

**CHECKLIST, NORMAL OPERATIONS****BEFORE ENGINE START**

PREFLIGHT CHECK .....PERFORMED  
 DOCUMENTS.....ONBOARD  
 PASSENGER BRIEFING.....PERFORMED  
 SEATS / SEATBELTS.....ADJUSTED/LOCKED  
 DOORS / WINDOWS.....CLOSED  
 RADIOS, EL EQUIPMENT.....OFF  
 CIRCUIT BREAKERS.....CHECK  
 STATIC SELECTOR.....NORMAL  
 PARKING BRAKE.....AS REQUIRED

**ENGINE START**

FUEL SELECTOR.....OPEN  
 CARB HEAT.....COLD  
 THROTTLE.....OPEN 1 CM  
 MIXTURE.....RICH  
 MASTER SWITCH.....ON  
 BEACON.....ON  
 PROPELLER AREA.....CLEAR  
 \*PRIME.....AS REQUIRED  
 \*STARTER.....START  
 \*OIL PRESSURE.....CHECK  
 \*RPM.....ADJUST  
 \*ALTERNATOR.....ON

**AFTER ENGINE START**

BATTERY CHARGING.....CHECK  
 PRIMER.....IN AND LOCKED  
 FLAPS.....UP  
 RADIOS/NAV AIDS.....ON/SET  
 ATIS.....RECEIVED  
 FLIGHT INSTRUMENTS.....SET  
 EMERGENCY PROCEDURES.....COMPLETED  
 LIGHTS.....AS REQUIRED

**TAXIING**

\*BRAKES AND STEERING.....CHECK  
 \*FLIGHT INSTRUMENTS.....CHECK

**RUN UP**

ENGINE OIL TEMP .....CHECK  
 MIXTURE.....RICH  
 RPM.....1700 RPM  
 MAGNETOS.....CHECK  
                     Max.drop/difference 125/50 RPM  
 CARB HEAT.....OPEN  
 ENGINE INSTRUMENTS.....CHECK  
 SUCTION.....CHECK  
 IDLE RUN.....CHECK  
 1000 RPM.....SET  
 CARB HEAT.....CLOSE  
 CIRCUIT BREAKERS.....CHECK  
 FLIGHT CONTROLS.....FREE / MOVEMENT  
 FLAPS.....SET FOR T/O  
 TRIM.....T/O  
 DOORS / WINDOWS.....CLOSED  
 TAKEOFF BRIEFING.....PERFORMED

**LINE UP**

\*PITOT HEAT.....AS REQUIRED  
 \*TRANSPONDER.....ALT  
 \*DIRECTIONAL GYRO.....ALIGN

**NOTE! Starred (\*) items by heart!**

**CHECKLIST, NORMAL OPERATIONS****CLIMB**

\*FLAPS..... UP  
 \*CLIMB POWER..... SET  
 \*ALTIMETER..... CHECK / SET

**CRUISE**

CRUISE POWER..... SET  
 MIXTURE..... SET  
 ENGINE INSTRUMENTS..... CHECK

**APPROACH TO LAND**

MINIMUM SAFE ALTITUDE..... CHECK  
 ALTIMETER..... SET  
 APPROACH BRIEF..... PERFORM  
 NAV AIDS..... SET

**FINAL CHECK**

\*MIXTURE..... RICH  
 \*CARB HEAT..... ON  
 \*FLAPS..... SET FOR LANDING

**AFTER LAND**

\*TRANSPONDER..... STBY  
 \*CARB HEAT..... COLD  
 \*FLAPS..... UP  
 \*PITOT HEAT..... OFF

**PARKING**

LIGHTS..... OFF  
 PARKING BRAKE..... AS REQUIRED  
 RADIOS / EL SWITCHES..... OFF  
 MIXTURE..... LEAN  
 MAGNETOS..... OFF  
 BEACON..... OFF  
 MASTER SWITCH / ALTERNATOR... OFF  
 FLIGHT CONTROLS..... LOCK  
 WHEEL CHOCKS / TIEDOWNS..... SET  
 FLIGHT PLAN..... CLOSE ATC / Tel.

**NOTE! Starred ( \* ) items bt heart!**

**SPEEDS FOR NORMAL OPERATIONS mph/kts**

Vr 55 / 50  
 Vx 65 / 55  
 Vy 75 / 67  
 Cruise climb 85 / 75  
 Vs1 55 / 48  
 Vs0 48 / 40

Vapp 0° 80 / 70  
 Vapp 10-20° 70 / 60  
 Vapp 40° 65 / 55

Vmd 70 / 61