

BEFORE STARTING ENGINE

PREFLIGHTCOMPLETE
PASSENGER BRIEFING.....COMPLETE
SEATS AND SEAT BELTSADJUST and
LOCK BRAKES TEST and
SET CIRCUIT BREAKERS..... CHECK IN
ELECTRICAL EQUIPMENT OFF
AVIONICS (BUS 1 & BUS 2) OFF
FUEL SELECTOR VALVE..... BOTH
FUEL SHUTOFF VALVECHECK ON

STARTING ENGINE

ThrottleOPEN ¼ INCH
Mixture..... IDLE CUTOFF
STBY BATT SwitchTEST 10 SECONDS
STBY BATT Switch ARM (CHECK PFD ON)
Engine Indicating Systems NO RED X's
BUS E Volts..... CHECK – 24 volts minimum
BUS M VoltsCHECK – 1.5 Volts or less
BATT S Amps..... CHECK negative discharge
STBY BATT Annunciator.....CHECK shown
PROP AREA CLEAR
MASTER Switch (ALT & BAT)ON
BEACON/NAV Light Switch.....ON
FUEL PUMP SwitchON
MIXTURE RICH
COLD(Rich 3-5 seconds until fuel flow stabilizes)
HOT(Rich 1-3 seconds and Throttle ½” open)
MIXTURE IDLE CUT-OFF
FUEL PUMP.....OFF
MAGNETOS Switch START
MIXTURE RICH THEN GRD LEAN
OIL PRESSURE CHECK in green
FLAPS UP or 10 Degrees
AMPSCHECK Positive charges
LOW VOLTS AnnunciatorCHECK not shown
AVIONICS Switch (BUS 1 & 2)ON

BEFORE TAKEOFF

PARKING BRAKE.....SET
ATIS/AWOS/CLEARANCE.....CHECK
Pilot and Passenger Seat Backs UPRIGHT
SEATS AND SEAT BELTS..... CHECK SECURE
CABIN DOORS Closed and Locked
FLIGHT CONTROLSFREE and CORRECT
FLIGHT INSTRUMENTS.....NO RED X's PFD
(BARO) SET
STANDBY ALTIMETER SET
ALT SELSET
STANDBY FLIGHT INSTRUMENTS CHECK
FUEL QUANTITY CHECK
MIXTURE RICH

FUEL SELECTOR VALVE.....BOTH
ELEVATOR TRIM..... SET FOR TAKEOFF
COM Frequencies.....SET
NAV Frequencies.....SET
FMS/GPS Flight Plan.....SET
XPDRSET
CDI Softkey.....SELECT NAV SOURCE
CABIN PWR 12V SWITCH.....OFF
THROTTLE..... 1800 RPM
MAGNETOS Switch..... CHECK L & R
VAC Indicator..... CHECK
ENGINE Indicators CHECK
AMMETERS and VOLTMETERS..... CHECK
ANNUNCIATORS..... CHECK(verify none)
THROTTLE CHECK IDLE
THROTTLE 1000 RPM or LESS
THROTTLE FRICTION LOCK.....ADJUST
DEPARTURE.....BRIEF
FLAPS..... UP – 10 degrees
CABIN WINDOWS..... CLOSED/LOCKED
TAXI LIGHT..... ON
BRAKESRELEASE

TAKEOFF

STROBE/LDG/TAXI..... ON
THROTTLE.....FULL
MIXTURE..... RICH
ROTATE..... 55 KIAS
CLIMB AIRSPEED..... 70-80 KIAS
FLAPS..... RETRACT(400ft or clear obstacles)
LANDING LIGHTS.....OFF

CRUISE

POWER.....2100-2500 RPM (recommend 2300)
TRIM ADJUST
MIXTURE.....LEAN
GPS..... SET

DESCENT

ATIS/AWOS.....CHECK
APPROACH.....BRIEF
TAXI LIGHT.....ON
POWER..... AS DESIRED
MIXTURE.....ADJUST AS NECESSARY
PFD BARO..... SET
STANDBY ALTIMETER..... SET ALT
CDISELECT NAV SOURCE
GPS..... SET
FUEL SELECTOR..... BOTH
FLAPSAS DESIRED

