



## Cessna 172N (N172MX) Checklist

### PREFLIGHT

### ENGINE START / TAXI

### WHEELS UP / FLYING

### AFTER LANDING / SHUTDOWN

Published Speeds	MPH / KIAS
Vr.....	60 / 52
Vx.....	75 / 65
Vy.....	91 / 79
Vso.....	54 / 47
Vs1.....	61 / 53
Best Glide (gross weight).....	80 / 70
Va (gross weight).....	112 / 97

### INITIAL

Hobbs Meter Time.....	Recorded
WX & Density Altitude.....	Complete
Weight and Balance.....	Calculated
Performance Req.....	Calculated
A.R.O.W.....	Checked
Checklist.....	Complete

### PREFLIGHT INSPECTION

Fuel Selector.....	BOTH
Control Lock.....	Removed
Magnetos.....	OFF
Master Battery Switch.....	ON
Fuel Gauges.....	Checked
Exterior/Cockpit Lights.....	Checked/Off
Pitot Heat.....	Checked/Off
Stall Warning Horn.....	Checked
Flaps.....	DOWN
Master Battery Switch.....	OFF
Circuit Breakers.....	In/Checked
Mixture.....	IDLE CUT OFF
Checklist.....	Complete

### PREFLIGHT INSPECTION CONTINUED

#### LEFT WING

Air Inlet.....	Clear
Tire/Brakes.....	Checked
Fuel Tank Sump.....	Drained/Checked
Visually Check Fuel Level.....	Full Tank
Pitot Tube.....	Clear of Obstructions
Fuel Vent.....	Clear of Obstructions
Tie Down.....	Removed
Wing Tip.....	Checked
Aileron.....	Move in direction of travel
Flap.....	Checked

#### FUSELAGE

Antennas.....	Checked
Empennage.....	Checked
Rudder Gust Lock.....	Removed
Tie Down.....	Removed
Elevator/Rudder/Trim tab.....	Checked

#### RIGHT WING

Flap.....	Checked
Aileron.....	Checked
Wing Tip.....	Checked
Tie Down.....	Removed
Visually Check Fuel Level.....	Full Tank
Fuel Tank Sump.....	Drained/Checked
Tire/Brakes.....	Checked
Air Inlet.....	Clear

#### NOSE

Windshield.....	Clean
Oil level.....	6-8 qts (5 min)
Engine Fuel Sump.....	Drained/Checked
Cowling.....	Checked
Alternator Belt.....	Checked
Air Filter.....	Clean
Propeller/Spinner.....	Checked
Nose Gear/Strut/Tire.....	Checked
Left side Static Port.....	Clear of Obstructions

### BEFORE STARTING ENGINES

Preflight Inspection.....	Complete
Passenger Brief.....	Complete
Seatbelts.....	Secure
Circuit Breakers.....	IN
Avionics.....	OFF
Master Battery Switch.....	OFF
Beacon/Anti Collision Light Switch.....	ON
Fuel Selector.....	BOTH
Parking/Toe Brakes.....	Set/Hold
Checklist.....	Complete

### STARTING ENGINES

Master Battery Switch.....	ON
Beacon/Anti Collision Light Switch.....	ON
Mixture.....	RICH
Carb Heat.....	OFF
Primer.....	< 50 °F
Throttle.....	1/4" open
Magneto Switch.....	BOTH
Propeller area.....	CLEAR
Ignition.....	TURN START (pump throttle)
Throttle.....	1000 rpm
Oil Pressure.....	Green
Mixture.....	Lean out 1"
Checklist.....	Complete

### BEFORE TAXI

Avionics.....	ON
Flaps.....	UP
NAV Lights.....	ON
ATIS/AWOS.....	Record
Altimeter.....	SET
Heading Indicator.....	Set to Compass
Clearance Delivery.....	Obtain
Transponder.....	SET/STANDBY
Ground Taxi Clearance.....	Obtain
Brakes.....	Release
Checklist.....	Complete

### TAXI

Brake.....Test  
Attitude Indicator.....<5° Bank  
Turn and Slip Indicator.....Move in Direction of Travel  
Inclinometer.....Opposite Direction of Travel  
Heading Indicator.....Move in Direction of Travel  
Checklist.....Complete

