Alitalia
Compagnia Aerea Italiana
MD80 OPERATIONS MANUAL

Elev: 354 ft
Length: 8012 ft (2442 m)
Slope: -0.19 %
Shift: 0 ft (0 m)

Runway **18**

Airport **LIML - LIN**
MILAN Linate

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

PTOW (ton) ; V1 (KIAS)
LIMIT CODE ; VR (KIAS)
PITCH (deg) ; V2 (KIAS)

02 Apr 2009

FLAP 11

DRY

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
27	**62.5** 135 F 141 14.0 149	**64.5** 138 F 144 14.0 151	**66.6** 142 F 147 13.5 154	**67.9** F
29	**62.2** 135 F 141 14.0 149	**64.3** 138 F 144 14.0 151	**66.4** 142 F 146 13.5 154	**67.6** F
31	**61.6** 134 F 141 14.0 148	**63.6** 138 F 143 14.0 150	**65.7** 141 F 146 13.5 153	**66.9** 143 F 147 13.5 154
33	**60.9** 133 F 140 14.0 147	**62.9** 137 F 142 14.0 149	**65.0** 140 F 145 13.5 152	**66.1** 142 F 146 13.5 153
35	**60.2** 133 F 139 14.0 146	**62.1** 136 F 141 14.0 148	**64.2** 139 F 144 13.5 151	**65.4** 141 F 145 13.5 152
37	**59.3** 132 F 138 14.0 145	**61.3** 135 F 141 14.0 147	**63.3** 138 F 143 13.5 150	**64.5** 140 F 145 13.5 151
39	**58.6** 131 F 137 14.0 144	**60.6** 134 F 140 14.0 147	**62.6** 138 F 142 13.5 149	**63.7** 140 F 144 13.5 150
41	**58.0** 131 F 137 14.0 143	**60.0** 134 F 139 14.0 146	**61.9** 137 F 142 13.5 148	**63.0** 139 F 143 13.5 150
43	**57.4** 130 F 136 14.0 143	**59.3** 133 F 138 14.0 145	**61.2** 136 F 141 13.5 147	**62.3** 138 F 142 13.5 149
45	**56.8** 129 F 135 14.0 142	**58.6** 133 F 138 13.5 144	**60.5** 136 F 140 13.5 147	**61.6** 138 F 141 13.5 148
47	**56.0** 129 F 134 14.0 141	**57.8** 132 F 137 13.5 143	**59.7** 135 F 139 13.5 146	**60.7** 137 S 140 13.5 147
49	**55.3** 128 F 133 14.0 140	**57.1** 131 F 136 13.5 142	**59.0** 134 F 138 13.5 145	**59.7** 136 S 139 13.5 145
49	**55.0** 127 133 14.0 140	**57.0** 130 136 14.0 142	**57.0** 131 136 14.0 142	**59.0** 134 138 13.5 145
49	**53.0** 124 130 14.5 137	**55.0** 127 133 14.0 140	**55.0** 128 133 14.0 140	**57.0** 131 136 14.0 142
49	**51.0** 120 127 14.5 134	**53.0** 124 130 14.5 137	**53.0** 125 130 14.5 137	**55.0** 128 133 14.0 140
49	**49.0** 117 124 15.0 131	**51.0** 121 127 14.5 134	**51.0** 121 127 14.5 134	**53.0** 125 130 14.5 137
49	**47.0** 114 CK 122 15.5 129	**49.0** 118 124 15.0 131	**49.0** 118 124 15.0 131	**51.0** 122 127 14.5 134
49	**45.0** 110 CK 118 CK 15.5 126 CK	**47.0** 114 CK 122 15.5 129	**47.0** 115 CK 122 15.5 129	**49.0** 119 124 15.0 131
49	**43.0** 107 CK 115 CK 16.0 123 CK	**45.0** 111 CK 118 CK 15.5 126 CK	**45.0** 112 CK 118 CK 15.5 126 CK	**47.0** 115 122 15.5 129
49	**41.0** 103 CK 112 CK 16.0 120 CK	**43.0** 107 CK 115 CK 16.0 123 CK	**43.0** 108 CK 115 CK 16.0 123 CK	**45.0** 112 CK 118 CK 15.5 126 CK
49		**41.0** 104 CK 112 CK 16.0 120 CK	**41.0** 104 CK 112 CK 16.0 120 CK	**43.0** 108 CK 115 CK 16.0 123 CK

OPTIMUM FLAP

17	16	15	15

OAT °C	WIND (kt) -10	-5	0	10
-15	**65.4** 135 S 139 13.0 146	**66.7** S 	**68.0** S 	**68.0** S
-10	**65.3** 135 * 139 13.0 146	**66.7** S 	**68.0** S 	**68.0** S
-5	**65.2** 135 * 139 13.0 146	**66.7** S 	**68.0** S 	**68.0** S
0	**65.1** 134 * 139 13.0 146	**66.7** S 	**68.0** S 	**68.0** S
5	**65.0** 134 * 139 13.0 146	**66.7** 139 S 143 13.0 150	**68.0** S 	**68.0** S
10	**64.9** 134 * 139 13.0 146	**66.6** 139 S 143 13.0 150	**68.0** S 	**68.0** S
15	**64.8** 134 * 138 13.0 146	**66.6** 139 S 143 13.0 150	**67.9** S 	**67.9** S
20	**64.7** 134 * 138 13.0 146	**66.4** 138 F 142 13.0 150	**67.8** F 	**67.9** S
25	**64.3** 133 F 138 13.0 145	**65.9** 137 F 142 13.0 149	**67.3** F 	**67.9** S
27	**64.2** 133 F 138 13.0 145	**65.7** 137 F 142 13.0 149	**67.1** F 	**67.9** S
29	**63.9** 133 F 138 13.0 145	**65.5** 137 F 141 13.0 148	**66.9** 141 F 146 12.5 153	**67.9** S
31	**63.4** 132 F 137 13.0 144	**64.9** 136 F 141 13.0 148	**66.3** 141 F 145 12.5 152	**67.1** 142 S 146 12.5 153
33	**62.7** 132 F 136 13.0 143	**64.2** 136 F 140 13.0 147	**65.6** 140 F 144 12.5 151	**66.1** 141 S 145 12.5 152
35	**62.1** 131 F 136 13.0 143	**63.6** 135 F 139 13.0 146	**64.9** 140 F 143 12.5 150	**65.2** 140 S 144 12.5 151
37	**61.2** 130 * 135 13.0 142	**62.8** 135 F 139 13.0 145	**64.1** 139 F 143 12.5 149	**64.2** 139 S 143 12.5 149
	61.0 129 134 13.0 141	**62.0** 133 137 13.0 144	**64.0** 138 142 12.5 149	**64.0** 139 142 12.5 149
	59.0 126 132 13.5 139	**60.0** 130 135 13.0 142	**62.0** 135 140 13.0 147	**62.0** 135 140 13.0 147
	57.0 123 129 13.5 137	**58.0** 127 132 13.5 140	**60.0** 132 137 13.0 144	**60.0** 132 137 13.0 144
	55.0 120 127 14.0 134	**56.0** 124 130 13.5 137	**58.0** 129 135 13.5 142	**58.0** 129 135 13.5 142
	53.0 117 124 14.5 132	**54.0** 121 127 14.0 135	**56.0** 126 132 13.5 139	**56.0** 126 132 13.5 139
	51.0 115 121 14.5 129	**52.0** 117 124 14.5 132	**54.0** 123 129 14.0 137	**54.0** 123 129 14.0 137

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

MILAN Linate 18

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		-5		0		10	
-10	**63.4**	126	**65.3**	130	**67.1**		**68.0**	
	*	141	*	143	*		F	
(NA)	13.0	148	12.5	151				
-5	**63.0**	125	**64.9**	129	**66.7**	132	**67.8**	
	*	141	*	143	*	145	*	
(NA)	13.0	148	13.0	150	12.5	152		
0	**62.6**	125	**64.5**	129	**66.3**	132	**67.4**	
	*	140	*	142	*	145	*	
(NA)	13.0	148	13.0	150	12.5	152		
5	**62.2**	124	**64.1**	128	**65.9**	131	**67.0**	
	*	140	*	142	*	144	*	
(NA)	13.0	147	13.0	149	12.5	151		
10	**62.0**	124	**63.8**	127	**65.7**	131	**66.8**	133
	*	139	*	142	*	144	*	145
(NA)	13.0	147	13.0	149	12.5	151	12.5	152
15	**61.6**	123	**63.4**	127	**65.2**	130	**66.4**	132
	*	139	*	141	*	143	*	145
(NA)	13.0	146	13.0	148	12.5	151	12.5	152
20	**61.2**	122	**63.0**	126	**64.8**	130	**66.0**	132
	*	138	*	141	*	143	*	144
(NA)	13.0	146	13.0	148	13.0	150	12.5	152
25	**60.8**	122	**62.7**	125	**64.4**	129	**65.6**	131
	*	138	*	140	*	143	*	144
(NA)	13.0	145	13.0	148	13.0	150	12.5	151
27	**60.7**	122	**62.5**	125	**64.3**	129	**65.5**	131
	*	138	*	140	*	142	*	144
(NA)	13.0	145	13.0	147	13.0	149	12.5	151
29	**60.4**	121	**62.2**	125	**63.9**	128	**65.2**	131
	*	137	*	140	*	142	*	143
(NA)	13.5	145	13.0	147	13.0	149	12.5	151
31	**59.8**	121	**61.6**	124	**63.3**	128	**64.5**	130
	*	137	*	139	*	141	*	143
(NA)	13.5	144	13.0	146	13.0	148	12.5	150
33	**59.1**	120	**61.0**	124	**62.6**	127	**63.8**	129
	*	136	*	138	*	141	*	142
(NA)	13.0	143	13.0	146	13.0	148	12.5	149
35	**58.5**	120	**60.3**	123	**61.9**	127	**63.0**	129
	*	135	*	138	*	140	*	141
(NA)	13.0	143	13.0	145	13.0	147	12.5	148
37	**57.8**	119	**59.6**	123	**61.2**	126	**62.3**	128
	*	135	*	137	*	139	*	140
(30)	13.0	142	13.0	144	13.0	146	12.5	147
39	**57.1**	118	**58.9**	122	**60.5**	125	**61.6**	127
	*	134	*	136	*	138	*	140
(32)	13.0	141	13.0	143	13.0	145	12.5	146
41	**56.4**	118	**58.2**	121	**59.8**	125	**60.8**	127
	*	133	*	135	*	137	*	139
(34)	13.0	140	13.0	142	13.0	144	12.5	145
41	**56.0**	116	**58.0**	120	**59.0**	123	**60.0**	125
		132		135		136		138
	13.5	139	13.0	142	13.0	143	13.0	144
41	**54.0**	113 CK	**56.0**	117	**57.0**	119	**58.0**	121
		130		132		134		135
	13.5	137	13.5	139	13.0	141	13.0	142
41	**52.0**	109 CK	**54.0**	114 CK	**55.0**	116	**56.0**	118
		127		130		131		132
	14.0	134	13.5	137	13.5	138	13.5	139
41	**50.0**	105 CK	**52.0**	110 CK	**53.0**	112 CK	**54.0**	115 CK
		124		127		128		130
	14.5	131	14.0	134	14.0	135	13.5	137
41	**48.0**	102 CK	**50.0**	106 CK	**51.0**	109 CK	**52.0**	111 CK
		121		124		125		127
	14.5	129	14.5	131	14.0	133	14.0	134
41	**46.0**	98 CK	**48.0**	102 CK	**49.0**	105 CK	**50.0**	107 CK
		118		121		122		124
	15.0	126 CK	14.5	129	14.5	130	14.5	131
41	**44.0**	94 CK	**46.0**	99 CK	**47.0**	101 CK	**48.0**	104 CK
		115 CK		118		119		121
	15.5	123 CK	15.0	126 CK	15.0	127	14.5	129

