

LN-PWA

PRE-FLIGHT INSPECTION

COCKPIT	
Documents, Checklists and Weight & Balance	
Check Tech and Maintenance Log	
Drain Fuel Tanks, Strainer and Fuel Selector	
Remove Pitot Cover and Engine/Cabin Heater	
Master Switch	ON
Annunciator Panel	TEST
Fuel Quantity	CHECK
Electrical Equipment Test	AS REQ
Flaps	10 DEGREES
Lights and Pitot Switch	ON
Exterior Lights	CHECK
Pitot Heat	CHECK
Lights and Pitot Switch	OFF
Master Switch	OFF

LEFT WING	
Left Main Gear	CHECK
Wing Tank and Filler Cap	CHECK / SECURE
Pitot Tube	CHECK
Stall Warning	CHECK
Fuel vent	CHECK
Aileron	CHECK
Flaps	CHECK







FUSELAGE AND EMPENNAGE	
Baggage Door	SECURE
Elevator and Trim	CHECK
Rudder	CHECK
Tail Ring	CHECK
Antennas	CHECK

RIGHT WING	
Flaps	CHECK
Aileron	CHECK
Wing Tank and Filler Cap	CHECK / SECURE
Right Main Gear	CHECK

NOSE AND ENGINE	
Engine Oil	CHECK
Prop and Spinner	CHECK
Alternator Belt	CHECK TENSION
Nose Wheel, Strut, Tire	CHECK
Tow Bar	REMOVE
Static Port	CHECK
Wheel Chocks	REMOVE

V-SPEEDS (KIAS)	
Vr	55
Vx	62
Vy	74
Va (2550 / 2200 / 1900)	105 / 98 / 90
Vs	48
Vso	40
Vfe (Flap 10)	110
Vfe (Flap 20-30)	85
Vno	129
Vne	163
Best Glide	65
Max Crosswind	15

Conversions	
US Gallons to Litres	1 USG = 3.785 L
Litres to US Gallon	1 L = 0.264 USG
lbs to kg	1 lbs = 0.45 kg
kg to lbs	1 kg = 2.205 lbs

Color and type of signal	MEANING		
	Aircraft on the ground	Aircraft in flight	Movement of vehicles equipment and personnel
 Steady green	Cleared for takeoff	Cleared to land	Cleared to cross; proceed; go
 Flashing green	Cleared to taxi	Return for landing (to be followed by steady green at the proper time)	Not applicable
 Steady red	Stop	Give way to other aircraft and continue circling	Stop
 Flashing red	Taxi clear of landing area or runway in use	Airport unsafe- Do not land	Clear the taxiway/runway
 Flashing white	Return to starting point on airport	Not applicable	Return to starting point on airport
 Alternating red and green	General warning signal – exercise extreme caution	General warning signal – exercise extreme caution	General warning signal – exercise extreme caution

EFIS TEST (IFR)	
Menu / Right Knob +3	Power Settings
External Power	26-30 Volts
Bat	Charging or Ready
Select Bat	On BAT > 80%
Select External Power	Ship Power
Menu	Normal Operations
Heading	Check

LN-PWA	
BEFORE START	
Pre-Flight Inspection	COMPLETE
Passenger Briefing	PERFORM
Seats and Seat Belts	ADJUST / LOCK
Loose Items	SECURE
Brakes	APPLY - SET
Electric Equipment	OFF
Avionics / EFIS Master	OFF/OFF
Circuit Breakers	CHECK IN
Fuel Selector	LESSER TANK
Fuel Shutoff Valve	ON (push fully in)
Mixture	IDLE CUT-OFF
Throttle	OPEN ½ CM
Master Switch	ON

STARTING ENGINE	
Auxiliary Fuel Pump	ON
Mixture (Cold Engine)	ADVANCE (3-5 GPH) then IDLE CUT-OFF
Beacon	ON
Propeller Area	CLEAR
Ignition Switch	START
Mixture	ADVANCE TO RICH
Throttle	1000 RPM SET
Oil Pressure	CHECK
Auxiliary Fuel Pump	OFF
Mixture	LEAN

AFTER START	
Nav. Lights	AS REQ
Avionics / EFIS Master	ON/ON
ATIS	RECEIVE
Radio Call (IFR)	DEPARTURE CLEARANCE
Radios / Nav. Aids	SET
Altimeters	SET EFIS / CHECK STANDBY
Flight Controls	FREE / CORRECT
Fuel Selector	FULLER TANK
Trim	CHECK / SET TAKE-OFF
Flaps	CHECK FULL / SET
EFIS Test (IFR)	see pre flight C/L

BEFORE TAKEOFF	
Doors / Windows	CLOSED
Fuel Selector	BOTH
ENGINE RUN-UP	
Throttle	1800 RPM
Engine Instruments	GREEN
Alternator	CHECK
Magnetos	DROP (MAX 150/50 DIFF)
Annunciator Panel	TEST
Throttle	IDLE / 1000 RPM SET
Magnetos	BOTH
Radio Call (VFR)	DEPARTURE CLEARANCE
Transponder	SET - ALT
Autopilot	OFF / TEST (IFR)
TO / Emergency Briefing	PERFORM

TAXI	
Taxi Lights	ON
Brakes	CHECK
Flight Instruments / EFIS	CHECK (T/B + ASI)

LN-PWA	
LINE-UP	
Mixture	RICH
Strobe Lights	ON
Heading	EFIS SET / CHECK HDG
Landing Light	ON (after TO clearance)
Pitot Heat	AS REQ (< 5°C)
Engine Instruments	GREEN

AFTER TAKE-OFF	
Flaps	UP
Landing Lights	OFF
Engine instruments	GREEN

CRUISE	
Mixture	LEAN AS REQ
Fuel Quantity	CHECK
Engine Instruments	GREEN

DESCENT	
ATIS	RECEIVE
Altimeters	SET / CHECK
Mixture	RICH
Taxi Light	ON

BEFORE LANDING	
Engine Instruments	GREEN
Magnetos	BOTH
Mixture	RICH
Autopilot	OFF
Fuel Selector	ON BOTH
Seat Belts	FASTENED
Landing Light	ON (after LDG clearance)

AFTER LANDING (CLEAR OF RWY)	
Mixture	LEAN
Flaps	UP
Strobe Light	OFF
Pitot Heat	OFF
Landing light	OFF

SHUTDOWN	
Flight Plan	CLOSE (AS REQ)
Throttle	1000 RPM
Lights	OFF
Avionics / EFIS Master	OFF/OFF
Mixture	IDLE CUT-OFF
Ignition	OFF / KEYS OUT
Beacon	OFF
Master Switch	OFF
Fuel Selector	RIGHT or LEFT
Aircraft	SECURE
Tach Time / ACFT Log	NOTE / SIGN