

PREFLIGHT INSPECTION

FUEL/OIL

FUEL TANKS (34 GAL AT TABS) CHECK/SECURE
 USABLE FUEL 48 GAL
 OIL 6 to 8 QT. NORMAL (8 MAX)
 FUEL SUMPS (3 SUMPS) BEFORE 1STFLT & >REFUEL DRAIN

CABIN

AIR VENTS AS REQUIRED
 PAPERWORK AROW
 BRAKES|PARKING BRAKE TEST|SET
 IGNITION SWITCH|KEY OFF|OUT
 RADIOS MASTER SWITCH CHECK OFF
 MASTER SWITCH ON
 FUEL QUANTITY CHECK
 FUEL PUMP/FUEL PRESSURE ON/CHECK/OFF
 LIGHTS ADS-B IS ON REAR NAV LIGHT ON/ CHECK/OFF
 STALL WARNING LIGHT NO AURAL CHECK
 MASTER SWITCH OFF
 FLAPS EXTEND

RIGHT WING

CONTROL SURFACES/HINGES CLEAR/CHECK
 FUEL VENT OPEN
 FUEL SUMPS DRAIN
 LANDING GEAR STRUT/TIRE/BRAKES/HYD LEAKS CHECK

NOSE

WINDSHIELD CHECK CONDITION/CLEANED
 PROP|SPINNER|COWLING CHECK
 NOSE GEAR TIRE/HYDRAULIC LEAKS CHECK
 NOSE STRUT ~3 INCHES
 AIR INLET CHECK
 ALTERNATOR BELT CHECK
 FUEL SUMP DRAIN

LEFT WING

REPEAT RIGHT WING ABOVE
 PITOT HEAD/COVER CLEAR/REMOVE

FUSELAGE

CHOCKS WINGS TIE DOWNS (ALL) REMOVED
 ANTENNAS CHECK
 EMPENNAGE CHECK
 STABILATOR/TRIM TAB/HINGES CHECK
 BAGGAGE DOORS SECURE
 AREA CLEAR

BEFORE START

FLAPS RETRACT
 BRAKES|PARKING BRAKE TEST|SET
 SEATS RAILS|BELTS & HARNESSSES LOCK|ADJUST
 TACH/HOBBS CHECK/RECORD
 AIRCRAFT SQUAWKS VERIFY AIRWORTHINESS
 AIRCRAFT DISPATCH
 WEATHER/W&B/RWYS/PERFORMANCE CHECK
 PAX, TAKEOFF, EMERG BRIEFINGS COMPLETE
 ENG START TIME CHECK/RECORD

CIRCUIT BREAKERS CHECK
 RADIOS MASTER SWITCH CHECK OFF
 FUEL SELECTOR DESIRED TANK
 CARB HEAT OFF
 BEACON ON
 MASTER SWITCH ON
 PROPELLER AREA CLEAR
 REFER TO APPLICABLE START CHECKLIST

COLD START

MIXTURE FULL RICH
 THROTTLE OPEN ¼ INCH
 FUEL PUMP|FUEL PRESSURE ON| CHECK
 PRIMER 4 SHOTS
 STARTER ENGAGE (5 TO 10 SEC)
 THROTTLE AS REQUIRED

HOT START

MIXTURE FULL RICH
 THROTTLE FULL FWRD (x2), THEN ¼ INCH OPEN
 FUEL PUMP|FUEL PRESSURE ON| CHECK
 STARTER ENGAGE (5 TO 10 SEC)
 THROTTLE AS REQUIRED

FLOODED START

MIXTURE FULL RICH
 THROTTLE ½ OR FULL OPEN
 FUEL PUMP OFF
 STARTER ENGAGE (5 TO 10 SEC)
 MIXTURE ADVANCE TO FULL RICH
 THROTTLE AS REQUIRED
 WEAK INTERMITTENT FIRING FOLLOWED BY PUFFS OF BLACK SMOKE FROM THE
 EXHAUST INDICATES OVER-PRIMING OR FLOODING.

AFTER START

OIL PRESS & TEMP (WITHIN 10 SEC.) CHECK
 THROTTLE IDLE, 800-1000 RPM
 MIXTURE LEAN FOR PEAK RPM
 FUEL PUMP/FUEL PRESSURE OFF/CHECK
 RADIO MASTER SWITCH ON
 TRANSPONDER 1200/ STBY
 LIGHTS (NAV LIGHTS REQUIRED FOR ADS-B) ON
 FUEL METER SET
 ATIS/CLEARANCE OBTAIN/SET ALTM & TPDR

RUN UP CHECK

PARKING BRAKE SET
 FLIGHT CONTROLS FREE & CORRECT
 ELEVATOR & RUDDER TRIM CHECK
 CIRCUIT BREAKERS CHECK
 FLIGHT INSTRUMENTS CHECK
 G5 ALTM & ALT SET/CHECK
 NAV & COMM RADIOS|FLIGHT PLAN SET|CHECK
 CDI SELECTOR VLOC OR GPS
 TRANSPONDER CODE SET/ALT
 MIXTURE RICH
 FUEL TANK SWITCH*
 THROTTLE 2000 RPM
 • ENGINE INSTRUMENTS/AMMETER CHECK
 • VACUUM 5" ± 0.1"
 • MAGNETOS R/L/BOTH DROP ≤ 175/DIFF ≤ 50⁽¹⁾
 • CARB HEAT CHECK ≤ 50 RPM/LEAVE ON
 • THROTTLE IDLE, THEN 1000 RPM
 • CARB HEAT OFF
 MIXTURE LEAN FOR GROUND OPS
 FUEL PRESSURE CHECK

* TO VERIFIED OPERATION OF BOTH TANKS.
⁽¹⁾ ABSENCE OF RPM DROP MAY INDICATE FAULTY GROUNDING OF ONE SIDE OF THE
 IGNITION SYSTEM OR MAGNETO TIMING SET IN ADVANCE OF THE SPECIFIED SETTING.

BEFORE TAXI

AIRPORT DIAGRAM/TAXI PLAN REVIEW
 TRANSPONDER CODE SET/ALT
 DOOR|WINDOW LATCHED|AS REQUIRED
 LANDING/TAXI LIGHT AS REQUIRED
 TAXI AREA CLEAR
 STERILE COCKPIT ESSENTIAL CONVERSATION ONLY

DURING TAXI

BRAKES CHECK
 FLIGHT INSTRUMENTS CHECK
 MAGNETIC COMPASS AND HEADING INDICATOR: SWING FREELY • ATTITUDE INDICATOR:
 ERECT • TURN COORDINATOR: SHOWS TURN • BALL: MOVES TO OUTSIDE OF TURN.