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

Limitation Approved for VFR, IFR, day, night, icing conditions. Aux Hydraulic Pump Both Stall Warning Switches must be on Certified under part 25 Crew and Pax O2 Not Approved Above Do not extend or operate spoilers above Mmo Vmo Do not extend spoilers or operate with spoilers deployed at speeds above Vmo Mmo Do not extend spoilers with flaps extended while airborne Do not take off with Cabin Pressurized	Associated Number 3 min on 20 min off 40,000 ft. Cabin Alt
Engine Sync off for TO, LDG, SE Opns Flight Loads Flaps Up / Flaps Down Freon Air Cond (No FCN 89-1) / (FCN 89-1) Off Above	+3.0 to -1 g (70 degree bank) +2.0 to 0 g (60 degree bank) Pullups, overspeeds, push-overs limited to these values 18,000 / 35,000
Generator Output Flight / Ground Hydraulic fluid Intentional stalls above 18,000 ft. prohibited with flaps and	400 / 320 MIL - H-5606
gear extended Max GPU Output Max Landing Weight Max Nosewheel Steering Speed Max Operating Altitude Max Pressure Altitude for TO Max Ramp most Aircraft Max Tailwind Max Takeoff most aircraft Max Tip Landing WT Max Tire Limit Max Water/Slush Max Zero Wing and Tip Fuel Weight Minimum flight crew is (2) two. Minimum Fuel each wing TO or G/A Mmo Mmo with any BLE missing Mmo with Mach Trim and Autopilot Disengaged Mmo with Stick Puller Inoperative (left S.W. switch off) No Aerobatics including spins are approved One yaw damper must be on for all flight conditions except TO, LDG, and rudder trimming Pitch Trim runaway training prohibited in fliht Seat Belts and Shoulder Harness worn TO & Ldg Va (Stall speed with 3.0 g's/ gross wt or highest speed that full rudder & aileron can be applied without overstress. Vfe 1-8 / 9-20 / 21-40	1,100 Amps 15,300 lbs. 45 Kts GS 45,000 ft 10,000 ft. MSL 18,500 lbs 10 KTS 18,300 lbs. 925 lbs. 182 Kts GS ¾" 19mm 13,500 lbs. 600 Lbs81 Mach .77 Mach .74 .74
Vie 1-8 / 9-20 / 21-40 Vie Vio Vmca Sea Level -18c (0 f) Vmcg Vmo: Up to 8000 ft. / 8000 and above With no CUR LIM or Start Disengage Check every start Yaw Damp checks must be completed before each flt.	260 KIAS 260 KIAS 200 KIAS 110 KIAS 103 KIAS 300 KIAS / 350 KIAS

Pax Mask intended for use during Pax Mask will not provide sufficient O2 Above Pax Mask not intended for prolonged use above Without Emerg Press Valves Wear Masks Abv O2 Masks must be quick donning above Max Diff Press Windshield and Radome Alcohol grade N1 or N2 Overspeed 5 Sec / 1 Minute is Max Oil Temp Oil Type ITT Limits Start/Takeoff/Max Cont/Max Transient Fuel Temp for Takeoff other than JP4 or equiv Any fuel in the tanks that does not register on the fuel quantity indicator is considered unusable Fuel Anti-Icing either EFC must be adjusted to the Specific Gravity of Fuel Mixing of fuel types is allowed AV Fuel in the mix no Takeoff with Fuel Temp Lower than -54c Restricted below 15,000 feet Both Jet and Standby Pumps must be on and operating AvGas may not be use din excess of Airspeed Red Line /Barber Pole 67-670 and 018-063 Airspeed Red Line /Barber Pole 671- and 064 -Trim Takeoff Range Cabin Altimeter Green/Yellow/Red 67-112 / 107, 133 -Turbine Speed Green/Yellow/Red Turbine ITT Green/Yellow/Red N1 Fan Green/Yellow/Red Oil Pressure Red/Yellow/Green/Yellow/Red Oil Temperature Green/Yellow/Red 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** AP/FD are approved for CAT I ILS Approaches Max Operating Speed is Vmo.Mmo In Seat, Belt Fastened Pitch and Roll Axis NOT during TO & LDG Minimum Altitudes Cruise/Approach Fuel Imbalance If Severe Turbulence use Alt Hold and Soft Mode No use any axis if fails AP Monitor Check Disengage before switching static sources 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%

Emerg Descent 34,000 ft Cabin Alt 25,000 ft Cabin Alt 41,000 MSL 25,000 ft 10 psi 0-M-232 Grade A 103-105% / 100-103% 140 C EMS 53110, Type II 860/860 (5 Min) / 832 / 870 -29c (-20f) -54c (-65f)

MIL-I-27686 or MIL-I-85470

500 Gal per 100 Hrs
300 KIAS /350/.81
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5 - 7.6 degrees
0-8.9/9.2/10 / 0-9.4/9.7/10
48-100/103 1 Minute/103%
230-832/860/860c
24-100/103 1 Minute/103%
25/25-38/38-46/46-55/55 3 Min. Max
30-127/140/140
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

1,000 agl/200 agl 200 lbs

1,550-1,850/0-300/2000PSI

Simultaneous T/R and Drag Chute Prohibited