

# Cessna 172RG Checklist

## Cessna 172RG Emergency Procedures

<p><b>—INTERIOR PREFLIGHT—</b></p> <p>Hobbs and Tach.....Check          Certificates and Documents.....Check          Control Wheel Lock.....Remove          Landing Gear Lever.....Gear Down          Fuel Selector.....Both          Cowl Flaps.....Open          Cabin Air / Heat.....Set          Mixture.....Idle Cut-Off          Propeller.....Full Forward          Throttle.....Idle          Carburetor Heat.....Off          Alternate Static Source.....Off (In)          Interior Lights.....Off          Avionics Master.....Off          Switches.....Off          Circuit Breakers.....In          Magnetos.....Off          Master Switch.....On          Gear Light.....Check          Flaps.....Extend          Fuel Qty Indicators.....Check          Avionics Master.....On          Avionics Cooling Fan.....On          Avionics Master.....Off          Pitot Tube Cover.....Remove          Lights and Pitot Heat.....Check          Stall Warning.....Test          Master Switch.....Off</p>	<p>Fuel Quantity.....Check          Fuel Cap.....Secured / Vent Open          Right Wing Upper Surface.....Check          Antennas.....Check          Engine Cooling Air Inlets.....Clear          Propeller and Spinner.....Check          Governor.....Check          Nose Wheel Strut and Tire.....Check          Left Static Source.....Check          Fuel Quantity.....Check          Fuel Filler Cap.....Secured / Vent Open          Left Wing Upper Surface.....Check          Left Wing Leading Edge.....Check          Left Wing Tie Down.....Remove          Fuel Tank Vent.....Check          Landing and Taxi Lights.....Check          Left Wingtip Condition / Lights.....Check          Left Wing Lower Surface.....Check          Left Flap and Aileron.....Check          Fuel Sump.....Sample          Left Main Gear Assembly.....Check          Baggage Door.....Check Locked</p>	<p><b>—BEFORE TAXI—</b></p> <p>Mixture.....Lean (EGT / RPM)          Flaps.....Up          Circuit Breakers.....In          Avionics Master.....On          Avionics.....Set and Check          Flight Instruments.....Set and Check          Taxi Area.....Clear          Brakes.....Release</p> <p><b>—TAXI—</b></p> <p>Brakes.....Check          Flight Instruments.....Check</p> <p><b>—BEFORE TAKEOFF—</b></p> <p>Brakes.....Set / Hold          Flight Controls.....Free and Correct          Fuel Selector.....Both          Primer.....In And Locked          Trim.....Set for Takeoff          Mixture.....Rich          Throttle.....1800 RPM          Magnetos.....Checked          .....Max Drop 150 RPM          .....Max Difference 50 RPM          Propeller...Cycle 3X, return to HIGH RPM          Ammeter.....Apply Load          Vacuum Gauge.....Check          Engine Instruments.....Check          Carburetor Heat.....On          Throttle.....Idle          Carburetor Heat.....Off          Throttle.....800-1000 RPM          Circuit Breakers.....In          Pitot Heat.....As Required          Seats / Belts.....Check          Flaps.....Set for Takeoff          Flight Instruments.....Set and Check          Doors.....Closed &amp; Locked          Brakes.....Release          Landing Light.....As Required          Strobes.....On          Transponder.....ALT          Mixture.....Rich          Takeoff Briefing.....Complete</p>	<p><b>—CRUISE Pattern Work</b></p> <p>Cruise Power.....Set          Propeller.....Set          Mixture.....Set          Cowl Flaps.....Closed          Landing Light.....Off</p> <p><b>— DESCENT—</b></p> <p>Avionics.....Set and Check          Mixture.....Set          Engine / Flight Instruments.....Check / Set          Approach Briefing.....Complete          Carburetor Heat.....As Required          Descent Power.....Set          Fuel Selector.....Both</p> <p><b>—BEFORE LANDING—</b></p> <p>Landing Light.....On          Magnetos.....Both          Engine Gauges.....Check          Carburetor Heat.....On          Fuel Selector.....Both          Landing Gear.....Down &amp; Locked          Mixture.....Rich          Propeller.....High RPM</p>
<p><b>—EXTERIOR PREFLIGHT—</b></p> <p>Windows and Fuselage.....Check          Empennage.....Check          Left gear well.....Check          Control Surfaces.....Check          Tail Tie Down.....Remove          Trim Tab.....Check          Antennas.....Check          Windows and Fuselage.....Check          Right Gear well.....Check          Right Flap and Aileron.....Check          Right Wingtip Condition / Lights.....Check          Right Wing Lower Surface.....Check          Right Wing Leading Edge.....Check          Right Wing Tie Down.....Remove          Fuel Tank Vent.....Check          Fuel Sump.....Sample          Right Main Gear Assembly.....Check          Fuel Selector Drain Valve.....Sample          Exhaust.....Check          Cowl Flap.....Check          Right Static Source.....Check          Oil Quantity.....6-8 Quarts</p>	<p><b>—BEFORE START—</b></p> <p>Preflight Inspection.....Complete          Landing Gear Lever.....Gear Down          Seats / Belts.....Adjust and Lock          Cabin Doors.....Closed          Passengers.....Secured / Briefed          Brakes.....Set and Hold</p> <p><b>—ENGINE START—</b></p> <p>Prime.....As required          Carburetor Heat.....Off          Throttle.....Pump(1-6), Open SLIGHTLY          Propeller.....Full Forward          Mixture.....Rich          Master Switch.....On          Beacon.....On          Strobes.....On          Navigation Lights.....On (Night Ops.)          Fuel Pump.....On (Check For Pressure)          Fuel Pump.....Off          Area.....Clear          Starter.....Engage          Throttle.....800-1000 RPM          Engine Instruments.....Check</p>	<p><b>—CLIMB—</b></p> <p>Flaps.....As Required          Climb Airspeed.....84 KIAS          At 500 Ft. AGL.....Flaps Up          At 1000 Ft. AGL.....Cruise Climb</p>	<p><b>—AFTER LANDING—</b></p> <p>Carburetor Heat.....Off          Mixture.....Lean (EGT / RPM)          Transponder.....ALT          Flaps.....Up          Cowl Flaps.....Open          Trim.....Set For Takeoff          Landing Light.....Off          Lights.....As required          Flight Plan.....Close</p> <p><b>—SHUTDOWN—</b></p> <p>Avionics Master.....Off          Mixture.....Idle Cut-Off          Magnetos.....Off          Master Switch.....Off          All Switches.....Off          Control Lock.....Install          Fuel Selector.....Left or Right          Seat Belts.....Secure          Door.....Lock</p>

