Learjet 45
Microsoft Flightsimulator 2004

Aircraft: Default Learjet 45
Panel: Default Learjet 45

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Pre-Start Checklist

Parking Brake                                           SET
Throttle                                                     IDLE
Fuel Flow                                           OFF (Ctrl-Shift-F1)
BATT Master Switch                                      ON
WARN Display                                          ON
Gear Lever                                               CHECK DOWN
Flaps                                                  UP
Spoiler                                              RETRACTED
Fuel Quantity                                          CHECK
L and R GEN Switches                                    OFF
Engine Instruments                                     CHECK
Pitot Heat / De-Ice / Aircraft Lighting                OFF
Flight controls                                        CHECK
Check Weather                                          (Atis, Flight Services)

Request Clearance
Beacon / Strobe Light                                 ON
Transponder                                           STANDBY

Startup Checklist

Thrust Levers                                          IDLE
Engine Area                                             CLEAR
Fuel Flow                                              ON (Ctrl-Shift-F4)
Eng 1 Start Switch                                    START (hold)
    Fuel Flow                                          CHECK
    N1 increasing as N2 incr.                      CHECK
    Oil Pressure                                      CHECK
Eng 2 Start Switch                                    START (hold)
    Fuel Flow                                          CHECK
    N1 increasing as N2 incr.                      CHECK
    Oil Pressure                                      CHECK
Engine Instruments                                   CHECK NORMAL
L and R GEN Switches                                   ON
De-Ice                                                AS REQUIRED
### Landing Checklist

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

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

### Taxi To Ramp

- **Flaps**
  - UP
  - RETRACTED
- **Spoilers**
  - OFF
- **Landing Lights**
  - Max. 20 knots
- **Speed**
  - OFF
- **Transponder**
  - TAKEOFF SETTING
- **Elevator Trim**
  - AS DESIRED
- **Lights**
  - OFF

### Shutdown Checklist

- **Brake**
  - SET
- **Throttle**
  - IDLE
- **Passenger Signs**
  - OFF
- **Pitot Heat / De-Ice**
  - OFF
- **Nav Lights**
  - OFF
- **F/D**
  - OFF
- **Fuel Flow**
  - OFF (Ctrl-Shift-F1)
- **Engine Start Switches 1 – 2**
  - OFF
- **L and R GEN Switches**
  - OFF
- **Beacon / Strobe Light**
  - OFF
- **BATT Master Switch**
  - OFF

### Securing Aircraft

- **Parking Brake**
  - Verify SET
- **Throttle**
  - Verify IDLE
- **All Switches**
  - Verify OFF

### Before Taxi Checklist

- **Nav Lights**
  - ON
- **Heading Indicator/Altimeters**
  - SET
- **Standby Instruments**
  - SET
- **Radios and Avionics**
  - SET FOR DEPARTURE
  - SET and OFF
- **Autopilot**
  - ARMED
- **Autothrottle**
  - ON
- **F/D**
  - SELECT
- **VOR1/VOR2**
  - ON AS REQUIRED
- **Yaw Damper**
  - SET for takeoff
- **Elevator Trim**
  - Request Taxi Clearance

### Taxi Checklist

- **Fasten Seat Belts**
  - ON
- **No Smoking Sign**
  - ON
- **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

- **Brakes**
  - SET
- **Throttle**
  - IDLE
- **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
- **De-Ice**
  - AS REQUIRED
- **Transponder**
  - ONSTANDBY

### Request Takeoff Clearance
**Take-off Checklist**

Smoothly increase thrust to 40% N1 let spool up
Takeoff Thrust
Brakes
V1 = 120 KIAS (descension)
Vr = 130 KIAS (rotate)
Pitch 10-15 deg. nose up
V2 = 140 KIAS (safety speed)
At Positive Climb Rate
Landing Gear
At 210 KIAS

**Climb-out Checklist**

Throttle AS REQUIRED
Trim for 240 KIAS
Autopilot/Autothrottle CHECK and SET
Below 10000' max. speed 250 KIAS
*ATC*
Fasten Seat Belts OFF
No Smoking Sign 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
De-Ice AS REQUIRED
Lights AS REQUIRED

**Descent Checklist**

Atis/Airport Information CHECK
Altimeter CHECK
Radios SET
De-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 240 KIAS

Fuel Quantities and Balance CHECK
Flaps / Landing Gear CHECK UP
Check Weather (ATIS, Flight Services)

**Approach Weather Checklist**

*Localizer Level Flight :*
Fasten Seat Belts ON
No Smoking Sign 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 30 deg or FULL

*Final Glideslope Descent :*
Speed Establish 145 KIAS
Park Brakes VERIFY OFF
De-Ice AS REQUIRED