SSW

MAXIMUM DEPTH
- 0.90" (22 mm) of DRY SNOW
- 0.25" (6 mm) of SLUSH/WET SNOW
- 0.20" (5 mm) of STANDING WATER

PTOW (ton) / LIMIT CODE

OAT °C	WIND (kt) -10	-5	0	10	FLAP
-10	**NO T/O**	**57.9** G	**61.1** F	**62.4** *	15
-5	**NO T/O**	**55.4** G	**60.5** F	**61.8** F	
0	**NO T/O**	**52.9** G	**60.0** F	**61.3** F	
5	**NO T/O**	**50.2** G	**59.5** F	**60.7** F	
10	**NO T/O**	**48.2** G	**59.3** F	**60.5** F	
15	**NO T/O**	**NO T/O**	**58.8** F	**60.0** F	
20	**NO T/O**	**NO T/O**	**58.3** F	**59.6** F	
25	**NO T/O**	**NO T/O**	**57.8** F	**59.1** F	
30	**NO T/O**	**NO T/O**	**54.3** G	**58.3** F	
-10	**NO T/O**	**59.5** G	**62.0** *	**62.8** *	20
-5	**NO T/O**	**56.9** G	**61.6** *	**62.6** *	
0	**NO T/O**	**54.5** G	**61.2** *	**62.3** *	
5	**NO T/O**	**52.0** G	**60.8** *	**61.9** *	
10	**NO T/O**	**NO T/O**	**60.7** *	**61.7** *	
15	**NO T/O**	**NO T/O**	**60.3** *	**61.4** *	
20	**NO T/O**	**NO T/O**	**59.7** G	**61.0** *	
25	**NO T/O**	**NO T/O**	**57.3** G	**60.7** *	
30	**NO T/O**	**NO T/O**	**55.9** G	**60.1** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 8012 ft (2442 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	73.8	75.0	72.5
I	-5	75.0	75.0	75.0	75.0
N	0	75.0	75.0	75.0	75.0
D	10	75.0	75.0	75.0	75.0
	20	75.0	75.0	75.0	75.0

For QNH corrections, use values relevant to Go-Around

CLIMB LIMIT (Go-Around)

OAT °C	W (ton)
-15	71.0
27	71.0
29	70.4
31	69.4
33	68.4
35	67.4
37	66.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW 20	GO AROUND
ENG + AIRF A/I ON	-3000	-2500	-500	-2500	-4000
QNH < 1013 (kg/hPa)	-80	-80	-150	-100	-80
QNH > 1013 (kg/hPa)	+30	+30	+30	+30	+30
max Δ hPa : 13					

LIN18R01 27100818 02 Apr 2009

NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- LIN/LOM or COD/L or TZO/NDB-VOR standard EFP.

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles A = TOW limited by acceleration
G = TOW limited by VMCG

Alitalia
Compagnia Aerea Italiana
MD80 OPERATIONS MANUAL

Elev: 354 ft
Length: 6562 ft (2000 m)
Slope: -0.19 %
Shift: 1450 ft (441 m)

Runway **18**

Airport **LIML - LIN**
MILAN Linate

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

PTOW (ton) ; V1 (KIAS)
LIMIT CODE ; VR (KIAS)
PITCH (deg) ; V2 (KIAS)

02 Apr 2009

FLAP 11 — DRY

VMCG / VRMIN / V2MIN	OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
115 / 119 / 128	27	**57.1** 127 F 134 15.0 142	**59.1** 131 F 137 14.5 145	**61.3** 134 F 140 14.0 147	**62.4** 136 F 141 14.0 149
115 / 119 / 128	29	**56.9** 127 F 134 15.0 142	**58.9** 130 F 137 14.5 145	**61.1** 134 F 140 14.5 147	**62.2** 136 F 141 14.0 149
114 / 118 / 127	31	**56.3** 126 F 134 15.0 141	**58.3** 130 F 136 14.5 144	**60.5** 133 F 139 14.0 146	**61.6** 135 F 140 14.0 148
113 / 118 / 127	33	**55.7** 125 F 133 15.0 140	**57.6** 129 F 135 14.5 143	**59.7** 133 F 138 14.0 146	**60.9** 134 F 140 14.0 147
113 / 117 / 126	35	**55.0** 125 F 132 15.0 140	**56.9** 128 F 135 14.5 142	**59.0** 132 F 137 14.0 145	**60.1** 134 F 139 14.0 146
112 / 116 / 125	37	**54.2** 124 F 131 15.0 139	**56.2** 127 F 134 14.5 141	**58.2** 131 F 137 14.0 144	**59.3** 133 F 138 14.0 145
111 / 116 / 124	39	**53.6** 123 F 130 15.0 138	**55.5** 127 F 133 14.5 140	**57.5** 130 F 136 14.0 143	**58.6** 132 F 137 14.0 144
110 / 115 / 123	41	**53.1** 123 F 130 14.5 137	**54.9** 126 F 132 14.5 140	**57.0** 130 F 135 14.0 142	**58.0** 132 F 137 14.0 143
109 / 114 / 123	43	**52.5** 122 F 129 14.5 136	**54.3** 126 F 132 14.5 139	**56.3** 129 F 134 14.0 141	**57.4** 131 F 136 14.0 143
109 / 113 / 122	45	**51.9** 121 F 128 14.5 135	**53.7** 125 F 131 14.5 138	**55.7** 128 F 134 14.0 140	**56.7** 130 F 135 14.0 142
108 / 112 / 121	47	**51.2** 121 F 128 14.5 134	**53.0** 124 F 130 14.5 137	**55.0** 128 F 133 14.0 140	**56.0** 130 F 134 14.0 141
107 / 112 / 120	49	**50.5** 120 F 127 14.5 134	**52.3** 123 F 129 14.5 136	**54.2** 127 F 132 14.0 139	**55.3** 129 F 133 14.0 140
	49	**50.0** 119 126 15.0 133	**52.0** 123 129 14.5 136	**54.0** 126 132 14.0 138	**55.0** 128 133 14.0 140
	49	**48.0** 115 123 15.0 130	**50.0** 119 126 15.0 133	**52.0** 123 129 14.5 136	**53.0** 125 130 14.5 137
	49	**46.0** 112 CK 120 15.5 128 CK	**48.0** 116 123 15.0 130	**50.0** 120 126 15.0 133	**51.0** 122 127 14.5 134
	49	**44.0** 108 CK 117 CK 16.0 125 CK	**46.0** 113 CK 120 15.5 128 CK	**48.0** 117 123 15.0 130	**49.0** 119 124 15.0 131
	49	**42.0** 105 CK 114 CK 16.0 122 CK	**44.0** 109 CK 117 CK 16.0 125 CK	**46.0** 113 CK 120 15.5 128 CK	**47.0** 115 122 15.5 129
	49	**40.0** 101 CK 110 CK 16.0 119 CK	**42.0** 106 CK 114 CK 16.0 122 CK	**44.0** 110 CK 117 CK 16.0 125 CK	**45.0** 112 CK 118 CK 15.5 126 CK
	49		**40.0** 102 CK 110 CK 16.0 119 CK	**42.0** 106 CK 114 CK 16.0 122 CK	**43.0** 108 CK 115 CK 16.0 123 CK
	49			**40.0** 103 CK 110 CK 16.0 119 CK	**41.0** 105 CK 112 CK 16.0 120 CK

