Alitalia
Compagnia Aerea Italiana
MD80 OPERATIONS MANUAL

Elev: 767 ft
Length: 12861 ft (3920 m)
Slope: -0.59 %
Shift: 0 ft (0 m)

Runway **17L**

Airport **LIMC - MXP**
MILAN Malpensa

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	**68.7**	**68.7**	**68.7**	**68.7**
	S	S	S	S
(NA)				
29	**68.6**	**68.6**	**68.6**	**68.6**
	S	S	S	S
(NA)				
31	**67.8**	**67.8**	**67.8**	**67.8**
	S	S	S	S
(NA)				
33	**66.7** 142	**66.7** 142	**66.7** 142	**66.7** 142
	S 147	S 147	S 147	S 147
(NA)	13.5 154	13.5 154	13.5 154	13.5 154
35	**65.6** 140	**65.6** 141	**65.6** 141	**65.6** 141
	S 146	S 146	S 146	S 146
(NA)	13.5 153	13.5 153	13.5 153	13.5 153
37	**64.4** 139	**64.4** 139	**64.4** 140	**64.4** 140
	S 144	S 144	S 144	S 144
(31)	13.5 151	13.5 151	13.5 151	13.5 151
39	**63.4** 138	**63.4** 138	**63.4** 139	**63.4** 139
	S 143	S 143	S 143	S 143
(33)	13.5 150	13.5 150	13.5 150	13.5 150
41	**62.6** 137	**62.6** 137	**62.6** 138	**62.6** 138
	S 142	S 142	S 142	S 142
(34)	13.5 149	13.5 149	13.5 149	13.5 149
43	**61.7** 136	**61.7** 136	**61.7** 137	**61.7** 137
	S 141	S 141	S 141	S 141
(36)	13.5 148	13.5 148	13.5 148	13.5 148
45	**60.8** 135	**60.8** 135	**60.8** 136	**60.8** 136
	S 140	S 140	S 140	S 140
(37)	13.5 147	13.5 147	13.5 147	13.5 147
47	**59.8** 134	**59.8** 134	**59.8** 135	**59.8** 135
	S 139	S 139	S 139	S 139
(39)	13.5 146	13.5 146	13.5 146	13.5 146
49	**58.8** 133	**58.8** 133	**58.8** 134	**58.8** 134
	S 138	S 138	S 138	S 138
(41)	13.5 144	13.5 144	13.5 144	13.5 144
49	**58.0** 131	**58.0** 131	**58.0** 132	**58.0** 132
	137	137	137	137
	13.5 143	13.5 143	13.5 143	13.5 143
49	**56.0** 128	**56.0** 128	**56.0** 129	**56.0** 129
	134	134	134	134
	14.0 141	14.0 141	14.0 141	14.0 141
49	**54.0** 125	**54.0** 125	**54.0** 126	**54.0** 126
	131	131	131	131
	14.0 138	14.0 138	14.0 138	14.0 138
49	**52.0** 121	**52.0** 122	**52.0** 122	**52.0** 123
	129	129	129	129
	14.5 136	14.5 136	14.5 136	14.5 136
49	**50.0** 118	**50.0** 119	**50.0** 119	**50.0** 120
	126	126	126	126
	15.0 133	15.0 133	15.0 133	15.0 133
49	**48.0** 115 CK	**48.0** 115	**48.0** 116	**48.0** 116
	123	123	123	123
	15.0 130	15.0 130	15.0 130	15.0 130
49	**46.0** 111 CK	**46.0** 112 CK	**46.0** 113 CK	**46.0** 113 CK
	120	120	120	120
	15.5 128 CK	15.5 128 CK	15.5 128 CK	15.5 128 CK
49	**44.0** 108 CK	**44.0** 109 CK	**44.0** 109 CK	**44.0** 110 CK
	117 CK	117 CK	117 CK	117 CK
	16.0 125 CK	16.0 125 CK	16.0 125 CK	16.0 125 CK
49	**42.0** 104 CK	**42.0** 105 CK	**42.0** 106 CK	**42.0** 106 CK
	114 CK	114 CK	114 CK	114 CK
	16.0 122 CK	16.0 122 CK	16.0 122 CK	16.0 122 CK

OPTIMUM FLAP

7	5	5	5

OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
-15	**71.9**	**72.5**	**72.5**	**72.5**
	S			
-10	**71.9**	**72.5**	**72.5**	**72.5**
	S			
-5	**71.8**	**72.5**	**72.5**	**72.5**
	S			
0	**71.8**	**72.5**	**72.5**	**72.5**
	S			
5	**71.8**	**72.5**	**72.5**	**72.5**
	S			
10	**71.7**	**72.5**	**72.5**	**72.5**
	S			
15	**71.7**	**72.5**	**72.5**	**72.5**
	S			
20	**71.6**	**72.5**	**72.5**	**72.5**
	S			
25	**71.6**	**72.5**	**72.5**	**72.5**
	S			
27	**71.6**	**72.5**	**72.5**	**72.5**
	S			
29	**71.5**	**72.3**	**72.5**	**72.5**
	S	B		
31	**70.7**	**71.9**	**72.1**	**72.1**
	S	*	S	S
33	**69.5**	**70.9**	**70.9**	**70.9**
	S	*	S	S
35	**68.3**	**69.7**	**69.7**	**69.7**
	S	S	S	S
37	**67.1**	**68.5**	**68.5**	**68.5**
	S	S	S	S
	67.0 148	**68.0** 154	**68.0** 155	**68.0** 155
	153	160	160	160
	13.5 160	13.0 167	13.0 167	13.0 167
	65.0 145	**66.0** 151	**66.0** 152	**66.0** 152
	151	157	157	157
	13.5 158	13.5 164	13.5 164	13.5 164
	63.0 142	**64.0** 148	**64.0** 149	**64.0** 149
	148	155	155	155
	14.0 155	13.5 161	13.5 161	13.5 161
	61.0 139	**62.0** 145	**62.0** 145	**62.0** 146
	146	152	152	152
	14.0 153	14.0 159	14.0 159	14.0 159
	59.0 136	**60.0** 142	**60.0** 142	**60.0** 143
	143	149	149	149
	14.5 150	14.0 156	14.0 156	14.0 156
	57.0 132	**58.0** 139	**58.0** 139	**58.0** 139
	140	146	146	146
	14.5 147	14.5 153	14.5 153	14.5 153

