

## PREFLIGHT ACTIONS

### Cabin

Pitot Tube Cover	Remove
Required Documents	ARROW
Weight & Balance	Checked
Parking Brake	Set
Control Wheel Lock	Remove
Ignition Switch	Off
Avionics Master Switch	Off
Master Switch	On

### WARNING

When master On/using external power source/pulling the propeller through by hand, treat the propeller as if the ignition switch were on. Do not allow anyone to stand within the arc of the propeller

Fuel Gauges	Check Quantity
Avionics Master Switch	On
Avionics Cooling Fan	Check
Avionics Master Switch	Off
Alternate Static Source	Off
Annunciator Panel	Test
Lights	Check all
Fuel Selector Valve	Both
Fuel Shutoff Valve	On
Flaps	Full Flaps
Pitot Heat	Check & Off
Master Switch	Off
Elevator Trim	Takeoff
Baggage Door	Check Locked

### Empennage

Tail Tie Down	Disconnect
Control Surfaces	Check
Trim Tab	Check
Antennas	Check

### Right Wing

Right Wing	Clear
Flaps	Inspect
Aileron	Inspect
Wing Tie Down	Disconnect
Main Wheel Tire	Check
Fuel Drains (5)	Drain & Inspect
Leading Edge	Check for defects
Fuel Quantity	Check visually
Fuel Filler Cap	Secure

### Nose

Engine Oil Level	Check
Fuel Drains (3)	Drain & Inspect
Propeller & Spinner	Check
Engine Air Filter	Check
Nose Wheel Strut & tire	Check
Static Source Opening	Visual Inspect Only - Do Not Touch

### Left Wing

Left Wing	Clear
Fuel Quantity	Check
Fuel Filler Cap	Secure
Fuel Vent	Inspect
Pitot Tube	Inspect
Stall Warning Horn	Clear
Leading Edge	Check for defects
Wing Tie down	Disconnect
Aileron	Check
Flaps	Inspect
Fuel Drains (5)	Drain & Inspect
Main wheel tire	Check
Walk Around	Complete

### PREFLIGHT COMPLETE

## BEFORE STARTING ENGINE

Preflight Inspection	Complete
Passenger Crew Brief	SAFETY
Seats, Belts, Harnesses/ Adjust & Lock	
Brakes	Test & Set
Avionics Power Switch	Off
Circuit Breakers	Check In
Electrical Equipment	Off
Fuel Selector Valve	Both
Fuel Shutoff Valve	On

### ANNOUNCE BEFORE STARTING ENGINE CHECKLIST COMPLETE

## STARTING ENGINE

Beacon Light	On
Throttle	Open ¼ inch
Mixture	Idle Cut Off
Propeller Area	Clear
Master Switch	On

### NOTE

If engine warm, omit priming procedure	
Auxiliary Fuel Pump	On
Mixture	Rich (3-5s)/Idle Cut off
Auxiliary Fuel Pump	Off
Ignition Switch	Start

### If Engine Floods

Auxiliary Fuel Pump	Off
Mixture	Idle Cutoff
Throttle	Open ½ to Full
Motor	Crank Engine

### When Engine Starts

Mixture	Enrich
Throttle	1,000 RPM
Oil Pressure	Check
Avionics Power Switch	On
Lights	NAV As Required & Taxi On
Mixture	Ground Lean
Radios	On
Flaps	Up
Transponder/ ADS-B	Altitude
Weather & Radio Check	Obtain

### ANNOUNCE STARTING ENGINE CHECKLIST COMPLETE

## BEFORE TAKEOFF

Parking Brake	Set
Seatbelts, Shoulder harnesses	Fasten
Cabin Doors	Closed & Latched
Flight Controls	Free & Correct
Flight Instruments	Set
Fuel Quantity	Check
Fuel Selector Valve	Both
Mixture	Rich (below 3,000')
Elevator Trim	Takeoff
Throttle	1,800 RPM
Magnetos	Check RPM DROP
	150/50
Engine Instruments	In the Green
Ammeter	Check
Suction gauge	In the Green
Throttle	Idle
Throttle	1,000 RPM
Annunciator Panel	Test
Lights	As Required & Taxi Off
Radios & Nav Equipment	Set
Throttle Friction Lock	Adjust
Brakes	Release