OPTIMUM FLAP 22 / 20 / 18 / 18

OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
-15	**61.7** 125 * 129 13.0 137	**62.9** 128 S 132 13.0 140	**64.4** 132 S 136 13.0 144	**64.4** 133 S 136 13.0 144
-10	**61.6** 125 * 129 13.0 137	**62.8** 128 S 132 13.0 140	**64.4** 132 S 136 13.0 144	**64.4** 133 S 136 13.0 144
-5	**61.6** 125 * 129 13.0 137	**62.8** 128 S 132 13.0 140	**64.3** 132 S 136 13.0 144	**64.3** 133 S 136 13.0 144
0	**61.5** 125 * 129 13.0 137	**62.8** 128 S 132 13.0 140	**64.3** 132 S 136 13.0 144	**64.3** 133 S 136 13.0 144
5	**61.4** 125 * 129 13.0 137	**62.8** 128 * 132 13.0 140	**64.3** 132 S 136 13.0 144	**64.3** 133 S 136 13.0 144
10	**61.3** 125 * 129 13.0 137	**62.7** 128 * 132 13.0 140	**64.3** 132 S 136 13.0 144	**64.3** 133 S 136 13.0 144
15	**60.9** 124 F 129 13.0 136	**62.6** 128 * 132 13.0 140	**64.3** 132 S 136 13.0 144	**64.3** 133 S 136 13.0 144
20	**60.4** 123 F 128 13.5 136	**62.3** 127 F 132 13.0 139	**64.1** 132 F 136 13.0 143	**64.3** 133 S 136 13.0 144
25	**59.9** 123 F 128 13.5 135	**61.8** 127 F 131 13.5 139	**63.5** 131 F 135 13.0 143	**64.3** 133 S 136 13.0 144
27	**59.7** 122 F 127 13.5 135	**61.6** 126 F 131 13.5 138	**63.4** 131 F 135 13.0 143	**64.3** 133 S 136 13.0 144
29	**59.5** 122 F 127 13.5 135	**61.4** 126 F 131 13.5 138	**63.2** 131 F 135 13.0 142	**64.2** 132 S 136 13.0 144
31	**59.0** 122 F 127 13.5 134	**60.8** 126 F 130 13.5 138	**62.6** 130 F 134 13.0 142	**63.5** 132 S 135 13.0 143
33	**58.4** 121 F 126 13.5 133	**60.2** 125 F 130 13.5 137	**61.9** 130 F 134 13.0 141	**62.6** 131 S 135 13.0 142
35	**57.8** 121 F 125 13.5 133	**59.6** 125 F 129 13.0 136	**61.3** 129 F 133 13.0 140	**61.7** 130 S 134 13.0 141
37	**57.1** 120 F 125 13.5 132	**58.9** 124 F 128 13.0 135	**60.6** 128 F 132 13.0 139	**60.7** 129 S 133 13.0 140
	57.0 120 124 13.5 132	**58.0** 122 127 13.5 134	**60.0** 127 132 13.5 139	**60.0** 128 132 13.5 139
	55.0 117 122 13.5 129	**56.0** 119 125 13.5 132	**58.0** 124 129 13.5 136	**58.0** 124 129 13.5 136
	53.0 114 119 14.0 127	**54.0** 116 122 14.0 129	**56.0** 121 126 14.0 134	**56.0** 122 126 14.0 134
	51.0 114 117 14.5 124	**52.0** 114 119 14.5 127	**54.0** 118 124 14.0 131	**54.0** 118 124 14.0 131
	49.0 114 115 14.5 122	**50.0** 114 117 14.5 124	**52.0** 115 121 14.5 129	**52.0** 115 121 14.5 129
	47.0 114 115 14.0 122	**48.0** 114 115 14.5 124	**50.0** 115 119 15.0 126	**50.0** 115 119 15.0 126

T/O FROM START POINT A

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

MILAN Linate 18 T/O FROM START POINT A

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0		10	
-10	NO T/O	NO T/O	**62.7**	126	**63.9**	128
			*	140	*	142
(NA)			13.0	148	13.0	149
-5	NO T/O	NO T/O	**62.3**	126	**63.4**	128
			*	140	*	141
(NA)			13.0	147	13.0	149
0	NO T/O	NO T/O	**61.9**	125	**63.0**	127
			*	139	*	141
(NA)			13.0	147	13.0	148
5	NO T/O	NO T/O	**61.5**	124	**62.7**	127
			*	139	*	140
(NA)			13.0	146	13.0	148
10	NO T/O	NO T/O	**61.3**	124	**62.4**	126
			*	138	*	140
(NA)			13.0	146	13.0	147
15	NO T/O	NO T/O	**60.9**	123	**62.0**	125
			*	138	*	139
(NA)			13.0	145	13.0	147
20	NO T/O	NO T/O	**60.5**	122	**61.6**	125
			F	137	*	139
(NA)			13.5	145	13.0	146
25	NO T/O	NO T/O	**60.0**	122	**61.2**	124
			F	137	F	138
(NA)			13.5	144	13.0	146
27	NO T/O	NO T/O	**59.8**	121	**61.1**	124
			F	137	F	138
(NA)			13.5	144	13.0	146
29	NO T/O	NO T/O	**59.4**	121	**60.7**	123
			F	136	F	138
(NA)			13.5	144	13.0	145
31	NO T/O	NO T/O	**58.8**	120	**60.2**	123
			F	136	F	137
(NA)			13.5	143	13.0	145
33	NO T/O	NO T/O	**58.3**	120	**59.6**	123
			F	135	F	137
(NA)			13.5	142	13.0	144
35	NO T/O	NO T/O	**57.7**	120	**58.9**	122
			F	134	*	136
(NA)			13.5	142	13.0	143
37	NO T/O	NO T/O	**57.1**	119	**58.2**	121
			F	134	*	135
(30)			13.5	141	13.0	142
39	NO T/O	NO T/O	**56.4**	118	**57.6**	121
			F	133	*	134
(32)			13.5	140	13.0	141
41	NO T/O	NO T/O	**55.7**	118	**56.9**	120
			F	132	*	134
(34)			13.5	139	13.0	140
41			**55.0**	116	**56.0**	118
				131		132
			13.5	138	13.5	139
41			**53.0**	112 CK	**54.0**	115 CK
				128		130
			14.0	135	13.5	137
41			**51.0**	109 CK	**52.0**	111 CK
				125		127
			14.0	133	14.0	134
41			**49.0**	105 CK	**50.0**	107 CK
				122		124
			14.5	130	14.5	131
41			**47.0**	101 CK	**48.0**	104 CK
				119		121
			15.0	127	14.5	129
41			**45.0**	98 CK	**46.0**	100 CK
				116 CK		118
			15.0	124 CK	15.0	126 CK
41			**43.0**	93 CK	**44.0**	96 CK
				113 CK		115 CK
			15.5	122 CK	15.5	123 CK

SSW

MAXIMUM DEPTH
- 0.90" (22 mm) of DRY SNOW
- 0.25" (6 mm) of SLUSH/WET SNOW
- 0.20" (5 mm) of STANDING WATER

PTOW (ton) / LIMIT CODE

OAT °C	WIND (kt) -10	-5	0	10	FLAP
-10	NO T/O	NO T/O	**54.1** G	**57.8** F	15
-5	NO T/O	NO T/O	**51.4** G	**57.3** F	
0	NO T/O	NO T/O	**48.9** G	**55.9** G	
5	NO T/O	NO T/O	NO T/O	**53.5** G	
10	NO T/O	NO T/O	NO T/O	**51.1** G	
15	NO T/O	NO T/O	NO T/O	**49.1** G	
20	NO T/O	NO T/O	NO T/O	NO T/O	
25	NO T/O	NO T/O	NO T/O	NO T/O	
30	NO T/O	NO T/O	NO T/O	NO T/O	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 8012 ft (2442 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	73.8	75.0	72.5
I	-5	75.0	75.0	75.0	75.0
N	0	75.0	75.0	75.0	75.0
D	10	75.0	75.0	75.0	75.0
	20	75.0	75.0	75.0	75.0

For QNH corrections, use values relevant to Go-Around

CLIMB LIMIT (Go-Around)

OAT °C	W (ton)
-15	71.0
27	71.0
29	70.4
31	69.4
33	68.4
35	67.4
37	66.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	WET	SSW 15	SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-700	0		-4000
QNH < 1013 (kg/hPa)	-80	-80	-90		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 13					

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- LIN/LOM or COD/L or TZO/NDB-VOR standard EFP.

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles A = TOW limited by acceleration
G = TOW limited by VMCG

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Elev: 354 ft
Length: 7021 ft (2140 m)
Slope: -0.19 %
Shift: 0 ft (0 m)

Runway **18**

Airport **LIML - LIN**
MILAN Linate

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

PTOW (ton) ; V1 (KIAS)
LIMIT CODE ; VR (KIAS)
PITCH (deg) ; V2 (KIAS)

02 Apr 2009

FLAP 11 — DRY

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
27	**58.4**	129	**60.4**	132	**62.5**	136	**63.7**	138
	F	136	F	139	F	142	F	143
(NA)	14.5	144	14.5	146	14.0	149	14.0	151
29	**58.2**	129	**60.2**	132	**62.3**	136	**63.5**	138
	F	136	F	139	F	141	F	143
(NA)	14.5	144	14.5	146	14.0	149	14.0	150
31	**57.6**	128	**59.6**	132	**61.7**	135	**62.9**	137
	F	135	F	138	F	141	F	142
(NA)	14.5	143	14.5	145	14.0	148	14.0	149
33	**56.9**	127	**58.9**	131	**61.0**	134	**62.1**	136
	F	135	F	137	F	140	F	141
(NA)	14.5	142	14.5	144	14.0	147	14.0	149
35	**56.2**	127	**58.2**	130	**60.2**	134	**61.4**	135
	F	134	F	136	F	139	F	141
(NA)	14.5	141	14.5	144	14.0	146	14.0	148
37	**55.5**	126	**57.4**	129	**59.4**	133	**60.6**	135
	F	133	F	135	F	138	F	140
(30)	14.5	140	14.5	143	14.0	145	14.0	147
39	**54.8**	125	**56.7**	129	**58.7**	132	**59.9**	134
	F	132	F	135	F	137	F	139
(32)	14.5	139	14.5	142	14.0	144	14.0	146
41	**54.3**	125	**56.1**	128	**58.1**	131	**59.2**	133
	F	132	F	134	F	137	F	138
(34)	14.5	139	14.5	141	14.0	144	14.0	145
43	**53.7**	124	**55.5**	127	**57.5**	131	**58.6**	133
	F	131	F	133	F	136	F	137
(35)	14.5	138	14.5	140	14.0	143	14.0	144
45	**53.0**	123	**54.9**	127	**56.8**	130	**57.9**	132
	F	130	F	133	F	135	F	137
(37)	14.5	137	14.0	139	14.0	142	14.0	143
47	**52.4**	123	**54.2**	126	**56.1**	129	**57.2**	131
	F	129	F	132	F	134	F	136
(39)	14.5	136	14.0	139	14.0	141	14.0	142
49	**51.7**	122	**53.5**	125	**55.4**	129	**56.4**	131
	F	129	F	131	F	134	F	135
(41)	14.5	135	14.0	138	14.0	140	14.0	141
49	**51.0**	120	**53.0**	124	**55.0**	128	**56.0**	130
		127		130		133		134
	14.5	134	14.5	137	14.0	140	14.0	141
49	**49.0**	117	**51.0**	121	**53.0**	125	**54.0**	127
		124		127		130		132
	15.0	131	14.5	134	14.5	137	14.0	138
49	**47.0**	114 CK	**49.0**	118	**51.0**	121	**52.0**	123
		122		124		127		129
	15.5	129	15.0	131	14.5	134	14.5	136
49	**45.0**	110 CK	**47.0**	114 CK	**49.0**	118	**50.0**	120
		118 CK		122		124		126
	15.5	126 CK	15.5	129	15.0	131	15.0	133
49	**43.0**	107 CK	**45.0**	111 CK	**47.0**	115 CK	**48.0**	117
		115 CK		118 CK		122		123
	16.0	123 CK	15.5	126 CK	15.5	129	15.0	130
49	**41.0**	103 CK	**43.0**	107 CK	**45.0**	112 CK	**46.0**	114 CK
		112 CK		115 CK		118 CK		120
	16.0	120 CK	16.0	123 CK	15.5	126 CK	15.5	128 CK
49			**41.0**	104 CK	**43.0**	108 CK	**44.0**	110 CK
				112 CK		115 CK		117 CK
			16.0	120 CK	16.0	123 CK	16.0	125 CK
49					**41.0**	104 CK	**42.0**	107 CK
						112 CK		114 CK
					16.0	120 CK	16.0	122 CK
49							**40.0**	103 CK
								110 CK
							16.0	119 CK

