

C177RG IFR CHECKLIST

(1/2)

PRESTART

GEAR SELECTOR –Down

RADIO MASTER SWITCH – Off

EFD/AP/TRIM - Off

CIRCUIT BREAKERS –In

COWL FLAPS – Open (UP)

FUEL SELECTOR – Both Tanks

BRAKES –Set

PROP – In

MIXTURE – Idle/Cut-off

MASTER SWITCH – On – Check Gear Light

COLD START

THROTTLE – Open 1/4 inch

AUX FUEL PUMP – On

MIXTURE - Rich until 4GPH, then idle/cut-off

AUX FUEL PUMP - Off

CLEAR AREA

STARTER – Engage

MIXTURE – Advance smoothly to full rich as engine starts

ENGINE SPEED – 1000 RPM

OIL PRESSURE – Check

MIXTURE – Lean Slightly

RADIO MASTER / EFD / AP / TRIM – On

FUEL MONITOR - Set

WARM START

As above but omit aux fuel pump and priming

BEFORE TAXI

GPS – Check Database date / CDIs / OBS / Fuel

ROUTE entered in Flight Plan

iPAD – Check synced with CONEXT, Route entered.

ATIS / AWOS – Set Baro in EFD and Stby Altimeter

AP – Test (Roll, Pitch, Nav)

TAXI

TC / DG – Check for proper operation

NAVAIDS – Check for proper operation

GROUND

BRAKES – Set

ENGINE SPEED – 1800 RPM

MAGNETOS – Check (Max drop 175 RPM)

OIL PRESSURE & TEMPERATURE – Check

PROPELLER - Cycle from high to 1500 RPM and back (3X if first start)

AMMETER – Check

ALTERNATE STATIC SOURCE – Check

SUCTION – Check 4.8-5.0 “HG

ENGINE SPEED – 1000 RPM

BEFORE TAKEOFF

PITOT HEAT – On if IMC

ENGINE GAUGES – Check

FUEL SELECTOR – Both Tanks

COWL FLAPS - Open

PROPELLER – High RPM – Full In

MIXTURE – Set

FLAPS – 10 Degrees

TRIM – Set

CONTROLS – Free

SEATS & BELTS – Secure

FLIGHT INSTRUMENTS – Set (Alt / Hdg Bugs)

COMM & NAV FREQUENCIES – Set

GPS – Set

XPDR - Code Set / On Altitude

LIGHTS – As required

DOORS & WINDOWS – Shut and Latched

ABORT POINT – Set & Confirmed

TAKEOFF

H.A.T. CHECK (Hdg / Altimeter / XPDR)

POWER – Full power / smoothly / Set Lock

MAP/OP/AS/FUEL FLOW - Check

ROTATE – 55 IAS (Before or at Abort Point)

CLIMB SPEED – 75 – 82 IAS

BRAKES – Hold

GEAR – Up – Check Light, Mirror &

Annunciators

FLAPS – Up

C177RG IFR CHECKLIST

(2/2)

CLIMB

POWER – Full

MIXTURE – As required (Full Rich ?)

GEAR – Retracted (Gr. Pump off / Confirm in mirror)

FLAPS – Retracted

COWL FLAPS - Open

CYLINDER HEAD TEMPS – Check (Below 380°)

OIL TEMP - Check

CRUISE

FLAPS – Retracted

GEAR - Retracted

THROTTLE – 23 “

PROPELLER – 2300 RPM

COWL FLAPS – Closed

MIXTURE – 10 –11 GPH / 75° ROP,
8.5 – 9.5 GPH / 25° LOP

XPDR – On Altitude

DESCENT

POWER - As needed (NTE 23”)

CHT s – Control with Mixture as needed

AIRSPPEED – Relative turbulence (Below Va if necessary)

APPROACH

FLAPS – 10° Before IF / Below 130 KIAS

GEAR – Down at GP or FAF / Below 120 KIAS

MIXTURE – 10.8 GPH

LANDING

FUEL SELECTOR – Both Tanks

GEAR - Down (Confirm in Mirrors)

MIXTURE – As needed per field elevation

PROPELLER – High RPM / Full In (At or below 15” MAP)

SHUT DOWN

EFD / AP / TRIM - Off

RADIO MASTER – Off

RPM – 1000 RPM

MIXTURE – Lean slowly (25 RPM rise) – then
– idle/cut-off

MAGNETOS – Off

MASTER SWITCH – Off

FLIGHT PLAN – Close if necessary