



## Cessna 172B (N7599X) Checklist

### PREFLIGHT

### ENGINE START / TAXI

### WHEELS UP / FLYING

### AFTER LANDING / SHUTDOWN

Published Speeds	MPH / KIAS
Vr.....	63 / 55
Vx.....	69 / 60
Vy.....	91 / 79
Vso.....	38 / 33
Vs.....	51 / 44
Best Glide (gross weight).....	69 / 60
Va (gross weight).....	115 / 100

### INITIAL

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

### PREFLIGHT INSPECTION

Fuel Selector.....	BOTH
Fuel Gauges.....	Checked
Control Lock.....	Removed
Magnetos.....	OFF
Alternator.....	ON
Master Battery Switch.....	ON
Exterior/Cockpit Lights.....	ON
Stall Warning Horn.....	Checked
Exterior/Cockpit Lights.....	OFF
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

Engine Fuel Sump.....	(Pull Knob) Drained/Checked
Windshield.....	Clean
Cowling.....	Checked
Air Filter.....	Clean
Propeller/Spinner.....	Checked
Nose Gear/Strut/Tire.....	Checked
Oil level.....	6 qts (3.5 min)
Left side Static Port.....	Clear of Obstructions

### BEFORE STARTING ENGINES

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

### STARTING ENGINES

Alternator.....	ON
Master Battery Switch.....	ON
Strobes/Beacon.....	ON
Mixture.....	RICH
Carb Heat.....	OFF
Primer.....	As Required
Throttle.....	1/8" open
Magneto Switch.....	BOTH
Propeller area.....	CLEAR
Ignition.....	PUSH START
Throttle.....	1000 rpm
Ammeter.....	POSITIVE CHARGE
Oil Pressure/Temp.....	Green
Mixture.....	Lean
Checklist.....	Complete

### BEFORE TAXI

Avionics.....	ON
Flaps.....	UP
Lights.....	As Required
ATIS/AWOS.....	Record
Altimeter.....	SET
Clearance Delivery.....	Obtain
Transponder.....	SET/STANDBY
Ground Taxi Clearance.....	Obtain
Brakes.....	Release
Checklist.....	Complete

**TAXI**

Brake.....Test  
 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.....approx. 125 rpm drop/max 50 rpm  
 Carb Heat.....rpm drop  
 Ammeter.....-0/+0  
 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 Required  
 Mixture.....RICH  
 Trim.....Set for T/O  
 Alternator.....ON  
 Transponder.....ALT  
 Lights.....As Required  
 Checklist.....Complete

**TAKE OFF**

Throttle.....Full  
 Engine Gauges.....Green  
 Rotate (Vr).....63 mph/55 KIAS  
 Climb (Vx /Vy).....69-91 mph/62-79 KIAS  
 Flaps.....Up  
 Checklist.....Complete

**CLIMB (1000 MSL)**

Climb Power.....2500 rpm  
 Airspeed.....69-91 mph/62-79 KIAS  
 Mixture.....Lean as Required  
 Engine Instruments.....Green  
 Lights.....As Required  
 Checklist.....Complete

**CRUISE**

Cruise Power.....2000-2500 rpm  
 Mixture.....Lean as Required  
 Trim.....Adjust  
 Carb Heat.....On below 2000 rpm  
 Engine Instruments.....Green  
 Checklist.....Complete

**DESCENT**

Mixture.....As Required  
 Throttle.....As Required  
 Carb Heat.....As Required  
 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 Required  
 Checklist.....Complete

**LANDING**

Airspeed.....80-92 mph/70-80 KIAS  
 Below 100 mph (white arc).....Flaps as Needed  
 Airspeed.....52-60 mph/60-70 KIAS  
 Touchdown.....Main Wheels  
 Landing Roll.....Lower nose gently  
 Braking.....Minimum Required  
 Checklist.....Complete

**MISSED APPROACH / GO AROUND**

Throttle.....FULL  
 Carb Heat.....OFF  
 Flaps.....Set as Required  
 Checklist.....Complete

**AFTER LANDING**

Flaps.....Retract  
 Carb heat.....OFF  
 Mixture.....LEAN  
 Transponder.....Standby  
 Lights.....As Required  
 Trim.....Set for Take Off  
 Frequency Change.....As Required  
 Checklist.....Complete

**SECURING**

Parking/Toe Brakes.....Set  
 Avionics.....OFF  
 Lights/Strobe.....OFF  
 Alternator.....ON  
 Throttle.....1000 rpm  
 Mixture.....IDLE CUT OFF  
 Magnetos.....OFF  
 Master Battery Switch.....OFF  
 Hobbs/TACH 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 172B (N7599X) 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.....75 mph/65 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.....75 mph/65 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.....75 mph/65 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

#### 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 AMMETER READS 15 OR GREATER:**

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

**ALTERNATOR FAILURE**

**IF AMMETER SHOWS NEGATIVE DISCHARGE:**

Alternator.....OFF/THEN ON  
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  
Alternator.....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