OPTIMUM FLAP

22	19	17	17

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
-15	**61.9**	126	**63.5**	130	**65.4**	135	**65.4**	136
	S	130	S	134	S	139	S	139
	13.0	137	13.0	142	13.0	146	13.0	146
-10	**61.9**	126	**63.5**	130	**65.4**	135	**65.4**	136
	S	130	S	134	S	139	S	139
	13.0	137	13.0	142	13.0	146	13.0	146
-5	**61.9**	126	**63.5**	130	**65.4**	135	**65.4**	136
	S	130	S	134	S	139	S	139
	13.0	137	13.0	142	13.0	146	13.0	146
0	**61.9**	126	**63.5**	130	**65.3**	135	**65.3**	136
	S	130	S	134	S	139	S	139
	13.0	137	13.0	142	13.0	146	13.0	146
5	**61.9**	126	**63.5**	130	**65.3**	135	**65.3**	136
	S	130	S	134	S	139	S	139
	13.0	137	13.0	142	13.0	146	13.0	146
10	**61.9**	126	**63.5**	130	**65.3**	135	**65.3**	136
	S	130	S	134	S	139	S	139
	13.0	137	13.0	142	13.0	146	13.0	146
15	**61.8**	125	**63.5**	130	**65.3**	135	**65.3**	135
	S	130	S	134	S	139	S	139
	13.0	137	13.0	142	13.0	146	13.0	146
20	**61.7**	125	**63.4**	130	**64.9**	135	**65.3**	135
	F	130	F	134	F	139	S	139
	13.0	137	13.0	141	13.0	146	13.0	146
25	**61.2**	125	**62.9**	129	**64.4**	134	**65.3**	135
	F	129	F	134	F	138	S	139
	13.0	136	13.0	141	13.0	145	13.0	146
27	**61.0**	124	**62.7**	129	**64.2**	133	**65.3**	135
	F	129	F	133	F	138	S	139
	13.0	136	13.0	141	13.0	145	13.0	146
29	**60.8**	124	**62.5**	129	**64.0**	133	**65.2**	135
	F	129	F	133	F	138	S	139
	13.0	136	13.5	140	13.0	145	13.0	146
31	**60.3**	124	**62.0**	128	**63.4**	133	**64.5**	135
	F	128	F	133	F	137	S	138
	13.0	135	13.0	140	13.0	144	13.0	145
33	**59.7**	123	**61.3**	128	**62.8**	132	**63.6**	134
	F	128	F	132	F	136	S	137
	13.0	135	13.0	139	13.0	143	13.0	144
35	**59.1**	123	**60.7**	127	**62.1**	132	**62.7**	133
	F	127	F	131	F	136	S	136
	13.0	134	13.0	138	13.0	143	13.0	143
37	**58.4**	122	**60.0**	127	**61.4**	131	**61.7**	132
	F	126	S	131	F	135	S	135
	13.0	133	13.0	138	13.0	142	13.0	142
	58.0	121	**58.0**	123	**61.0**	130	**61.0**	130
		126		128		134		134
	13.5	133	13.5	135	13.0	141	13.0	141
	56.0	118	**56.0**	120	**59.0**	127	**59.0**	127
		123		126		132		132
	13.5	130	14.0	133	13.5	139	13.5	139
	54.0	115	**54.0**	117	**57.0**	124	**57.0**	124
		121		123		129		129
	14.0	128	14.0	130	13.5	137	13.5	137
	52.0	114	**52.0**	114	**55.0**	121	**55.0**	121
		118		120		127		127
	14.0	126	14.5	128	14.0	134	14.0	134
	50.0	114	**50.0**	114	**53.0**	118	**53.0**	118
		115		118		124		124
	14.5	123	15.0	125	14.5	132	14.5	132
	48.0	114	**48.0**	114	**51.0**	115	**51.0**	115
		115		116		121		121
	14.5	122	15.0	124	14.5	129	14.5	129

BASED ON 2140 M FROM THR

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

MILAN Linate 18 BASED ON 2140 M FROM THR

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
115 -10	NO T/O	**62.6** 125	**64.6** 129	**66.0** 132
117		F 140	F 143	F 144
126 (NA)		13.0 147	13.0 150	12.5 152
115 -5	NO T/O	**62.0** 124	**64.0** 128	**65.5** 131
117		F 139	F 142	F 144
126 (NA)		13.0 147	13.0 149	12.5 151
115 0	NO T/O	**61.5** 124	**63.5** 128	**64.9** 130
117		F 139	F 141	F 143
126 (NA)		13.0 146	13.0 149	13.0 150
115 5	NO T/O	**61.0** 123	**63.0** 127	**64.3** 129
117		F 138	F 141	F 142
126 (NA)		13.0 146	13.0 148	13.0 150
115 10	NO T/O	**60.7** 122	**62.7** 126	**64.0** 128
117		F 138	F 140	F 142
126 (NA)		13.0 145	13.0 148	13.0 149
115 15	NO T/O	**60.2** 121	**62.2** 125	**63.5** 128
117		F 137	F 140	F 141
126 (NA)		13.5 145	13.0 147	13.0 149
115 20	NO T/O	**59.8** 121	**61.6** 124	**63.0** 127
117		F 137	F 139	F 141
126 (NA)		13.5 144	13.0 146	13.0 148
115 25	NO T/O	**59.2** 120	**61.2** 124	**62.5** 126
117		F 136	F 138	F 140
126 (NA)		13.5 144	13.0 146	13.0 147
115 27	NO T/O	**59.0** 119	**61.0** 123	**62.3** 126
117		F 136	F 138	F 140
126 (NA)		13.5 143	13.0 146	13.0 147
115 29	NO T/O	**58.7** 119	**60.6** 123	**61.9** 125
117		F 135	F 138	F 139
126 (NA)		13.5 143	13.0 145	13.0 147
114 31	NO T/O	**58.2** 119	**60.1** 122	**61.3** 125
117		F 135	F 137	F 139
125 (NA)		13.5 142	13.0 145	13.0 146
113 33	NO T/O	**57.6** 118	**59.5** 122	**60.8** 125
116		F 134	F 136	F 138
124 (NA)		13.5 141	13.0 144	13.0 145
112 35	NO T/O	**57.0** 118	**58.8** 122	**60.1** 124
115		F 133	F 136	F 137
124 (NA)		13.5 141	13.0 143	13.0 145
112 37	NO T/O	**56.4** 117	**58.2** 121	**59.5** 124
115		F 133	F 135	F 137
123 (30)		13.5 140	13.0 142	13.0 144
37		**56.0** 116	**58.0** 120	**59.0** 122
		132	135	136
		13.5 139	13.5 142	13.0 143
37		**54.0** 113 CK	**56.0** 117	**57.0** 119
		129	132	133
		14.0 137	13.5 139	13.5 141
37		**52.0** 109 CK	**54.0** 113 CK	**55.0** 115
		126	129	131
		14.0 134	14.0 137	13.5 138
37		**50.0** 105 CK	**52.0** 110 CK	**53.0** 112 CK
		123	126	128
		14.5 131	14.0 134	14.0 135
37		**48.0** 101 CK	**50.0** 106 CK	**51.0** 108 CK
		120	123	125
		15.0 129	14.5 131	14.5 133
37		**46.0** 98 CK	**48.0** 102 CK	**49.0** 105 CK
		117	120	122
		15.5 126 CK	15.0 129	14.5 130
37		**44.0** 93 CK	**46.0** 99 CK	**47.0** 101 CK
		114 CK	117	119
		15.5 123 CK	15.5 126 CK	15.0 127
37		**42.0** 89 CK	**44.0** 94 CK	**45.0** 97 CK
		111 CK	114 CK	116 CK
		15.5 120 CK	15.5 123 CK	15.5 124 CK
37		**40.0** 85 CK	**42.0** 90 CK	**43.0** 93 CK
		108 CK	111 CK	113 CK
		15.5 117 CK	15.5 120 CK	15.5 122 CK

SSW

MAXIMUM DEPTH
- 0.90" (22 mm) of DRY SNOW
- 0.25" (6 mm) of SLUSH/WET SNOW
- 0.20" (5 mm) of STANDING WATER

PTOW (ton) / LIMIT CODE

OAT °C	WIND (kt) -10	-5	0	10	FLAP
-10	NO T/O	NO T/O	**57.6** F	**58.9** F	15
-5	NO T/O	NO T/O	**55.8** G	**58.4** F	
0	NO T/O	NO T/O	**53.3** G	**57.8** F	
5	NO T/O	NO T/O	**50.7** G	**57.3** F	
10	NO T/O	NO T/O	**48.6** G	**57.1** F	
15	NO T/O	NO T/O	NO T/O	**53.5** G	
20	NO T/O	NO T/O	NO T/O	**51.4** G	
25	NO T/O	NO T/O	NO T/O	**49.1** G	
30	NO T/O	NO T/O	NO T/O	**47.9** G	
-10	NO T/O	NO T/O	**60.1** G	**61.5** F	20
-5	NO T/O	NO T/O	**57.4** G	**60.9** F	
0	NO T/O	NO T/O	**54.9** G	**60.4** F	
5	NO T/O	NO T/O	**52.5** G	**59.9** F	
10	NO T/O	NO T/O	NO T/O	**59.7** F	
15	NO T/O	NO T/O	NO T/O	**55.1** G	
20	NO T/O	NO T/O	NO T/O	**53.0** G	
25	NO T/O	NO T/O	NO T/O	NO T/O	
30	NO T/O	NO T/O	NO T/O	NO T/O	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 6562 ft (2000 m)

FLAP		40		28	
RWY COND		DRY	WET	DRY	WET
W	-10	67.9	55.4	66.6	54.3
I	-5	74.1	61.2	72.8	60.1
N	0	75.0	66.9	75.0	65.9
D	10	75.0	70.7	75.0	69.8
	20	75.0	74.9	75.0	73.7

For QNH corrections, use values relevant to Go-Around

CLIMB LIMIT (Go-Around)

OAT °C	W (ton)
-15	71.0
27	71.0
29	70.4
31	69.4
33	68.4
35	67.4
37	66.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	WET	SSW 15	SSW 20	GO AROUND
ENG + AIRF A/I ON	-3000	-500	0	-1200	-4000
QNH < 1013 (kg/hPa)	-80	-80	-140	-160	-80
QNH > 1013 (kg/hPa)	+30	+30	+30	+30	+30
max Δ hPa : 13					

LIN18N01 30070818 02 Apr 2009

NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- LIN/LOM or COD/L or TZO/NDB-VOR standard EFP.