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

MILAN Malpensa 17L

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
-10	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
-5	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
0	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
5	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
10	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
15	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
20	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
25	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
27	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
29	**67.3** 131	**67.3** 132	**67.3** 133	**67.3** 133
	S 146	S 146	S 146	S 146
(NA)	12.5 153	12.5 153	12.5 153	12.5 153
31	**66.5** 131	**66.5** 131	**66.5** 132	**66.5** 132
	S 145	S 145	S 145	S 145
(NA)	12.5 152	12.5 152	12.5 152	12.5 152
33	**65.4** 130	**65.4** 130	**65.4** 131	**65.4** 131
	S 144	S 144	S 144	S 144
(NA)	12.5 151	12.5 151	12.5 151	12.5 151
35	**64.4** 129	**64.4** 129	**64.4** 130	**64.4** 130
	S 143	S 143	S 143	S 143
(NA)	12.5 150	12.5 150	12.5 150	12.5 150
37	**63.3** 128	**63.3** 128	**63.3** 129	**63.3** 129
	S 142	S 142	S 142	S 142
(31)	12.5 148	12.5 148	12.5 148	12.5 148
39	**62.4** 126	**62.4** 127	**62.4** 128	**62.4** 128
	S 141	S 141	S 141	S 141
(33)	12.5 147	12.5 147	12.5 147	12.5 147
41	**61.5** 126	**61.5** 126	**61.5** 127	**61.5** 127
	S 140	S 140	S 140	S 140
(34)	12.5 146	12.5 146	12.5 146	12.5 146
41	**61.0** 124	**61.0** 124	**61.0** 125	**61.0** 125
	139	139	139	139
	12.5 146	12.5 146	12.5 146	12.5 146
41	**59.0** 120	**59.0** 121	**59.0** 122	**59.0** 122
	136	136	136	136
	13.0 143	13.0 143	13.0 143	13.0 143
41	**57.0** 117	**57.0** 117	**57.0** 118	**57.0** 119
	133	133	133	133
	13.0 141	13.0 141	13.0 141	13.0 141
41	**55.0** 113 CK	**55.0** 114 CK	**55.0** 115	**55.0** 115
	131	131	131	131
	13.5 138	13.5 138	13.5 138	13.5 138
41	**53.0** 110 CK	**53.0** 111 CK	**53.0** 111 CK	**53.0** 112 CK
	128	128	128	128
	14.0 135	14.0 135	14.0 135	14.0 135
41	**51.0** 106 CK	**51.0** 107 CK	**51.0** 108 CK	**51.0** 108 CK
	125	125	125	125
	14.0 133	14.0 133	14.0 133	14.0 133
41	**49.0** 102 CK	**49.0** 103 CK	**49.0** 104 CK	**49.0** 104 CK
	122	122	122	122
	14.5 130	14.5 130	14.5 130	14.5 130

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	**65.8** *	**67.3** *	**67.4** S	**67.4** S	15
-5	**65.4** *	**66.9** *	**67.4** S	**67.4** S	
0	**65.1** *	**66.6** *	**67.4** S	**67.4** S	
5	**64.8** *	**66.3** *	**67.4** S	**67.4** S	
10	**64.6** *	**66.1** *	**67.3** S	**67.3** S	
15	**64.3** *	**65.8** *	**67.3** S	**67.3** S	
20	**63.9** *	**65.5** *	**67.0** *	**67.3** S	
25	**63.6** *	**65.2** *	**66.8** *	**67.3** S	
30	**63.0** *	**64.6** *	**66.1** *	**67.0** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 9767 ft (2977 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	WET	SSW 15	SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-2500	-2500		-4000
QNH < 1013 (kg/hPa)	-80	-80	-60		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

MXP17LR01 15010809 02 Apr 2009

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

ONE ENGINE OUT PROCEDURE :

- MAL/LOM or NOV/NDB 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: 767 ft
Length: 9744 ft (2970 m)
Slope: -0.55 %
Shift: 3117 ft (950 m)

Runway **17L**

Airport **LIMC - MXP**
MILAN Malpensa

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	**66.1** 140 * 146 13.5 153	**67.6** *	**68.7** S	**68.7** S
29	**65.9** 140 * 146 13.5 153	**67.5** *	**68.6** S	**68.6** S
31	**65.2** 139 * 145 13.5 152	**66.7** 142 * 147 13.5 154	**67.8** S	**67.8** S
33	**64.3** 138 * 144 13.5 151	**65.8** 141 * 146 13.5 153	**66.7** 142 S 147 13.5 154	**66.7** 142 S 147 13.5 154
35	**63.3** 137 * 143 13.5 150	**64.8** 139 * 145 13.5 152	**65.6** 141 S 146 13.5 153	**65.6** 141 S 146 13.5 153
37	**62.4** 136 * 142 13.5 149	**63.8** 138 * 144 13.5 151	**64.4** 140 S 144 13.5 151	**64.4** 140 S 144 13.5 151
39	**61.6** 135 * 141 13.5 148	**63.0** 138 * 143 13.5 150	**63.4** 139 S 143 13.5 150	**63.4** 139 S 143 13.5 150
41	**60.9** 135 * 140 13.5 147	**62.3** 137 * 142 13.5 149	**62.6** 138 S 142 13.5 149	**62.6** 138 S 142 13.5 149
43	**60.1** 134 * 139 13.5 146	**61.5** 136 * 141 13.5 148	**61.7** 137 S 141 13.5 148	**61.7** 137 S 141 13.5 148
45	**59.3** 133 * 139 13.5 145	**60.7** 135 * 140 13.5 147	**60.8** 136 S 140 13.5 147	**60.8** 136 S 140 13.5 147
47	**58.5** 132 * 138 13.5 144	**59.8** 134 * 139 13.5 146	**59.8** 135 S 139 13.5 146	**59.8** 135 S 139 13.5 146
49	**57.7** 131 * 137 13.5 143	**58.8** 133 S 138 13.5 144	**58.8** 134 S 138 13.5 144	**58.8** 134 S 138 13.5 144
49	**57.0** 129 135 14.0 142	**58.0** 131 137 13.5 143	**58.0** 132 137 13.5 143	**58.0** 132 137 13.5 143
49	**55.0** 126 133 14.0 140	**56.0** 128 134 14.0 141	**56.0** 129 134 14.0 141	**56.0** 129 134 14.0 141
49	**53.0** 123 130 14.5 137	**54.0** 125 131 14.0 138	**54.0** 126 131 14.0 138	**54.0** 126 131 14.0 138
49	**51.0** 120 127 14.5 134	**52.0** 122 129 14.5 136	**52.0** 122 129 14.5 136	**52.0** 123 129 14.5 136
49	**49.0** 117 124 15.0 132	**50.0** 119 126 15.0 133	**50.0** 119 126 15.0 133	**50.0** 120 126 15.0 133
49	**47.0** 113 CK 121 15.5 129	**48.0** 115 123 15.0 130	**48.0** 116 123 15.0 130	**48.0** 116 123 15.0 130
49	**45.0** 110 CK 118 CK 15.5 126 CK	**46.0** 112 CK 120 15.5 128 CK	**46.0** 113 CK 120 15.5 128 CK	**46.0** 113 CK 120 15.5 128 CK
49	**43.0** 106 CK 115 CK 16.0 123 CK	**44.0** 109 CK 117 CK 16.0 125 CK	**44.0** 109 CK 117 CK 16.0 125 CK	**44.0** 110 CK 117 CK 16.0 125 CK
49	**41.0** 103 CK 112 CK 16.0 120 CK	**42.0** 105 CK 114 CK 16.0 122 CK	**42.0** 106 CK 114 CK 16.0 122 CK	**42.0** 106 CK 114 CK 16.0 122 CK

