

# LEARJET 35/36 SERIES PILOT CHECKLIST

## DESCENT PERFORMANCE SCHEDULE

AVERAGE WEIGHT 12,000 Lb	MINIMUM FUEL DESCENT			NORMAL DESCENT		
	TIME Min.	DISTANCE N.M.	FUEL Lb	TIME Min.	DISTANCE N.M.	FUEL Lb
45	14.5	92	169	16.4	109	285
44	14.2	89	166	16.0	106	282
43	13.8	87	162	15.7	104	278
42	13.5	84	158	15.3	101	275
41	13.2	82	154	15.0	99	271
40	12.8	79	149	14.7	96	267
39	12.5	76	145	14.4	94	262
38	12.2	74	140	14.0	91	257
37	11.8	71	135	13.7	88	252
36	11.5	69	129	13.4	86	246
35	11.2	66	124	13.0	83	241
34	10.9	63	118	12.7	81	234
33	10.5	61	112	12.4	78	228
32	10.2	59	106	12.0	75	220
31	9.9	56	100	11.7	73	214
30	9.7	55	96	11.3	70	205
29	9.4	53	92	11.0	67	197
28	9.2	51	88	10.7	65	188
27	8.9	49	85	10.4	62	178
26	8.7	47	81	10.0	59	169
25	8.4	45	78	9.7	57	158
24	8.2	43	75	9.3	54	147
23	7.9	42	72	9.0	51	137
22	7.6	40	70	8.7	49	126
21	7.4	38	67	8.4	46	116
20	7.1	36	64	8.0	44	105
18	6.6	33	59	7.3	39	86
16	6.1	30	54	6.7	33	68
14	5.6	27	50	6.0	29	57
12	5.1	24	45	5.3	25	44
10	4.6	21	40	4.6	21	40
8	3.7	17	33	3.7	17	33
6	2.8	12	23	2.8	12	23
4	1.9	8	16	1.9	8	16

**MINIMUM FUEL DESCENT SPEEDS:** 3,000 Ft/Min at Mmo down to 31,000 feet.  
 4,000 Ft/Min at 300 KIAS down to 10,000 feet.  
 3,000 Ft/Min at 250 KIAS to Sea Level.

**NORMAL DESCENT SPEEDS:** 3,000 Ft/Min at Mmo/Vmo down to 10,000 feet.  
 3,000 Ft/Min at 250 KIAS to Sea Level.

EFFECTIVITY

ALL

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### HOLDING OPERATIONS

WEIGHT LB	HOLDING SPEED KIAS	ALTITUDE — 1000 FT				HOLDING SPEED KIAS	ALT — 1000 FT	
		5	10	15	20		25	30
18,000	194	1179	1171	1163	1156	214	1127	1109
17,000	187	1115	1106	1088	1069	207	1062	1043
16,000	180	1040	1031	1012	1004	200	997	978
15,000	174	975	945	937	929	194	932	913
14,000	167	911	879	862	853	187	867	848
13,000	160	847	805	786	778	180	813	793
12,000	154	782	741	721	713	174	737	717
11,000	147	729	677	657	648	167	672	652
10,000	140	675	634	603	583	160	607	587

FUEL-LB/HR

FUEL-LB/HR

### LANDING WEIGHT LIMITS ANTI-ICE OFF

PRESSURE ALTITUDE (FEET)	TEMPERATURE						
	°F	0	20	40	60	80	100
	°C	-18	-7	4	16	27	38
10000		15300	15300	15300	15150	13400	
9000		↓	↓	↓	15300	13900	
8000		↓	↓	↓	↓	14450	
7000		↓	↓	↓	↓	15000	
6000		↓	↓	↓	↓	15300	13600
5000		↓	↓	↓	↓	↓	14100
4000		↓	↓	↓	↓	↓	14600
3000		↓	↓	↓	↓	↓	15100
2000		↓	↓	↓	↓	↓	15300
1000		↓	↓	↓	↓	↓	↓
S.L.		↓	↓	↓	↓	↓	↓

