



Learjet 45

Microsoft Flight Simulator X

Aircraft : Default Learjet 45
 Panel : Default Learjet 45



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Pre-Start Checklist

Parking Brake	SET
Throttle	IDLE
Fuel Flow	CUTOFF (Ctrl-Shift-F1)
BATT Master Switch	ON
Panel Lights	ON if required
L and R GEN Switches	OFF
Landing Gear Lever	CHECK DOWN
Flaps	UP
Spoiler	RETRACTED
APU	START / CHECK RUN
Fuel Quantity	CHECK
Engine Instruments	CHECK
Pitot Heat / Anti-Ice	OFF
Flight controls	FREE AND CORRECT
Elevator Trim	TAKEOFF SETTING
Avionics	ON
Passenger Signs	ON
Check Weather	(Atis, Flight Services)
Anti-Ice	TEST/CHECK

Request Clearance

Beacon / Recogn. Lights / Strobe Lights	ON
Transponder	STANDBY

Startup Checklist

Thrust Levers	IDLE
Engine Area	CLEAR
Fuel Flow	ON (Ctrl-Shift-F4)
L and R IGN Buttons	ON
Left Engine	START
Fuel Flow	CHECK
N1 increasing as N2 incr.	CHECK
Oil Pressure	CHECK
Start Button	OFF
Repeat for Right Engine	
Engine Instruments	CHECK NORMAL
L and R GEN Switches	ON



Landing Checklist

Autoland	Available ?
Landing Gear	CHECK DOWN
Autopilot / Autothrottle	OFF
Landing Speed	135 KIAS
After touchdown	Apply Reverse Thrust; at 60 kts: Cancel Reverse Thrust
Spoilers	VERIFY EXTENDED
Brakes	AS REQUIRED

Taxi To Ramp

Flaps	UP
Spoilers	RETRACTED
Landing Lights	OFF
Speed	Max. 20 knots
Transponder	1200 / OFF
Elevator Trim	TAKEOFF SETTING

Shutdown Checklist

Parking Brake	SET
Throttle	IDLE
Passenger Signs	OFF
Pitot Heat / Anti-Ice	OFF
Nav Lights	OFF
F/D	OFF
Avionics	OFF
L and R IGN Buttons	OFF
Fuel Flow	CUTOFF (Ctrl-Shift-F1)
L and R GEN Switches	OFF
Beacon / Recogn. Lights / Strobe Lights	OFF
APU	STOP
BATT Master Switch	OFF

Securing Aircraft

Parking Brake	Verify SET
Throttle	Verify IDLE
All Switches	Verify OFF

Anti-Ice	AS REQUIRED
APU	STOP

Before Taxi Checklist

Nav Lights	ON
Heading Indicator/Altimeters	SET
Standby Instruments	SET
Radios and Avionics	SET FOR DEPARTURE
Autopilot	SET and OFF
Autothrottle	ARMED
F/D	ON
NAV/ADF/FMS	SELECT
Yaw Damper	ON AS REQUIRED

Request Taxi Clearance

Taxi Checklist

Parking Brake	RELEASE
Taxi to assigned runway	SPEED Max. 20 knots
Brakes	CHECK during taxi
Directional Gyro / Turn Coordinator	PROPER IND. during turns
Artificial Horizon	ERECT during turns

Before Take-off Checklist

Parking Brake	SET
Throttle	IDLE
Elevator Trim	TAKEOFF SETTING
Flaps	8 deg
Spoilers	RETRACTED
Flight Instruments	CHECKED
Engine Instruments	CHECK
Takeoff Data (V1, VR, V2)	CHECK
Nav Equipment	CHECK
Landing Lights	ON
Pitot Heat	ON
Anti-Ice	AS REQUIRED
Transponder	ONSTANDBY

Request Takeoff Clearance

Take-off Checklist

Smoothly increase thrust to	40% N1 let spool up
Takeoff Thrust	FULL
Brakes	RELEASE
V1 =	120 KIAS (descision)
Vr =	130 KIAS (rotate)
Pitch	10-15 deg. nose up
V2 =	140 KIAS (safety speed)
At Positive Climb Rate	Touch Brakes
Landing Gear	RETRACT
At 200 KIAS	RETRACT flaps up

Climb-out Checklist

Throttle	AS REQUIRED
Trim for	250 KIAS / 1800 fpm
Autopilot/Autothrottle	CHECK and ACTIVATE
Below 10000' max. speed	250 KIAS
ATC	AS REQUIRED
L and R IGN Buttons	OFF
Passenger Signs	OFF
Above 10000' speed	280 KIAS
Landing Lights	OFF

Cruise Checklist (above FL 180)

At Transition Altitude (FL180) set Altimeter to	29,92" (1013mb)
Accelerate to cruise speed	FL180 0.65 mach (320 KIAS)
	FL240 0.73 mach (322 KIAS)
	FL280 0.80 mach (327 KIAS)
	FL330 0.80 mach (292 KIAS)
Engine+Instruments	CHECK
Fuel Quantity	CHECK
Radios	TUNED and SET
Autopilot	CHECK and SET
Anti-Ice	AS REQUIRED
Lights	AS REQUIRED

Descent Checklist

Atis/Airport Information	CHECK
Altimeter	CHECK
Radios	SET
Anti-Ice	AS REQUIRED
Descent Speed	to FL240 0.73 mach
	to FL180 0.65 mach
At Transition Altitude (FL180) reset Altimeter to local	to FL120 280 KIAS
	below 10'000ft 250 KIAS
Fuel Quantities and Balance	CHECK
Flaps / Landing Gear	CHECK UP
Check Weather	(ATIS, Flight Services)

Approach Checklist

Localizer Level Flight :

Passenger Signs	ON
APU	START / CHECK RUN
L and R IGN Buttons	ON
Avionics + Radios	SET
Speed: Establish	200 KIAS
Landing Lights	ON
Auto Spoilers	ARM
Flaps	8 deg
Speed: Establish	180 KIAS
Flaps	20 deg
Speed: Establish	155 KIAS
Landing Gear	DOWN
Turning toward runway: set flaps	FULL DOWN

Final Glideslope Descent :

Speed Establish	145 KIAS
Parking Brake	VERIFY OFF
Anti-Ice	AS REQUIRED