OPTIMUM FLAP 15 10 10 10

OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
-15	**67.4** S	**69.7** S	**69.7** S	**69.7** S
-10	**67.4** S	**69.7** S	**69.7** S	**69.7** S
-5	**67.4** S	**69.6** S	**69.6** S	**69.6** S
0	**67.4** S	**69.4** *	**69.6** S	**69.6** S
5	**67.3** *	**69.1** *	**69.6** S	**69.6** S
10	**67.1** *	**68.8** *	**69.5** S	**69.5** S
15	**66.8** 140 * 145 12.5 152	**68.5** *	**69.5** S	**69.5** S
20	**66.6** 140 * 145 12.5 152	**68.1** *	**69.5** S	**69.5** S
25	**66.3** 139 * 145 12.5 152	**67.8** *	**69.4** S	**69.4** S
27	**66.2** 139 * 145 12.5 152	**67.7** *	**69.3** *	**69.4** S
29	**66.1** 139 * 145 12.5 152	**67.6** *	**69.1** *	**69.4** S
31	**65.4** 138 * 144 12.5 151	**66.8** 143 * 148 13.5 155	**68.4** *	**68.6** S
33	**64.5** 138 * 143 12.5 150	**65.9** 142 * 147 13.5 154	**67.4** 144 * 149 13.5 156	**67.4** 144 S 149 13.5 156
35	**63.6** 137 * 142 12.5 149	**64.9** 141 * 146 13.5 153	**66.3** 143 S 148 13.5 155	**66.3** 143 S 148 13.5 155
37	**62.6** 136 * 141 12.5 148	**63.9** 140 * 145 13.5 152	**65.1** 142 S 146 13.5 153	**65.1** 142 S 146 13.5 153
	62.0 134 140 13.0 147	**63.0** 138 143 14.0 151	**65.0** 141 146 13.5 153	**65.0** 141 146 13.5 153
	60.0 131 137 13.0 144	**61.0** 135 141 14.0 148	**63.0** 138 143 14.0 151	**63.0** 138 143 14.0 151
	58.0 128 135 13.5 142	**59.0** 132 138 14.5 146	**61.0** 135 141 14.0 148	**61.0** 135 141 14.0 148
	56.0 124 132 13.5 139	**57.0** 129 136 14.5 143	**59.0** 132 138 14.5 146	**59.0** 132 138 14.5 146
	54.0 121 129 14.0 137	**55.0** 126 133 15.0 141	**57.0** 129 136 14.5 143	**57.0** 129 136 14.5 143
	52.0 118 126 14.0 134	**53.0** 122 130 15.0 138	**55.0** 126 133 15.0 141	**55.0** 126 133 15.0 141

T/O FROM PSN A

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

MILAN Malpensa 17L T/O FROM PSN A

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		-5		0		10	
-10	**65.0**	128	**66.4**	131	**67.4**		**67.4**	
	*	143	*	145	S		S	
(NA)	12.5	150	12.5	152				
-5	**64.7**	127	**66.1**	130	**67.3**		**67.4**	
	*	143	*	144	*		S	
(NA)	12.5	150	12.5	152				
0	**64.4**	127	**65.8**	130	**67.1**		**67.4**	
	*	142	*	144	*		S	
(NA)	13.0	150	12.5	151				
5	**64.1**	126	**65.6**	129	**66.9**		**67.4**	
	*	142	*	144	*		S	
(NA)	13.0	149	12.5	151				
10	**63.9**	126	**65.4**	129	**66.7**	131	**67.3**	
	*	142	*	144	*	145	S	
(NA)	13.0	149	12.5	151	12.5	152		
15	**63.6**	126	**65.1**	129	**66.5**	131	**67.3**	
	*	141	*	143	*	145	*	
(NA)	13.0	149	12.5	151	12.5	152		
20	**63.3**	125	**64.9**	128	**66.2**	131	**67.0**	
	*	141	*	143	*	145	*	
(NA)	13.0	148	12.5	150	12.5	152		
25	**63.1**	125	**64.6**	128	**65.9**	130	**66.8**	
	*	141	*	143	*	144	*	
(NA)	13.0	148	13.0	150	12.5	151		
27	**62.9**	125	**64.5**	128	**65.8**	130	**66.7**	132
	*	141	*	143	*	144	*	145
(NA)	13.0	148	13.0	150	12.5	151	12.5	152
29	**62.7**	124	**64.2**	127	**65.6**	130	**66.5**	132
	*	140	*	142	*	144	*	145
(NA)	13.0	148	13.0	149	12.5	151	12.5	152
31	**62.0**	124	**63.4**	127	**64.8**	129	**65.7**	131
	*	140	*	141	*	143	*	144
(NA)	13.0	147	13.0	149	12.5	150	12.5	151
33	**61.2**	123	**62.6**	126	**63.9**	129	**64.8**	130
	*	139	*	141	*	142	*	143
(NA)	13.0	146	13.0	148	12.5	149	12.5	150
35	**60.5**	122	**61.8**	125	**63.1**	128	**63.9**	130
	*	138	*	140	*	141	*	142
(NA)	13.0	145	12.5	147	12.5	148	12.5	149
37	**59.7**	122	**61.0**	125	**62.2**	127	**63.0**	129
	*	137	*	139	*	140	*	141
(31)	13.0	144	12.5	146	12.5	147	12.5	148
39	**58.8**	121	**60.2**	124	**61.4**	126	**62.2**	128
	*	136	*	138	*	139	*	140
(33)	13.0	143	12.5	145	12.5	146	12.5	147
41	**58.2**	120	**59.5**	123	**60.7**	126	**61.4**	127
	*	135	*	137	*	139	*	140
(34)	13.0	142	12.5	144	12.5	145	12.5	146
41	**58.0**	119	**59.0**	121	**60.0**	123	**61.0**	125
		135		136		137		139
	13.0	142	13.0	143	13.0	144	12.5	146
41	**56.0**	115	**57.0**	118	**58.0**	120	**59.0**	122
		132		133		135		136
	13.5	139	13.0	141	13.0	142	13.0	143
41	**54.0**	112 CK	**55.0**	114 CK	**56.0**	117	**57.0**	119
		129		131		132		133
	13.5	137	13.5	138	13.5	139	13.0	141
41	**52.0**	108 CK	**53.0**	111 CK	**54.0**	113 CK	**55.0**	115
		127		128		129		131
	14.0	134	14.0	135	13.5	137	13.5	138
41	**50.0**	104 CK	**51.0**	107 CK	**52.0**	110 CK	**53.0**	112 CK
		124		125		127		128
	14.5	131	14.0	133	14.0	134	14.0	135
41	**48.0**	101 CK	**49.0**	103 CK	**50.0**	106 CK	**51.0**	108 CK
		121		122		124		125
	14.5	129	14.5	130	14.5	131	14.0	133
41	**46.0**	97 CK	**47.0**	100 CK	**48.0**	102 CK	**49.0**	105 CK
		118		119		121		122
	15.0	126 CK	15.0	127	14.5	129	14.5	130

