

LN-BGQ / LN-BTS
BEFORE START
Preflight Inspection COMPLETE
Aircraft Documents ON BOARD
Aircraft Log DI / HOLD ITEM
Tow Rod / Wheel Blocks REMOVED
Parking Brake SET
Doors CLOSED & LATCHED
Passenger Briefing COMPLETE
Seats / Belts / Harness ADJUST & LOCK
ELT ARMED
Circuit Breakers CHECK IN
Electrical Equipment OFF
Avionics OFF
Autopilot OFF
Carburetor Heat OFF
Fuel Selector LOWEST TANK

STARTING ENGINE
Engine Fire Procedure BRIEF
Throttle OPEN 1 cm
Master Switch ON
Annunciator Panel TEST
Beacon / Strobe Lights ON
Mixture FULL RICH
Prime AS REQUIRED
Electrical Fuel Pump ON
Fuel Pressure CHECK
Starter ENGAGE
Throttle 1000 RPM
Oil pressure CHECK
Primer LOCKED
Electrical Fuel Pump OFF
Fuel Pressure / Quantity CHECK
Avionics ON
Radio ON
Transponder ALT / 7000
Gyro SET
NAV Lights ON as required

TAXI CHECK
Mixture LEAN
Brakes / Steering CHECK
Turn Coordinator CHECK
Gyro / Compass CHECK

GROUND CHECK
Parking brake SET
ATIS OBTAIN
Altimeter SET QNH
Clearance & Start-up REQUEST
Transponder SET / ALT
Flight Controls FREE & CORRECT
Flight Instruments NORMAL
Fuel Quantity CHECK
Fuel Selector CHANGE TO FULLEST
Trim SET FOR TAKEOFF
Flaps CHECK & SET

Mixture RICH
Throttle 2000 RPM
Magnetos R - BOTH - L - BOTH
• Max drop 175 RPM, max difference 50 RPM.
Vacuum CHECK (5"HG +/- 1)
Alternator CHECK
Oil Temp / Pressure CHECK
Carburetor Heat CHECK
Throttle IDLE, Then 1000 RPM
Mixture LEAN
Departure / Engine Failure Procedure BRIEF

BEFORE TAKE-OFF
Flaps UP / 10 degrees
Landing / Strobe Lights ON
Electrical Fuel Pump ON
Mixture RICH
Gyro SET

CRUISE
Power SET
Mixture LEAN
Electrical Fuel Pump OFF
Landing Lights OFF

BEFORE LANDING
Seats / Belts / Harness ADJUST & LOCK
Landing Light ON
Electrical Fuel Pump ON
Fuel Selector PROPER TANK
Mixture RICH
Primer LOCKED
Carburetor Heat AS REQUIRED
(OFF when on short final)

GO AROUND PROCEDURE
Throttle FULL
Carburetor Heat OFF
Flaps RETRACT to 25 degrees
Climb Speed minimum 65 KIAS
Flaps 10 degrees until clear of obstacles,
then UP (above safe altitude and 65 KIAS)

AFTER LANDING
Flaps RETRACT
Electrical Fuel Pump OFF
Landing- / Strobe Light OFF
Mixture LEAN

SHUTDOWN
Parking Brake SET
Transponder 7000 / OFF
Avionics OFF
Throttle IDLE
Magnetos CHECK GROUNDING
Mixture IDLE CUTOFF
Magnetos OFF
Beacon / Lights OFF
Master Switch OFF
Control Wheel Lock AS REQUIRED

FIRE DURING START UP
IF ENGINE DOES NOT START
Engine CRANK
Mixture IDLE CUTOFF
Throttle OPEN
> Secure engine
IF ENGINE STARTS
Engine RPM 1700 RPM for 2 min
Mixture IDLE CUTOFF
> Secure engine
Electrical Fuel Pump OFF
Fuel Selector OFF
Magnetos OFF
Master Switch OFF
Fire Extinguisher READY

ENGINE FAILURE DURING TAKE OFF
ON RUNWAY
Throttle RETRACT
Brake APPLY

IMMEDIATELY AFTER TAKEOFF
Airspeed 75 KIAS
Throttle RETRACT
Mixture IDLE CUTOFF
Flaps FULL
Magnetos OFF
Fuel Selector OFF
LAND STRAIGHT AHEAD
ELT ON
Radio MAYDAY
Master Switch OFF
Doors UNLATCH

ENGINE FAILURE DURING FLIGHT
Airspeed 75 KIAS
Fuel Selector CHANGE
Carburetor Heat ON
Electrical Fuel Pump ON
Mixture FULL RICH
Primer LOCKED
Magnetos BOTH
(or START if propeller has stopped)
Fuel Pump OFF (ON if Fuel Press. drops to zero)

EMERGENCY LANDING
Airspeed 75 KIAS
Landing Area (keypoint) IDENTIFY
Radio MAYDAY
ELT ON
Transponder 7700
Mixture IDLE CUTOFF
Fuel Selector OFF
Magnetos OFF
Flaps FULL
Master Switch OFF
Seatbelts TIGHTEN
Doors UNLATCH

ENGINE FIRE IN FLIGHT
Mixture IDLE CUTOFF
Fuel Selector OFF
Fuel Pump OFF
Cabin Air / Heat OFF
> Go to **Emergency Landing** checklist.

ELECTRICAL FIRE
Master Switch OFF
Cabin Heat / Defroster OFF
Fire Extinguisher ACTIVATE
Cabin VENTILATE

ALTERNATOR FAILURE
Master Switch (ALT only) OFF
Alternator Circuit Breaker CHECK IN
Master Switch ALT ON
> No charge REDUCE
ELECTRICAL LOAD

LAND AS SOON AS POSSIBLE

Takeoff and Climb-out Procedure

- Full throttle
- 2300 RPM minimum
- All green on engine instruments
- Airspeed alive
- Rotate at 55 KIAS
- Climb speed 75 KIAS
- Flaps UP at safe altitude
- Start turn at 500 feet AGL

V_{so} 44 KIAS
V_{s1} 50 KIAS
V_x 63 KIAS
V_y 79 KIAS
V_{A @ 2325 Lbs} 111 KIAS
V_{A @ 1531 Lbs} 88 KIAS
V_{L/D} 65 KIAS
V_R 55 KIAS
Fuel capacity 50 Gal - 300 Lbs / 189 L - 136 Kg
Usable fuel 48 Gal / 182 L
Fuel at filler-neck 17 Gal / 128 L
Oil capacity 8 Quarts
Minimum oil level 5 Quarts
Max T/O weight 2325 Lbs / 1054 Kg

LN-BGQ / LN-BTS

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