

LN-IMA

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
Avionics OFF
Carburetor Heat OFF
Fuel Shutoff Valve ON

STARTING ENGINE

Engine Fire Procedure BRIEF
Throttle OPEN 1 cm
Master Switch ON
Beacon ON
Mixture FULL RICH
Prime AS REQUIRED
Starter ENGAGE
Throttle 1000 RPM
Oil pressure CHECK
Primer LOCKED
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
Trim SET FOR TAKEOFF
Flaps CHECK & SET
Mixture RICH
Throttle 1700 RPM
Magnetos R - BOTH - L - BOTH
• Max drop 125 RPM, max difference 50 RPM

Vacuum CHECK
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 Lights ON
Mixture RICH
Gyro SET

CRUISE

Power SET
Mixture LEAN
Landing Lights OFF

BEFORE LANDING

Seats / Belts / Harness ADJUST & LOCK
Landing Light ON
Mixture RICH
Primer LOCKED
Carburetor Heat AS REQUIRED
(OFF when on short final)

GO AROUND PROCEDURE

Throttle FULL
Carburetor Heat OFF
Flaps RETRACT to 20 degrees
Climb Speed minimum 60 KIAS
Flaps 10 degrees until clear of obstacles,
then UP (above safe altitude and 65 KIAS)

AFTER LANDING

Flaps RETRACT
Landing Light OFF
Mixture LEAN

SHUTDOWN

Parking Brake SET
Transponder 7000 / OFF
Radio 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
Fuel Shutoff Valve OFF
Master Switch OFF
Fire Extinguisher READY

ENGINE FAILURE DURING TAKE OFF

ON RUNWAY

Throttle RETRACT
Brake APPLY

IMMEDIATELY AFTER TAKEOFF

Airspeed 60 KIAS
Throttle RETRACT
Mixture IDLE CUTOFF
Flaps FULL
Fuel Shutoff Valve OFF
Magnetos OFF
LAND STRAIGHT AHEAD
ELT ON
Radio MAYDAY
Master Switch OFF
Doors UNLATCH

ENGINE FAILURE DURING FLIGHT

Airspeed 60 KIAS
Fuel Shutoff Valve ON
Carburetor Heat ON
Mixture FULL RICH
Primer LOCKED
Magnetos BOTH
(or START if propeller has stopped)

EMERGENCY LANDING

Airspeed 60 KIAS
Landing Area (keypoint) IDENTIFY
Radio MAYDAY
ELT ON
Transponder 7700
Mixture IDLE CUTOFF
Fuel Shutoff Valve OFF
Magnetos OFF
Flaps FULL
Master Switch OFF
Seatbelts TIGHTEN
Doors UNLATCH

ENGINE FIRE IN FLIGHT

Mixture IDLE CUTOFF
Fuel Shutoff Valve OFF
Cabin Air / Heat OFF
> Go to **Emergency Landing** checklist.

ELECTRICAL FIRE

Master Switch OFF
All Other Switches (except ignition switch) OFF
Vents / Cabin Air / Heat OFF
Fire Extinguisher ACTIVATE
Cabin VENTILATE

ALTERNATOR FAILURE

Radios OFF
Master Switch (both) OFF
Master Switch ON
Alternator Circuit Breaker CHECK IN
Low Voltage Light CHECK OFF
Radios ON
> If Low Volt Light illuminates again REDUCE
ELECTRICAL LOAD
LAND AS SOON AS POSSIBLE

Takeoff and Climb-out Procedure

- Full throttle
- 2100 RPM minimum
- All green on engine instruments
- Airspeed alive
- Rotate at 50 KIAS
- Climb speed 60-67 KIAS
- Flaps UP at safe altitude
- Start turn at 500 feet AGL

V_{SO} 35 KIAS
V_{S1} 40 KIAS
V_X 54 KIAS
V_Y 67 KIAS
V_A 104 KIAS
V_{L/D} 60 KIAS
V_R 50 KIAS
Fuel capacity 26 Gal - 156 Lbs / 98 L - 71 Kg
Usable fuel 24,5 Gal / 93 L
Oil capacity 6 Quarts
Minimum oil level 4 Quarts
Max T/O weight 1671 lbs / 758 Kg

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