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	**60.0**	*	**61.7**	*	**63.4**	*	**64.4**	*	15
-5	**59.6**	*	**61.3**	*	**63.0**	*	**64.0**	*	
0	**59.2**	G	**60.9**	*	**62.6**	*	**63.7**	*	
5	**56.8**	G	**60.6**	*	**62.3**	*	**63.3**	*	
10	**54.5**	G	**60.4**	*	**62.1**	*	**63.1**	*	
15	**52.5**	G	**60.1**	*	**61.8**	*	**62.8**	*	
20	**50.2**	G	**59.8**	*	**61.5**	*	**62.5**	*	
25	**48.3**	G	**59.4**	*	**61.1**	*	**62.2**	*	
30	**47.3**	G	**58.7**	*	**60.5**	*	**61.5**	*	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 9767 ft (2977 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-2500	-1100		-4000
QNH < 1013 (kg/hPa)	-80	-80	-100		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

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

ONE ENGINE OUT PROCEDURE :

- MAL/LOM or NOV/NDB 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: 767 ft
Length: 11663 ft (3555 m)
Slope: -0.59 %
Shift: 0 ft (0 m)

Runway **17L**

Airport **LIMC - MXP**
MILAN Malpensa

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)

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FLAP 11 — DRY

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
27	**68.7**	**68.7**	**68.7**	**68.7**
	S	S	S	S
(NA)				
29	**68.6**	**68.6**	**68.6**	**68.6**
	S	S	S	S
(NA)				
31	**67.8**	**67.8**	**67.8**	**67.8**
	S	S	S	S
(NA)				
33	**66.7** 142	**66.7** 142	**66.7** 142	**66.7** 142
	S 147	S 147	S 147	S 147
(NA)	13.5 154	13.5 154	13.5 154	13.5 154
35	**65.6** 140	**65.6** 141	**65.6** 141	**65.6** 141
	S 146	S 146	S 146	S 146
(NA)	13.5 153	13.5 153	13.5 153	13.5 153
37	**64.4** 139	**64.4** 139	**64.4** 140	**64.4** 140
	S 144	S 144	S 144	S 144
(31)	13.5 151	13.5 151	13.5 151	13.5 151
39	**63.4** 138	**63.4** 138	**63.4** 139	**63.4** 139
	S 143	S 143	S 143	S 143
(33)	13.5 150	13.5 150	13.5 150	13.5 150
41	**62.6** 137	**62.6** 137	**62.6** 138	**62.6** 138
	S 142	S 142	S 142	S 142
(34)	13.5 149	13.5 149	13.5 149	13.5 149
43	**61.7** 136	**61.7** 136	**61.7** 137	**61.7** 137
	S 141	S 141	S 141	S 141
(36)	13.5 148	13.5 148	13.5 148	13.5 148
45	**60.8** 135	**60.8** 135	**60.8** 136	**60.8** 136
	S 140	S 140	S 140	S 140
(37)	13.5 147	13.5 147	13.5 147	13.5 147
47	**59.8** 134	**59.8** 134	**59.8** 135	**59.8** 135
	S 139	S 139	S 139	S 139
(39)	13.5 146	13.5 146	13.5 146	13.5 146
49	**58.8** 133	**58.8** 133	**58.8** 134	**58.8** 134
	S 138	S 138	S 138	S 138
(41)	13.5 144	13.5 144	13.5 144	13.5 144
49	**58.0** 131	**58.0** 131	**58.0** 132	**58.0** 132
	137	137	137	137
	13.5 143	13.5 143	13.5 143	13.5 143
49	**56.0** 128	**56.0** 128	**56.0** 129	**56.0** 129
	134	134	134	134
	14.0 141	14.0 141	14.0 141	14.0 141
49	**54.0** 125	**54.0** 125	**54.0** 126	**54.0** 126
	131	131	131	131
	14.0 138	14.0 138	14.0 138	14.0 138
49	**52.0** 121	**52.0** 122	**52.0** 122	**52.0** 123
	129	129	129	129
	14.5 136	14.5 136	14.5 136	14.5 136
49	**50.0** 118	**50.0** 119	**50.0** 119	**50.0** 120
	126	126	126	126
	15.0 133	15.0 133	15.0 133	15.0 133
49	**48.0** 115 CK	**48.0** 115	**48.0** 116	**48.0** 116
	123	123	123	123
	15.0 130	15.0 130	15.0 130	15.0 130
49	**46.0** 111 CK	**46.0** 112 CK	**46.0** 113 CK	**46.0** 113 CK
	120	120	120	120
	15.5 128 CK	15.5 128 CK	15.5 128 CK	15.5 128 CK
49	**44.0** 108 CK	**44.0** 109 CK	**44.0** 109 CK	**44.0** 110 CK
	117 CK	117 CK	117 CK	117 CK
	16.0 125 CK	16.0 125 CK	16.0 125 CK	16.0 125 CK
49	**42.0** 104 CK	**42.0** 105 CK	**42.0** 106 CK	**42.0** 106 CK
	114 CK	114 CK	114 CK	114 CK
	16.0 122 CK	16.0 122 CK	16.0 122 CK	16.0 122 CK

OPTIMUM FLAP

7	5	5	5

OAT °C	WIND (kt) -10	-5	0	10
-15	**71.9**	**72.5**	**72.5**	**72.5**
	S			
-10	**71.9**	**72.5**	**72.5**	**72.5**
	S			
-5	**71.8**	**72.5**	**72.5**	**72.5**
	S			
0	**71.8**	**72.5**	**72.5**	**72.5**
	S			
5	**71.8**	**72.5**	**72.5**	**72.5**
	S			
10	**71.7**	**72.5**	**72.5**	**72.5**
	S			
15	**71.7**	**72.5**	**72.5**	**72.5**
	S			
20	**71.6**	**72.5**	**72.5**	**72.5**
	S			
25	**71.6**	**72.5**	**72.5**	**72.5**
	S			
27	**71.6**	**72.5**	**72.5**	**72.5**
	S			
29	**71.5**	**72.3**	**72.5**	**72.5**
	S	B		
31	**70.7**	**71.7**	**72.1**	**72.1**
	S	F	S	S
33	**69.5**	**70.7**	**70.9**	**70.9**
	S	F	S	S
35	**68.3**	**69.7**	**69.7**	**69.7**
	S	S	S	S
37	**67.1**	**68.5**	**68.5**	**68.5**
	S	S	S	S
	67.0 148	**68.0** 154	**68.0** 155	**68.0** 155
	153	160	160	160
	13.5 160	13.0 167	13.0 167	13.0 167
	65.0 145	**66.0** 151	**66.0** 152	**66.0** 152
	151	157	157	157
	13.5 158	13.5 164	13.5 164	13.5 164
	63.0 142	**64.0** 148	**64.0** 149	**64.0** 149
	148	155	155	155
	14.0 155	13.5 161	13.5 161	13.5 161
	61.0 139	**62.0** 145	**62.0** 145	**62.0** 146
	146	152	152	152
	14.0 153	14.0 159	14.0 159	14.0 159
	59.0 136	**60.0** 142	**60.0** 142	**60.0** 143
	143	149	149	149
	14.5 150	14.0 156	14.0 156	14.0 156
	57.0 132	**58.0** 139	**58.0** 139	**58.0** 139
	140	146	146	146
	14.5 147	14.5 153	14.5 153	14.5 153