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

**DO NOT EXCEED MAXIMUM CERTIFIED LANDING WEIGHT**

EFFECTIVITY

ALL

EMERGENCY

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LANDING

# LEARJET 35/36 SERIES PILOT CHECKLIST

## LANDING SPEEDS & DISTANCES ACTUAL LANDING FIELD LENGTH FAR PART 91

	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	3203
	15,000	2791	2864	2936	3009	3082	3155	3155
	14,000	2679	2742	2805	2868	2931	2995	2995
	13,000	2549	2608	2667	2726	2785	2844	2844
	12,000	2422	2479	2536	2594	2651	2709	2709
	11,000	2314	2366	2417	2469	2521	2572	2572
	10,000	2208	2255	2302	2348	2395	2442	2442
2000 FT	15,300	2986	3061	3137	3212	3287	3362	3362
	15,000	2946	3019	3091	3163	3236	3308	3308
	14,000	2814	2877	2939	3002	3065	3128	3128
	13,000	2675	2734	2792	2851	2910	2968	2968
	12,000	2544	2601	2658	2715	2773	2830	2830
	11,000	2424	2476	2527	2578	2630	2681	2681
	10,000	2308	2354	2401	2447	2494	2540	2540
4000 FT	15,300	3112	3190	3269	3348	3426	3504	3504
	15,000	3067	3143	3219	3294	3370	3446	3446
	14,000	2919	2984	3050	3116	3181	3247	3247
	13,000	2773	2834	2896	2957	3018	3080	3080
	12,000	2640	2699	2759	2819	2878	2938	2938
	11,000	2510	2564	2617	2671	2724	2778	2778
	10,000	2386	2434	2483	2531	2580	2628	2628

SPEED	WEIGHT — 1000 LB						
	10	11	12	13	14	15	15.3
VREF & LDG CLIMB	105	110	115	119	123	127	129
APPROACH CLIMB	111	116	121	126	130	135	136

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

PERFORMANCE

TAKEOFF

TAKEOFF — FLAPS 20°

LANDING

EFFECTIVITY  
ALL



## LANDING SPEEDS & DISTANCES ACTUAL LANDING FIELD LENGTH FAR PART 91

TEMP	°F	0	20	40	60	80	100
	°C	-18	-7	4	16	27	38
WT							
6000 FT	15,300	3279	3362	3445	3528	3611	
	15,000	3228	3308	3388	3468	3548	
	14,000	3059	3128	3197	3266	3336	
	13,000	2904	2968	3033	3098	3163	3227
	12,000	2767	2830	2892	2955	3018	3081
	11,000	2624	2681	2737	2794	2850	2907
	10,000	2489	2540	2591	2643	2694	2745
8000 FT	15,300	3456	3550	3645	3739		
	15,000	3398	3489	3580	3671		
	14,000	3206	3285	3364	3443	3522	
	13,000	3041	3115	3189	3263	3337	
	12,000	2901	2972	3044	3116	3187	
	11,000	2745	2809	2873	2938	3002	
	10,000	2598	2656	2715	2773	2831	
10000 FT	15,300	3666	3766	3867			
	15,000	3600	3697	3793	3890		
	14,000	3381	3465	3549	3633		
	13,000	3205	3284	3362	3440	3519	
	12,000	3060	3136	3212	3288	3364	
	11,000	2888	2956	3024	3093	3161	
	10,000	2727	2789	2851	2913	2975	

SPEED	WEIGHT — 1000 LB						
	10	11	12	13	14	15	15.3
VREF & LDG CLIMB	105	110	115	119	123	127	129
APPROACH CLIMB	111	116	121	126	130	135	136

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

EFFECTIVITY

ALL

EMERGENCY

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ABNORMAL

# LEARJET 35/36 SERIES PILOT CHECKLIST

## CRUISE

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

## 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

## 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

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EFFECTIVITY  
ALL

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### LANDING SPEEDS

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

PERFORMANCE

TAKEOFF IN

TAKEOFF—FLAPS 20°

LANDING

**LEARJET 35/36 SERIES PILOT CHECKLIST**

**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

**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

EFFECTIVITY  
ALL

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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

### 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)

PERFORMANCE

TAKEOFF N1

TAKEOFF—FLAPS 20°

LANDING



**LEARJET 35/36 SERIES PILOT CHECKLIST**

- 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

**QUICK TURNAROUND  
(ONE OR NO ENGINE SHUTDOWN)**

- 1. Cabin Door ..... SECURED
- 2. Air Conditioner ..... OFF
- 3. Aux Heat (if installed) ..... OFF
- 4. Engine ..... START (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**

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EFFECTIVITY  
ALL

CL-102B  
April 2001

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