**—V-SPEEDS—**

V<sub>r</sub>.....55-60 KIAS  
V<sub>SO</sub>.....42 KIAS  
V<sub>S1</sub>.....50 KIAS  
V<sub>x</sub>.....63 KIAS  
V<sub>Y</sub>.....84 KIAS  
V<sub>FE</sub>.....130 KIAS (10 °)  
.....100 KIAS (20°)  
.....100 KIAS (30°)  
V<sub>A</sub>.....106 KIAS @ 2650 lbs.  
.....98 KIAS @ 2250 lbs.  
.....89 KIAS @ 1850 lbs.  
V<sub>NO</sub>.....145 KIAS  
V<sub>NE</sub>.....164 KIAS  
Best Glide.....75 KIAS  
Oil.....Min. 6 Max. 8 qt.  
Max. Takeoff / Landing Weight...2650 lbs.

**—ENGINE FAILURES—  
—DURING TAKEOFF—**

Throttle.....Idle  
Brakes.....Apply  
Flaps.....Retract  
Mixture.....Idle Cut-Off  
Ignition.....Off  
Master Switch.....Off

**—IMMEDIATELY AFTER —  
—TAKEOFF—**

Airspeed.....75 KIAS (Flaps UP)  
.....65 KIAS (Flaps DOWN)  
Mixture.....Idle Cut-Off  
Fuel Selector Valve.....Off  
Ignition Switch.....Off  
Flaps.....As Required  
Master Switch.....Off  
Cabin Door.....Unlatch  
Land.....As Briefed

**—IN FLIGHT—**

**(RESTART PROCEDURE)**

Airspeed.....75 KIAS  
Carburetor Heat.....On  
Possible Landing Area.....Identify  
Fuel Selector Valve.....Both  
Mixture.....Rich  
Fuel Pump.....On  
Ignition Switch.....Both or  
.....Start (If Propeller Stopped)

**—FORCED LANDINGS—**

**—WITHOUT ENGINE POWER—**

Transponder.....7700  
Radio(s).....121.50 (if time permits)  
Seats / Belts.....Upright / Locked  
(Best Glide Airspeed.....75 KIAS)  
Airspeed.....75 KIAS (Flaps UP)  
.....65 KIAS (Flaps DOWN)  
Place to Land.....Pilot Option  
Fuel Selector Valve.....Off  
Mixture.....Idle Cut Off  
Ignition.....Off  
Flaps.....As Required (30° recommended)  
Master Switch.....Off  
Doors.....Unlatch  
Cockpit / Passengers.....Prepare

**—FIRES—**

**—ENGINE FIRE DURING START—**

Cranking.....Continue  
**If Engine Starts:**  
Throttle.....1700 RPM for 3 minutes  
Engine.....Shutdown and Inspect  
**If Engine Does NOT Start:**  
Throttle.....Full  
Mixture.....Idle Cut-Off  
Cranking.....Continue  
Extinguisher.....Obtain  
Master Switch.....Off  
Ignition.....Off  
Fuel Selector Valve.....Off  
**EVACUATE AND EXTINGUISH FIRE IF POSSIBLE**  
Aircraft.....Inspect for Damage

**—LANDING GEAR FAILS TO—**

**—EXTEND—**

**(Green Gear Locked Light Fails To Illuminate And Red Gear Unsafe Light Remains On) Other Gear problems check POH emergency checklist !**

Master Switch.....On  
Landing Gear Lever.....Gear Down  
Landing Gear Circuit Breaker.....In  
Gear Pump Circuit Breaker.....In  
Emergency Hand Pump.....Extend Handle  
.....And Pump ( About 20 cycles)  
Gear Locked Light.....On  
Gear Unsafe Light.....Off  
Pump Handle.....Stow

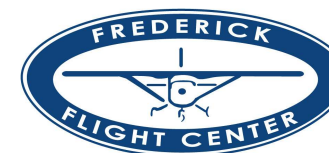
**—ENGINE FIRE IN FLIGHT—**

Mixture.....Idle Cut-Off  
Fuel Selector Valve.....Off  
Fuel Pump.....Off  
Master Switch.....Off  
Heat and Air.....Off  
Airspeed.....100 KIAS  
**EXECUTE FORCED LANDING WITHOUT ENGINE POWER**

**—ELECTRICAL FIRE IN FLIGHT—**

Master Switch.....Off  
Vents / Cabin Air.....Closed  
Fire.....Extinguish  
Avionics Master.....Off  
Electrics (except ignition).....Off  
When Fire is Out, if electrical power is necessary:  
Master Switch.....On  
Breakers.....Check / Do Not Reset  
Radios Electrical.....On, one at a time

**Always Check POH For Other Emergency Checklist**



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