BASED ON 3555 M FROM RWY HEAD

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

MILAN Malpensa 17L BASED ON 3555 M FROM RWY HEAD

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
-10	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
-5	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
0	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
5	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
10	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
15	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
20	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
25	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
27	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
29	**67.3** 131	**67.3** 132	**67.3** 133	**67.3** 133
	S 146	S 146	S 146	S 146
(NA)	12.5 153	12.5 153	12.5 153	12.5 153
31	**66.5** 131	**66.5** 131	**66.5** 132	**66.5** 132
	S 145	S 145	S 145	S 145
(NA)	12.5 152	12.5 152	12.5 152	12.5 152
33	**65.4** 130	**65.4** 130	**65.4** 131	**65.4** 131
	S 144	S 144	S 144	S 144
(NA)	12.5 151	12.5 151	12.5 151	12.5 151
35	**64.4** 129	**64.4** 129	**64.4** 130	**64.4** 130
	S 143	S 143	S 143	S 143
(NA)	12.5 150	12.5 150	12.5 150	12.5 150
37	**63.3** 128	**63.3** 128	**63.3** 129	**63.3** 129
	S 142	S 142	S 142	S 142
(31)	12.5 148	12.5 148	12.5 148	12.5 148
39	**62.4** 126	**62.4** 127	**62.4** 128	**62.4** 128
	S 141	S 141	S 141	S 141
(33)	12.5 147	12.5 147	12.5 147	12.5 147
41	**61.5** 126	**61.5** 126	**61.5** 127	**61.5** 127
	S 140	S 140	S 140	S 140
(34)	12.5 146	12.5 146	12.5 146	12.5 146
41	**61.0** 124	**61.0** 124	**61.0** 125	**61.0** 125
	139	139	139	139
	12.5 146	12.5 146	12.5 146	12.5 146
41	**59.0** 120	**59.0** 121	**59.0** 122	**59.0** 122
	136	136	136	136
	13.0 143	13.0 143	13.0 143	13.0 143
41	**57.0** 117	**57.0** 117	**57.0** 118	**57.0** 119
	133	133	133	133
	13.0 141	13.0 141	13.0 141	13.0 141
41	**55.0** 113 CK	**55.0** 114 CK	**55.0** 115	**55.0** 115
	131	131	131	131
	13.5 138	13.5 138	13.5 138	13.5 138
41	**53.0** 110 CK	**53.0** 111 CK	**53.0** 111 CK	**53.0** 112 CK
	128	128	128	128
	14.0 135	14.0 135	14.0 135	14.0 135
41	**51.0** 106 CK	**51.0** 107 CK	**51.0** 108 CK	**51.0** 108 CK
	125	125	125	125
	14.0 133	14.0 133	14.0 133	14.0 133
41	**49.0** 102 CK	**49.0** 103 CK	**49.0** 104 CK	**49.0** 104 CK
	122	122	122	122
	14.5 130	14.5 130	14.5 130	14.5 130

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	**65.8** *	**67.3** *	**67.4** S	**67.4** S	
-5	**65.4** *	**66.9** *	**67.4** S	**67.4** S	
0	**65.1** *	**66.6** *	**67.4** S	**67.4** S	
5	**64.8** *	**66.3** *	**67.4** S	**67.4** S	
10	**64.6** *	**66.1** *	**67.3** S	**67.3** S	15
15	**64.3** *	**65.8** *	**67.3** S	**67.3** S	
20	**63.9** *	**65.5** *	**67.0** *	**67.3** S	
25	**63.6** *	**65.2** *	**66.8** *	**67.3** S	
30	**63.0** *	**64.6** *	**66.1** *	**67.0** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 8563 ft (2610 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	WET	SSW 15	SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-2500	-2500		-4000
QNH < 1013 (kg/hPa)	-80	-80	-60		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

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

ONE ENGINE OUT PROCEDURE :

- MAL/LOM or NOV/NDB 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: 767 ft
Length: 12861 ft (3920 m)
Slope: +0.59 %
Shift: 0 ft (0 m)

Runway **35R**

Airport **LIMC - MXP**
MILAN Malpensa

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	**64.0**	140	**65.0**	141	**66.0**	143	**66.4**	144
	*	144	*	145	*	146	*	147
(NA)	14.0	151	13.5	152	13.5	153	13.5	154
29	**64.0**	139	**65.0**	141	**65.9**	143	**66.4**	144
	*	144	*	145	*	146	*	147
(NA)	14.0	151	13.5	152	13.5	153	13.5	154
31	**63.2**	139	**64.2**	140	**65.1**	142	**65.6**	143
	*	143	*	144	*	145	*	146
(NA)	14.0	150	13.5	151	13.5	152	13.5	153
33	**62.3**	138	**63.2**	139	**64.1**	141	**64.5**	142
	*	142	*	143	*	144	*	145
(NA)	14.0	149	14.0	150	13.5	151	13.5	151
35	**61.3**	136	**62.2**	138	**63.0**	140	**63.4**	140
	*	141	*	142	*	143	*	143
(NA)	14.0	147	14.0	148	13.5	149	13.5	150
37	**60.3**	135	**61.2**	137	**62.0**	139	**62.4**	139
	*	140	*	141	*	142	*	142
(31)	14.0	146	14.0	147	13.5	148	13.5	149
39	**59.4**	134	**60.3**	136	**61.1**	138	**61.5**	139
	*	139	*	140	*	141	*	141
(33)	14.0	145	14.0	146	13.5	147	13.5	148
41	**58.6**	134	**59.5**	135	**60.3**	137	**60.7**	138
	*	138	*	139	*	140	*	141
(34)	14.0	144	14.0	145	13.5	146	13.5	147
43	**57.8**	133	**58.7**	134	**59.5**	136	**59.9**	137
	*	137	*	138	*	139	*	140
(36)	14.0	143	14.0	144	13.5	145	13.5	146
45	**57.1**	132	**57.9**	134	**58.6**	135	**59.0**	136
	*	136	*	137	*	138	*	139
(37)	14.0	142	14.0	143	13.5	144	13.5	144
47	**56.2**	131	**57.0**	133	**57.8**	134	**58.1**	135
	*	135	*	136	*	137	*	138
(39)	14.0	141	14.0	142	13.5	143	13.5	143
49	**55.3**	130	**56.1**	132	**56.9**	133	**57.2**	134
	*	134	*	135	*	136	*	137
(41)	14.0	140	14.0	141	13.5	142	13.5	142
49	**55.0**	129	**56.0**	131	**56.0**	131	**57.0**	133
		133		135		135		136
	14.0	139	14.0	141	14.0	141	14.0	142
49	**53.0**	125	**54.0**	127	**54.0**	128	**55.0**	130
		130		132		132		133
	14.5	137	14.0	138	14.0	138	14.0	139
49	**51.0**	122	**52.0**	124	**52.0**	125	**53.0**	127
		128		129		129		130
	15.0	134	14.5	135	14.5	135	14.5	137
49	**49.0**	119	**50.0**	121	**50.0**	121	**51.0**	123
		125		126		126		128
	15.0	131	15.0	133	15.0	133	15.0	134
49	**47.0**	115	**48.0**	118	**48.0**	118	**49.0**	120
		122		123		123		125
	15.5	129	15.5	130	15.5	130	15.0	131
49	**45.0**	112 CK	**46.0**	114 CK	**46.0**	115 CK	**47.0**	117
		119 CK		120		120		122
	16.0	126 CK	15.5	127 CK	15.5	127 CK	15.5	129
49	**43.0**	108 CK	**44.0**	111 CK	**44.0**	111 CK	**45.0**	113 CK
		116 CK		117 CK		117 CK		119 CK
	16.0	123 CK	16.0	125 CK	16.0	125 CK	16.0	126 CK
49	**41.0**	104 CK	**42.0**	107 CK	**42.0**	108 CK	**43.0**	110 CK
		112 CK		114 CK		114 CK		116 CK
	16.0	120 CK	16.0	122 CK	16.0	122 CK	16.0	123 CK
49			**40.0**	103 CK	**40.0**	104 CK	**41.0**	106 CK
				111 CK		111 CK		112 CK
			16.0	119 CK	16.0	119 CK	16.0	120 CK

