

**Factual Report – Attachment 8**  
**Bombardier Learjet 35 Checklists**

**OPERATIONAL FACTORS**

CEN17MA183

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**BEFORE TAXI**

- ◆ 1. Avionics..... SET
  - ◆ 2. Radar ..... STBY
  - ◆ 3. Circuit Breakers ..... IN
  - ◆ 4. Coffee/Oven (if installed) ..... AS DESIRED
  - 5. Fuel Control Governor ..... CHECK
  - ◆ 6. Windshield Heat..... PURGE AS REQ'D
  - ◆ 7. Lights ..... ON, AS REQ'D
  - ◆ 8. Anti-Skid ..... ON, LIGHTS OUT
  - ◆ 9. Pax Briefing/Cabin Secured..... COMPLETE
  - ◆ 10. **No Smoking Fasten Seat Belt Sign** ..... **ON**
  - ◆ 11. Parking Brake ..... RELEASE
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**TAXI AND BEFORE TAKEOFF**

- ◆ 1. Brakes & Steering ..... CHECK
- ◆ 2. Fuel Panel..... CHECKED & BALANCED
- TR. Thrust Reversers (if installed)..... CHECK & STOWED
- ◆ 3. Flight Controls..... CHECK
- ◆ 4. Flight Instruments ..... CHECK
- ◆ 5. Takeoff Data  
(N1, V1, VR, V2 & T.O. Distance)..... REVIEWED & BUGS SET
- ◆ 6. Engine Instruments ..... CHECK
- ◆ 7. Voltmeters & Ammeters ..... CHECK
- ◆ 8. Nav Equipment ..... SET
- ◆ 9. Radar ..... AS REQ'D

**(Procedure Continued)**

EFFECTIVITY

ALL

**BOMBARDIER**  
**LEARJET 35/36**

- ◆ 10. Spoilers .....RETRACTED, LIGHT OUT
- ◆ 11. Flaps ..... SET 20° or 8°, CHECK INDICATION
- ◆ 12. Trims (3) .....SET/PRI/LIGHT OUT
- ◆ 13. Pressurization..... SET
- ◆ 14. Cabin Air .....ON
- ◆ 15. Cabin Temp Controls ..... SET
- ◆ 16. Anti-Ice Systems..... CHECK & AS REQ'D
- ◆ 17. Electrically-Heated Windshield (if installed)..... ON
- ◆ 18. Crew Takeoff Briefing ..... COMPLETE

**TAKEOFF PITCH TRIM SETTINGS — DEGREES**

CENTER OF GRAVITY — % MAC							
5	8	12	16	20	24	28	30
7.6	7.5	7.4	7.3	7.2	6.1	5.0	5.0

**RUNWAY LINEUP**

- ◆ 1. Parking Brake ..... RELEASED
- ◆ 2. Transponder ..... ON
- TR. Thrust Reversers (TR-4000)..... ARM
- ◆ 3. Pitot Heat..... ON
- ◆ 4. Lights (Strobe, Recognition & Landing) ..... ON
- ◆ 5. Stall Warning ..... ON
- ◆ 6. Ignition ..... ON
- ◆ 7. Annunciator Panel ..... NORMAL

**EFFECTIVITY**

ALL

**AFTER TAKEOFF**

- 1. Landing Gear (positive rate) ..... UP
- 2. Yaw Damper ..... ENGAGED
- TR. Thrust Reversers (TR-4000) ..... DISARM
- 3. Flaps ..... UP
- 4. Ignition ..... OFF
- 5. Pressurization ..... CHECK
- 6. Landing/Taxi Lights ..... OFF
- AP. Autopilot APPR Light (FC-200 autopilot) ..... OUT
- 7. Hydraulic Pressure ..... CHECK
- 8. Angle-of-Attack Indicators ..... CROSS CHECK

**CLIMB**

**10,000 Ft Checks:**

- 1. No Smoking Fasten Seat Belt Sign ..... AS REQ'D
- 2. Pressurization ..... CHECKED

