
| 3. Parking Brake | Set if Not Chocked |
| 5. Control Wheel Lock | Remove |
| 6. Fuel Selector Valve | Both |
| 7. Alternate Static Source | Off |
| 8. Elevator Trim | Set for Takeoff |
| 9. Ignition Switch | Off |
| 10. Radio Master/PFD Switch | Off |
| 11. Master Switch (Battery Only) | On |
| 12. Fuel Quantity/Annunciators | Check |
| 13. Flaps | Extend |
| 14. Pitot Heat, Lights | On/Check/Off |
| 15. Master Switch | Off |
| 16. Baggage Door | Secure |

Preflight Empennage

- | | |
|---------------------|------------------------------|
| 1. Aspen OAT | Check for Blockage |
| 2. Tail Tie-Down | Disconnect |
| 3. Control Surfaces | Check Freedom and Security |
| 4. Trim Tab | Check Security |
| 5. Antennas | Check Security and Condition |

Preflight Right Wing

- | | |
|--------------------------|----------------|
| 1. Aileron | Check |
| 2. Flap | Check |
| 3. Wing Tie Down | Disconnect |
| 4. Main Wheel Tire/Brake | Check |
| 5. Fuel Quantity | Check Visually |
| 6. Fuel Drain Valve (1) | Drain/Check |
| 7. 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. Alternator Belt | Check | |
| 6. Air Filter | Check | |
| 7. Nose Wheel Strut and Tire | Check | |
| 8. 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 |

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 radio master switch and PFD switch must be off during engine start to prevent possible damage to avionics.

- | | |
|-----------------------------|-------------|
| 7. Radio Master, PFD Switch | OFF |
| 8. Fuel Selector Valve | Verify Both |

Starting Engine

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. Master Switch (Battery Only) | On |
| 7. Flashing Beacon | On |
| 8. Ignition Switch | Start |
| 9. Oil Pressure | Check |
| 10. Throttle | 1000 RPM |
| 11. Mixture | Lean for Max RPM |
| 12. Throttle | 800-1000 RPM |
| 13. Master Switch (ALT) | On |
| 13. Nav Lights | OFF Except for Night |
| 14. Radio Master/Radios | On |
| 15. PFD Switch | On |
| 16. EDM 830 Display "REFUEL?" | Y/N |
| | See EDM830 Cheat Sheet for more |
| 17. Flaps | Retract |
| 18. Flap handle | Neutral |

Before Taxi

- | | |
|---------------------------|----------------------|
| 1. Heat / Vents / Defrost | 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 Flight Instruments | |
| | • ASPEN PFD/STBY |

NOTE:

This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only. The applicable Pilot Operating Handbook and STC installations remain the official documentation for this aircraft. The pilot in command is responsible for complying with all items in the Pilot Operating Handbook and applicable STCs

**Property of
Black Hound
Aviation
Do not remove
from N172JD**

Before Takeoff - Run-Up

1. Parking Brake Set
2. Seats Secure
3. Seat Backs Most Upright Position
4. Seat Belts Secure
5. Cabin Doors Closed and Locked
6. Flight Controls Free & Correct
7. Flight Instruments Check & Set
8. Fuel Quantity Check
9. **Mixture Full Rich**
10. Carb Heat Cold
11. Fuel Selector Valve Both
12. Throttle 1700 RPM

1. Mixture: Lean for Max RPM

2. Mag Check (125/50 max)
3. Carb Heat Check RPM Drop
CRB Temp Increase
4. Engine Instruments Check
5. Amps/Volts Check
13. Annunciators Check
14. Throttle Check Idle
15. Throttle 800-1000 RPM
16. Mixture Lean as Needed
17. Throttle Friction Lock Adjust
18. GPS CDI Select Nav Source
19. ASPEN CDI Select Nav Source
20. EDM830 Switch Select EGT
21. Elevator Trim Set for Takeoff
22. Transponder Verify ALT/SQK
No Annunciations
23. Land/Taxi/Bcn/Strobe On
Nav Lights Night Only
25. Carb Heat Cold
26. Parking Brake Release

Before Takeoff- Hold Short Line

1. Frequency TWR/CTAF
2. Flaps Set for Takeoff (0°-10°)
3. 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

4. Mixture Best Power

All speeds in KIAS

Normal Takeoff

1. Flaps 0°-10°
2. Throttle Full Open
3. Vr 53 KIAS
4. Vy 73 KIAS

SHORT FIELD

1. FLAPS 10°
2. Use all Available Runway
3. Hold Brakes/Full Power/Check RPM
4. Release Brakes
5. Vr 53 KIAS
6. Vx 58 KIAS
7. Obstacle Cleared 73 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 73 KIAS/Flaps UP

Enroute Climb

1. Airspeed 80 - 90 KIAS
2. Throttle Full Open
3. Carb Heat Cold
4. Mixture Full Rich below 3000'
5. Engine Instruments/CHT Check
6. Transponder Verify ALT/SQK

Cruise

1. Power As Needed
2. Carb Heat As Needed
3. Elevator Trim Adjust
4. Mixture Lean as Needed
5. Lights As Needed
6. EDM830 Switch As Needed

Before Descent

1. Weather (ATIS) Obtain
2. Altimeters Set
3. Approach Brief
4. VOR/GPS Setup As Needed
5. ASPEN and GPS CDI Select
6. Fuel Selector Valve Both
7. Mixture Adjust
8. 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 65 - 75 KIAS
2. Flaps As Needed
Below 85 KIAS

SHORT FIELD

1. Flaps 30°
2. Airspeed 61 KIAS
3. Aerodynamic Braking Flaps UP
Yoke Aft
Apply Brakes

SOFT FIELD

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 1000 RPM
4. **Mixture Lean for Maximum RPM**
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 As Needed
2. Electric Equipment Off
3. PFD Switch Off
4. Radio Master Switch Off
5. Throttle Idle
6. Magnetos Check for Ground
7. Mixture Idle Cut Off
8. Magnetos Off, Remove Key
9. Master Switch Off
10. Control Wheel Lock Install
11. Parking Brake Off when Chocked
12. Fuel Selector Left or Right
13. Sun Shields Install
14. Aircraft Locked if away from Home
15. Flight Plan Closed

V Speeds and Specs

- X-Wind (Max Demo'd) 15 Knots
- Best Glide Speed 68 KIAS (flaps up)
- Short Field Takeoff flaps10° 58KIAS
- Vx (Sea Level) 62 KIAS
- Vy (Sea Level) 73 KIAS
- Vso Stall w/ Flaps 49 KIAS
- Vs1 Stall w/o Flaps 56 KIAS
- Va (2550#) 105 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 2550 lbs
- Engine Lycoming O-360-A4M
- Max Power 180 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
- BEW 1488.57
- Arm 38.65
- Moment 57526.97