### ANNOUNCE BEFORE TAKEOFF CHECKLIST COMPLETE

## TAKEOFF FINAL ITEMS

Pre Takeoff Brief	Complete
Landing, Strobe Lights	On
Elevator Trim	Verify Takeoff
Transponder/ ADS-B	Altitude
Mixture	Rich
Flaps	As desired

### ANNOUNCE TAKEOFF FINAL ITEMS CHECKLIST COMPLETE

## ENROUTE CLIMB

Flaps	Up
Airspeed	Cruise Climb
Throttle	Full Open
Mixture	Rich (below 3,000')
Landing Light	Off

### ANNOUNCE ENROUTE CLIMB CHECKLIST COMPLETE

## CRUISE

Cruise Power	Set
Elevator Trim	Adjust
Mixture	Lean (above 3,000')
Engine Instruments	Check - Green

### ANNOUNCE CRUISE CHECKLIST COMPLETE

## APPROACH / DESCENT

Weather	Obtain
Altimeter	Set
Seats, Belts, Harnesses/ Adjust & Lock	
Fuel Selector Valve	Both
Power	As desired
Landing Light	On
Mixture	Rich below 3,000
Approach Briefing	Complete

### ANNOUNCE DESCENT CHECKLIST COMPLETE

## BEFORE LANDING

Seat Backs	Most Upright
Airspeed	As Desired
Flaps	As Required
Mixture	Check Full Rich

### ANNOUNCE BEFORE LANDING CHECKLIST COMPLETE

## AFTER LANDING

Landing & Strobe Lights	Off
Throttle	1,000 RPM
Elevator Trim	Takeoff
Flaps	Up
Transponder/ ADS-B	As Required
Mixture	Ground Lean

### ANNOUNCE AFTER LANDING CHECKLIST COMPLETE

## SECURING AIRPLANE

Parking Brake	As Needed
Radios, Electrical Equipment	Off
Avionics Master Switch	Off
Mixture	Idle Cut off
Ignition Switch	Off
Master Switch	Off
Fuel Selector Valve	Left Or Right
Control Wheel Lock	Install
Pitot Tube Cover	Install
Tie Downs	Secured

Post Flight Walk Around	
2 Chocks, 3 Tie Downs & Beacon NOT Flashing	
SECURING AIRPLANE CHECKLIST COMPLETE	

# ABNORMAL/EMERGENCY PROCEDURES

## ENGINE FAILURE DURING TAKEOFF RUN

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

### ENGINE FAILURE DURING TAKEOFF CHECKLIST COMPLETE

## ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed	65 Flaps Up 60 Flaps Dn
Mixture	Idle Cut Off
Fuel Shutoff Valve	Off
Ignition Switch	Off
Wing Flaps	As Required
Master Switch	Off
Cabin Door	Unlatch
Land	Straight ahead

### ENGINE FAILURE AFTER TAKEOFF CHECKLIST COMPLETE

## ENGINE FAILURE DURING FLIGHT

A- Airspeed	65 KIAS
B - Best Place to Land	Select
C- Fuel Selector Valve	Try L, R, Both
Fuel Shutoff Valve	IN- On
Mixture	Rich
Auxiliary Fuel Pump	On
Ignition Switch	Both / Start
If Prop Not Windmilling	
Ignition	On
Throttle	Slowly Advance
Mixture	Lean for smooth operation
If Engine Restarts -Auxiliary Pump - Off	

### D- Declare Emergency 7700, 121.5 NOTE

If the fuel flow indicator immediately drops to zero, **return the Auxiliary Fuel Pump to the On position**

### ENGINE FAILURE DURING FLIGHT CHECKLIST COMPLETE

## E-EMERGENCY LANDING WITHOUT ENGINE POWER

Seats, Belts, Harnesses/ Adjust & Lock	
Airspeed	65 Flaps Up 60 Flaps
Mixture	Idle Cut Off
Fuel Shutoff Valve	Off
Ignition Switch	Off
Wing Flaps	As Required
Master Switch	Off
Doors	Unlatch prior to Touchdown
Touchdown	Tail low
Brakes	Apply Heavily

### EMERGENCY LANDING CHECKLIST COMPLETE

### C-172R Checklist

Emergency procedures shown in **bold** are immediate action items which should be committed to memory