**18,000 Ft (or Transition Altitude) Checks:**

- 1. Altimeters ..... SET 29.92" Hg (1013 mb)
- 2. Recognition Light ..... OFF
- 3. Air Conditioner ..... OFF, IF APPLICABLE
- 4. Oxygen Pressure ..... CHECK
- 5. EMER PRESS Switches (if installed) ..... NORMAL

**FL 350 Checks:**

- 1. Air Conditioner ..... OFF

**FL 410 Checks:**

- 1. *35-001 thru 35-112, except 35-107; 36-001 thru 36-031:*  
Crew & Passenger Oxygen Masks ..... DON

EFFECTIVITY

ALL

## CRUISE

1. Pressurization..... CHECK & NORMAL
  2. Fuel Management ..... AS REQ'D
  3. Engine Instruments.....CHECK
  4. Cabin Temp Controls..... SET
  5. Other Systems..... MONITOR
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## DESCENT

1. Windshield Heat ..... AS REQ'D
2. Windshield Aux Defog (if installed)..... AS REQ'D
3. Cabin Controller..... FIELD ELEVATION
4. Anti-Ice Systems..... AS REQ'D

### FL 180 (or Transition Level) Checks:

1. Altimeters ..... SET BARO & CROSS CHECK
  2. Recognition Light..... ON
  3. Pressurization.....CHECK
  4. No Smoking Fasten Seat Belt Sign ..... ON
  5. Pax Briefing/Cabin Secured ..... COMPLETE
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## APPROACH

1. Circuit Breakers.....IN
  2. Hydraulic & Emergency Air Pressure .....CHECK
  3. Landing Data (N1, VREF, VAPP, Distance) ..... COMPUTED & SET
  4. Fuel .....BALANCED
  5. Approach Setup & Briefing ..... COMPLETE
- TR. Position Indicator Lights (Aeronca).....OUT
- a. Bleed Valve ..... TEST

**LANDING SPEEDS**

SPEED	WEIGHT — 1000 LB									
	10	11	12	13	14	15	15.3	16	17	18.3
<b>VREF &amp; LDG CLIMB</b>	105	110	115	119	123	127	<b>129</b>	131	135	140
<b>APPROACH CLIMB</b>	111	116	121	126	130	134	<b>136</b>	138	142	147

**LANDING DISTANCES**

	TEMP	°F	0	20	40	60	80	100
		°C	-18	-7	4	16	27	38
WT								
SEA LEVEL	15,300		2825	2900	2976	3051	3127	3203
	15,000		2791	2864	2936	3009	3082	3155
	14,000		2679	2742	2805	2868	2931	2995
	13,000		2549	2608	2667	2726	2785	2844
	12,000		2422	2479	2536	2594	2651	2709
	11,000		2314	2366	2417	2469	2521	2572
	10,000		2208	2255	2302	2348	2395	2442
2000 FT	15,300		2986	3061	3137	3212	3287	3362
	15,000		2946	3019	3091	3163	3236	3308
	14,000		2814	2877	2939	3002	3065	3128
	13,000		2675	2734	2792	2851	2910	2968
	12,000		2544	2601	2658	2715	2773	2830
	11,000		2424	2476	2527	2578	2630	2681
	10,000		2308	2354	2401	2447	2494	2540
4000 FT	15,300		3112	3190	3269	3348	3426	
	15,000		3067	3143	3219	3294	3370	
	14,000		2919	2984	3050	3116	3181	3247
	13,000		2773	2834	2896	2957	3018	3080
	12,000		2640	2699	2759	2819	2878	2938
	11,000		2510	2564	2617	2671	2724	2778
	10,000		2386	2434	2483	2531	2580	2628

These speeds & distances were determined for dry runway, zero wind, zero runway gradient, anti-ice off, & anti-skid on.

