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

Limitation	Associated Number
AC Voltmeter Green	110-130
Airspeed Red Line /Barber Pole 671- and 064 -	350 KIAS /350/.81
Airspeed Red Line /Barber Pole 67-670 and 018-063	300 KIAS /350/.81
Ammeter Yellow/Red	320-400/400
Any fuel in the tanks that does not register on the fuel	
quantity indicator is considered unusable	
AP/FD are approved for CAT LLS Approaches Approved for VFR, IFR, day, night, icing conditions.	
AUTOPILOT FLIGHT DIRECTOR LIMITATIONS	
Aux Hydraulic Pump	3 min on 20 min off
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	500 Gal per 100 Hrs
Both Stall Warning Switches must be on	0.0000000000000000000000000000000000000
Cabin Altimeter Green/Yellow/Red 67-112 / 107, 133 -	0-8.9/9.2/10 / 0-9.4/9.7/10
Certified under part 25 Crew and Pax O2 Not Approved Above	40,000 ft. Cabin Alt
DC Voltmeter Red	32
DEE HOWARD T/R	<u> </u>
Disarm Immediately after T/O remain until Final Appch	
Disengage before switching static sources	
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	
DRAGE CHUTE	
EFC must be adjusted to the Specific Gravity of Fuel	
Emergency Air Green/Red - Yellow/Green/Red	1,800-3,000 - 1,800/3,000/3,000 PSI
Engine Starts with T/R Prohibited	
Engine Sync off for TO, LDG, SE Opns	0.01 (70.1 1.1)
Flight Loads Flaps Up / Flaps Down	+3.0 to -1 g (70 degree bank)
	+2.0 to 0 g (60 degree bank) Pullups, overspeeds, push-overs
	limited to these values
For VOR Approaches lower flaps 8 or more	
Freon Air Cond (No FCN 89-1) / (FCN 89-1) Off Above	18,000 / 35,000
Fuel Anti-Icing either	MIL-I-27686 or MIL-I-85470
Fuel Imbalance	200 lbs
Fuel Temp Fuel Temp for Takeoff other than JP4 or equiv	-54c (-65f) -29c (-20f)
Full Reverse is 50 Kts	-290 (-201)
Generator Output Flight / Ground	400 / 320
Ground Deployment only	
Hydraulic fluid	MIL - H-5606
Hydraulic Pressure 067-646 Yellow/Green/Red	0-155/1,250-1,500/1,750 PSI
If Severe Turbulence use Alt Hold and Soft Mode	
In Seat, Belt Fastened	
Intentional stalls above 18,000 ft. prohibited with flaps and gear extended	
ITT Limits Start/Takeoff/Max Cont/Max Transient	860/860 (5 Min) / 832 / 870
Max Demo XW 20 Kts	000,000 (0), / 002, 0.0
Max Diff Press	10 psi
Max GPU Output	1,100 Amps
Max Landing Weight	15,300 lbs.
Max Nosewheel Steering Speed	45 Kts GS
Max Oil Temp	140 C
Max Operating Altitude	45,000 ft

Max Operating Speed is Vmo.Mmo Max Pressure Altitude for TO 10.000 ft. MSL Max Ramp most Aircraft 18.500 lbs Max Speed 150 Kts Max Tailwind **10 KTS** Max Takeoff most aircraft 18.300 lbs. Max Tip Landing WT 925 lbs. Max Tire Limit 182 Kts GS Max Water/Slush 3/4" 19mm Max Zero Wing and Tip Fuel Weight 13,500 lbs. Maximum Fan Speed in Reverse is 75% Minimum Altitudes Cruise/Approach 1,000 agl/200 agl Minimum flight crew is (2) two. Minimum Fuel each wing TO or G/A 600 Lbs. Mixing of fuel types is allowed .81 Mach Mmo with any BLE missing .77 Mach Mmo with Mach Trim and Autopilot Disengaged .74 Mmo with Stick Puller Inoperative (left S.W. switch off) .74 N1 Fan Green/Yellow/Red 24-100/103 1 Minute/103% N1 or N2 Overspeed 5 Sec / 1 Minute is 103-105% / 100-103% No Aerobatics including spins are approved No Deploy in Flight No use any axis if fails AP Monitor Check No Use for Backing O2 Masks must be quick donning above 25.000 ft O2 Pressure Green/Yellow/Red 1,550-1,850/0-300/2000PSI 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 Oil Type EMS 53110, Type II One yaw damper must be on for all flight conditions except TO, LDG, and rudder trimming Pax Mask intended for use during **Emerg Descent** Pax Mask not intended for prolonged use above 25,000 ft Cabin Alt Pax Mask will not provide sufficient O2 Above 34,000 ft Cabin Alt Pitch and Roll Axis NOT during TO & LDG Pitch Trim runaway training prohibited in fliht Seat Belts and Shoulder Harness worn TO & Ldg Simultaneous T/R and Drag Chute Prohibited Trim Takeoff Range 5 - 7.6 degrees Turbine ITT Green/Yellow/Red 230-832/860/860c Turbine Speed Green/Yellow/Red 48-100/103 1 Minute/103% 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 / 21-40 200/ 185-200 / 150 KIAS Vle 260 KIAS VIo **200 KIAS** Vmca Sea Level -18c (0 f) **110 KIAS** Vmca **103 KIAS** Vmo: Up to 8000 ft. / 8000 and above 300 KIAS / 350 KIAS Windshield and Radome Alcohol grade 0-M-232 Grade A With no CUR LIM or Start Disengage Check every start Without Emerg Press Valves Wear Masks Abv 41,000 MSL Yaw Damp checks must be completed before each flt.