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles A = TOW limited by acceleration
G = TOW limited by VMCG

Alitalia
Compagnia Aerea Italiana
MD80 OPERATIONS MANUAL

Elev: 354 ft
Length: 8012 ft (2442 m)
Slope: +0.19 %
Shift: 0 ft (0 m)

Runway **36**

Airport **LIML - LIN**
MILAN Linate

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

PTOW (ton) ; V1 (KIAS)
LIMIT CODE ; VR (KIAS)
PITCH (deg) ; V2 (KIAS)

02 Apr 2009

FLAP 11 — DRY

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
27	**62.0**	135	**63.6**	138	**65.4**	141	**66.3**	142
	F	141	*	143	*	145	*	146
(NA)	14.0	148	14.0	150	13.5	153	13.5	154
29	**61.8**	135	**63.5**	138	**65.3**	141	**66.1**	142
	F	141	*	143	*	145	*	146
(NA)	14.0	148	14.0	150	13.5	152	13.5	153
31	**61.1**	134	**62.8**	137	**64.6**	140	**65.4**	141
	F	140	*	142	*	144	*	145
(NA)	14.0	147	14.0	149	13.5	151	13.5	152
33	**60.4**	134	**62.0**	136	**63.7**	139	**64.5**	140
	F	139	*	141	*	143	*	144
(NA)	14.0	146	14.0	148	13.5	150	13.5	151
35	**59.7**	133	**61.2**	135	**62.9**	138	**63.7**	140
	F	138	*	140	*	143	*	144
(NA)	14.0	145	14.0	147	14.0	149	13.5	150
37	**58.9**	132	**60.4**	135	**62.0**	137	**62.7**	139
	F	138	*	139	*	142	*	143
(30)	14.0	144	14.0	146	14.0	148	13.5	149
39	**58.1**	131	**59.6**	134	**61.2**	136	**62.0**	138
	*	137	*	139	*	141	*	142
(32)	14.0	143	14.0	145	13.5	147	13.5	148
41	**57.5**	130	**58.9**	133	**60.5**	136	**61.2**	137
	*	136	*	138	*	140	*	141
(34)	14.0	143	14.0	144	13.5	146	13.5	147
43	**56.8**	130	**58.2**	132	**59.8**	135	**60.4**	136
	*	135	*	137	*	139	*	140
(35)	14.0	142	14.0	143	13.5	145	13.5	146
45	**56.1**	129	**57.4**	131	**59.0**	134	**59.7**	135
	*	134	*	136	*	138	*	139
(37)	14.0	141	14.0	143	13.5	145	13.5	145
47	**55.2**	128	**56.6**	131	**58.2**	133	**58.8**	135
	*	133	*	135	*	137	*	138
(39)	14.0	140	14.0	142	13.5	143	13.5	144
49	**54.4**	127	**55.8**	130	**57.3**	132	**57.9**	134
	*	132	*	134	*	136	*	137
(41)	14.0	139	14.0	140	13.5	142	13.5	143
49	**54.0**	126	**55.0**	128	**57.0**	132	**57.0**	132
		132		133		136		136
	14.0	138	14.0	139	14.0	142	14.0	142
49	**52.0**	123	**53.0**	125	**55.0**	129	**55.0**	129
		129		130		133		133
	14.5	135	14.5	137	14.0	139	14.0	139
49	**50.0**	120	**51.0**	122	**53.0**	125	**53.0**	126
		126		127		130		130
	15.0	133	15.0	134	14.5	137	14.5	137
49	**48.0**	116	**49.0**	118	**51.0**	122	**51.0**	122
		123		125		127		127
	15.5	130	15.0	131	15.0	134	15.0	134
49	**46.0**	113 CK	**47.0**	115 CK	**49.0**	119	**49.0**	119
		120		122		125		125
	15.5	128 CK	15.5	129	15.0	131	15.0	131
49	**44.0**	109 CK	**45.0**	112 CK	**47.0**	116	**47.0**	116
		117 CK		119 CK		122		122
	16.0	125 CK	16.0	126 CK	15.5	129	15.5	129
49	**42.0**	105 CK	**43.0**	108 CK	**45.0**	112 CK	**45.0**	113 CK
		114 CK		115 CK		119 CK		119 CK
	16.0	122 CK	16.0	123 CK	16.0	126 CK	16.0	126 CK
49	**40.0**	102 CK	**41.0**	104 CK	**43.0**	109 CK	**43.0**	109 CK
		111 CK		112 CK		115 CK		115 CK
	16.0	119 CK	16.0	120 CK	16.0	123 CK	16.0	123 CK
49					**41.0**	105 CK	**41.0**	106 CK
						112 CK		112 CK
					16.0	120 CK	16.0	120 CK

OPTIMUM FLAP

	11	10	10	10

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
-15	**64.6**	139	**66.6**	143	**68.0**		**68.7**	
	*	144	*	148	*		*	
	14.0	151	13.5	155				
-10	**64.3**	139	**66.2**	143	**67.7**		**68.4**	
	*	144	*	147	*		*	
	14.0	151	13.5	155				
-5	**64.0**	138	**65.6**	142	**67.4**		**68.1**	
	*	143	*	146	*		*	
	14.0	151	14.0	154				
0	**63.6**	138	**65.3**	142	**67.1**		**67.8**	
	*	143	*	146	*		*	
	14.0	150	14.0	153				
5	**63.3**	137	**65.0**	141	**66.8**	144	**67.5**	
	*	143	*	146	*	148	*	
	14.0	150	14.0	153	13.5	155		
10	**63.0**	137	**64.8**	141	**66.5**	144	**67.3**	
	*	142	*	145	*	148	*	
	14.0	150	14.0	153	13.5	155		
15	**62.8**	136	**64.4**	140	**66.2**	143	**67.1**	
	*	142	*	145	*	147	*	
	14.0	149	14.0	152	13.5	155		
20	**62.5**	136	**64.2**	140	**65.9**	143	**66.8**	144
	*	142	*	145	*	147	*	148
	14.0	149	14.0	152	14.0	154	13.5	155
25	**62.2**	136	**63.9**	139	**65.4**	142	**66.5**	144
	F	141	F	144	*	146	*	148
	14.0	148	14.0	152	14.0	154	13.5	155
27	**62.0**	135	**63.7**	139	**65.4**	142	**66.4**	144
	F	141	F	144	*	146	*	148
	14.0	148	14.0	152	14.0	154	13.5	155
29	**61.8**	135	**63.5**	139	**65.2**	142	**66.3**	143
	F	141	F	144	*	146	*	147
	14.0	148	14.0	151	14.0	153	13.5	155
31	**61.1**	134	**62.8**	138	**64.5**	141	**65.5**	143
	F	140	F	143	*	145	*	147
	14.0	147	14.0	150	14.0	152	13.5	154
33	**60.4**	134	**62.1**	137	**63.6**	140	**64.7**	142
	F	139	F	142	*	144	*	146
	14.0	146	14.0	149	14.0	151	13.5	153
35	**59.7**	133	**61.3**	137	**62.8**	139	**63.8**	141
	F	138	*	142	*	143	*	145
	14.0	145	14.0	149	14.0	150	13.5	152
37	**58.9**	132	**60.5**	136	**61.9**	138	**62.9**	140
	F	138	*	141	*	142	*	144
	14.0	144	14.0	147	14.0	149	13.5	151
	58.0	130	**60.0**	135	**61.0**	136	**62.0**	138
		136		140		141		142
	14.5	143	14.0	147	14.0	148	14.0	149
	56.0	127	**58.0**	132	**59.0**	134	**60.0**	135
		134		137		139		140
	14.5	141	14.5	144	14.5	146	14.0	147
	54.0	124	**56.0**	128	**57.0**	130	**58.0**	132
		131		134		136		137
	15.0	138	15.0	142	14.5	143	14.5	144
	52.0	121	**54.0**	125	**55.0**	127	**56.0**	129
		128		132		133		134
	15.5	135	15.0	139	15.0	141	15.0	142
	50.0	117	**52.0**	122	**53.0**	124	**54.0**	126
		125		129		130		132
	15.5	133	15.5	136	15.0	138	15.0	139
	48.0	115	**50.0**	119	**51.0**	121	**52.0**	123
		122		126		127		129
	16.0	130	16.0	134	15.5	135	15.5	136