OPTIMUM FLAP

5	4	4	4

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
-15	**67.3**		**68.6**		**69.7**		**70.2**	
	*		*		*		*	
-10	**67.1**		**68.4**		**69.5**		**70.1**	
	*		*		*		*	
-5	**67.0**		**68.2**		**69.4**		**70.0**	
	*		*		*		*	
0	**66.9**		**68.1**		**69.3**		**69.8**	
	*		*		*		*	
5	**66.7**	154	**68.0**		**69.2**		**69.7**	
	*	158	*		*		*	
	13.5	165						
10	**66.6**	154	**67.8**		**69.0**		**69.6**	
	*	158	*		*		*	
	13.5	165						
15	**66.5**	154	**67.7**		**68.9**		**69.5**	
	*	158	*		*		*	
	13.5	165						
20	**66.3**	154	**67.6**		**68.8**		**69.4**	
	*	158	*		*		*	
	13.5	164						
25	**66.2**	153	**67.4**		**68.6**		**69.2**	
	*	158	*		*		*	
	13.5	164						
27	**66.2**	153	**67.4**		**68.6**		**69.2**	
	*	158	*		*		*	
	13.5	164						
29	**66.1**	153	**67.3**	159	**68.5**		**69.1**	
	*	157	*	163	*		*	
	13.5	164	13.0	169				
31	**65.3**	152	**66.6**	158	**67.7**		**68.3**	
	*	157	*	162	*		*	
	13.5	163	13.0	168				
33	**64.3**	151	**65.5**	157	**66.7**	159	**67.2**	160
	*	155	*	160	*	162	*	163
	13.5	162	13.0	167	13.0	168	13.0	169
35	**63.2**	150	**64.5**	155	**65.6**	157	**66.2**	158
	*	154	*	159	*	161	*	162
	13.5	160	13.0	165	13.0	167	13.0	167
37	**62.3**	149	**63.4**	154	**64.6**	156	**65.1**	157
	*	153	*	158	*	159	*	160
	13.5	159	13.0	164	13.0	165	13.0	166
	62.0	148	**63.0**	153	**64.0**	155	**65.0**	156
		152		157		158		160
	14.0	158	13.5	163	13.5	164	13.0	166
	60.0	144	**61.0**	150	**62.0**	151	**63.0**	153
		149		154		156		157
	14.0	156	13.5	160	13.5	162	13.5	163
	58.0	141	**59.0**	146	**60.0**	148	**61.0**	150
		147		151		153		154
	14.5	153	14.0	158	14.0	159	13.5	160
	56.0	138	**57.0**	143	**58.0**	145	**59.0**	147
		144		148		150		151
	14.5	150	14.0	155	14.0	156	14.0	158
	54.0	134	**55.0**	140	**56.0**	142	**57.0**	143
		141		145		147		148
	15.0	148	14.5	152	14.5	153	14.0	155
	52.0	131	**53.0**	136	**54.0**	138	**55.0**	140
		137		142		144		145
	15.5	145	15.0	149	14.5	151	14.5	152

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

MILAN Malpensa 35R

WET FLAP 15

VMCG / VRMIN / V2MIN	OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
115	-10	**62.0**	127	**63.0**	129	**63.9**	131	**64.5**	133
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	-5	**61.9**	127	**62.9**	129	**63.9**	131	**64.5**	133
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	0	**61.9**	127	**62.9**	129	**63.8**	131	**64.4**	132
117		*	139	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	5	**61.8**	127	**62.8**	129	**63.7**	131	**64.3**	132
117		*	139	*	141	*	142	*	143
126	(NA)	13.0	146	13.0	148	13.0	149	13.0	149
115	10	**61.7**	126	**62.8**	129	**63.7**	131	**64.3**	132
117		*	139	*	141	*	142	*	143
126	(NA)	13.0	146	13.0	148	13.0	149	13.0	149
115	15	**61.7**	126	**62.7**	129	**63.6**	131	**64.2**	132
117		*	139	*	141	*	142	*	143
126	(NA)	13.0	146	13.0	148	13.0	149	13.0	149
115	20	**61.6**	126	**62.6**	129	**63.5**	131	**64.1**	132
117		*	139	*	141	*	142	*	143
126	(NA)	13.0	146	13.0	147	13.0	149	13.0	149
115	25	**61.5**	126	**62.6**	128	**63.4**	131	**64.1**	132
117		*	139	*	141	*	142	*	142
126	(NA)	13.0	146	13.0	147	13.0	148	13.0	149
115	27	**61.5**	126	**62.5**	128	**63.4**	131	**64.0**	132
117		*	139	*	141	*	142	*	142
126	(NA)	13.0	146	13.0	147	13.0	148	13.0	149
115	29	**61.4**	126	**62.4**	128	**63.3**	131	**64.0**	132
117		*	139	*	140	*	142	*	142
126	(NA)	13.0	146	13.0	147	13.0	148	13.0	149
114	31	**60.7**	125	**61.8**	128	**62.7**	130	**63.2**	131
117		*	138	*	140	*	141	*	142
125	(NA)	13.0	145	13.0	146	13.0	148	13.0	148
113	33	**59.8**	125	**60.9**	127	**61.8**	129	**62.3**	130
116		*	137	*	139	*	140	*	141
124	(NA)	13.0	144	13.0	145	13.0	146	13.0	147
112	35	**58.8**	124	**59.9**	126	**60.9**	128	**61.4**	130
115		*	136	*	138	*	139	*	140
124	(NA)	13.0	143	13.0	144	13.0	145	13.0	146
112	37	**58.0**	123	**58.9**	125	**59.9**	127	**60.5**	129
115		*	135	*	137	*	138	*	138
123	(31)	13.0	142	13.0	143	13.0	144	13.0	145
111	39	**57.2**	122	**58.2**	124	**59.0**	126	**59.6**	127
114		*	134	*	136	*	137	*	137
122	(33)	13.0	141	13.0	142	13.0	143	13.0	144
110	41	**56.5**	121	**57.4**	123	**58.3**	125	**58.8**	127
113		*	133	*	135	*	136	*	137
121	(34)	13.0	140	13.0	141	13.0	142	13.0	143
	41	**56.0**	119	**57.0**	121	**58.0**	124	**58.0**	124
			132		134		135		135
		13.5	139	13.0	141	13.0	142	13.0	142
	41	**54.0**	116	**55.0**	118	**56.0**	120	**56.0**	121
			130		131		132		132
		13.5	137	13.5	138	13.5	139	13.5	139
	41	**52.0**	112 CK	**53.0**	114 CK	**54.0**	117	**54.0**	117
			127		128		130		130
		14.0	134	14.0	135	13.5	137	13.5	137
	41	**50.0**	108 CK	**51.0**	111 CK	**52.0**	113 CK	**52.0**	114 CK
			124		126		127		127
		14.5	131	14.0	133	14.0	134	14.0	134
	41	**48.0**	104 CK	**49.0**	107 CK	**50.0**	110 CK	**50.0**	110 CK
			121		123		124		124
		14.5	128	14.5	130	14.5	131	14.5	131
	41	**46.0**	100 CK	**47.0**	103 CK	**48.0**	106 CK	**48.0**	106 CK
			118		120		121		121
		15.0	126 CK	15.0	127	14.5	128	14.5	128
	41	**44.0**	96 CK	**45.0**	99 CK	**46.0**	102 CK	**46.0**	103 CK
			115 CK		116 CK		118		118
		15.5	123 CK	15.5	124 CK	15.0	126 CK	15.0	126 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		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10		FLAP
-10	**60.5**	*	**61.7**	*	**62.8**	*	**63.4**	*	
-5	**60.4**	*	**61.6**	*	**62.7**	*	**63.3**	*	
0	**60.3**	*	**61.5**	*	**62.6**	*	**63.2**	*	
5	**60.2**	*	**61.4**	*	**62.4**	*	**63.1**	*	
10	**60.1**	*	**61.3**	*	**62.4**	*	**63.0**	*	15
15	**60.0**	*	**61.2**	*	**62.3**	*	**62.9**	*	
20	**59.9**	*	**61.1**	*	**62.2**	*	**62.8**	*	
25	**59.7**	*	**61.0**	*	**62.1**	*	**62.7**	*	
30	**59.4**	*	**60.6**	*	**61.7**	*	**62.4**	*	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 12861 ft (3920 m)

