

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

LEARJET 45

SPECIFICATIONS

Cruise Speed	Mach 0.81, 464 kts, 859 kmh
Engines	Allied Signal TFE731-20 3,500 lb thrust
Maximum Range	2,200 nm, 2,532 sm, 4,074 km
Service Ceiling	51,000 ft 15,545 m
Fuel Capacity	6,062 lb, 904.8 U.S. gal, 2,722 kg, 3,341 L
Max. Gross Weight	20,450 lb, 9,276 kg
Max. Takeoff Weight – HGW	20,200 lb, 9,163 kg
Length	58.4 ft, 17.7 m
Wingspan	47.8 ft, 14.6 m
Height	14.3 ft, 4.3 m
Seating	Up to 9
Useful Load	2,650 lb, 1,202 kg



REFERENCE INFORMATION

FS Full Fuel Weight: 19,907 lbs		VAPP	<4,000'
			106 KIAS (13,000 lbs)
			127 KIAS (19,200 lbs)
VMO	330 KIAS (primary ins.)	VAPP	5000'
	325 KIAS (standby ins.)		107 KIAS (13,000 lbs)
MMO	.78 MACH (autopilot off)		128 KIAS (19,200 lbs)
	.81 MACH (autopilot on)	VREF	<4,000'
VA	(12,500 lbs)		102 KIAS (13,000 lbs)
	150 KIAS (sea level)		123 KIAS (19,200 lbs)
	163 KIAS (20,000')	VREF	5000'
	195 KIAS (40,000'l)		103 KIAS (13,000 lbs)
VA	(20,200 lbs)		123 KIAS (19,200 lbs)
	198 KIAS (sea level)	Best Glide Speed: 160 KIAS (gear up; flaps up; both engines inoperative)	
	225 KIAS (20,000')		
	245 KIAS (40,000'l)		
VLE	260 KIAS		
VLO	200 KIAS	LEGENDA	
VFE	250 KIAS (flaps 8)		
	200 KIAS (flaps 20)		
	150 KIAS (flaps 40)		
V1	107 KIAS		
VR	(st. temp. sea level)	VMO - Max. Operating Speed (KIAS) MMO - Max. Operating Speed (MACH) VA - Maneuvering Speed VLE - Maximum Landing Gear Extension Speed VLO - Maximum Gear Operating Speed VFE - Maximum Flaps Extended Speed V1 - Takeoff Decision Speed (anti-skid off) VR - Rotation Speed (dry, standard temp.) V2 - Takeoff Safety Speed (dry, st. temp.) VAPP - Approach Climb Speed (flaps 20; gear up) VREF - Landing Approach Speed (flaps 30; gear down)	
	108 KIAS (13,000 lbs)		
	118 KIAS (20,200 lbs)		
VR	(st. temp. 5000')		
	108 KIAS (13,000 lbs)		
	119 KIAS (20,200 lbs)		
V2	(st. temp. sea level)		
	120 KIAS (13,000 lbs)		
	129 KIAS (20,200 lbs)		
V2	(st. temp. 5000')		
	120 KIAS (13,000 lbs)		
	130 KIAS (20,200 lbs)		

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BEFORE STARTING ENGINES

- Gear -- CHECK DOWN
- BATT Switch -- ON
- L and R GEN Switches -- OFF
- Flight Controls -- CHECK
- Engine Instruments -- CHECK
- Fuel Quantity -- CHECK
- De-ice -- OFF
- Aircraft Lighting -- OFF
- Parking Brake -- SET
- Trim -- AS DESIRED
- Altimeters -- SET
- Standby Instruments -- SET
- Takeoff Data (V1, VR, V2) -- COMPUTED and SPEEDS SET
- Avionics Master Switch -- ON
- Avionics -- SET FOR DEPARTURE

STARTING ENGINES

- Beacon/Strobe Switch -- BCN/STROBE
- PARKING BRAKE -- SET
- Thrust Levers -- IDLE
- Fuel Flow -- ON
- L Start Switch -- ON
- L FF (Fuel Flow) -- CHECK
- L N1 increasing as L N2 increases -- CHECK
- L ITT -- CHECK
- L Oil Pressure -- CHECK
- L Engine Instruments -- CHECK NORMAL
- R Start Switch -- ON
- R FF (Fuel Flow) -- CHECK
- R N1 increasing as L N2 increases -- CHECK
- R ITT -- CHECK
- R Oil Pressure -- CHECK
- R Engine Instruments -- CHECK NORMAL
- L and R GEN Switches -- ON

BEFORE TAXI

- De-ice -- ON
- Spoiler Lever -- ARM
- Flaps -- SET 8 OR 20 DEGREES
- Flight Controls -- CHECK
- Aircraft Lighting -- ON AS REQUIRED
- Brakes -- RELEASE

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TAXI AND BEFORE TAKEOFF

- Brakes -- CHECK
- Flight Instruments -- CHECK
- Engine Instruments -- CHECK
- Takeoff Data (V1, VR, V2) -- CHECK
- Nav Equipment -- CHECK
- Transponder -- ON
- Flaps -- SET 8 OR 20 DEGREES
- Trim -- SET FOR TAKEOFF
- De-ice -- AS REQUIRED

RUNWAY LINEUP

- Lights -- ON

TAKEOFF

- Thrust Lever -- T/O
- Brakes -- RELEASE
- VR -- ROTATE

AFTER TAKEOFF

- Gear -- UP AFTER POSITIVE RATE OF CLIMB
- Flaps -- UP AT V2+25
- Yaw Damper -- ON AS REQUIRED
- SPOILER LEVER -- RET
- De-ice -- AS REQUIRED
- L and R LDG-TAXI Light Switches -- OFF

CLIMB

CAUTION: Maximum thrust lever setting is MCR with full anti-ice on between 15,500 and 30,000 feet.

- Altimeters -- RESET TO 29.92 CROSSING 18,000 FEET

DESCENT

- De-ice -- AS REQUIRED

CAUTION: Maximum thrust lever setting is MCR with full anti-ice on between 15,500 and 30,000 feet.

- Altimeters -- RESET TO LOCAL CROSSING 18,000 FEET
- Fuel Quantities and Balance -- CHECK

APPROACH

- Landing Data (VREF, VAPP) -- COMPUTED and SPEEDS SET
- Avionics and Radios -- SET
- Flaps -- SET 8 OR 20 DEGREES
- Spoiler Lever -- ARM

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BEFORE LANDING

- Gear -- DN (Check for 3 green lights)
- L and R LDG-TAXI Light Switches -- ON
- Flaps -- DN, check indication

LANDING

- Brakes -- AS REQUIRED
- Spoilers -- VERIFY EXTENDED

AFTER LANDING/CLEARING RUNWAY

- Transponder -- OFF
- De-ice -- AS REQUIRED
- Lights -- AS DESIRED
- Spoiler Lever -- RET
- Flaps -- UP
- Thrust Lever -- CUTOFF

SHUTDOWN

- Parking Brake -- SET
- De-Ice -- OFF
- Thrust Levers -- IDLE
- Fuel Flow -- OFF
- Lights -- OFF
- L and R GEN Switches -- OFF
- BATT Switch -- OFF

PILOT'S NOTES
