Lear 35A SER# 234 & 590 Limitations with FC-530 Autopilot

Limitation	Associated Number
1. Certified under part 25	
 Approved for VFR, IFR, day, night, icing conditions. Minimum flight crew is (2) two. 	
4. No Aerobatics including spins are approved	
5. Intentional stalls above 18,000 ft. prohibited with flaps	
and gear extended	40.500.11
Max Ramp most Aircraft Max Takeoff most aircraft	18,500 lbs 18,300 lbs.
Max Zero Wing and Tip Fuel Weight	13,500 lbs.
9. Max Landing Weight	15,300 lbs.
10. Do not extend or operate spoilers above Mmo Vmo	2221412
11. Vmo: Up to 8000 ft. 8000 and above	300 KIAS 350 KIAS
12. Mmo	.81 Mach
13. Mmo with any BLE missing	.77 Mach
14. Mmo with Mach Trim and Autopilot Disengaged	.74
15. Mmo with Stick Puller Inoperative (left S.W. switch off)	.74
16. Va (Stall speed with 3.0 g's at gross wt or highest speed that full rudder and aileron can be applied without	
overstress.	
17. Vlo	200 KIAS
18. Vle	260 KIAS
19. Vfe 1-8 / 9-20 / 21-40 20. Vmca Sea Level -18c (0 f)	200/ 185-200 / 150 KIAS 110 KIAS
21. Vmcg	103 KIAS
22. Max Pressure Altitude for TO	10,000 ft. MSL
23. Max Tailwind	10 KTS
24. Max Water/Slush25. Max Nosewheel Steering Speed	¾" 19mm 45 Kts GS
26. Max Tire Limit	182 Kts GS
27. Max Tip Landing WT	925 lbs.
28. Minimum Fuel each wing TO or G/A	600 Lbs.
29. Do not take off with Cabin Pressurized30. Seat Belts and Shoulder Harness worn TO & Ldg	
31. Max Operating Altitude	45,000 ft
32. Flight Loads Flaps Up	+3.0 to -1 g (70 degree bank)
Flaps Down	+2.0 to 0 g (60 degree bank)
	Pullups, overspeeds, push-overs limited to these values
33. Both Stall Warning Switches must be on	minica to tribut values
34. Pitch Trim runaway training prohibited in fliht	
35. Yaw Damp checks must be completed before each flt.36. One yaw damper must be on for all flight conditions	
except TO, LDG, and rudder trimming	
37. Do not extend spoilers with flaps extended while	
airborne	
38. Do not extend spoilers or operate with spoilers deployed at speeds above Vmo Mmo	
39. Aux Hydraulic Pump	3 min on 20 min off
40. Hydraulic fluid	MIL - H-5606
41. Generator Output Flight / Ground	400 / 320
42. With no CUR LIM or Start Disengage Check every start	
43. Engine Sync off for TO, LDG, SE Opns	
44. Max GPU Output	1,100 Amps
45. Freon Air Cond (No FCN 89-1) / (FCN 89-1) Off Above	18,000 / 35,000
46. Crew and Pax O2 Not Approved Above	40,000 ft. Cabin Alt

Emerg Descent 33. Pax Mask intended for use during 34. Pax Mask will not provide sufficient O2 Above 34,000 ft Cabin Alt 35. Pax Mask not intended for prolonged use above 25,000 ft Cabin Alt 36. Without Emerg Press Valves Wear Masks Abv 41,000 MSL 37. O2 Masks must be quick donning above 25,000 ft 38. Max Diff Press 10 psi 39. Windshield and Radome Alcohol grade 0-M-232 Grade A 40. N1 or N2 Overspeed 5 Sec / 1 Minute is 103-105% / 100-103% 41. Max Oil Temp 140 C 42. Oil Type EMS 53110, Type II 43. ITT Limits Start/Takeoff/Max Cont/Max Transient 860/860 (5 Min) / 832 / 870 44. Fuel Temp for Takeoff other than JP4 or equiv -29c (-20f) 45. Fuel Temp -54c (-65f) 46. Any fuel in the tanks that does not register on the fuel quantity indicator is considered unusable 47. Fuel Anti-Icing either MIL-I-27686 or MIL-I-85470 48. EFC must be adjusted to the Specific Gravity of Fuel 49. Mixing of fuel types is allowed 50. When using any AV Fuel in the mix a. No Takeoff with Fuel Temp Lower than -54c b. Restricted below 15,000 feet c. Both Jet and Standby Pumps must be on and operating d. AvGas may not be use din excess of 500 Gal per 100 Hrs Airspeed Red Line /Barber Pole 67-670 and 018-063 300 KIAS /350/.81 Airspeed Red Line /Barber Pole 671- and 064 -350 KIAS /350/.81 Trim Takeoff Range 5 - 7.6 degrees Cabin Altimeter Green/Yellow/Red 67-112 / 107, 133 -0-8.9/9.2/10 / 0-9.4/9.7/10 Turbine Speed Green/Yellow/Red 48-100/103 1 Minute/103% Turbine ITT Green/Yellow/Red 230-832/860/860c N1 Fan Green/Yellow/Red 24-100/103 1 Minute/103% Oil Pressure Red/Yellow/Green/Yellow/Red 25/25-38/38-46/46-55/55 3 Min. Max Oil Temperature Green/Yellow/Red 30-127/140/140 Ammeter Yellow/Red DC Voltmeter Red AC Voltmeter Green Hydraulic Pressure 067-646 Yellow/Green/Red Emergency Air Green/Red - Yellow/Green/Red O2 Pressure Green/Yellow/Red AUTOPILOT FLIGHT DIRECTOR LIMITATIONS 1. AP/FD are approved for CAT I ILS Approaches

320-400/400 32 110-130 0-155/1,250-1,500/1,750 PSI 1,800-3,000 - 1,800/3,000/3,000 PSI 1,550-1,850/0-300/2000PSI

> 1,000 agl/200 agl 200 lbs

7. If Severe Turbulence use Alt Hold and Soft Mode 8. No use any axis if fails AP Monitor Check 9. Disengage before switching static sources 10. For VOR Approaches lower flaps 8 or more DRAGE CHUTE No Deploy in Flight Max Speed 150 Kts Max Demo XW 20 Kts DEE HOWARD T/R Ground Deployment only Engine Starts with T/R Prohibited No Use for Backing Disarm Immediately after T/O remain until Final Appch Full Reverse is 50 Kts Maximum Fan Speed in Reverse is 75% Simultaneous T/R and Drag Chute Prohibited

2. Max Operating Speed is Vmo.Mmo

4. Pitch and Roll Axis NOT during TO & LDG 5. Minimum Altitudes Cruise/Approach

3. In Seat, Belt Fastened

6. Fuel Imbalance