**EFFECTIVITY**

ALL

## **BEFORE LANDING**

1. Spoilers..... RETRACTED
  2. Flaps..... 8° or 20°
  3. Landing Gear..... DOWN
  4. Landing/Taxi Lights..... AS REQ'D
  5. Anti-Skid ..... ON, LIGHTS OUT
  6. Engine Sync ..... OFF
  - TR. Thrust Reversers (TR-4000)..... ARM
  7. Flaps..... DOWN & INDICATED
  8. Hydraulic Pressure ..... CHECK
  9. Ignition ..... ON
  10. Autopilot ..... DISENGAGE
  11. Yaw Damper (FC-200 autopilot)..... OFF DURING FLARE
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## **GO AROUND**

1. Autopilot ..... DISENGAGED
2. Thrust Levers ..... AS REQ'D
3. Spoilers..... RETRACTED
4. Flaps..... 20°
5. Landing Gear (positive rate)..... UP
6. Climb at Approach Climb Speed
7. Clear of Obstacles..... VREF + 30, FLAPS UP

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**AFTER LANDING/CLEARING RUNWAY**

1. Stall Warning ..... OFF
  2. Ignition ..... OFF
  - TR. Thrust Reverser (TR-4000)..... DISARM
  3. Cabin Air ..... OFF
  4. Anti-Ice Systems:
    - a. Pitot Heat & Alcohol ..... OFF
    - b. Defog, Windshield, Nacelle,  
Stab & Wing Heat ..... AS REQ'D
  5. Lights ..... AS DESIRED
  6. One Thrust Lever (Optional) ..... CUTOFF
  7. Spoilers ..... RETRACT
  8. Flaps ..... UP
  9. Hydraulic Pressure ..... CHECK
  10. Unnecessary Avionics ..... OFF
  11. Transponder ..... STBY or OFF
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**SHUTDOWN**

1. Parking Brake/Chocks ..... SET
2. Anti-Ice Systems ..... OFF
3. Emergency Lights (if installed) ..... DISARM
4. Avionics ..... OFF
5. Standby Attitude Gyro ..... CAGE
6. Emergency Battery(ies) ..... OFF
7. Coffee/Oven (if installed) ..... OFF

**(Procedure Continued)**

EFFECTIVITY

ALL

*BOMBARDIER*  
**LEARJET 35/36**

- 8. Thrust Levers ..... CUTOFF
  - 9. Start-Gen Switches..... OFF
  - 10. Inverters ..... OFF
  - 11. Fuel Transfer ..... OFF
  - 12. Crossflow Valve ..... CLOSED
  - 13. Beacon Light ..... OFF
  - 14. Batteries ..... OFF
  - 15. Controls Lock ..... INSTALL
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**QUICK TURNAROUND  
(ONE OR NO ENGINE SHUTDOWN)**

- 1. Cabin Door ..... SECURED
- 2. Air Conditioner..... OFF
- 3. Aux Heat (if installed) ..... OFF
- 4. Engine ..... START (ENSURE N<sub>1</sub> ROTATION) (2 RUNNING)
- 5. Start-Gen Switches..... GEN
- 6. Voltmeter & Ammeters..... CHECK
- 7. Battery Charging Bus/  
Current Limiters (if required)..... CHECK
- 8. Starter Disengagement (if required) ..... CHECK
- 9. Circuit Breakers ..... IN
- 10. Avionics ..... SET
- 11. Coffee/Oven (if installed) ..... AS DESIRED
- 12. Anti-Ice Systems..... AS REQ'D
- 13. Pax Briefing/Cabin Secured ..... COMPLETE
- 14. **No Smoking Fasten Seat Belt Sign**..... **ON**

**(Procedure Continued)**

<b>EFFECTIVITY</b>
ALL

**TAXI AND BEFORE TAKEOFF:**

1. Fuel Panel & Quantity ..... CHECK
2. Takeoff Data (N1, V1, VR, V2  
& T.O. Distance)..... COMPUTE & BUGS SET
3. Nav Equipment ..... SET
4. Radar ..... ON
5. Flight Controls..... CHECK
6. Flight Instruments ..... CHECK
7. **Spoilers**..... **RETRACTED, LIGHT OUT**
8. **Flaps**.....**20° or 8°, CHECK INDICATION**
9. **Trims (3)**..... **SET/PRI/LIGHT OUT**
10. **Pressurization** ..... **SET**
11. **Cabin Air** ..... **ON**
12. Crew Takeoff Briefing..... COMPLETE
13. Go to **Runway Lineup** Checklist, page N-10.

**EFFECTIVITY**

ALL