

## Cessna 172R-HDX Checklist

### CABIN PREFLIGHT

Documents.....A R O W  
Control Lock.....REMOVE  
Ignition Switch.....OFF  
Fuel Selector.....CHK EACH POSN, BOTH  
Fuel Shutoff Valve.....ON(FULL IN)  
Alt Static Air Valve.....OFF(FULL IN)  
Avionics Master.....OFF  
Circuit Breakers.....ALL IN  
Master .....ON  
EFIS 1.....ON  
-Display(Button 7)..SETUP,DISPLAY LAYOUT  
-Fuel Quantity.....VERIFY  
-Hobbs/Tach Times.....RECORD  
-Battery Volts.....CHECK  
-Menu(Button 6).....ENGINE TOOLS  
-Clear Timer Button.....SELECT  
-Fuel Button.....SELECT  
-Fuel Computer Quantity...ADJUST/ACCEPT  
Avionics Master.....ON[CHK FAN]OFF  
Flaps.....DOWN  
Lights/Pitot Heat.....ON[CHECK]OFF  
Master.....OFF  
Elevator Trim .....T/O POSITION

### EXTERIOR PREFLIGHT

Baggage Door.....CLOSED  
L Fuselage.....CHECK  
Tail Tie Down.....REMOVE  
Rudder & Elevator.....FREE & SECURE  
Elevator Trim Tab.....SECURE  
Antennas.....CHECK  
R Fuselage.....CHECK  
R Wing Flap.....TRACK, HINGES, ACTUATOR  
R Aileron.....CONDITION & SECURITY  
R Wingtip/Leading Edge.....CHECK  
Wing Tie Down.....REMOVE  
R Wing Fuel Drains (5).....SUMP  
R Fuel Tank.....CHECK QTY/SECURITY  
R Main Tire & Brake.....CHECK  
-NOSE-  
Engine Oil Qty.....CHECK(5-8 QTS)  
Access Door.....CLOSED

Nose Fuel Drains (3).....SUMP  
Engine Cooling Air Inlet.....CLEAR  
Propeller & Spinner..FREE OF NICKS/SECURE  
Cowling/Air Filter.....CHECK  
Exhaust Stack.....SECURE  
Nose Wheel & Strut.....CHECK  
Engine Access Panels.....SECURE  
Static Port.....CLEAR  
-LEFT WING-  
L Wing Fuel Drains (5).....SUMP  
L Fuel Tank.....CHECK QTY/SECURITY  
L Main Tire & Brake.....CHECK  
Wing Tie Down.....REMOVE  
Fuel Vent.....CLEAR  
Pitot Tube .....CLEAR/REMOVE COVER  
Stall Indicator.....CHECK & TEST  
Leading Edge/Wingtip .....CHECK  
L Aileron.....CONDITION & SECURITY  
L Wing Flap.....TRACK, HINGES, ACTUATOR

### BEFORE START

Preflight.....COMPLETE  
Passenger Briefing.....COMPLETE  
-Seatbelts  
-Air Vents/Air Sick Bags  
-Fire Considerations  
-Emergency Exits and Considerations  
-Traffic Awareness & Talking  
-Your Questions  
Brakes.....TEST & SET  
Avionics Master.....OFF  
Fuel Selector.....BOTH  
Fuel Shutoff.....IN

### START

Throttle.....OPEN ¼ INCH  
Mixture.....IDLE CUTOFF  
Master.....ON  
Beacon.....ON  
EFIS 1.....ON  
Propeller Area.....CLEAR

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Fuel Pump Switch.....ON  
MIXTURE.....RICH  
**COLD** Rich 3-5 sec until fuel flow stabilizes  
**HOT** Rich 1-3 sec and Throttle ½" open  
Mixture.....IDLE CUT-OFF  
Fuel Pump.....OFF  
Ignition Switch.....START  
Mixture.....ADVANCE SMOOTHLY TO RICH  
Oil Pressure.....GREEN BAND W/IN 60 SEC  
Throttle.....1000 RPM  
Avionics Master/D10/EFIS 2, A/P.....ON  
Mixture.....Lean for Taxi  
Flaps.....UP  
Transponder.....AUTO/1200  
Radios.....TUNE/ATIS

