

BE-58 BEECH BARON – NORMAL PROCEDURES

BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE VERBALIZED

BEFORE ENGINE START

TACH TIME CHECK TIME REMAINING
 HOBBS TIME RECORD
 PARKING BRAKE SET
 PASSENGER BRIEF COMPLETE
 SEATBELTS FASTEN AND SECURE
 GEAR SELECTOR DOWN
 THROTTLES IDLE
 PROPELLER CONTROLS FULL FWD
 MIXTURE IDLE
 ALTERNATE AIR CLOSED
 COWL FLAPS OPEN
 FUEL SELECTORS ON
 RADIO MASTER OFF
 ELECTRICAL SWITCH OFF
 HEATER SWITCH OFF
 LEFT SIDE CIRCUIT BREAKERS IN
 AVIONICS CIRCUIT BREAKERS IN
 PROP SYNC **ON - NEVER TURN OFF

BATTERY STARTING

ALTERNATORS ON
 BATTERY MASTER ON
 BUS VOLTAGE CHECK
 ANTI-COLLISION LIGHTS ON
 BEACON ON
 GEAR LIGHTS 3 GREEN
 PROPELLER CONTROLS HIGH RPM

COLD START

MIXTURE CONTROL FULL RICH
 THROTTLE FULL OPEN
 FUEL BOOST PUMP HIGH UNTIL FUEL FLOW PEAKS THEN OFF
 THROTTLE CLOSE THEN OPEN ½ INCH
 MAGNETO START SWITCH START
 THROTTLE 900-1,000 RPM TO WARM UP
 OIL PRESSURE 10 PSI WITHIN 30 SECONDS
 ALTERNATOR LOAD CHECK
 RED START ANNUNCIATOR LIGHT EXTINGUISHED
 INSTRUMENT AIR SOURCE FAILURE INDICATOR CHECK
USING THE SAME PROCEDURE START THE OTHER ENGINE
 VOLTMETER CHECK FOR 28 VOLTS

FLOODED START

MIXTURE CONTROL IDLE CUT-OFF
 THROTTLE FULL OPEN
 MAGNETO START SWITCH START; AS ENGINE STARTS,
 REDUCE THROTTLE AND INCREASE MIXTURE

HOT START

MIXTURE CONTROL IDLE CUT-OFF
 THROTTLE CLOSE
 FUEL BOOST PUMP HI FOR 30 SECS
 FUEL BOOST PUMP OFF
 MIXTURE FULL RICH
 THROTTLE OPEN ½ INCH
 MAGNETO START SWITCH START

PRE-TAXI

AVIONICS ON, TEST
 ENVIRONMENTALS AS REQUIRED
 AWOS/ATIS CHECK
 ALTIMETER/DG SET
 TRANSPONDER 1200 & STBY
 FUEL SELECTORS CROSSFEED
 TAXI LIGHT AS REQUIRED
 OIL TEMPERATURE ABOVE 24°C FOR RPM ABOVE 1200
 BRAKES TEST

ENGINE RUN-UP

PARKING BRAKE SET
 FUEL SELECTORS ON
 FUEL BOOST PUMPS OFF LOW IF OAT IS ABOVE 32°C
 ENGINE INSTRUMENTS CHECK NORMAL INDICATIONS
 FLIGHT INSTRUMENTS CHECK AND SET
 MIXTURES FULL RICH
 THROTTLES 1,500 RPM
 LOADMETERS CHECK
 INSTRUMENT AIR PRESSURE CHECK
 PROPELLERS FEATHER CHECK (MAX DROP 300 RPM)
 THROTTLES 1,700 RPM
 MAGNETOS CHECK MAX DROP 150 RPM
 BETWEEN TWO 50 RPM
 ALTERNATORS CHECK AMPS L & R
 LEFT ALTERNATOR OFF
 RIGHT AMMETER CHECK LOAD
 LEFT ALTERNATOR ON
 RIGHT ALTERNATOR OFF
 LEFT AMMETER CHECK LOAD
 RIGHT ALTERNATOR ON
 PITOT HEAT CHECK
 THROTTLES 2,200 RPM
 PROPELLERS EXERCISE (FOR 200-RPM DROP)
 THROTTLES IDLE, THEN 900-1,000 RPM
 AUTOPILOT AND ELECTRIC TRIM CHECK (SEE CHECKLIST)
 TRIM SET FOR TAKEOFF
 FLIGHT CONTROLS FREE AND CORRECT
 FLAPS CHECK AND SET FOR TAKEOFF
 ICE PROTECTION SYSTEMS CHECK (SEE CHECKLIST)
 AVIONICS AS REQUIRED
 DOORS, WINDOWS, AND WRITING DESK SECURE
 PARKING BRAKE OFF

