

# CESSNA 177RG CARDINAL NORMAL CHECKLISTS

## BEFORE START CHECKLIST

- Preflight & Passenger Briefing ..... Complete
- Cell Phones ..... Off
- Seats / Belts / Harnesses ..... Adjusted & Locked
- Fuel Selector Valve ..... Both
- Avionics Master Switch ..... Off
- Brakes ..... Test & Set
- Landing Gear Lever ..... Down
- Circuit Breakers ..... Check In

## STARTING ENGINE CHECKLIST

- Mixture ..... Idle Cutoff
- Propeller ..... High RPM
- Throttle ..... Open 1/4 Inch
- Master Switch ..... On
- Rotating Beacon ..... On
- Auxiliary Fuel Pump ..... On
- Mixture ..... Advance to 6 gal/hr then retard to Idle Cutoff
- Propeller Area ..... CLEAR
- Ignition Switch ..... Start
- Mixture ..... Rich when engine fires
- Oil Pressure ..... Check
- Auxiliary Fuel Pump ..... Off
- Mixture ..... Lean For Taxi

## AFTER START CHECKLIST

- Wing Flaps ..... Up
- Avionics Master Switch ..... On
- ATIS ..... Obtain
- Altimeter ..... Set
- Heading Indicator ..... Set
- Transponder ..... STBY
- Brakes ..... Test

## TAXI CHECKLIST

- Brakes ..... Test
- Turn Coordinator, Attitude Indicator, HI ..... Operating

## BEFORE TAKEOFF CHECKLIST

- Parking Brake ..... Set
- Cabin Doors ..... Closed & Locked
- Flight Instruments ..... Set & Checked
- Flight Controls ..... Free & Correct
- Fuel Selector ..... Both
- Stabilator and Rudder Trim ..... Takeoff
- Mixture ..... Rich
- Throttle ..... 1800 RPM
  - Magnetos ..... Check (150 RPM Max Drop)
  - Ammeter ..... Check
  - Engine Instruments ..... Check
  - Suction Gauge ..... Check
  - Propeller ..... Cycle 2 x
  - Throttle ..... 1000 RPM
- Radios ..... Set
- Throttle Friction Lock ..... Adjust
- Wing Flaps ..... 0°-10°
- Parking Brakes ..... Release

## ----- CLEARED FOR TAKEOFF -----

- Departure Time ..... Record
- Instruments ..... Check
- Transponder ..... ALT
- Landing Light ..... On
- Strobe Lights ..... On

## NORMAL TAKEOFF

- Wing Flaps ..... 0°-10°
- Power ..... Full Throttle 2700 RPM
- Mixture ..... Rich
- Stabilator Control ..... Lift nose wheel at 55 KIAS
- Climb Speed ..... 65-75 KIAS
- Brakes ..... Apply momentarily when airborne
- Landing Gear ..... Retract when no usable runway remains
- Wing Flaps ..... Retract at 300 ft AGL

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## SHORT FIELD TAKEOFF

- Wing Flaps ..... 10°
- Brakes ..... Apply
- Power ..... Full Throttle and 2700 RPM
- Mixture ..... Rich
- Brakes ..... Release
- Stabilator Control ..... Lift Nose Wheel at 50 KIAS
- Climb Speed ..... 62 KIAS until obstacles cleared
- Brakes ..... Apply Momentarily
- Landing Gear ..... Retract after obstacles cleared
- Wing Flaps ..... Retract after reaching 70 KIAS

## ENROUTE CLIMB

- Airspeed ..... 85-100 KIAS
- Throttle ..... 25 Inches or Full Throttle & 2500 RPM
- Mixture ..... Lean to 13 GPH
- Cowl Flaps ..... Open

## CRUISE

- Power ..... Set per AFM
- Elevator Trim ..... Adjust
- Mixture ..... Lean above 3000' MSL
- Cowl Flaps ..... Closed
- Landing Light ..... Off

## DESCENT CHECKLIST

- Seats & Belts ..... Secure
- Fuel Selector ..... Both
- Mixture ..... Enrich
- Cowl Flaps ..... Closed
- Landing Gear ..... As Required
- Engine Instruments ..... Green
- Avionics ..... Set
- Aircraft Lights ..... As Required
- Pitot Heat ..... As Required