### TAXI

Brakes.....CHECK  
Instruments.....CHECK

### RUNUP

Brakes.....HOLD  
Fuel Selector.....BOTH  
Flight Controls.....FREE & CORRECT  
Autopilot.....ENGAGE/CHECK  
Trim.....TAKEOFF  
Flight Instruments.....SET  
Mixture.....RICH  
Throttle.....1800 RPM  
Magnetos.....CHECK(150/50)  
Amps/Volts.....CHECK  
Oil Pressure/Temp.....CHECK  
Messages.....CHECK  
Throttle.....IDLE CHECK

### BEFORE TAKEOFF

Clearance/Departure.....LOAD & REVIEW  
Transponder.....CODE SET/AUTO  
Flaps.....0' TO 10'  
Mixture.....FULL RICH/BEST POWER  
Fuel Pump.....OFF  
Emergency Takeoff Briefing  
-On Takeoff Roll

-After lift off, Below 1,000ft AGL  
Above 1,000ft AGL and/or turned Crosswind  
Lights.....AS REQUIRED

### TAKEOFF

Throttle.....FULL(MIN 2150 RPM)  
Pressures & Temps.....GREEN  
Rotate.....55 KIAS  
Climb Speed.....(Vx) 65/(Vy) 75/Cruise 85

### CLIMB

Airspeed.....70-85 KIAS  
Throttle.....FULL  
Mixture.....LEAN ABOVE 3000'  
Instruments.....CHECK

### CRUISE

Power.....2000 TO 2400 RPM  
Trim.....SET  
Lights.....AS NEEDED  
Mixture.....LEAN(50' ROP)

### DESCENT

Power.....AS NEEDED  
Mixture.....ADJUST  
Fuel Selector.....BOTH  
EFIS 1 BARO.....SET

### BEFORE LANDING

Seat Belts/Seat Backs.....SECURE/UPRIGHT  
Fuel Selector.....BOTH  
Mixture.....RICH  
Lights.....AS REQUIRED

### LANDING

Flaps.....AS REQUIRED  
Airspeed.....65 KIAS

### GO AROUND

Throttle.....FULL  
Flaps.....RETRACT TO 20'  
Climb Speed.....55 KIAS  
Flaps 10' till clear.....Retract@60KIAS

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### AFTER LANDING

Flaps.....UP  
Mixture.....LEAN  
Lights.....AS REQUIRED  
Pitot Heat.....OFF

### SECURING

Transponder.....AUTO/VFR  
Throttle.....IDLE  
Avionics Master.....OFF  
Mixture.....IDLE CUTOFF  
Magnetos.....OFF  
Hobbs/Tach Times.....RECORD  
ALL Electric Equip.....OFF  
Master.....OFF  
Fuel Selector.....LEFT or RIGHT  
Control Lock/Chocks/Tie Downs.....INSTALL

### ENGINE FAILURE DURING TAKEOFF

Throttle.....IDLE  
Brakes.....APPLY  
Flaps.....RETRACT  
Mixture.....IDLE CUTOFF  
Magnetos.....OFF  
Avionics Master.....OFF  
Master.....OFF

### ENGINE FAILURE AFTER TAKEOFF

Airspeed.....68 KIAS  
Mixture.....IDLE CUTOFF  
Fuel Shutoff Valve.....OFF (PULL)  
Magnetos.....OFF  
Flaps.....AS REQUIRED  
Master.....OFF  
Door.....UNLATCH  
Land.....STRAIGHT AHEAD

**Vr – 55 KIAS Va - 105 KIAS**  
**Vx - 62 KIAS Vno - 129 KIAS**  
**Vy - 74 KIAS Vne - 163 KIAS**  
**Vso - 40 KIAS Vs1 - 48 KIAS**  
**Vglide - 68 KIAS**

### ENGINE FAILURE DURING FLIGHT

Airspeed.....68 KIAS  
Fuel Shut Off Valve.....ON (Push Full In)  
Fuel Selector.....BOTH  
Fuel Pump.....ON  
Mixture.....RICH  
Magnetos.....BOTH (start if prop stopped)  
Fuel Pump.....OFF(after engine started)

