

# LANCAIR LEGACY 2000

## ANNUAL TYPE INSPECTION NO.

Model LEG2 S/N **137** Registr. **LX-DIN**

Engine Time : \_\_. \_\_ Hobbs Time : \_\_. \_\_ Date \_\_/\_\_/\_\_

ENGINE Part A		Done	Observations
1	Check documentation : AD's SB's for IO-550N13		
2	Fuel Pressure (with boost pump on) min 10 PSI		PSI =
3	Start-Up Oil Pressure PSI min 30		PSI =
4	Run Engine at 1200RPM until Oil Temp reaches 60 °C		
5	Idle Oil Pressure min 10 PSI		PSI=
6	Magneto Check Drop L/R @1500 RPM		L= R=
7	Alternator A output		Volts= Amps=
8	Alternator B output		Volts= Amps=
9	Full Power Manifold Pressure		MP= RPM=
10	Check Idle Speed and Mixture Rise		Rise= @ RPM=
11	Check Operation of Propeller Governor		
12	Check engine gauges operation VM1000 - EC100 - Fuel L.Indicator		
13	Check for general running conditions and vibrations		
14	Compression Check		#1__ #2__ #3__ #4__ #5__ #6__

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ENGINE Part B		Done	Observations
1	Drain Engine Oil		
2	Remove Oil Filter, Check for Contaminants		
3	Check Oil Breather Inlet & Outlet Pipes, Open Oil Recuperator		
4	Install New Oil Filter, Replace Screen Gasket		
5	Fill crankcase with 7 liters of Multigrade 15W50 Aviation Oil		
6	Rotate Spark Plugs, Top To Bottom, Clean & Gap		
7	Check Ignition Harness For Chaffing and General Condition		
8	Check Magneto points. Replace as necessary		
9	Check Magneto Timing in accord. with engine data plate 25° +-1		
10	Check Exhaust System For Cracks, Security & Gaskets		
11	Check Intake Pipes For Condition and Leaks		
12	Clean injectors nozzles		
13	Check & Clean Air Filter and Ram Air Door & Cable		
14	Check Engine Baffles and Cowling For General Condition		
15	Clean Fuel Filter and Inspect Hoses for general condition		
16	Check Engine Vibration Isolator for Poor Condition or Deterioration		
17	Check Engine Mount for Cracks and Security to Firewall		
18	Check Engine Oil Leaks		
19	Check Prop Governor for Leaks, Security and condition of cable end		
20	Check Starter for security and condition		
21	Check Alternators and Mount for Security and Wiring Condition		
22	Check MP Cable General Operation and Cable End + Lubrificate		
23	Check RPM Cable General Operation and Cable End + Lubrificate		
24	Check MIXT Cable General Operation and Cable End + Lubrificate		
25	Wash Engine		
PROPELLER		Done	Observations
1	Inspect Propeller for cracks, Nicks, Binds and Oil Leaks		
2	Remove minor Nicks and Dress Blades as Necessary		
3	Check mounting Bolts Torque and Safety Wiring		
4	Check Blades for looseness		
5	Inspect Spinner, Screws and Bulkhead for Cracks and condition		

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CABIN		Done	Observations
1	Check Seat Belts for General condition and Defects		
2	Check Battery A for condition, Cables, Security and Charge		
3	Check Battery B for condition, Cabels Security and Charge		
4	Check hydraulic pump & lines for leaks, security and fluid level		
5	Check Elevator pushrod and arm for security and lubricate rod ends		
6	Check Elevator trim operation		
7	Inspect Flaps motor and rods for proper operation and lubricate		
8	Inspect Aileron, elevator pushrod and trim system and lubricate		
9	Check Aileron trim operation		
10	Inspect Rudder pedals,cables & pushrod for proper oper. and lubricate		
11	Check Rudder trim operation		
12	Inspect Brake free operation, leakage and fluid level		
13	Check instruments panel wires and untichaffing		
14	Check Compass and correction card		
15	Check instruments lights and dimmers		
16	Clean inside of cabin		
17	Inspect fuel lines, tanks, vents, drains and cups		
18	Check fuel pump high and low boost for operation and security		
19	Check fuel shutoff valve for operation and leakage		
20	Check Pitot , pitot heating, static ports and hoses		

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LANDING GEAR		Done	Observations
1	Place aircraft on jacks		
2	Clean excess greas off gear legs, structs and wheels		
3	Check brake discs and linings for wear or cracks		
4	Check wheels for general condition and cracks		
5	Check tires for wear, condition and proper inflation		
6	Check wheel bearings for corrosion and wear, re-pack with grease		
7	Check main gear trailing beams and bolts for wear		
8	Check main gear weldment for fore and aft end play		
9	Check compression on gear struts, leakage and visual damage		
10	Check nose gear shimmy damper for proper resistance to movement		
11	Check nose gear gas spring for 100 PSI minimum compress		
12	Retract the gear checking for wear and freedom of mouvement of all bearing og gear and drag strut assemble. Lubricate all moving parts. Check tire pressure 65 PSI		
13	Check gear door for fit and security. Lubricate pivot points and rods		
14	Free fall the gear using dump valve. Checkl for freedom of movement and overcentering of links. Check gear using power pack and check pressure down within limits.		
15	Check operation of gear lights and switches		
16	Check gear switch is down and dump valve closed. Remove aircraft from jacks		
EMPENNAGE		Done	Observations
1	Remove exterior inspection covers. Inspect for security and wear and lubricate toque tub es, cables and bell cranks. Reinstall inspection covers		
2	Inspect rudder hinges and rudder attachments		
3	Inspect elevator, rudder trim tabs and hinges and lubricate		
WINGS		Done	Observations
1	Remove inspection covers		
2	Inspect and lubricate all bell cranks, push rods and rod ends		
3	Check all wing attach bolts for security and condition		
4	Check flaps for general condition and operation		
5	Check flap actuating rods, bell cranks and bearings for condition and lubricate		
6	Check pitot mast and lines for security and obstruction		
7	Check aileron for condition and hinges for wear, lubricate		

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8	Install inspection covers		
<b>ELECTRICAL</b>		<b>Done</b>	<b>Observations</b>
1	Check navigation lights		
2	Check landing and taxi lights		
3	Check strobes for proper operation and security		
4	Check cockpit and instrument lights		
5	Check pitot heat		
6	Check ELT for operation		Battery due date is __/__/__
7	Transponder Check		Due date __/__/__
<b>RADIOS</b>		<b>Done</b>	<b>Observations</b>
1	Check radio and electronic equipment for proper installation and secure mounting		
2	Check wiring and conduits for proper mounting and obvious defects		
3	Check bonding and shielding for proper installation and condition		
4	Check antennas for condition, secure mounting, and proper operation		
<b>GENERAL</b>		<b>Done</b>	<b>Observations</b>
1	Check all optional equipment for security and proper operation		
2	Check all placards		
3	Check canopy and hardware for general condition and lubricate		
4	Check composites for signs of delamination, distortion, cracks, damage and lost paint or other evidence of failure		
5	Clean interior and wash exterior		
6	All paper work properly signed and AD'S and SB's compliance checked		
7	Inspect each installed miscellaneous item that is not otherwise covered by this listing for proper operation and installation		
8	Periodically use the dump valve to extend the gear in flight checking for full down and locked condition		