## BEFORE LANDING CHECKLIST

- GUMPS check ..... Complete
- Fuel Selector ..... Both
- Landing Light ..... On
- Seat Belts / Harnesses ..... On
- Flaps ..... As Required
- Mixture ..... Rich (Below 3000' MSL)
- Propeller ..... High RPM
- Landing Gear ..... Extend below 125 KIAS
- Normal Approach ..... 70-80 KIAS

## GO AROUND

- Power ..... Full Throttle
- Wing Flaps ..... 10°
- Landing Gear ..... Up
- Wing Flaps ..... Up
- Cowl Flaps ..... Open
- ATC ..... Advise

## AFTER LANDING CHECKLIST

- Exterior Lights ..... As Required
- Pitot Heat ..... Off
- Mixture ..... Lean for taxi
- Wing Flaps ..... Up
- Transponder ..... STBY
- Stabilator Trim ..... Takeoff
- Rudder Trim ..... Takeoff
- Cowl Flaps ..... Open

## PARKING CHECKLIST

- Avionics Master ..... Off
- Panel Lights ..... Off
- Mixture ..... Idle Cutoff
- Master Switch ..... Off
- Magneto Switch ..... Off
- Cabin Air ..... Closed
- Hobbs / Tach Time ..... Record
- Cell Phones ..... On

# CESSNA 177RG CARDINAL EMERGENCY CHECKLIST

*FLY THE AIRPLANE – SILENCE THE WARNING –  
CONFIRM THE EMERGENCY*

## ENGINE FAILURE DURING TAKEOFF

- Throttle ..... Idle
- Brakes ..... Apply
- Wing Flaps ..... Retract
- Mixture ..... Idle Cutoff
- Ignition Switch ..... Off
- ATC ..... Advise

## ENGINE FAILURE AFTER TAKEOFF

- Airspeed ..... 70 KIAS
- Mixture ..... Idle Cutoff
- Fuel Selector Valve ..... Off
- Ignition Switch ..... Off
- Wing Flaps ..... As Required
- ATC ..... Advise
- Master Switch ..... Off

## ENGINE FAILURE IN FLIGHT

- Airspeed ..... 75 KTS
- Fuel Selector Valve ..... Both
- Mixture ..... Rich
- Auxiliary Fuel Pump ..... On
- Ignition Switch ..... BOTH (or START)
- ATC ..... Advise
- Transponder ..... 7700
- Landing Site ..... Determine

## LANDING WITHOUT ENGINE POWER

- Airspeed ..... 75 KIAS (Flaps Up)  
..... 65 KIAS (Flaps Down)
- Mixture ..... Idle Cutoff
- Fuel Selector Valve ..... Off
- Ignition Switch ..... Off
- Landing Gear ..... Down (Up if rough terrain)
- Wing Flaps ..... As Required
- Below 500 Feet:**
- Master Switch ..... Off
- Doors ..... Unlatch
- Touchdown ..... Slightly Tail Low
- Brakes ..... Apply Heavily

## FLIGHT INTO ICING CONDITIONS

- Pitot Heat ..... On
- Alternate Static Air ..... On
- Cabin Heat ..... Off
- Direction and / or Altitude ..... Change
- ATC ..... Advise

## ENGINE FIRE

### On Ground:

- Auxiliary Pump ..... Off
- Mixture ..... Idle Cutoff
- Ignition Switch ..... Off
- Parking Brake ..... Release
- Fire Extinguisher ..... Obtain
- Airplane ..... Evacuate
- Fire ..... Extinguish

### In Flight :

- ATC ..... Advise
- Mixture ..... Idle Cutoff
- Fuel Selector Valve ..... Off
- Master Switch ..... Off
- Cabin Heat and Air ..... Off
- Airspeed ..... 100 KIAS
- Accomplish LANDING WITHOUT ENGINE

## ELECTRICAL FIRE IN FLIGHT

- Master Switch ..... Off
- All Individual Electric Switches ..... Off
- Vents / Cabin Air / Heat ..... Closed
- Fire Extinguisher ..... Activate
- If fire appears out and electrics needed:
  - Master Switch ..... On
  - Circuit Breakers ..... Check
  - Electrical Switches ..... On 1 at a time
- Vents / Cabin Air / Heat ..... Open
- ATC ..... Advise