### EMERGENCY LNDING W/OUT PWR

Passenger Seat Backs.....UPRIGHT  
Seats, Seat Belts.....SECURE  
Airspeed.....70 KIAS(FLAPS UP)  
65 KIAS(FLAPS 10-FULL)  
Mixture.....IDLE CUTOFF  
Fuel Shutoff Valve.....OFF(PULL FULL OUT)  
Magnetos.....OFF  
Flaps.....AS REQUIRED  
Master.....OFF(LANDING ASSURED)  
Doors.....UNLATCH  
Touchdown.....SLIGHTLY TAIL LOW  
Brakes.....APPLY HEAVILY

### CAUTIONARY LANDING W/POWER

Passenger Seat Backs.....UPRIGHT  
Seats, Seat Belts.....SECURE  
Airspeed.....60 KIAS  
Flaps.....20°  
Selected Field..FLY OVER,Chk terrain  
Flaps.....FULL (on Final)  
Avionics Master.....OFF  
Airspeed.....60 KIAS  
Master.....OFF  
Doors.....UNLATCH  
Touchdown.....SLIGHTLY TAIL LOW  
Mixture.....IDLE CUTOFF  
Magnetos.....OFF  
Brakes.....APPLY HEAVILY

### DITCHING

Radio.....MAYDAY ON 121.5, SQWK 7700  
Heavy Objects.....SECURE or JETTISON  
Passenger Seat Backs.....UPRIGHT

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Seats, Seat Belts.....SECURE  
Flaps.....20° to FULL  
Power.....300ft/min ROD @ 55 KIAS  
. Or at 65KIAS FLAPS UP with no power  
Approach:  
High Winds or Seas.....INTO WIND  
Lgt Winds/Hvy Swells.....PARALLEL SWELL  
Doors.....UNLATCH  
Touchdown.....LEVEL ATTITUDE  
Face.....CUSHION  
ELT.....ACTIVATE  
Airplane.....EVACUATE

### FIRE DURING START

Cranking.....CONTINUE  
If Engine Starts:  
Power.....1800 RPM for a Minute  
Engine.....SHUTDOWN  
If Engine Fails to Start:  
Throttle.....FULL OPEN  
Mixture.....IDLE CUTOFF  
Cranking.....CONTINUE  
Fuel Shutoff Valve.....OFF (PULL OUT)  
Fuel Pump.....OFF  
Magnetos.....OFF  
ATC.....NOTIFY  
Avionics Master.....OFF  
Master.....OFF  
Parking Brake.....RELEASE  
Airplane.....EVACUATE  
Fire.....EXTINGUISH

### ENGINE FIRE IN FLIGHT

Mixture.....IDLE CUTOFF  
Fuel Shutoff Valve.....OFF (Pull Out)  
Fuel Pump.....OFF  
Master.....OFF  
Cabin Heat & Air.....OFF  
Airspeed.....100 KIAS  
Forced LDG...EMERGENCY LDG W/OUT PWR

### ELECTRICAL FIRE IN FLIGHT

Master.....OFF  
Vents, Cabin Air, Heat.....CLOSED  
Fire Extinguisher.....ACTIVATE  
Avionics.....OFF  
All Other Electrical.....OFF  
Vents.....OPEN WHEN FIRE OUT  
If Fire is out and electrical required  
Master.....ON  
Circuit Breaker.....DO NOT RESET OPEN CB  
Radios.....OFF  
Avionics.....ON  
Radios/Electrical.....ON, one at a time

### WING FIRE

Landing/Taxi Light.....OFF  
Navigation Lights.....OFF  
Strobe Lights.....OFF  
Pitot Heat.....OFF  
Side Slip to keep fire away from tanks and cabin

### AMMETER SHOWS EXCESSIVE RATE OF CHARGE (full scale deflection)

Alternator.....OFF  
-----Compass may dev. 25° w/ALT off-----  
Nonessential Electrical.....OFF  
Flight.....TERMINATE

### LOW VOLTAGE ANNUNCIATOR

#### ILLUMINATES DURING FLIGHT

Master.....OFF(ALT ONLY)  
Alternator Circuit Breaker.....CHECK IN  
Master.....ON  
Low Voltage Annunciator.....CHECK OFF  
If low voltage light illuminates again:  
Alternator.....OFF  
Nonessential Electrical.....OFF  
Flight.....TERMINATE

**After Hours School Manager**  
**972.735.9099 ext. 7**

