

CESSNA 172 R

BEFORE STARTING ENGINE Preflight Inspection...COMPLETE Passenger Briefing...COMPLETE Seats, Seat Belts, Shoulder Harnesses.....ADJUST AND LOCK Brakes.....TEST and SET Circuit Breakers.....CHECK IN Electrical Equipment.....OFF Avionics Power Switch.....OFF Fuel Selector Valve.....BOTH Fuel Shutoff Valve...ON (In) Avionics Circuit Breakers..IN	Mixture.....RICH Fuel Selector Valve.....BOTH Engine Check Throttle.....1800 RPM MagnetosCHECK < 150 RPM Drop < 50 RPM Diff between Vacuum Gauge.....CHECK Engine Instruments & Ammeter.....CHECK After Engine Check Annunciator Panel...NONE Lit Throttle.....CHECK IDLE Throttle.....1000 RPM Throttle Friction Lock.ADJUST Strobe Lights.....AS DESIRED Radios & Avionics & GPS...SET Elevator & Rudder Manual Electric TrimCHECK Trim.....SET FOR TAKEOFF Wing Flaps ...SET for takeoff Brakes.....RELEASE CHECKLIST.....COMPLETE	ENROUTE CLIMB Airspeed.....70-85 KIAS Throttle.....FULL OPEN Mixture.....RICH Above 3000 MSL LEAN for Max. RPM CHECKLIST.....COMPLETE CRUISE Power.....2000-2400 RPM Elevator Trim.....ADJUST Mixture.....LEAN Landing Light.....OFF Heading Indicator/Compass.....CHECK CHECKLIST.....COMPLETE	CHECKLIST.....COMPLETE SECURING AIRPLANE Brakes.....SET Electrical Equipment.....OFF Autopilot.....OFF Avionics Power Switch....OFF Mixture.....IDLE CUT-OFF Ignition Switch.....OFF Master Switch.....OFF Control Lock.....INSTALLED CHECKLIST.....COMPLETE -----
STARTING ENGINE	Throttle..... OPEN 1/8" Mixture.....IDLE CUTOFF Propeller Area..... CLEAR Master Switch.....ON Flashing Beacon.....ON Next 3 steps omit when engine is warm -Aux Fuel Pump Switch.....ON -Mixture.....FULL RICH Until stable flow is indicated (3 to 5 seconds) then IDLE CUTOFF -Aux Fuel Pump Switch.....OFF Ignition Switch.....START Mixture after start.FULL RICH Oil Pressure.....CHECK Navigation Lights.....ON Avionics Master Switch.....ON Radios & GPS.....ON Wing FlapsRETRACT CHECKLIST.....COMPLETE	DESCENT Power.....AS DESIRED Mixture.....RICH Altimeter.....SET Nav/GPS Switch.....SET Fuel Selector Valve.....BOTH BEFORE LANDING All Seats.....Most Upright Seats, Seat Belts, Shoulder Harnesses.....SECURE Fuel Selector Valve.....BOTH Mixture.....RICH Landing/Taxi Light.....ON Autopilot.....OFF CHECKLIST.....COMPLETE	M Magnetos Master Mixture B Brakes C Control Lock T Trash B-Boost Pump (on) C-Carb Heat (check) G-Gas (Fulllest Tank) U-Undercarriage (Gear Down) M-Mixture (Rich) P-Prop (Full Forward)
BEFORE TAKEOFF	LINE UP After Cleared Onto Runway Landing Lights.....ON Strobes.....ON Transponder.....ON/ALT Time Off.....NOTE CHECKLIST.....COMPLETE NORMAL TAKEOFF Wing Flaps0° - 10° Throttle.....FULL OPEN Mixture.....RICH Above 3000 MSL LEAN for Max. RPM Elevator Control.....LIFT NOSE WHEEL (at 55 KIAS) Climb Speed.....70-80 KIAS Wing FlapsRETRACT	GO AROUND Throttle.....FULL OPEN Wing Flaps.....RETRACT TO 20° Climb Speed.....55 KIAS Wing Flaps..... 10° until Obstacle Cleared Wing Flaps.....RETRACT CHECKLIST.....COMPLETE AFTER LANDING Time On.....NOTE Landing Light.....AS REQUIRED Strobes.....OFF Wing Flaps.....UP Transponder.....STBY	"V" SPEEDS (KIAS) Vr..... 55 Vx..... 60 Vy..... 79 Vsl..... 44 Vs0..... 33 Vfe 10°..... 110 Vfe 10° - 30°.... 85 Vno..... 129 Vne..... 163 Va..... 2450 Pounds-99 2000 Pounds-92 1600 Pounds-82 Approach Flaps Up 65-75 KIAS Flaps 30° 60-70 KIAS
Parking BrakesSET Passenger Seats..Most Upright Seats, Seat Belts, Shoulder Harnesses.....CHECK SECURE Doors.....CLOSED & LOCKED Flight Controls.....FREE & CORRECT Flight Instruments.CHECK&SET Fuel Quantity.....CHECK			Maximum Demonstrated Cross-Wind..... 15 kts Max GLIDE.....65 KIAS

