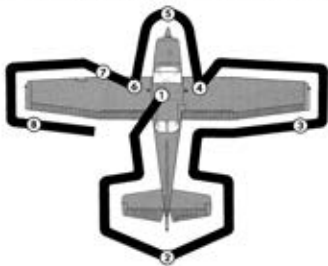


# Cessna 172R Skyhawk Normal Procedures



## Initial

Required Docs.....A.R.O.W.  
Control Lock.....Remove  
Hobbs / Tach Times.....Verify  
Fuel Selector.....Both  
Fuel Shutoff.....ON  
Trim.....Takeoff  
Mixture.....Idle Cutoff  
Throttle.....Closed  
Magnetos.....OFF  
Avionics (Bus 1 and 2).....OFF  
Master (ALT and BAT) .....ON  
Fuel Qty (L and R) .....Check  
Low Fuel Annunciators.....Verify OFF  
Avionics (1 & 2).....Check fans individually  
Avionics Master Switch.....OFF  
Alternate Static Source.....Test, then OFF  
Flaps.....Extend Full  
All Light Switches.....ON  
Pitot Heat.....ON  
All Lights, Pitot Heat.....Check Operation  
All Light Switches.....OFF  
Pitot Heat.....OFF  
Master Switch.....OFF  
Fire Extinguisher.....Check  
Emergency Checklist.....Accessible



## Exterior

Fuel Quantity.....Check  
Fuel Quality.....Check  
Caps/Drains/Vents.....Check  
Oil.....5-8 Quarts  
Prop/Air Intake.....Check  
Exhaust System.....Check  
Surfaces and Controls.....Check, No Damage  
Pitot & Static Ports.....Clear  
Gear/Tires/Brakes.....Check  
Antennas.....Check, No Damage  
Stall Indicator.....Clear  
Ties/Checks.....Remove  
Baggage Door.....Closed  
Final Walk Around.....Complete

## Before Start

Seatbelts.....ON  
Doors.....Closed and Latched  
Passenger Briefing.....S.A.F.E.T.Y.  
Circuit Breakers.....Checked In  
Electrical Equipment.....OFF  
Avionics.....OFF  
Brakes.....Set

## Starting Engine

Mixture.....Idle Cutoff  
Master (ALT and BAT).....ON  
Beacon.....ON  
*If Engine Is Warm Skip To Hot Start*

### Cold Start

Fuel Pump.....ON  
Mixture.....RICH 3-5 Seconds  
Mixture.....Idle Cutoff  
Fuel Pump.....OFF

### Hot Start

Priming.....Not Required

Throttle.....Open ¼ Inch  
Prop Area.....Clear  
Magnetos.....Start  
Mixture.....RICH  
Throttle.....700-800 RPM  
Oil Pressure.....Check  
Ammeter.....Verify Charge  
Avionics.....ON  
Annunciators.....Check None Shown  
Nav Lights.....As Required  
Mixture.....Lean for Taxi  
Flaps.....Up

## Pre-Taxi

ATIS/AWOS.....Listen  
Altimeter.....Set  
Attitude Indicator.....Set  
Heading Indicator.....Set to Compass  
Taxi Light.....ON  
Brakes.....Test

*This checklist is not intended to replace  
procedures found in the Pilot's Operating Handbook.  
Always consult the POH in an emergency.*

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## Run Up

Brakes.....Set  
 Flight Controls.....Free & Correct  
 Instruments.....Check  
 Autopilot.....Engage  
 Flight Controls.....Check (Overpower AP)  
 Autopilot.....Disengage  
 Manual Electric Trim.....Test  
 Trim.....Takeoff  
 Mixture.....Rich  
 Fuel Selector Valve.....Both  
 Throttle.....1800 RPM  
 Magnetos.....Check L & R (Max 150, max difference 50)  
 Vacuum.....Check  
 Engine Gauges.....Check  
 Amps / Volts.....Check  
 Annunciators.....Check None Shown  
 Throttle.....Check Idle  
 Throttle.....700-800 RPM  
 Throttle Control Friction.....Set  
 Heading Bug.....Set  
 COM/NAV.....Set  
 Transponder.....Set  
Takeoff Briefing.....Complete  
 Brakes.....Release

## Pre-Takeoff

Flaps.....0-10  
 Mixture.....Rich  
 Pitot Heat.....As Required  
 Doors/Windows.....Closed  
 Transponder.....Set  
 Strobes.....ON  
 Landing Light.....ON  
 Time.....Note

## Takeoff

Throttle.....Full  
 Rotate.....55 KIAS  
 Climb.....70-80 KIAS  
 Flaps.....Up

## Climb

Airspeed.....70-85 KIAS  
 Throttle.....Full  
 Mixture.....Rich  
 Instruments.....Check

