

BEFORE ENGINE START

Preflight inspection complete

NOTE: Do not add oil unless $\leq$ 6 quarts

Passenger briefing – COMPLETE

Seat position – SET AND LOCKED

Seat belts – SET / CHECK INERTIA REELS

Parking brake – SET AS REQUIRED

Circuit breakers – CHECK ALL IN

Avionics power – OFF

Cowl flaps – OPEN

Fuel selector valve – BOTH

Circuit breakers – CHECK ALL IN

STARTING ENGINE

Throttle – OPEN 1/4 to 1/2 INCH

Propeller – HIGH RPM

Mixture – IDLE / CUTOFF

Propeller area – CLEAR

Tail beacon switch – ON

Master switch – ON

Annunciator light panel – TEST

Fuel pump – ON

Mixture – RICH (3 to 5 seconds)

Mixture – ICO when fuel flow noted

Fuel pump – OFF

If engine is hot, omit priming

Ignition – START (release when eng starts)

Mixture – FULL RICH when engine starts

Throttle – 1000 RPM (or lower as reqd)

Oil pressure – CHECK

Ammeter – CHECK

Flaps – UP (if still down)

Mixture – LEAN AS REQD for ground ops

NAV / COMM

Avionics power – ON

Audio panel – SET AS REQD

Intercom – CHECK

ATIS / Set altimeters

Comm. frequencies – SET AS REQD

Nav. Frequencies – SET AS REQD

GTN – CHECK FOR GPS SIGNAL

GTN – Ensure data base is not out of date

BEFORE TAXI

Transponder – 1200 (unless IFR)

Clearance Delivery

Ground Control

Mixture – LEAN AS REQD FOR ELEV

DURING TAXI

Brakes – CHECK

Instruments – CHECK ALL AS REQD

Perform slight turns to check T/C ball

RUN UP CHECK

Flight controls – CHECK FULL MOVEMENT

Trim – SET AS REQD

Fuel selector – BOTH

Fuel quantity – CHECK

Autopilot – OFF

Mixture – RICH

Throttle – ADVANCE TO 1800 RPM

Mag check – Drop not to exceed 150 RPM

and no more than 50 RPM differential

Propeller – Cycle 3 times but do not allow

a drop of more than a few hundred RPM

Oil temperature – NEEDLE IN GREEN

Oil pressure – NEEDLE IN GREEN

Ammeter – NOT DISCHARGING

Annunciator panel – CHECK NO LIGHTS

Throttle – CHECK IDLE RPM

Throttle – 1000 RPM, check friction lock

Flight instruments – CHECK

Transponder – ON and set to ALT

Radios – As required for departure

Flaps – 0 to 10 degrees as desired

Cowl flaps – OPEN

Circuit breakers – CHECK ALL IN

PRIOR TO TAKE OFF

Mixture – FULL (or as reqd for elevation)

Propeller – FULL RPM

Strobes, landing and nav. lights – AS REQD

Doors & windows – CLOSED / LATCHED

DO NOT TAKE OFF WITH WINDOWS OPEN

NORMAL TAKEOFF

Power – FULL THROTTLE

Ensure a minimum of 2400 RPM

Rotate at 50 to 60 KIAS

Initial climb – 70 to 80 KIAS

Flaps – UP at 300 to 500 feet AGL

Normal climb:

- 23" / 2300 RPM at 1000 AGL
- 85 to 95 KIAS

Max performance climb:

- Power – FULL THROTTLE
- 82 KIAS at sea level, 77 at 10,000 ft.