BEFORE TAKE-OFF

TYPE OF TAKEOFF DETERMINE
 FLAPS RETRACTED
 AIRSPEEDS: ROTATION, CLIMB OUT,
 AND BEST GLIDE CALCULATE (GUST SPREAD)
 PRE-TAKEOFF BRIEFING COMPLETE
 FUEL BOOST PUMPS OFF
 ANTI-COLLISION LIGHTS ON
 BEACON ON
 LANDING LIGHT ON
 TRANSPONDER SQUAWK ALT
 MIXTURES AS REQUIRED
 AUTO PILOT OFF
 YAW DAMPER OFF
 COWL FLAPS OPEN
 ICE PROTECTION AS REQUIRED
 CABIN DOOR LATCHED
 AIR CONDITIONER OFF
 TAKE-OFF TIME RECORD
**** RESET HEADING INDICATOR AFTER TAXIING ONTO RUNWAY****

CLIMB (BETWEEN 500 AND 1500 AGL)

PROP 2500 RPM
 POWER FULL THROTTLE
 GEAR UP
 TRIM SET
 YAW DAMPER ON
 COWL FLAPS CLOSED
 FUEL BOOST PUMPS OFF, LOW IF REQUIRED
 FUEL FLOW MONITOR
 LANDING/TAXI LIGHTS OFF
 HEADING INDICATOR CHECK

CRUISE (AT TOP OF CLIMB FOR X/C AND LCL FLIGHTS)

POWER/PROP SET (SEE TABLE BELOW)
 TRIM SET
 FUEL BOOST PUMPS AS REQUIRED
 COWL FLAPS CLOSED
 HEADING INDICATOR CHECK
 ICE PROTECTION AS REQUIRED

POWER SETTINGS

Approx. Settings: 6,500 feet & Below	
RPM 2300	M.P. 23"
7,500 Feet	16.5 GPH
RPM 2350	M.P. FT
8,500 Feet	16.5 GPH
RPM 2450	M.P. FT
9,500 Feet	16.5 GPH
RPM 2500	M.P. FT
10,500 Feet	16.5 GPH
RPM 2500	M.P. FT
11,500 Feet	16.5 GPH
RPM 2600	M.P. FT
12,500 Feet	16.5 GPH
RPM 2600	M.P. FT
13,500 Feet	16.5 GPH
RPM 2600	M.P. FT
14,500 Feet	16.5 GPH
RPM 2600	M.P. FT
15,500 Feet	16.5 GPH
RPM 2600	M.P. FT

IN-RANGE (X/C – BEFORE TOP OF DESCENT; LCL – BEFORE TURNING TO OUN)

AWOS/ATIS CHECK
 ALTIMETER SET
 ICE PROTECTION AS REQUIRED
 COWL FLAPS AS REQUIRED
 MIXTURE RICH
 ENGINE TEMPERATURES MONITOR
 FUEL SELECTORS ON
 FUEL BOOST PUMPS OFF
 LANDING LIGHTS ON
 SEATBELTS FASTEN AND SECURE

BEFORE LANDING (BEFORE PATTERN ENTRY AND BEFORE MIDFIELD DOWNWIND EACH SUBSEQUENT APPROACH)

APPROACH SPEED ON FINAL CALCULATE
 FLAP SETTING ON FINAL DETERMINE
 LANDING GEAR DOWN/LOCKED (TOUCH 3 GREEN)
MEMORY
PROPELLER (PRIOR TO BASE OR FAF) FULL INCREASE
AUTO PILOT OFF
YAW DAMPER OFF
LANDING GEAR ON FINAL DOWN/LOCKED (TOUCH 3 GREEN)

AFTER LANDING

FLAPS UP
 COWL FLAPS OPEN
 LANDING/TAXI LIGHTS AS REQUIRED
 TRANSPONDER 1200 & STBY
 RADAR STBY
 ICE PROTECTION OFF
 HEATER – FOR TURNOFF FOLLOW PROC

ENGINE SHUTDOWN

THROTTLES 1000 RPM
 AVIONICS MASTER OFF
 NAV, PANEL, AND OVERHEAD LIGHTS OFF
 ELECTRICAL SWITCHES OFF
 MIXTURES OFF
 MAGNETOS OFF
 ALTERNATORS OFF
 BATTERY MASTER OFF
 VENT WINDOW CLOSED
 HOBBS TIME RECORD

POST-FLIGHT

CABIN DOOR SECURED
 AIRCRAFT TIED DOWN OR CHOCKED
 WALK AROUND AIRCRAFT NOTE GENERAL CONDITION