## Cruise

Level & Trim.....Set  
 Power.....Cruise Set  
 Mixture.....Lean  
 Taxi/Landing Light.....As Desired  
 Instruments.....Check

## Descent

Fuel Selector.....Both  
 Power.....Set  
 Mixture.....Adjust as needed  
 ATIS/AWOS.....Listen  
 Altimeter.....Set

## Before Landing

Seatbelts.....ON  
 Fuel Selector.....Both  
 Mixture.....Rich  
 Landing Light.....ON  
 Autopilot.....OFF

## After Landing

Flaps.....Up  
 Mixture.....Lean for Taxi  
 Trim.....Takeoff  
 Landing Light.....OFF  
 Strobes.....OFF  
 Taxi Light.....ON  
 Pitot Heat.....OFF

## Securing

Transponder.....1200  
 Electrical Equipment.....(Except Beacon)...OFF  
 Avionics.....OFF  
 Throttle.....Idle  
 Mixture.....Idle Cutoff  
 Magnetos.....OFF  
 Beacon.....OFF  
 Master.....OFF  
 Hobbs / Tach Times.....Record  
 Control Lock.....Install  
 Fuel Selector.....Left or Right

## V Speeds

Vr.....55  
 Vx.....61  
 Vy.....79  
 Vfe.....85  
 Best Glide 65

## Grand Prairie Airport VFR Departure/Arrival Procedures

Outbound Traffic 2,500 MSL  
 Inbound Traffic 2,000 MSL  
 Traffic Pattern Alt: 1,400 MSL  
 RWY 36: Rgt t/c RWY 18: Lft t/c

**KGPM TOWER:** 128.55  
**GROUND:** 121.15

# Cessna 172R Skyhawk

## EMERGENCY PROCEDURES

AVIATOR AIR

### ENGINE FAILURES



#### ENGINE FAILURE DURING TAKEOFF ROLL

Throttle.....Idle  
Brakes.....Apply  
Flaps.....Retract  
Mixture.....Idle Cutoff  
Magnetos.....Off  
Master (ALT and BAT).....Off

#### ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

A - Airspeed.....65 KIAS (with flaps up)  
60 KIAS (flaps 10-Full)  
B - Best place to land.....Straight or within 30°  
C - Configure  
Mixture.....Idle Cutoff  
Fuel Shutoff Valve.....Off (pull full out)  
Magnetos.....Off  
Flaps.....As Required  
Master (ALT and BAT).....Off  
Cabin Door.....Unlatch

#### ENGINE FAILURE DURING FLIGHT

A - Airspeed.....65 KIAS (with flaps up)  
B - Best place to land.....Pilot's Discretion  
C - Configure  
Fuel Selector.....Both  
Fuel Shutoff Valve.....On (full in)  
Mixture.....Rich  
Fuel Pump.....On  
Magnetos.....L-R-Both  
Engine Instruments.....Check  
D - Declare Emergency  
Squawk.....7700  
Contact.....ATC or 121.5  
Proceed to Forced Landing

### FORCED LANDINGS



#### FORCED LANDING WITHOUT ENGINE POWER

Seats/Seatbelts.....Upright/Secure  
Airspeed.....65 KIAS (with flaps up)  
60 KIAS (flaps 10-Full)  
Mixture.....Idle Cutoff  
Fuel Shutoff Valve.....Off (pull full out)  
Magnetos.....Off  
Flaps.....As Required  
Master (ALT and BAT).....Off (when landing assured)  
Doors.....Unlatch  
Touchdown.....Slightly Tail Low  
Brakes.....Apply

#### PRECAUTIONARY LANDING WITH POWER

Seats/Seatbelts.....Upright/Secure  
Airspeed.....60 KIAS  
Flaps.....20  
Selected Field.....Fly Over (noting terrain)  
Avionics and Electrical Equipment.....Off  
Flaps.....Full (on final approach)  
Airspeed.....60 KIAS  
Master (ALT and BAT).....Off (when landing assured)  
Doors.....Unlatch  
Touchdown.....Slightly Tail Low  
Mixture.....Idle Cutoff  
Magnetos.....Off  
Brakes.....Apply

#### DITCHING

Radio.....121.5  
Transponder.....7700  
Seats/Seatbelts.....Secure  
Flaps.....20-Full  
Power.....300 ft/min descent at 55 KIAS  
If No Power.....65 KIAS (Flaps Up) / 60 KIAS (Flaps 10)  
Approach  
High Winds / Heavy Seas.....Into Wind  
Light Winds / Heavy Swells.....Parallel to Swells  
Doors.....Unlatch  
Touchdown.....Level Attitude  
Face Cushion at Touchdown  
ELT.....Activate  
Airplane.....Evacuate Through Cabin Doors