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

MILAN Linate 36

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		-5		0		10	
115	-10	**61.2**	124	**62.5**	127	**63.8**	129	**64.6**	131
117		*	138	*	140	*	142	*	143
126	(NA)	13.0	146	13.0	147	13.0	149	13.0	150
115	-5	**60.9**	123	**62.3**	126	**63.5**	129	**64.4**	131
117		*	138	*	140	*	141	*	142
126	(NA)	13.0	145	13.0	147	13.0	149	13.0	150
115	0	**60.7**	123	**62.1**	126	**63.3**	129	**64.2**	130
117		*	138	*	139	*	141	*	142
126	(NA)	13.5	145	13.0	147	13.0	148	13.0	149
115	5	**60.4**	123	**61.8**	126	**63.1**	128	**63.9**	130
117		*	137	*	139	*	141	*	142
126	(NA)	13.5	145	13.0	147	13.0	148	13.0	149
115	10	**60.3**	122	**61.7**	125	**63.0**	128	**63.8**	129
117		*	137	*	139	*	141	*	142
126	(NA)	13.5	145	13.0	146	13.0	148	13.0	149
115	15	**60.0**	122	**61.5**	125	**62.8**	127	**63.6**	129
117		*	137	*	139	*	140	*	142
126	(NA)	13.5	144	13.0	146	13.0	148	13.0	149
115	20	**59.7**	121	**61.2**	124	**62.5**	127	**63.3**	129
117		*	137	*	139	*	140	*	141
126	(NA)	13.5	144	13.0	146	13.0	147	13.0	148
115	25	**59.5**	121	**61.0**	124	**62.3**	127	**63.1**	129
117		*	136	*	138	*	140	*	141
126	(NA)	13.5	144	13.0	146	13.0	147	13.0	148
115	27	**59.4**	121	**60.9**	124	**62.2**	127	**63.0**	128
117		*	136	*	138	*	140	*	141
126	(NA)	13.5	144	13.0	145	13.0	147	13.0	148
115	29	**59.1**	120	**60.7**	124	**62.0**	127	**62.9**	128
117		*	136	*	138	*	140	*	141
126	(NA)	13.5	143	13.5	145	13.0	147	13.0	148
114	31	**58.5**	120	**60.0**	123	**61.4**	126	**62.2**	128
117		*	135	*	137	*	139	*	140
125	(NA)	13.5	143	13.0	144	13.0	146	13.0	147
113	33	**57.9**	119	**59.3**	122	**60.7**	125	**61.5**	127
116		*	134	*	136	*	138	*	139
124	(NA)	13.5	142	13.0	144	13.0	145	13.0	146
112	35	**57.2**	119	**58.6**	122	**59.9**	125	**60.8**	126
115		*	134	*	136	*	137	*	138
124	(NA)	13.5	141	13.0	143	13.0	144	13.0	145
112	37	**56.4**	118	**57.9**	121	**59.1**	124	**60.0**	126
115		*	133	*	135	*	136	*	138
123	(30)	13.5	140	13.0	142	13.0	143	13.0	144
111	39	**55.7**	117	**57.2**	120	**58.4**	123	**59.2**	125
114		*	132	*	134	*	136	*	137
122	(32)	13.5	139	13.0	141	13.0	142	13.0	143
	39	**55.0**	115	**57.0**	119	**58.0**	122	**59.0**	124
			131		134		135		136
		13.5	138	13.5	141	13.0	142	13.0	143
	39	**53.0**	112 CK	**55.0**	116	**56.0**	118	**57.0**	121
			128		131		132		134
		14.0	135	13.5	138	13.5	139	13.5	141
	39	**51.0**	108 CK	**53.0**	112 CK	**54.0**	115	**55.0**	117
			125		128		129		131
		14.0	133	14.0	135	14.0	137	13.5	138
	39	**49.0**	104 CK	**51.0**	109 CK	**52.0**	111 CK	**53.0**	114 CK
			122		125		127		128
		14.5	130	14.0	133	14.0	134	14.0	135
	39	**47.0**	100 CK	**49.0**	105 CK	**50.0**	108 CK	**51.0**	110 CK
			119		122		124		125
		15.0	127	14.5	130	14.5	131	14.0	133
	39	**45.0**	96 CK	**47.0**	101 CK	**48.0**	104 CK	**49.0**	106 CK
			116 CK		119		121		122
		15.5	124 CK	15.0	127	15.0	129	14.5	130
	39	**43.0**	92 CK	**45.0**	97 CK	**46.0**	100 CK	**47.0**	103 CK
			113 CK		116 CK		118		119
		15.5	122 CK	15.5	124 CK	15.0	126 CK	15.0	127
	39	**41.0**	88 CK	**43.0**	93 CK	**44.0**	96 CK	**45.0**	99 CK
			110 CK		113 CK		115 CK		116 CK
		15.5	119 CK	15.5	122 CK	15.5	123 CK	15.5	124 CK

SSW

MAXIMUM DEPTH

- 0.90" (22 mm) of DRY SNOW
- 0.25" (6 mm) of SLUSH/WET SNOW
- 0.20" (5 mm) of STANDING WATER

PTOW (ton) / LIMIT CODE

OAT °C	WIND (kt) -10	-5	0	10	FLAP
-10	**48.5** G	**58.4** F	**60.2** *	**61.2** *	15
-5	**NO T/O**	**57.6** G	**59.9** *	**60.9** *	
0	**NO T/O**	**55.1** G	**59.6** F	**60.6** *	
5	**NO T/O**	**52.7** G	**59.0** F	**60.3** *	
10	**NO T/O**	**50.2** G	**58.8** F	**60.0** F	
15	**NO T/O**	**48.5** G	**58.3** F	**59.6** F	
20	**NO T/O**	**NO T/O**	**57.8** F	**59.1** F	
25	**NO T/O**	**NO T/O**	**57.4** F	**58.6** F	
30	**NO T/O**	**NO T/O**	**56.6** F	**57.8** F	
-10	**NO T/O**	**58.4** *	**60.0** *	**60.8** *	17
-5	**NO T/O**	**58.1** *	**59.7** *	**60.5** *	
0	**NO T/O**	**55.8** G	**59.4** *	**60.3** *	
5	**NO T/O**	**53.4** G	**59.1** *	**60.0** *	
10	**NO T/O**	**51.0** G	**59.0** *	**59.9** *	
15	**NO T/O**	**NO T/O**	**58.7** *	**59.6** *	
20	**NO T/O**	**NO T/O**	**58.5** *	**59.4** *	
25	**NO T/O**	**NO T/O**	**58.2** *	**59.1** *	
30	**NO T/O**	**NO T/O**	**57.6** *	**58.5** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 8012 ft (2442 m)

RWY COND	FLAP 40 DRY	40 WET	28 DRY	28 WET
W -10	75.0	73.8	75.0	72.5
I -5	75.0	75.0	75.0	75.0
N 0	75.0	75.0	75.0	75.0
D 10	75.0	75.0	75.0	75.0
20	75.0	75.0	75.0	75.0

For QNH corrections, use values relevant to Go-Around

CLIMB LIMIT (Go-Around)

OAT °C	W (ton)
-15	71.0
27	71.0
29	70.4
31	69.4
33	68.4
35	67.4
37	66.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW 17	GO AROUND
ENG + AIRF A/I ON	-3000	-1600	-1000	-1300	-4000
QNH < 1013 (kg/hPa)	-80	-80	-90	-90	-80
QNH > 1013 (kg/hPa)	+30	+30	+30	+30	+30
max Δ hPa : 13					

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- At 1350 ft QNH, right turn to TZO-VOR/NDB or LIN/LOM or COD/L.
- Acceleration altitude: 1900 ft QNH

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles A = TOW limited by acceleration
G = TOW limited by VMCG

Alitalia
Compagnia Aerea Italiana
MD80 OPERATIONS MANUAL

Elev: 354 ft
Length: 6594 ft (2010 m)
Slope: +0.19 %
Shift: 0 ft (0 m)

Runway **36**

Airport **LIML - LIN**
MILAN Linate

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

PTOW (ton) ; V1 (KIAS)
LIMIT CODE ; VR (KIAS)
PITCH (deg) ; V2 (KIAS)

02 Apr 2009

FLAP 11

DRY

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
27	**56.1** 126 F 133 15.0 141	**58.1** 130 F 136 14.5 143	**60.2** 133 F 139 14.5 146	**61.4** 135 F 140 14.0 148
29	**55.9** 126 F 133 15.0 141	**57.9** 130 F 136 14.5 143	**60.0** 133 F 138 14.5 146	**61.2** 135 F 140 14.5 147
31	**55.3** 125 F 132 15.0 140	**57.3** 129 F 135 14.5 142	**59.4** 132 F 138 14.5 145	**60.6** 134 F 139 14.5 146
33	**54.6** 125 F 132 15.0 139	**56.6** 128 F 134 14.5 142	**58.7** 132 F 137 14.5 144	**59.9** 134 F 139 14.5 146
35	**54.0** 124 F 131 15.0 138	**55.9** 127 F 133 14.5 141	**58.0** 131 F 136 14.5 143	**59.1** 133 F 138 14.0 145
37	**53.3** 123 F 130 15.0 137	**55.2** 127 F 133 14.5 140	**57.2** 130 F 135 14.5 142	**58.3** 132 F 137 14.0 144
39	**52.6** 122 F 129 15.0 136	**54.5** 126 F 132 14.5 139	**56.5** 129 F 135 14.5 141	**57.6** 131 F 136 14.0 143
41	**52.1** 122 F 129 15.0 136	**54.0** 125 F 131 14.5 138	**55.9** 129 F 134 14.5 141	**57.1** 131 F 135 14.0 142
43	**51.5** 121 F 128 15.0 135	**53.4** 125 F 131 14.5 137	**55.3** 128 F 133 14.5 140	**56.4** 130 F 135 14.0 141
45	**50.9** 121 F 127 15.0 134	**52.8** 124 F 130 14.5 137	**54.7** 128 F 133 14.5 139	**55.8** 130 F 134 14.0 141
47	**50.3** 120 F 127 15.0 133	**52.1** 123 F 129 14.5 136	**54.0** 127 F 132 14.5 138	**55.1** 129 F 133 14.0 140
49	**49.6** 119 F 126 15.0 132	**51.4** 123 F 128 14.5 135	**53.3** 126 F 131 14.5 137	**54.3** 128 F 132 14.0 139
49	**49.0** 118 125 15.0 131	**51.0** 122 127 15.0 134	**53.0** 125 130 14.5 137	**54.0** 127 132 14.0 138
49	**47.0** 114 CK 122 15.5 129	**49.0** 118 125 15.0 131	**51.0** 122 127 15.0 134	**52.0** 124 129 14.5 135
49	**45.0** 111 CK 119 CK 16.0 126 CK	**47.0** 115 CK 122 15.5 129	**49.0** 119 125 15.0 131	**50.0** 121 126 15.0 133
49	**43.0** 107 CK 115 CK 16.0 123 CK	**45.0** 112 CK 119 CK 16.0 126 CK	**47.0** 116 122 15.5 129	**48.0** 118 123 15.5 130
49	**41.0** 104 CK 112 CK 16.0 120 CK	**43.0** 108 CK 115 CK 16.0 123 CK	**45.0** 112 CK 119 CK 16.0 126 CK	**46.0** 114 CK 120 15.5 128 CK
49		**41.0** 104 CK 112 CK 16.0 120 CK	**43.0** 109 CK 115 CK 16.0 123 CK	**44.0** 111 CK 117 CK 16.0 125 CK
49			**41.0** 105 CK 112 CK 16.0 120 CK	**42.0** 107 CK 114 CK 16.0 122 CK
49				**40.0** 104 CK 111 CK 16.0 119 CK

