

Cessna 172R-HDX Checklist



PREFLIGHT INSPECTION

INTERIOR

Pitot Tube Cover.....REMOVE
 POH.....AVAILABLE
 AIRWORTHINESS/REG.....CHECKED
 Weight and Balance.....Present
 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
 MasterON
 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 TrimT/O POSITION

EXTERIOR

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

Engine Oil Qty.....CHECK(5-6 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
 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 TubeCLEAR/REMOVE COVER
 Stall Indicator.....CHECK & TEST
 Leading Edge/WingtipCHECK
 L Aileron.....CONDITION & SECURITY
 L Wing Flap.....TRACK, HINGES, ACTUATOR

BEFORE STARTING ENGINE

Preflight.....COMPLETE
 Passenger Briefing(SAFETY).....COMPLETE
 Brakes.....TEST & HOLD
 Avionics Master.....OFF
 Fuel Selector.....BOTH
 Fuel Shutoff.....IN

STARTING ENGINE

Throttle.....OPEN ¼ INCH
 Mixture.....IDLE CUTOFF
 Master.....ON
 Beacon.....ON
 EFIS 1.....ON
 Propeller Area.....CLEAR
 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.....ON
 EFIS 2 and A/P.....ON
 Mixture.....Lean for Taxi
 Flaps.....UP

BEFORE TAXI

Brakes.....CHECK
 GPS.....VERIFY DATABASE
 Transponder.....AUTO/1200
 Radios.....TUNE/ATIS
 Instruments.....CHECK
 Flight Plan.....ENTER/ACTIVATE
 Hotspots/Taxi Route.....BRIEF

BEFORE TAKEOFF

Fuel Selector.....BOTH
 FUEL.....STATE QUANTITY
 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
 Clearance/Departure.....LOAD & REVIEW
 Transponder.....CODE SET/AUTO
 Flaps.....0° OR 10°
 Mixture.....FULL RICH/BEST POWER
 Fuel Pump.....OFF
 Lights.....AS REQUIRED

Departure and Emergency Brief

- Departure Plan/Known Hazards/Obstacles
- On takeoff Roll
- After lift off, Below 1,000ft AGL
- Above 1,000ft AGL and/or turned Crosswind
- Review Takeoff Checklist

TAKEOFF

Throttle.....FULL(MIN 2300 RPM)
 Pressures & Temps.....GREEN
 Rotate.....55 KIAS
 Climb Speed.....(Vx) 62/(Vy) 74/Cruise 85

CLIMB

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

CRUISE

Power.....2000 TO 2500 RPM
 Trim.....SET
 Lights.....AS NEEDED
 Mixture.....LEAN(50° ROP)
 FUEL.....STATE QUANTITY

PRE-MANEUVER

Lights.....ON
 Mixture.....SET
 Fuel Selector.....BOTH
 FUEL.....STATE QUANTITY
 Area.....CLEAR

DESCENT

Power.....AS NEEDED
 Mixture.....ADJUST
 Fuel Selector.....BOTH
 EFIS 1 BARO.....SET
 FMS/GPS.....SET AND BRIEF
 FLAPS/AIRSPEED.....CONFIGURE

BEFORE LANDING

Seat Belts/Seat Backs.....SECURE/UPRIGHT
 Fuel Selector.....BOTH
 Mixture.....RICH
 Lights.....AS REQUIRED
 Flaps.....AS REQUIRED
 Airspeed.....65 KIAS

AFTER LANDING

Radios.....SET(As Required)
 Flaps.....UP
 Lights.....AS REQUIRED
 Mixture.....LEAN

SECURING

Transponder.....VFR
 Throttle.....IDLE
 Avionics Master.....OFF
 Mixture.....IDLE CUTOFF
 Magnetos.....OFF
 Hobbs/Tach Times.....RECORD
 EFIS 2 and Autopilot.....OFF
 Electrical Equipment.....OFF
 Beacon Light.....ON
 Master.....OFF
 Fuel Selector.....LEFT or RIGHT
 Control Lock/Chocks/Tie Downs.....INSTALL

EMERGENCY PROCEDURES

ENGINE FAILURE DURING TAKEOFF ROLL

Throttle.....IDLE
Brakes.....APPLY
 Flaps.....RETRACT
 Mixture.....IDLE CUTOFF
 Magnetos Switch.....OFF
 Avionics Master Switch.....OFF
 MASTER Switch (BOTH).....OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed..... 68 KIAS
 Mixture.....IDLE CUTOFF
 Fuel Shutoff Valve.....OFF
 Magnetos.....OFF
 Flaps.....AS REQUIRED
 MASTER Switch (BOTH).....OFF
 Cabin Door.....UNLATCH
 Land.....STRAIGHT AHEAD

ENGINE FAILURE DURING FLIGHT

Airspeed.....68 KIAS (best glide)
FUEL SHUTOFF Valve.....ON (push in)
FUEL SELECTOR VALVEBOTH
FUEL PUMP SwitchON
MIXTURE.....RICH
 MAGNETOS Switch.....BOTH (or start)
 FUEL PUMP SwitchOFF
If altitude permits, declare emergency on 121.5, activate ELT, squawk 7700.
Emergency landing without power checklist.....COMPLETE

EMERGENCY LANDING WITHOUT POWER

Pilot and Passenger SeatsUPRIGHT
 Seats and SeatbeltsSECURE
 Airspeed70 KIAS Flaps UP
 65 KIAS Flaps 10-FULL
 MixtureIDLE CUTOFF
 FUEL SHUTOFF VALVE.....OFF
 MAGNETOS SWITCHOFF
 FLAPS AS REQUIRED (Full Recommended)
 MASTER Switch (ALT and BAT)OFF
 DOORS.....UNLATCH
 TOUCHDOWNSLIGHTLY TAIL LOW
 BRAKES.....APPLY HEAVILY

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

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

MixtureIDLE CUTOFF
Fuel Shutoff Valve.....OFF (Pull Out)
Fuel Pump.....OFF
MasterOFF
 Cabin Heat & Air.....OFF
 Airspeed.....100 KIAS
 Forced LDG.....EMERG. 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

EXCESSIVE RATE OF CHARGE

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

LOW VOLTAGE ANNUNCIATOR

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

4700 Airport Parkway
 Addison, Texas 75001
 972.735.9099

After Hours Manager
972.735.9099 ext. 107

KADS

ATIS (972-628-2439)	133.40
Ground	121.60
Tower (972-628-2420)	126.00
Approach (972-615-2500)	124.3/124.25
Atlantic (Fuel - 972-713-7000)	122.85


THRUST FLIGHT
 Elevate Your Experience