### FIRES



#### DURING START ON GROUND

Magnetos.....Start (Continue Cranking)

#### IF ENGINE STARTS

Power.....1700 RPM (for a few minutes)  
Engine.....Shutdown (inspect for damage)

#### IF ENGINE FAILS TO START

Throttle.....Full Open  
Mixture.....Idle Cutoff  
Magnetos.....Start (Continue Cranking)  
Fuel Shutoff Valve.....Off (pull full out)  
Fuel Pump.....Off  
Fire Extinguisher.....Obtain  
Master (ALT and BAT).....Off  
Magnetos.....Off  
Parking Brake.....Release  
Airplane.....Evacuate  
Fire.....Extinguish

Fires Continued  
On Reverse Side





## FIRES Con't



### ENGINE FIRE IN FLIGHT

Mixture.....Idle Cutoff  
 Fuel Shutoff Valve.....Off  
 Fuel Pump.....Off  
 Master (ALT and BAT).....Off  
 Cabin Vents.....Open (as needed)  
 Cabin Heat / Air.....Off (push full in)  
 Airspeed.....100 KIAS

If fire not extinguished, increase airspeed, within limitations, to create incombustible mixture

Forced Landing.....Execute

### ELECTRICAL FIRE IN FLIGHT

Master (ALT and BAT).....Off  
 Cabin Vents.....Closed  
 Cabin Heat / Air.....Off (push full in)  
 Fire Extinguisher.....Activate  
 Avionics.....Off  
 All Other Switches (except Magnetos).....Off

### ONCE FIRE IS EXTINGUISHED

Cabin Vents.....Open  
 Cabin Heat / Air.....On (pull full out)

### IF ELECTRICAL POWER NECESSARY

Master (ALT and BAT).....On  
 Circuit Breakers.....Check (Do not reset)  
 Radio Switches.....Off  
 Avionics Bus 1.....On  
 Avionics Bus 2.....On  
 Radio/Electrical Switches.....On (one at a time)

### CABIN FIRE

Master (ALT and BAT).....Off  
 Cabin Vents.....Closed  
 Cabin Heat / Air.....Off (push full in)  
 Fire Extinguisher.....Activate

### ONCE FIRE IS EXTINGUISHED

Cabin Vents.....Open  
 Cabin Heat / Air.....On (pull full out)  
 Land.....As soon as possible

### WING FIRE

Landing / Taxi Lights.....Off  
 Nav Lights.....Off  
 Strobes.....Off  
 Pitot Heat.....Off

Sideslip (using rudder pedal on same side as fire)  
 Land as soon as possible, flaps only as required

## NOTICE:

*This checklist is not intended to replace procedures found in the Pilot's Operating Handbook. Always consult the POH in an emergency.*

## ELECTRICAL FAILURES



### AMMETER EXCESSIVE RATE OF CHARGE

Master (ALT Only).....Off  
 Nonessential Electrical Equipment.....Off  
 Land.....As Soon as Practical

### LOW VOLTS ANNUNCIATOR IN FLIGHT

Avionics.....Off  
 Alternator Circuit Breaker.....Check In  
 Master Switch.....Off  
 Master Switch.....On  
 Low Volts Annunciator.....Check Off  
 Avionics.....On

### IF LOW VOLTS ANNUNCIATOR REMAINS ON

Alternator.....Off  
 Nonessential Electrical Equipment.....Off  
 Land.....As Soon as Practical

## OTHER EMERGENCIES



### LANDING WITH A FLAT NOSE TIRE

Approach.....Normal  
 Flaps.....As Required  
 Touchdown.....On Mains  
 Hold nosewheel off ground as long as possible  
 When nosewheel touches.....Maintain full up elevator

### LANDING WITH A FLAT MAIN TIRE

Approach.....Normal  
 Flaps.....Full  
 Touchdown.....Good main tire first  
 Hold airplane off flat tire as long as possible w/ aileron  
 Directional Control.....Maintain  
 (Using brake on good wheel as required)

### INADVERTENT ICING DURING FLIGHT

Pitot Heat.....On  
 Exit Icing Conditions ASAP  
 Cabin HT.....On (pull full out)  
 Defroster.....On  
 Cabin Air.....Adjust for max airflow

### STATIC SOURCE BLOCKAGE

ALT Static Air.....On  
 Cabin Vents.....Closed  
 Cabin HT and Air.....On

### EXCESSIVE FUEL VAPOR

Fuel Pump.....On  
 Mixture.....Adjust (as necessary for smooth engine)  
 Fuel Selector.....Select Opposite Tank  
 Fuel Pump.....Off (Once fuel flow is stable)