OPTIMUM FLAP

	22	20	18	18

OAT °C	WIND (kt) -10	-5	0	10
-15	**60.5** 125 * 128 13.5 136	**62.0** 128 * 131 13.5 139	**63.9** 133 * 136 13.0 143	**64.4** 134 S 136 13.0 144
-10	**60.5** 124 * 128 13.5 136	**61.9** 128 * 131 13.5 139	**63.8** 132 * 136 13.0 143	**64.3** 134 * 136 13.0 144
-5	**60.4** 124 * 128 13.5 135	**61.9** 128 * 131 13.5 139	**63.7** 132 * 136 13.0 143	**64.2** 133 * 136 13.0 144
0	**60.3** 124 * 128 13.5 135	**61.8** 128 * 131 13.5 139	**63.6** 132 * 136 13.0 143	**64.1** 133 * 136 13.0 143
5	**60.2** 124 * 128 13.5 135	**61.7** 128 * 131 13.5 139	**63.5** 132 * 135 13.0 143	**64.0** 133 * 136 13.0 143
10	**60.1** 124 * 128 13.5 135	**61.6** 127 * 131 13.5 138	**63.4** 132 * 135 13.0 143	**63.9** 133 * 136 13.0 143
15	**59.6** 123 F 127 13.5 135	**61.5** 127 F 131 13.5 138	**63.2** 132 F 135 13.0 142	**63.8** 133 * 136 13.0 143
20	**59.1** 122 F 127 13.5 134	**60.9** 126 F 130 13.5 138	**62.7** 131 F 135 13.5 142	**63.7** 133 * 136 13.0 143
25	**58.6** 122 F 126 13.5 134	**60.4** 126 F 130 13.5 137	**62.2** 130 F 134 13.5 141	**63.6** 132 F 136 13.0 143
27	**58.5** 121 F 126 13.5 133	**60.3** 125 F 130 13.5 137	**62.0** 130 F 134 13.5 141	**63.4** 132 F 135 13.0 143
29	**58.3** 121 F 126 13.5 133	**60.1** 125 F 129 13.5 137	**61.8** 129 F 134 13.5 141	**63.2** 132 F 135 13.0 142
31	**57.8** 121 F 125 13.5 132	**59.5** 125 F 129 13.5 136	**61.3** 129 F 133 13.5 140	**62.7** 131 F 135 13.0 142
33	**57.2** 120 F 125 13.5 132	**58.9** 124 F 128 13.5 135	**60.6** 129 F 132 13.5 139	**62.0** 131 F 134 13.0 141
35	**56.6** 120 F 124 13.5 131	**58.3** 124 F 128 13.5 135	**60.0** 128 F 132 13.5 139	**61.3** 130 * 133 13.0 140
37	**55.9** 119 F 123 13.5 130	**57.6** 123 F 127 13.5 134	**59.3** 127 F 131 13.5 138	**60.4** 129 * 132 13.0 139
	55.0 117 122 13.5 129	**57.0** 122 126 13.5 133	**59.0** 126 130 13.5 138	**60.0** 128 132 13.5 139
	53.0 114 119 14.0 127	**55.0** 119 123 14.0 131	**57.0** 123 128 13.5 135	**58.0** 125 129 13.5 136
	51.0 114 117 14.5 124	**53.0** 116 121 14.0 128	**55.0** 120 125 14.0 133	**56.0** 122 127 14.0 134
	49.0 114 115 14.5 122	**51.0** 114 118 14.5 126	**53.0** 117 123 14.5 130	**54.0** 119 124 14.0 131
	47.0 114 115 14.0 122	**49.0** 114 115 15.0 124	**51.0** 115 120 14.5 128	**52.0** 116 121 14.5 129
	45.0 114 115 13.5 122	**47.0** 114 115 14.5 124	**49.0** 115 117 15.0 125	**50.0** 115 119 15.0 126

BASED ON 2010 M FROM THR

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

MILAN Linate 36 BASED ON 2010 M FROM THR

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
-10	NO T/O	NO T/O	**62.2** 127	**63.6** 129
			F 140	F 141
(NA)			13.0 147	13.0 149
-5	NO T/O	NO T/O	**61.7** 126	**63.0** 128
			F 139	F 141
(NA)			13.0 146	13.0 148
0	NO T/O	NO T/O	**61.2** 125	**62.5** 128
			F 138	F 140
(NA)			13.0 146	13.0 147
5	NO T/O	NO T/O	**60.7** 124	**62.0** 127
			F 138	F 139
(NA)			13.5 145	13.0 147
10	NO T/O	NO T/O	**60.4** 124	**61.7** 126
			F 137	F 139
(NA)			13.5 145	13.0 146
15	NO T/O	NO T/O	**59.9** 123	**61.2** 125
			F 137	F 138
(NA)			13.5 144	13.0 146
20	NO T/O	NO T/O	**59.4** 122	**60.7** 124
			F 136	F 138
(NA)			13.5 144	13.0 145
25	NO T/O	NO T/O	**58.9** 121	**60.2** 124
			F 136	F 137
(NA)			13.5 143	13.5 145
27	NO T/O	NO T/O	**58.7** 121	**60.0** 123
			F 135	F 137
(NA)			13.5 143	13.5 144
29	NO T/O	NO T/O	**58.4** 120	**59.7** 123
			F 135	F 137
(NA)			13.5 142	13.5 144
31	NO T/O	NO T/O	**57.8** 120	**59.1** 122
			F 134	F 136
(NA)			13.5 142	13.5 143
33	NO T/O	NO T/O	**57.3** 120	**58.5** 122
			F 134	F 135
(NA)			13.5 141	13.5 143
35	NO T/O	NO T/O	**56.7** 119	**57.9** 122
			F 133	F 135
(NA)			13.5 140	13.5 142
37	NO T/O	NO T/O	**56.0** 119	**57.3** 121
			F 132	F 134
(30)			13.5 139	13.5 141
39	NO T/O	NO T/O	**55.4** 118	**56.6** 120
			F 132	F 133
(32)			13.5 139	13.5 140
41	NO T/O	NO T/O	**54.7** 117	**56.0** 120
			F 131	F 133
(34)			13.5 138	13.5 139
41			**54.0** 116	**54.0** 116
			130	130
			13.5 137	13.5 137
41			**52.0** 112 CK	**52.0** 112 CK
			127	127
			14.0 134	14.0 134
41			**50.0** 108 CK	**50.0** 109 CK
			124	124
			14.5 131	14.5 131
41			**48.0** 104 CK	**48.0** 105 CK
			121	121
			14.5 129	14.5 129
41			**46.0** 101 CK	**46.0** 101 CK
			118	118
			15.0 126 CK	15.0 126 CK
41			**44.0** 97 CK	**44.0** 97 CK
			115 CK	115 CK
			15.5 123 CK	15.5 123 CK
41			**42.0** 92 CK	**42.0** 93 CK
			111 CK	111 CK
			15.5 120 CK	15.5 120 CK

SSW

MAXIMUM DEPTH

- 0.90" (22 mm) of DRY SNOW
- 0.25" (6 mm) of SLUSH/WET SNOW
- 0.20" (5 mm) of STANDING WATER

PTOW (ton) / LIMIT CODE

OAT °C	WIND (kt) -10	-5	0	10	FLAP
-10	NO T/O	NO T/O	**54.1** G	**56.9** F	15
-5	NO T/O	NO T/O	**51.4** G	**56.4** F	
0	NO T/O	NO T/O	**48.9** G	**55.9** F	
5	NO T/O	NO T/O	NO T/O	**53.4** G	
10	NO T/O	NO T/O	NO T/O	**51.0** G	
15	NO T/O	NO T/O	NO T/O	**49.1** G	
20	NO T/O	NO T/O	NO T/O	NO T/O	
25	NO T/O	NO T/O	NO T/O	NO T/O	
30	NO T/O	NO T/O	NO T/O	NO T/O	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 6562 ft (2000 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	67.9	55.4	66.6	54.3
I	-5	74.1	61.2	72.8	60.1
N	0	75.0	66.9	75.0	65.9
D	10	75.0	70.7	75.0	69.8
	20	75.0	74.9	75.0	73.7

For QNH corrections, use values relevant to Go-Around

CLIMB LIMIT (Go-Around)

OAT °C	W (ton)
-15	71.0
27	71.0
29	70.4
31	69.4
33	68.4
35	67.4
37	66.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	WET	SSW 15	SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-600	0		-4000
QNH < 1013 (kg/hPa)	-80	-80	-90		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 13					

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- At 1350 ft QNH, right turn to TZO-VOR/NDB or LIN/LOM or COD/L.
- Acceleration altitude: 1900 ft QNH

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles A = TOW limited by acceleration
G = TOW limited by VMCG

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Compagnia Aerea Italiana
MD80 OPERATIONS MANUAL

Elev: 354 ft
Length: 8012 ft (2442 m)
Slope: -0.19 %
Shift: 0 ft (0 m)

Runway **18**

Airport **LIML - LIN**
MILAN Linate

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

PTOW (ton) ; V1 (KIAS)
LIMIT CODE ; VR (KIAS)
PITCH (deg) ; V2 (KIAS)