### GROUND ENGINE RUN UP

Parking/Toe Brakes.....Set/Hold  
Flight Controls.....Free and Correct  
Mixture.....RICH  
Elevator Trim.....Take Off  
Engine Gauges.....Green  
Throttle.....1700 rpm  
Magneto R/L.....150 rpm drop/50 diff  
Carb Heat.....rpm drop  
Ammeter.....Check  
Suction Gauge.....Check  
Throttle to Idle.....oil pres/rpm check  
Throttle to 1000 rpm.....oil pres/rpm check  
Mixture.....Lean if delayed departure  
Checklist.....Complete

### BEFORE TAKEOFF

Departure Brief.....Complete  
Doors/Windows.....Closed/Locked  
Seatbelts.....Secured  
Flaps.....As Req.  
Mixture.....RICH  
Trim.....Set for T/O  
Transponder.....ALT  
Lights.....As Req.  
Checklist.....Complete

### TAKE OFF

Throttle.....Full  
Engine Gauges.....Green  
Rotate (Vr).....60 mph/52 KIAS  
Climb (Vx /Vy).....60-75 mph/52-65 KIAS  
Flaps.....Up  
Checklist.....Complete

### CLIMB (1000 MSL)

Climb Power.....SET  
Airspeed.....80-90 mph/70-78 KIAS  
Mixture.....Lean as Req.  
Engine Instruments.....Green  
Lights.....As Req.  
Checklist.....Complete

### CRUISE

Cruise Power.....2000-2500 rpm  
Mixture.....Lean as Req (>5000')  
Trim.....Adjust  
Carb Heat.....On below 2000 rpm  
Engine Instruments.....Green  
Checklist.....Complete

### DESCENT/INBOUND FOR LANDING

Mixture.....As Req.  
Throttle.....As Req.  
Carb Heat.....As Req.  
ATIS/AWOS.....Record  
Altimeter.....SET  
Transponder.....SET  
Checklist.....Complete

### BEFORE LANDING

Approach Briefing.....Complete  
Carb Heat.....ON  
Fuel Selector.....BOTH  
Mixture.....RICH  
Seat belts.....Secure  
Landing Lights.....ON  
Flaps.....As Req.  
Checklist.....Complete

### LANDING

Airspeed.....70-80 mph/61-70 KIAS  
Below 100 mph (white arc).....Flaps as Needed  
Airspeed.....65-70 mph/56-61 KIAS  
Touchdown.....Main Wheels  
Landing Roll.....Lower nose gently  
Braking.....Minimum Req.  
Checklist.....Complete

### MISSED APPROACH / GO AROUND

Throttle.....FULL  
Carb Heat.....OFF  
Flaps.....Retract as Req.  
Checklist.....Complete

### AFTER LANDING

Flaps.....Retract  
Carb heat.....OFF  
Mixture.....Lean out 1"  
Transponder.....Standby  
Lights.....As Req.  
Trim.....Set for Take Off  
Frequency Change.....As Req.  
Checklist.....Complete

### SECURING

Parking/Toe Brakes.....Set  
Avionics.....OFF  
Lights/Strobe.....OFF  
Throttle.....1000 rpm  
Mixture.....IDLE CUT OFF  
Magnetos.....OFF  
Master Battery Switch.....OFF  
Hobbs Time.....Record  
Control Lock.....Install  
Rudder Gust Lock.....Install  
Clean Aircraft.....Complete  
Seat Belts.....Secure  
Cabin Doors/Windows.....Closed  
Tie Down.....Install  
Pitot Tube Cover.....Install  
Checklist.....Complete



## Cessna 172N (N172MX) Emergency Checklist

### ENGINE FIRE DURING START

Cranking .....Continue

#### IF ENGINE START

Power .....1800 rpm  
Engine.....Shutdown/Inspect

#### IF NO START

Cranking.....Continue  
Fuel Shut Off.....OFF  
Mixture.....IDLE-CUT OFF  
Fuel Selector.....OFF  
Magnetos.....OFF  
Master Battery Switch.....OFF  
Fire Extinguisher.....Obtain  
Aircraft.....Evacuate  
Checklist.....Complete

### ENGINE FAILURE DURING TAKEOFF ROLL

Throttle.....IDLE  
Brakes.....Apply  
Flaps.....Retract  
Mixture.....IDLE-CUT OFF  
Fuel Selector.....OFF  
Magnetos.....OFF  
Master Switch.....OFF  
Checklist.....Complete

### ENGINE FAILURE AFTER TAKE OFF

Airspeed.....80 mph/70 KIAS  
Throttle.....IDLE  
Below 500'.....Land on remaining runway  
No Runway.....Suitable Landing Site  
Mixture.....IDLE-CUT OFF  
Fuel Selector.....OFF  
Magnetos.....OFF  
Master Battery Switch.....OFF  
Checklist.....Complete