CESSNA 172 R EMERGENCY CHECKLISTS

Indicates Memory Item(s)

ENGINE FAILURE DURING TAKEOFF

Throttle.....IDLE
Brakes.....APPLY
Flaps.....RETRACT

Mixture.....IDLE-CUT OFF
Ignition Switch.....OFF
Master Switch.....OFF
CHECKLIST.....COMPLETE

ENGINE FAILURE AFTER TAKEOFF

Airspeed..65 KIAS(flaps UP)
60 KIAS(flaps DOWN)

Mixture.....IDLE-CUT OFF
Fuel Shutoff Valve..OFF (Out)
Ignition Switch.....OFF
Flaps.....AS REQUIRED
Master Switch.....OFF
Doors.....UNLATCH
Land.....STRAIGHT AHEAD
CHECKLIST.....COMPLETE

ENGINE FAILURE IN FLIGHT

Airspeed.....65 KIAS
Fuel Shutoff Valve.....ON(In)
Fuel Selector Valve.....BOTH
Aux Fuel Pump.....ON
Mixture...RICH(If No Restart)
Ignition Switch.....BOTH
Ignition (If propeller is
stopped).....START
Aux Fuel Pump.....OFF
CHECKLIST.....COMPLETE

LANDING WITHOUT ENGINE POWER

Passenger Seats..Most Upright
Seats & SeatbeltsSECURE
Airspeed..65 KIAS(flaps UP)
60 KIAS(flaps DOWN)
Mixture.....IDLE-CUT OFF
Fuel Shutoff Valve..OFF (Out)
Ignition Switch.....OFF
Flaps.....AS REQUIRED
Master Switch.....OFF
Doors.....
...UNLATCH PRIOR TO TOUCHDOWN
Touchdown...SLIGHTLY TAIL LOW
BrakesAPPLY HEAVILY
CHECKLIST.....COMPLETE

FIRE DURING ENGINE START

Ignition....CONTINUE CRANKING
To suck the flames through
the engine
If Engine Starts
Power.....1700 RPM for a
few minutes
Engine.....SHUTDOWN
If Engine fails to start

Throttle.....FULL OPEN
Mixture.....IDLE CUT-OFF
Cranking.....CONTINUE
Fuel Shutoff Valve..OFF(Out)
Aux Fuel Pump.....OFF

Fire Extinguisher...OBTAIN
Master Switch.....OFF
Ignition Switch.....OFF
Fuel Selector Valve...OFF
Brake.....Release
Airplane.....Evacuate
Fire.....EXTINGUISH
CHECKLIST.....COMPLETE

ENGINE FIRE IN FLIGHT

Mixture.....IDLE-CUT OFF
Fuel Shutoff Valve...OFF(Out)
Aux Fuel Pump.....OFF
Master Switch.....OFF
Cabin Heat & Air(Except
Overhead Vents).....OFF
Airspeed.....100+KIAS
See Landing W/O
Power.....EXECUTE

ELECTRICAL FIRE IN FLIGHT

Master Switch.....OFF
Vents/Cabin Air/Heat...CLOSED
Fire Extinguisher.....USE
Avionics Switch.....OFF
All Other Switches (Except
Ignition).....OFF
Cabin.....VENTILATE

If Fire is Out & Electrical
is Needed
Master Switch.....ON
Circuit Breakers...CHECK/DO
NOT RESET
Radios.....OFF
Avionics Switch.....ON
Radios & Electrical (One at a
Time).....ON
Vents/Cabin Air/Heat.....OPEN
CHECKLIST.....COMPLETE

CABIN FIRE IN FLIGHT

Master Switch.....OFF
Vents/Cabin Air/Heat...CLOSED
Fire Extinguisher....ACTIVATE
Cabin.....VENTILATE
Land.....AS SOON AS POSSIBLE
CHECKLIST.....COMPLETE