FLAP		40		28		CLIMB LIMIT (Go-Around)	
RWY COND		DRY	WET	DRY	WET	OAT °C	W (ton)
						-15	70.2
W	-10	75.0	75.0	75.0	75.0	27	70.2
I	-5	75.0	75.0	75.0	75.0	29	69.6
N	0	75.0	75.0	75.0	75.0	31	68.5
D	10	75.0	75.0	75.0	75.0	33	67.3
	20	75.0	75.0	75.0	75.0	35	66.4
						37	65.4

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	-2200	-2000		-4000
QNH < 1013 (kg/hPa)	-80	-80	-60		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

MXP35RR01 15010809 02 Apr 2009

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

ONE ENGINE OUT PROCEDURE :

- At 1200 ft QNH, right turn to MAL/LOM or NOV/NDB.
- Acceleration altitude: 2200 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: 767 ft
Length: 11778 ft (3590 m)
Slope: +0.59 %
Shift: 0 ft (0 m)

Runway **35R**

Airport **LIMC - MXP**
MILAN Malpensa

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	**64.0**	140	**65.0**	141	**65.9**	143	**66.4**	144
	*	144	*	145	*	146	*	147
(NA)	14.0	151	13.5	152	13.5	153	13.5	154
29	**64.0**	139	**65.0**	141	**65.9**	143	**66.4**	144
	*	144	*	145	*	146	*	147
(NA)	14.0	151	13.5	152	13.5	153	13.5	154
31	**63.2**	139	**64.2**	140	**65.1**	142	**65.6**	143
	*	143	*	144	*	145	*	146
(NA)	14.0	150	13.5	151	13.5	152	13.5	153
33	**62.3**	138	**63.2**	139	**64.1**	141	**64.5**	142
	*	142	*	143	*	144	*	145
(NA)	14.0	149	14.0	150	13.5	151	13.5	151
35	**61.3**	136	**62.2**	138	**63.0**	140	**63.4**	140
	*	141	*	142	*	143	*	143
(NA)	14.0	147	14.0	148	13.5	149	13.5	150
37	**60.3**	135	**61.2**	137	**62.0**	139	**62.4**	139
	*	140	*	141	*	142	*	142
(31)	14.0	146	14.0	147	13.5	148	13.5	149
39	**59.4**	134	**60.3**	136	**61.1**	138	**61.5**	139
	*	139	*	140	*	141	*	141
(33)	14.0	145	14.0	146	13.5	147	13.5	148
41	**58.6**	134	**59.5**	135	**60.3**	137	**60.7**	138
	*	138	*	139	*	140	*	141
(34)	14.0	144	14.0	145	13.5	146	13.5	147
43	**57.8**	133	**58.7**	134	**59.5**	136	**59.9**	137
	*	137	*	138	*	139	*	140
(36)	14.0	143	14.0	144	13.5	145	13.5	146
45	**57.1**	132	**57.9**	134	**58.6**	135	**59.0**	136
	*	136	*	137	*	138	*	139
(37)	14.0	142	14.0	143	13.5	144	13.5	144
47	**56.2**	131	**57.0**	133	**57.8**	134	**58.1**	135
	*	135	*	136	*	137	*	138
(39)	14.0	141	14.0	142	13.5	143	13.5	143
49	**55.3**	130	**56.1**	132	**56.9**	133	**57.2**	134
	*	134	*	135	*	136	*	137
(41)	14.0	140	14.0	141	13.5	142	13.5	142
49	**55.0**	129	**56.0**	131	**56.0**	131	**57.0**	133
		133		135		135		136
	14.0	139	14.0	141	14.0	141	14.0	142
49	**53.0**	125	**54.0**	127	**54.0**	128	**55.0**	130
		130		132		132		133
	14.5	137	14.0	138	14.0	138	14.0	139
49	**51.0**	122	**52.0**	124	**52.0**	125	**53.0**	127
		128		129		129		130
	15.0	134	14.5	135	14.5	135	14.5	137
49	**49.0**	119	**50.0**	121	**50.0**	121	**51.0**	123
		125		126		126		128
	15.0	131	15.0	133	15.0	133	15.0	134
49	**47.0**	115	**48.0**	118	**48.0**	118	**49.0**	120
		122		123		123		125
	15.5	129	15.5	130	15.5	130	15.0	131
49	**45.0**	112 CK	**46.0**	114 CK	**46.0**	115 CK	**47.0**	117
		119 CK		120		120		122
	16.0	126 CK	15.5	127 CK	15.5	127 CK	15.5	129
49	**43.0**	108 CK	**44.0**	111 CK	**44.0**	111 CK	**45.0**	113 CK
		116 CK		117 CK		117 CK		119 CK
	16.0	123 CK	16.0	125 CK	16.0	125 CK	16.0	126 CK
49	**41.0**	104 CK	**42.0**	107 CK	**42.0**	108 CK	**43.0**	110 CK
		112 CK		114 CK		114 CK		116 CK
	16.0	120 CK	16.0	122 CK	16.0	122 CK	16.0	123 CK
49			**40.0**	103 CK	**40.0**	104 CK	**41.0**	106 CK
				111 CK		111 CK		112 CK
			16.0	119 CK	16.0	119 CK	16.0	120 CK