02 Apr 2009

FLAP 15 DRY

VMCG VRMIN V2MIN	OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
115	27	**62.6**	134	**64.8**	138	**67.1**		**67.9**	
117		F	140	F	143	F		S	
126	(NA)	13.0	148	13.0	150				
115	29	**62.4**	134	**64.6**	137	**66.9**	141	**67.9**	
117		F	140	F	143	F	146	S	
126	(NA)	13.0	147	13.0	150	12.5	153		
114	31	**61.9**	133	**64.0**	137	**66.3**	141	**67.1**	142
117		F	139	F	142	F	145	S	146
125	(NA)	13.0	147	13.0	149	12.5	152	12.5	153
113	33	**61.3**	133	**63.4**	136	**65.6**	140	**66.1**	141
116		F	139	F	141	F	144	S	145
124	(NA)	13.0	146	13.0	148	12.5	151	12.5	152
112	35	**60.6**	132	**62.7**	136	**64.9**	140	**65.2**	140
115		F	138	F	141	F	143	S	144
124	(NA)	13.0	145	12.5	148	12.5	150	12.5	151
112	37	**59.9**	132	**61.9**	135	**64.1**	139	**64.2**	139
115		F	137	F	140	F	143	S	143
123	(30)	13.0	144	12.5	147	12.5	149	12.5	149
111	39	**59.2**	131	**61.2**	134	**63.3**	138	**63.3**	138
114		F	137	F	139	S	142	S	142
122	(32)	13.0	143	12.5	146	12.5	148	12.5	148
110	41	**58.5**	130	**60.5**	134	**62.5**	137	**62.5**	138
113		F	136	F	138	S	141	S	141
121	(34)	13.0	143	12.5	145	12.5	147	12.5	147
109	43	**57.8**	130	**59.7**	133	**61.6**	136	**61.6**	137
112		F	135	F	138	S	140	S	140
121	(35)	13.0	142	12.5	144	12.5	146	12.5	146
108	45	**57.2**	129	**59.1**	132	**60.7**	135	**60.7**	136
112		F	134	F	137	S	139	S	139
120	(37)	13.0	141	12.5	143	12.5	145	12.5	145
107	47	**56.5**	129	**58.4**	132	**59.8**	134	**59.8**	135
111		F	134	F	136	S	138	S	138
119	(39)	13.0	140	12.5	143	12.5	144	12.5	144
107	49	**55.9**	128	**57.8**	131	**58.8**	133	**58.8**	134
110		F	133	F	135	S	137	S	137
118	(41)	13.0	139	12.5	142	12.5	143	12.5	143
	49	**55.0**	126	**57.0**	130	**58.0**	131	**58.0**	132
			132		134		135		135
		13.0	138	13.0	141	12.5	142	12.5	142
	49	**53.0**	123	**55.0**	126	**56.0**	128	**56.0**	129
			129		132		133		133
		13.5	135	13.0	138	13.0	139	13.0	139
	49	**51.0**	120	**53.0**	123	**54.0**	125	**54.0**	125
			126		129		130		130
		13.5	133	13.5	135	13.0	137	13.0	137
	49	**49.0**	116	**51.0**	120	**52.0**	122	**52.0**	122
			123		126		127		127
		14.0	130	13.5	133	13.5	134	13.5	134
	49	**47.0**	113 CK	**49.0**	116	**50.0**	118	**50.0**	119
			120		123		125		125
		14.5	127	14.0	130	14.0	131	14.0	131
	49	**45.0**	109 CK	**47.0**	113 CK	**48.0**	115	**48.0**	115
			117 CK		120		122		122
		14.5	124 CK	14.5	127	14.0	129	14.0	129
	49	**43.0**	106 CK	**45.0**	110 CK	**46.0**	112 CK	**46.0**	112 CK
			114 CK		117 CK		119		119
		15.0	122 CK	14.5	124 CK	14.5	126 CK	14.5	126 CK
	49	**41.0**	102 CK	**43.0**	106 CK	**44.0**	108 CK	**44.0**	109 CK
			111 CK		114 CK		115 CK		115 CK
		15.5	119 CK	15.0	122 CK	15.0	123 CK	15.0	123 CK
	49			**41.0**	103 CK	**42.0**	105 CK	**42.0**	105 CK
					111 CK		112 CK		112 CK
				15.5	119 CK	15.5	120 CK	15.5	120 CK

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS — Runway Length : 8012 ft (2442 m)

CLIMB LIMIT (Go-Around)

FLAP		40		28		OAT	W
RWY COND		DRY	WET	DRY	WET	°C	(ton)
						-15	71.0
W	-10	75.0	73.8	75.0	72.5	27	71.0
I	-5	75.0	75.0	75.0	75.0	29	70.4
N	0	75.0	75.0	75.0	75.0	31	69.4
D	10	75.0	75.0	75.0	75.0	33	68.4
	20	75.0	75.0	75.0	75.0	35	67.4
						37	66.4

For QNH corrections, use values relevant to Go-Around

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW	GO AROUND
ENG + AIRF A/I ON	-3000				-4000
QNH < 1013 (kg/hPa)	-80				-80
QNH > 1013 (kg/hPa)	+30				+30
max Δ hPa : 13					

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- LIN/LOM or COD/L or TZO/NDB-VOR standard EFP.

LIMITATION CODES: F = Field length; C = Approach climb; S = 2nd Segment; BLANK = No limitations; * = Obstacles; T = Tire speed; B = Brake energy

Alitalia

Compagnia Aerea Italiana

MD80

OPERATIONS MANUAL

Elev: 354 ft
Length: 8012 ft (2442 m)
Slope: +0.19 %
Shift: 0 ft (0 m)

Runway **36**

Airport **LIML - LIN**

MILAN Linate

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

PTOW (ton) ; V1 (KIAS)
LIMIT CODE ; VR (KIAS)
PITCH (deg) ; V2 (KIAS)

02 Apr 2009

FLAP 15 DRY

VMCG VRMIN V2MIN	OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
115	27	**61.9**	134	**63.4**	136	**64.9**	139	**65.7**	141
117		F	139	*	141	*	143	*	144
126	(NA)	13.0	147	13.0	148	13.0	150	12.5	151
115	29	**61.7**	134	**63.3**	136	**64.7**	139	**65.6**	140
117		F	139	*	141	*	143	*	144
126	(NA)	13.0	146	13.0	148	13.0	150	12.5	151
114	31	**61.2**	133	**62.7**	136	**64.1**	138	**64.9**	140
117		F	139	*	141	*	142	*	143
125	(NA)	13.0	146	13.0	148	13.0	149	12.5	150
113	33	**60.5**	133	**62.0**	135	**63.3**	137	**64.1**	139
116		F	138	*	140	*	141	*	142
124	(NA)	13.0	145	13.0	147	13.0	148	12.5	149
112	35	**59.8**	132	**61.2**	134	**62.5**	137	**63.2**	138
115		*	137	*	139	*	141	*	142
124	(NA)	13.0	144	13.0	146	13.0	147	12.5	148
112	37	**59.0**	131	**60.4**	134	**61.7**	136	**62.4**	137
115		*	136	*	138	*	140	*	141
123	(30)	13.0	143	13.0	145	13.0	146	12.5	147
111	39	**58.2**	130	**59.6**	133	**60.9**	135	**61.6**	137
114		*	135	*	137	*	139	*	140
122	(32)	13.0	142	13.0	144	13.0	145	12.5	146
110	41	**57.6**	130	**58.8**	132	**60.1**	134	**60.9**	136
113		*	135	*	136	*	138	*	139
121	(34)	13.0	141	13.0	143	13.0	145	12.5	145
109	43	**56.8**	129	**58.1**	131	**59.3**	133	**60.0**	135
112		*	134	*	136	*	137	*	138
121	(35)	13.0	140	13.0	142	13.0	144	12.5	144
108	45	**56.1**	128	**57.4**	131	**58.6**	133	**59.2**	134
112		*	133	*	135	*	136	*	137
120	(37)	13.0	139	13.0	141	12.5	143	12.5	143
107	47	**55.3**	127	**56.6**	130	**57.8**	132	**58.4**	133
111		*	132	*	134	*	135	*	136
119	(39)	13.0	138	13.0	140	13.0	142	12.5	142
107	49	**54.5**	127	**55.8**	129	**56.9**	131	**57.6**	133
110		*	131	*	133	*	134	*	135
118	(41)	13.0	137	13.0	139	13.0	141	12.5	141
	49	**54.0**	125	**55.0**	127	**56.0**	129	**57.0**	131
			130		132		133		134
		13.0	137	13.0	138	13.0	139	13.0	141
	49	**52.0**	122	**53.0**	124	**54.0**	126	**55.0**	128
			127		129		130		132
		13.5	134	13.5	135	13.0	137	13.0	138
	49	**50.0**	119	**51.0**	121	**52.0**	122	**53.0**	124
			125		126		127		129
		14.0	131	13.5	133	13.5	134	13.5	135
	49	**48.0**	115	**49.0**	117	**50.0**	119	**51.0**	121
			122		123		125		126
		14.0	129	14.0	130	14.0	131	13.5	133
	49	**46.0**	112 CK	**47.0**	114 CK	**48.0**	116	**49.0**	118
			119		120		122		123
		14.5	126 CK	14.5	127	14.0	129	14.0	130
	49	**44.0**	108 CK	**45.0**	110 CK	**46.0**	113 CK	**47.0**	115 CK
			116 CK		117 CK		119		120
		15.0	123 CK	14.5	124 CK	14.5	126 CK	14.5	127
	49	**42.0**	105 CK	**43.0**	107 CK	**44.0**	109 CK	**45.0**	111 CK
			112 CK		114 CK		116 CK		117 CK
		15.5	120 CK	15.0	122 CK	15.0	123 CK	14.5	124 CK
	49	**40.0**	101 CK	**41.0**	103 CK	**42.0**	105 CK	**43.0**	108 CK
			109 CK		111 CK		112 CK		114 CK
		15.5	117 CK	15.5	119 CK	15.5	120 CK	15.0	122 CK
	49					**40.0**	102 CK	**41.0**	104 CK
							109 CK		111 CK
						15.5	117 CK	15.5	119 CK

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS — Runway Length : 8012 ft (2442 m)

CLIMB LIMIT (Go-Around)

FLAP		40		28		OAT	W
RWY COND		DRY	WET	DRY	WET	°C	(ton)
						-15	71.0
W	-10	75.0	73.8	75.0	72.5	27	71.0
I	-5	75.0	75.0	75.0	75.0	29	70.4
N	0	75.0	75.0	75.0	75.0	31	69.4
D	10	75.0	75.0	75.0	75.0	33	68.4
	20	75.0	75.0	75.0	75.0	35	67.4
						37	66.4

For QNH corrections, use values relevant to Go-Around

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW	GO AROUND
ENG + AIRF A/I ON	-3000				-4000
QNH < 1013 (kg/hPa)	-80				-80
QNH > 1013 (kg/hPa)	+30				+30
max Δ hPa : 13					

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- At 1350 ft QNH, right turn to TZO-VOR/NDB or LIN/LOM or COD/L.
- Acceleration altitude: 1900 ft QNH

LIMITATION CODES: F = Field length; C = Approach climb; S = 2nd Segment; BLANK = No limitations; * = Obstacles; T = Tire speed; B = Brake energy