WING FIRE IN FLIGHT

Landing/Taxi Light(s).....OFF
Navigation Lights.....OFF

**Strobe Lights (If
Installed)**.....OFF
Pitot Heat (If Installed).OFF
Side Slip.....EXECUTE
Land (Flaps as Needed).AS
SOON AS POSSIBLE
CHECKLIST.....COMPLETE

DITCHING

Radio &
Transponder.....EMERGENCY
MAYDAY on 121.5
SQUAWK 7700
Heavy Objects.....SECURE OR
JETTISON
Passenger Seats..Most Upright
Seats & SeatbeltsSECURE
Approach:
High Winds, Heavy
Seas.....INTO THE WIND
Light Wind, Heavy
Swells.....PARALLEL TO SWELLS
Flaps.....DOWN 20° -30°
Power.....
300 ft/min Descent AT 55 KIAS
If No Power
0° Flaps.....65 KIAS
OR 10° Flaps.....60 KIAS
Doors.....UNLATCH
Touchdown (300 ft/min
Descent).....LEVEL ATTITUDE
Face.....CUSHION
ELT.....ACTIVATE
Airplane.....EVACUATE
Life Vests & Raft.....INFLATE
CHECKLIST.....COMPLETE

CESSNA 172 R

ICING

Pitot Heat (If Installed)..ON
Turn Back or Change Altitude
Cabin Heat (Open
Defroster).....ON
Throttle...Adjust for Max RPM
Land.....AS SOON AS POSSIBLE
High stall speed.....Expect
Flaps.....UP
Scrape Windshield.AS REQUIRED
Forward Slip(For
Visibility)...AS REQUIRED
Airspeed (Depending on
Ice).....65-75KIAS
Landing Attitude.....LEVEL
CHECKLIST.....COMPLETE

STATIC SOURCE BLOCKAGE

Alternate Static
Source.....PULL ON
If Not Available....BREAK VSI
Airspeed.....
....CONSULT CALIBRATION TABLE
CHECKLIST.....COMPLETE

LOW OIL PRESSURE

Oil Temperature.....CHECK
If Oil Temperature is Normal:
Land...As Soon As Possible
If Oil Temperature is Rising:
Throttle...REDUCE IMMEDIATELY
Perform a PRECAUTIONARY
LANDING

PRECAUTIONARY LANDING

Airspeed.....60 KIAS
Flaps.....DOWN 20°
Landing Area.....SELECT
Avionics Switch &
Electrical.....OFF

Flaps (On Final
Approach).....DOWN 30°
Airspeed.....60 KIAS
Master Switch.....OFF

Doors (Prior to
Touchdown).....UNLATCH
Touchdown...SLIGHTLY TAIL LOW
Ignition Switch.....OFF
Brakes.....AS REQUIRED
CHECKLIST.....COMPLETE

EXCESSIVE CHARGE

(Full Scale Deflection on
Ammeter)

Alternator.....OFF
Nonessential Electrical...OFF
Flight.....TERMINATE
CHECKLIST.....COMPLETE

LOW-VOLTAGE LIGHT ON

(Ammeter Indicates Discharge)

Avionics Master Switch....OFF
Alternator Circuit
Breaker.....CHECK IN
Master Switch (Both
Sides).....OFF
Master Switch.....ON
Low-Voltage Light...CHECK OFF
Avionics Master Switch....ON
If Low-Voltage Light
Illuminates Again:
Alternator.....OFF
Nonessential Radio &
Electrical.....OFF
Flight.....TERMINATE
CHECKLIST.....COMPLETE

FLAT MAIN TIRE

Approach.....NORMAL
Flaps.....30°
Touchdown....GOOD MAIN FIRST
CHECKLIST.....COMPLETE

FLAT NOSE TIRE

Approach.....NORMAL
Flaps.....AS REQUIRED

Touchdown.....ON MAINS
ElevatorFULL UP
CHECKLIST.....COMPLETE

CESSNA 172 R

"V" SPEEDS (KIAS)

Vr.....55
Vx.....60
Vy.....79
Vs1.....44
Vs0.....33
Vfe 10°.....110
Vfe 10° - 30°....85
Vno.....129
Vne.....163
Va.....

2450 Pounds-99

2000 Pounds-92

1600 Pounds-82

Approach
Flaps Up 65-75 KIAS
Flaps 30° 60-70 KIAS

Maximum Demonstrated
Cross-Wind.....15 kts
Max GLIDE.....65 KIAS