



DC-3 checklist

Duckworks Improvement Mod

ENTERING COCKPIT

Weight & Balance Set

Battery OFF

GPU OFF

All Switches OFF

Radios..... OFF

Main ignition OFF (Pulled Out)

Magnetos OFF

Parking Brake (Red knob)..... Set

Tail Wheel Locked (FWD)

Trims 3x..... Neutral

Autopilot OFF

Cross feed OFF

Gear Handle (Red) Down and Locked

Flap Handle (Yellow) Flaps UP and Neutral

Hydraulic Reservoir..... Checked

Hydraulic Flow Selector (Blue) AFT



DC-3 checklist

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BEFORE ENGINE START

Hydraulic Shutoff Valve..... Open

Manual Hydraulic Pump Pump 6 times

Hydraulic Pressure.....Checked ~400 PSI

Hydraulic Shutoff Valve..... Closed

Cowl Flaps..... OPEN

Flight Controls..... FREE

Carb Heats..... Cold (FWD) and Locked

Blowers OFF (AFT)

Propellers Full Forward High RPM

Throttles..... Cracked

Mixtures Idle Cut-Off

Battery ON

Battery Volts +24V

Fuel Gauges..... Check ALL

Fuel Selector Valves..... MAIN TANKS

Lights As required

Main Ignition..... ON (Push)



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STARTING ENGINES

RIGHT ENGINE

Fuel Booster Pump ON

Fuel Pressure..... Checked

Engine Energize 10 seconds (MAX 30 seconds)

Engine Mesh ON

--- Count 10-12 blades ---

Magneto BOTH

Primer ON

Mixture..... Auto Rich

Fuel Pump OFF

Engine RPM 1000-1200 RPM

Oil Pressure Checked

Fuel Pressure..... Checked

Hydraulic Pressure Checked

LEFT ENGINE

---Repeat ---

AFTER START & TAXI

Inverter ON

Radios..... ON and tuned

Altimeters Set

Gyros Set and un-caged

Tailwheel..... Unlocked (AFT)

Lights As required

Parking Brake OFF to taxi



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ENGINE RUN-UP

Parking Brake ON
Tailwheel Locked (FWD)

Fuel Booster Pumps OFF
Mixtures Auto Rich
Cowl Flaps OPEN
Fuel Selectors Main Tanks
Engine RPM 1500 RPM
Propellers Through Full Range
Magnetos Check

BEFORE TAKEOFF

Radios, Transponder, Autopilot Set
Pitot Heat ON
Carb Auto De-Icer ON
Anti-Ice As required
Landing Lights ON
Fuel Booster Pumps ON
Flaps As required
Trims As required
Propellers Full Forward High RPM
Mixtures Auto Rich
Carb Heats Cold and Locked
Cowl Flaps TRAIL

---Runway line up---

Tail Wheel Locked (FWD)



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NORMAL TAKEOFF

Flaps Up or $\frac{1}{4}$

Throttles..... Advance slowly

Manifold Pressure..... **46" Hg.**

Rotation Speed **85-95 mph**

AFTER TAKEOFF & CLIMB

Brakes..... Apply

Gear..... Up and locked

Flaps Up as required

Fuel Booster Pumps..... OFF

Manifold Pressure..... **42" Hg.**

Propellers **Green band**

Landing Lights OFF

Cowl Flaps TRAIL or CLOSE

Climb Speed **~120 mph**

CRUISE

Mixtures Auto Lean

Fuel Selector Valves..... Cruise tanks

Power adjustments..... As required

Hydraulic Flow Selector (Blue) FWD

Autopilot As required

Anti-Ice As required



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APPROACH

Autopilot OFF
 Hydraulic Flow Selector (Blue) AFT
 Altimeters Set
 Fuel Selector Valves Main Tanks
 Mixtures Auto Rich
 Carb Heats Cold and Locked

BEFORE LANDING

Fuel Booster Pumps ON
 Propellers Set
 Landing Lights ON
 Landing Gear **Down**
 Tail Wheel **Locked**
 Anti-ice OFF
 Flaps As desired ($\frac{1}{2}$ to $\frac{3}{4}$)

AFTER LANDING

Tail Wheel Unlocked
 Flaps UP
 Cowl Flaps Open
 Fuel Booster Pumps OFF
 Trims Neutral
 Propellers Full Forward High RPM
 Pitot Heat OFF
 Carb Auto De-Icer OFF
 Landing Lights OFF



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PARKING & SHUTDOWN

Brake ON

Tail Wheel Locked (FWD)

Cowl Flaps CLOSE and OFF

Radios..... OFF

Inverter OFF

Mixtures Idle Cut-Off

Fuel Selector Valves OFF

Magnetos OFF

Main Ignition..... OFF

Lights OFF

Battery OFF