

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 & SET
 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

BEFORE TAKEOFF

Brakes.....HOLD
 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 & Emergency Takeoff Briefing:

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

GO AROUND

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

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
ALL Electric Equip.....OFF
Master.....OFF
Fuel Selector.....LEFT or RIGHT
Control Lock/Chocks/Tie Downs.....INSTALL

EMERGENCY PROCEDURES

Items in bold are to be committed to memory

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

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 (best glide)
FUEL SHUTOFF Valve.....ON (push in)
FUEL SELECTOR VALVE.....BOTH
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

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