

# N172JK Checklist

## STARTING THE ENGINE

Parking Brake – **SET**  
Seatbelts – **ON**  
Seats – **Set & Locked**  
Wing Flaps - **UP**  
Master Switch – **ON**  
Beacon- **ON**  
Carburetor Heat – **COLD**  
Fuel Selector - **BOTH**  
Mixture – **RICH**  
Prime – **AS NEEDED**  
Throttle- **Open 1/4 INCH**  
Propeller Area – **CLEAR**  
Ignition Switch – **START ( Max 10 Secs)**  
Oil Pressure – **CHECK**  
Mixture - **LEAN**  
Avionics Switch- **ON**  
Weather- **CHECK**

## BEFORE TAXI

Flight Instruments – **SET**  
Lights – **AS REQUIRED**  
Parking Brake - **RELEASE**  
Brakes – **TEST**

## BEFORE TAKE OFF

Parking Brake - **ON**  
Cabin Doors – **LATCHED**  
Flight Controls – **FREE AND CORRECT**  
Elevator Trim – **TAKE OFF POSITION**  
Brakes – **SET**  
Mixture-- **RICH**  
Throttle – **1600 RPM**  
Magnetos – **CHECK**  
Carburetor Heat – **CHECK FOR RPM DROP**  
Throttle – **IDLE**  
Engine Instruments – **CHECK**  
Fuel Gauges - **CHECK**  
Alternator Low Voltage Light – **CHECK**  
Ammeter - **Check**  
Flight Instruments – **SET**  
Avionics – **SET**

Transponder –**Verify “ALT” after take off**  
Lights – **AS REQUIRED**  
Fuel Selector – **BOTH**  
Mixture – **RICH**  
Windows – **CLOSED**  
Parking Brake – **OFF**  
Clock/Timer – **START**

## NORMAL TAKE OFF

Wing Flaps – **UP**  
Mixture – **RICH**  
Carburetor Heat – **COLD**  
Throttle – **FULL OPEN**  
Rotate – **60 mph**  
Climb Speed – **85 mph**

## SHORT FIELD TAKEOFF

Wing Flaps – **UP**  
Carburetor Heat – **COLD**  
Brakes – **HOLD**  
Throttle – **FULL OPEN**  
Brakes – **RELEASE**  
Rotate – **60 mph**  
Climb Speed – **65 mph** (until Obstacles are Cleared)  
Resume Normal Climb Speed of **85 mph**

## SOFT FIELD TAKE OFF

Wing Flaps – **10 Degrees**

## CLIMB CHECKLIST

Throttle – **FULL OPEN**  
Air Speed – **85 mph**  
Mixture – **RICH**

## CRUISE CHECKLIST

Power- **SET**  
Elevator Trim – **SET**  
Mixture – **LEAN**

# N172JK Checklist

## BEFORE LANDING CHECKLISTS

Seatbelts - **ON**

Mixture – **RICH**

Carburetor Heat – **ON**

Flaps – **AS DESIRED**

Airspeed – Flaps Down – **65- 75 MPH**

Airspeed – Flaps Up – **70 – 80 MPH**

## SHORT FIELD & SOFT FIELD

LANDINGS – FLAPS - **40 Degrees**

## AFTER LANDING

Wing Flaps – **UP**

Carburetor Heat- **COLD.**

Mixture – **LEAN**

Trim Tab - **SET**

## ENGINE SHUT DOWN

Parking Brake – **SET**

Lights - **OFF**

Avionics Switch – **OFF**

Mixture - **IDLE CUT OFF**

Magnetos- **OFF**

Master Switch – **OFF**

Hand Held Electrical Equipment – **OFF**

## SECURING AIRCRAFT

Control Lock – **INSTALL**

**Tie down Aircraft**

**Chock - Aircraft**

## **ENGINE FAILURE IN FLIGHT A –B –C – D**

**Airspeed-** Best Glide - 75 mph

**Best Place To Land**

**Engine Failure Checklist-**

Seat Belts – **ON**

FUEL - **BOTH**

Mixture – **RICH**

Carburetor Heat – **ON**

Ignition Switch – **BOTH**

Primer – **IN and LOCKED**

**Declare Emergency** – 121.5

SQWK – 7700

**IF UNABLE TO RESTART –**

Fuel Selector – **OFF**

Mixture – **Idle Cut OFF**

Master Switch – **OFF**

## AIRSPPEEDS

**Vr – 60 MPH**

**Vx – 65 MPH**

**Vy – 85 MPH      Best Glide – 75 MPH**

## Alternator Failure

Alternator Field Switch – **ON/Reset**

Alternator Circuit Breaker – **Check**

Ammeter – **Check**

**If unable to fix, turn off Alternator  
Field Switch, land, and troubleshoot.**

# N172JK Checklist

## PRE-FLIGHT CHECKLIST

### Cockpit Check

Control Lock - **REMOVE**  
Master Switch- **ON**  
Flaps- **Lower 30 degrees**  
Fuel Gauges - **CHECK**  
Master Switch – **OFF**  
Fuel Quantity - **CHECK**  
Fuel Strainer – **Pull for 3 Seconds**

### Left Fuselage

Left Landing Gear- **Check**  
Left Tire – **Check**  
Left Brake – **Check**  
ELT Antenna - **Check**  
Left Fuselage – **Check**

### Tail Inspection

Left horizontal Stabilizer – **Check**  
Elevator- **Check**  
Rudder – **Check**  
Right Horizontal Stabilizer – **Check**  
Tail Tie Down - **Remove**  
Beacon – **Check**  
VOR Antennas – **Check**

### Right Fuselage

Right Fuselage – **Check**  
Right Landing Gear – **Check**  
Right Tire – **Check**  
Right Brake – **Check**

### Right Wing

Right Fuel Tank – **Sump**  
Flap – **Check**  
Aileron – **Check**  
Wing Tip – **Check**  
Navigation Light – **Check**

Leading Edge – **Check**

Tie Down - **Remove**

Fuel Tank – **Check Quantity**

Fuel Cap – **Installed**

### Aircraft Nose

Right Engine Cowling – **Secure**

Propeller- **Check**

Spinner - **Check**

Air Intake – **Check**

Engine Compartment – **Clear**

Nose Tire – **Check**

Steering Linkage – **Check**

Left Engine Cowling – **Secure**

Oil Level – **CHECK 6-8 Quarts**

Oil Dipstick & Cap – **Secure**

Engine Compartment Door – **Secure**

Static Port - **Clear**

### Left Wing

Fuel Quantity – **Check**

Fuel Cap – **Installed**

Stall Warning – **Check**

Pitot Tube – **Check**

Fuel Vent Tube - **Check**

Landing Light – **Check**

Tie Down – **Remove**

Leading Edge – **Check**

Navigation Light – **Check**

Wing Tip – **Check**

Aileron – **Check**

Flap – **Check**

Left Fuel Tank- **Sump**

Communication Antennas – **Check**

Fuel Caps – **Installed**

Exterior Preflight - **COMPLETE**