### ENGINE FAILURE IN FLIGHT

Airspeed.....80 mph/70 KIAS  
Mixture.....RICH  
Carb Heat.....ON  
Magnetos.....ON  
Master Battery Switch.....ON  
Primer.....In/Locked  
Fuel Selector.....BOTH  
Engine.....RESTART  
Checklist.....Complete

### FORCED LANDING

Airspeed.....80 mph/70 KIAS  
Landing Site.....Note Wind Direction  
Squawk.....7700  
Declare Emergency.....Freq. 121.5  
Mixture.....IDLE-CUT OFF  
Fuel Selector.....OFF  
Magnetos.....OFF  
Flaps.....As req.  
Master Battery Switch.....OFF  
Seatbelt/Harness.....Secured  
Doors.....Unlatch  
Checklist.....Complete

### ENGINE FIRE IN FLIGHT

Mixture.....IDLE-CUT OFF  
Fuel Selector.....OFF  
Master Battery Switch.....OFF  
Cabin Heat and Air.....OFF  
Airspeed.....Increase to Extinguish  
Forced Landing.....Execute  
Checklist.....Complete

### ELECTRICAL FIRE

Master Battery Switch.....OFF  
All Electrical Switches.....OFF  
Vents.....CLOSED  
Fire Extinguisher.....Activate

#### IF FIRE IS OUT

Avionics.....OFF  
Circuit Breakers.....Check  
Master Battery Switch.....ON  
Avionics.....ON  
Radio/Electrical.....ON  
Vents.....OPEN  
Checklist.....Complete

### CABIN FIRE

Master Battery Switch.....OFF  
Vents.....CLOSE  
Fire Extinguisher.....Activate  
Land.....ASAP  
Checklist.....Complete

### WING FIRE

Navigation lights.....OFF  
Landing/Taxi Lights.....OFF  
Strobe Lights.....OFF  
**FORWARD SLIP WITH WING FIRE SIDE DOWNWIND**  
Checklist.....Complete

**ALTERNATOR OVER VOLTAGE**

**IF VOLTMETER READS 16V OR GREATER:**

Alternator Circuit Breaker.....Checked  
Non-essential Electrical Equipment.....OFF  
Flight.....TERMINATE  
Checklist.....Complete

**ALTERNATOR FAILURE**

**IF AMMETER SHOWS DISCHARGE & VOLTMETER READS 12V OR LESS:**

Alternator Circuit Breaker.....Checked  
**IF EARLIER STEPS DO NOT RESOLVE PROBLEM:**  
Non-essential electrical equipment.....OFF  
Flight.....TERMINATE  
Checklist Complete

**ICING**

Carburetor.....Heat  
Cabin heat.....As req.  
Defroster Outlets.....Open  
Engine rpm.....Increase  
Altitude/Heading.....Adjust  
Mixture.....Lean  
Flight.....TERMINATE  
Airspeed.....75 mph/65 KIAS  
Touchdown.....Level Attitude  
Flaps.....Not Recommended  
Checklist.....Complete

**COMMUNICATIONS FAILURE**

Radio check.....Confirm  
Frequency.....Verify  
Circuit Breakers.....Check  
Voltage Regulator.....ON

**IF YOU CAN HEAR ATC (Controlled Airport)**

Squawk 7600  
Follow Verbal Instructions  
Look for Light Gun Signals  
Enter Normal Traffic Pattern  
Upon Landing, call tower

**IF YOU CANNOT HEAR ATC (Controlled Airport)**

Squawk 7600  
Look for Light Gun Signals  
Enter Traffic Pattern like Normal  
Upon Landing, call tower  
Checklist.....Complete

**LANDING WITH FLAT MAIN TIRE**

Approach.....Normal  
Flaps.....As Desired  
Touchdown.....Good Tire First  
Checklist.....Complete

**WATER DITCHING**

Radio.....Freq. 121.5  
Squawk.....7700  
Heavy Objects.....Secure/Jettison  
Flaps.....30 Degrees  
Descend.....300 fpm  
Cabin Door.....Unlatch

**HIGH WINDS/HEAVY SEAS**

Land into the wind

**LIGHT WINDS/HEAVY SWELLS**

Land parallel to swells

Airplane.....Evacuate  
Life vest/raft.....Inflate  
Checklist.....Complete