## PRECAUTIONARY LANDING WITH ENGINE POWER

Seats, Belts, Harnesses/ Adjust & Lock	
Airspeed	60 KIAS
Wing Flaps	20°
Landing Site	Select
Avionics Power Switch	Off
Wing Flaps	30°
Airspeed	60 KIAS
Master Switch	Off
Doors	Unlatch Prior to Touchdown
Touchdown	Tail Low
Ignition switch	Off
Mixture	Idle Cut Off
Brakes	Apply Heavily

### PRECAUTIONARY LANDING WITH ENGINE POWER COMPLETE

## ENGINE FIRE DURING START

### During Start on Ground

Cranking	Continue
If Engine Starts	
Power	1,700RPM
Engine	Shutdown

### If Engine Fails To Start

Throttle	Full Open
Mixture	Idle Cut Off
Cranking	Continue
Fuel Shutoff Valve	Off
Auxiliary Fuel Pump	Off
Fire Extinguisher	Obtain
Engine	Secure
Master Switch	Off
Ignition Switch	Off
Fire Extinguisher	Use
Fire Damage	Inspect

### ENGINE FIRE DURING START CHECKLIST COMPLETE

## ENGINE FIRE IN FLIGHT

Mixture	Idle Cut Off
Fuel Shutoff Valve	Off
Auxiliary Fuel Pump	Off
Master Switch	Off
Cabin heat & Air	Off
Airspeed	100 KIAS
Emergency Descent	Establish
Forced Landing	Execute

### ENGINE FIRE IN FLIGHT CHECKLIST COMPLETE

## ELECTRICAL FIRE IN FLIGHT

Master Switch	Off
Vents/Cabin Air/Heat	Closed
Fire Extinguisher (If available)	Use
Avionics Power Switch	Off
All switches (except ignition)	Off

### NOTE

If the fire appears out and electrical power is necessary for flight

Vents/Cabin Air/Heat	Open
Master Switch	On
Circuit Breakers	Check Faulty

### Faulty circuit should not be reset

Radio Switches	Off
Avionics Power Switch	On
Radios/Electrical Switches	On
(one at a time)	

### ELECTRICAL FIRE IN FLIGHT CHECKLIST COMPLETE

## ELECTRICAL MALFUNCTION

### Ammeter Shows excessive charge

Alternator	Off
Nonessential Electrical equip	Off
Flight	Terminate ASAP

### Low-Voltage Light Illuminates

Avionics Master Switch	Off
Alternator Circuit Breaker	Check In
Master Switch	Cycle Off & On
Low-Voltage Light	Check Off
Avionics Master Switch	On

### If Low-Voltage light turns on again

Alternator	Off
Nonessential Electrical equip	Off
Flight	Terminate ASAP

### ELECTRICAL MALFUNCTION CHECKLIST COMPLETE

## CABIN FIRE

Master Switch	Off
Vents/Cabin Air/Heat	Closed
Fire Extinguisher (if available)	Use
Vents/Cabin Air/Heat	Open
Land	As soon as possible

### CABIN FIRE CHECKLIST COMPLETE

## WING FIRE

Landing/Taxi Light	Off
Navigation Lights	Off
Strobe Light Switch	Off
Pitot Heat	Off

### NOTE

Perform a side slip to keep the flames away from the fuel tank and cabin, and land as soon as possible

### WING FIRE CHECKLIST COMPLETE

## DITCHING

Radio	121.5
Transponder	7700
Heavy Objects	Secure or Jettison
Approach	
High Wnd/Heavy Seas	
	Into the Wind
Calm Wnd/Heavy Seas	
	Parallel the Swells

Wing Flaps	20-30°
Power	300 ft/min descent
Cabin Doors	Unlatch
Touchdown	LvL Attitude @ 300 ft/min
Face	Cushion at touchdown
ELT	Activate
Airplane	Evacuate
Life Vests and Raft	Inflate

### DITCHING CHECKLIST COMPLETE

## CESSNA 172 R V-SPEEDS

Vr Rotation Speed	55
Vx Best Angle Of Climb	60
Vy Best Rate Of Climb	79
Vso Stall Ldg Config	33
Vs Stall Clean Config	44
Va Maneuvering Speed	82-99
Vno Max Rough Air	127
Vne Never Exceed	158
Vfe Max Flaps Extended (10°)	110
Vfe Max Flaps Extended (20-30°)	85
Best Glide Flaps Up	65
Best Glide Flaps Dn	60
Max X-Wind Component	15