## CABIN FIRE

- Master Switch ..... Off
- Vents / Cabin Air / Heat ..... Closed
- ATC ..... Advise
- LAND AT NEAREST SUITABLE AIRPORT

## WING FIRE

- Navigation Light Switch ..... Off
- Pitot Heat Switch ..... Off
- Perform a sideslip to keep flames away from the fuel tank and cabin.
- LAND AT NEAREST SUITABLE AIRPORT

# CESSNA 177RG CARDINAL EMERGENCY CHECKLIST

*FLY THE AIRPLANE – SILENCE THE WARNING –  
CONFIRM THE EMERGENCY*

## ALTERNATOR—LOW VOLTAGE

- Alternator ..... Off
- Non-essential Electrical Equipment..... Off
- LAND AT NEAREST SUITABLE AIRPORT

## ALTERNATOR—HIGH VOLTAGE

- Master Switch ..... Off (Both Sides)
  - Master Switch ..... On
  - Over-Voltage Light..... Off
- If over-voltage light illuminates again:**
- LAND AT NEAREST SUITABLE AIRPORT

## LANDING GEAR FAILS TO RETRACT

- Master Switch ..... On
- Landing Gear Lever..... Check Up
- Landing Gear and Gear Ind. CB's ..... Check In
- Gear Up Light ..... Check
- Landing Gear Lever..... Recycle
- Gear Motor ..... Check operation (ammeter)

## LANDING GEAR FAILS TO EXTEND

- Landing Gear Circuit Breaker ..... Pull Out
- Landing Gear Lever..... Down
- Emergency Hand Pump ..... Lift Cover
  - ..... Extend Handle
  - ..... Pump about 40 strokes
- Gear Down Light..... On
- Pump Handle..... Stow
- Landing Gear Circuit Breakers ..... In
- ATC..... Advise

## GEAR UP LANDING

- Landing Gear Lever..... Up
  - Landing Gear Circuit Breaker..... In
  - Radio and Electrical Switches ..... Off
  - Wing Flaps..... 30 degrees on final
  - Airspeed ..... 65 KIAS
- Below 500 feet**
- Master Switch ..... Off
  - Doors ..... Unlatch
  - Touchdown ..... Slightly Tail Low
  - Ignition Switch ..... Off
  - Airplane ..... Evacuate

## LANDING WITHOUT GEAR DOWN INDICATION

- Before Landing Check ..... Complete
- Approach..... Normal full flap
- Landing Gear down Pressure .. Maintain with pump
- Landing ..... Tail Low and Smooth
- Taxi ..... Slowly

## LANDING WITH BAD NOSE GEAR

- Movable Load ..... Transfer to baggage area
  - Passenger..... Move to rear seat
  - Before Landing Check ..... Complete
  - Runway ..... Hard Surface
  - Emergency Hand Pump..... Actuate for pressure
  - Wing Flaps ..... 30 degrees
- Below 500 feet:**
- Master Switch ..... Off
  - Land ..... Slightly Tail Low
  - Mixture ..... Idle Cutoff
  - Ignition Switch..... Off
  - Fuel Selector Valve..... Off
  - Stabilator Control ..... Hold nose off
  - Airplane..... Evacuate

## LANDING WITH A FLAT MAIN TIRE

- Wing Flaps ..... As Desired
  - Stabilator Control ..... Nose High
  - Aileron Control ..... Bank toward good tire
  - Touchdown ..... Good Tire First
- Hold airplane off flat tire as long as possible.

## AIRSPEEDS FOR EMERGENCY OPERATION

- Engine Failure After Takeoff
- Wing Flaps Up..... 70 KIAS
  - Wing Flaps Down ..... 65 KIAS
- Maneuvering Speed
- 2800 Lbs ..... 113 KIAS
  - 2400 Lbs ..... 105 KIAS
  - 2000 Lbs ..... 96 KIAS
- Maximum Glide
- 2800 Lbs ..... 75 KIAS
  - 2400 Lbs ..... 70 KIAS
  - 2000 Lbs ..... 65 KIAS
- Precautionary Landing with Engine Power ... 65 KIAS
- Landing Without Engine Power
- Wing Flaps Up..... 75 KIAS
  - Wing Flaps Down ..... 65 KIAS