OPTIMUM FLAP

4	4	4	4

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
-15	**67.4**		**68.6**		**69.7**		**70.2**	
	*		*		*		*	
-10	**67.3**		**68.4**		**69.5**		**70.1**	
	*		*		*		*	
-5	**67.1**		**68.2**		**69.4**		**70.0**	
	*		*		*		*	
0	**66.9**		**68.1**		**69.3**		**69.8**	
	*		*		*		*	
5	**66.8**		**68.0**		**69.2**		**69.7**	
	*		*		*		*	
10	**66.7**	158	**67.8**		**69.0**		**69.6**	
	*	162	*		*		*	
	13.0	168						
15	**66.5**	157	**67.7**		**68.9**		**69.5**	
	*	161	*		*		*	
	13.0	168						
20	**66.4**	157	**67.6**		**68.8**		**69.4**	
	*	161	*		*		*	
	13.5	168						
25	**66.2**	157	**67.4**		**68.6**		**69.2**	
	*	161	*		*		*	
	13.5	168						
27	**66.2**	157	**67.4**		**68.6**		**69.2**	
	*	161	*		*		*	
	13.5	167						
29	**66.1**	157	**67.3**	159	**68.5**		**69.1**	
	*	161	*	163	*		*	
	13.5	167	13.0	169				
31	**65.3**	156	**66.6**	158	**67.7**		**68.3**	
	*	160	*	162	*		*	
	13.5	166	13.0	168				
33	**64.3**	155	**65.5**	157	**66.7**	159	**67.2**	160
	*	159	*	160	*	162	*	163
	13.5	165	13.0	167	13.0	168	13.0	169
35	**63.2**	153	**64.5**	155	**65.6**	157	**66.2**	158
	*	157	*	159	*	161	*	162
	13.5	164	13.0	165	13.0	167	13.0	167
37	**62.3**	152	**63.4**	154	**64.6**	156	**65.1**	157
	*	156	*	158	*	159	*	160
	13.5	162	13.0	164	13.0	165	13.0	166
	62.0	151	**63.0**	153	**64.0**	155	**65.0**	156
		156		157		158		160
	13.5	162	13.5	163	13.5	164	13.0	166
	60.0	148	**61.0**	150	**62.0**	151	**63.0**	153
		153		154		156		157
	14.0	159	13.5	160	13.5	162	13.5	163
	58.0	144	**59.0**	146	**60.0**	148	**61.0**	150
		150		151		153		154
	14.0	156	14.0	158	14.0	159	13.5	160
	56.0	141	**57.0**	143	**58.0**	145	**59.0**	147
		147		148		150		151
	14.5	153	14.0	155	14.0	156	14.0	158
	54.0	138	**55.0**	140	**56.0**	142	**57.0**	143
		144		145		147		148
	14.5	151	14.5	152	14.5	153	14.0	155
	52.0	134	**53.0**	136	**54.0**	138	**55.0**	140
		141		142		144		145
	15.0	148	15.0	149	14.5	151	14.5	152

BASED ON 3590 M FROM RWY HEAD

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

MILAN Malpensa 35R BASED ON 3590 M FROM RWY HEAD

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
-10	**62.0** 127	**63.0** 129	**63.9** 131	**64.5** 133
	* 140	* 141	* 142	* 143
(NA)	13.0 147	13.0 148	13.0 149	13.0 150
-5	**61.9** 127	**62.9** 129	**63.9** 131	**64.5** 133
	* 140	* 141	* 142	* 143
(NA)	13.0 147	13.0 148	13.0 149	13.0 150
0	**61.9** 127	**62.9** 129	**63.8** 131	**64.4** 132
	* 140	* 141	* 142	* 143
(NA)	13.0 147	13.0 148	13.0 149	13.0 150
5	**61.8** 127	**62.8** 129	**63.7** 131	**64.3** 132
	* 139	* 141	* 142	* 143
(NA)	13.0 146	13.0 148	13.0 149	13.0 149
10	**61.7** 126	**62.8** 129	**63.7** 131	**64.3** 132
	* 139	* 141	* 142	* 143
(NA)	13.0 146	13.0 148	13.0 149	13.0 149
15	**61.7** 126	**62.7** 129	**63.6** 131	**64.2** 132
	* 139	* 141	* 142	* 143
(NA)	13.0 146	13.0 148	13.0 149	13.0 149
20	**61.6** 126	**62.6** 129	**63.5** 131	**64.1** 132
	* 139	* 141	* 142	* 143
(NA)	13.0 146	13.0 147	13.0 149	13.0 149
25	**61.5** 126	**62.6** 129	**63.4** 131	**64.1** 132
	* 139	* 141	* 142	* 142
(NA)	13.0 146	13.0 147	13.0 148	13.0 149
27	**61.5** 126	**62.5** 128	**63.4** 131	**64.0** 132
	* 139	* 141	* 142	* 142
(NA)	13.0 146	13.0 147	13.0 148	13.0 149
29	**61.4** 126	**62.4** 128	**63.3** 131	**63.9** 132
	* 139	* 140	* 142	* 142
(NA)	13.0 146	13.0 147	13.0 148	13.0 149
31	**60.7** 125	**61.8** 128	**62.7** 130	**63.2** 131
	* 138	* 140	* 141	* 142
(NA)	13.0 145	13.0 146	13.0 148	13.0 148
33	**59.8** 124	**60.9** 127	**61.8** 129	**62.3** 130
	* 137	* 139	* 140	* 141
(NA)	13.0 144	13.0 145	13.0 146	13.0 147
35	**58.8** 124	**59.9** 126	**60.9** 128	**61.4** 130
	* 136	* 138	* 139	* 140
(NA)	13.0 143	13.0 144	13.0 145	13.0 146
37	**58.0** 123	**58.9** 125	**59.9** 127	**60.4** 128
	* 135	* 137	* 138	* 138
(31)	13.0 142	13.0 143	13.0 144	13.0 145
39	**57.2** 122	**58.2** 124	**59.0** 126	**59.6** 127
	* 134	* 136	* 137	* 137
(33)	13.0 141	13.0 142	13.0 143	13.0 144
41	**56.5** 121	**57.4** 123	**58.3** 125	**58.7** 127
	* 134	* 135	* 136	* 137
(34)	13.0 140	13.0 141	13.0 142	13.0 143
41	**56.0** 119	**57.0** 121	**58.0** 124	**58.0** 124
	132	134	135	135
	13.5 139	13.0 141	13.0 142	13.0 142
41	**54.0** 116	**55.0** 118	**56.0** 120	**56.0** 121
	130	131	132	132
	13.5 137	13.5 138	13.5 139	13.5 139
41	**52.0** 112 CK	**53.0** 114 CK	**54.0** 117	**54.0** 117
	127	128	130	130
	14.0 134	14.0 135	13.5 137	13.5 137
41	**50.0** 108 CK	**51.0** 111 CK	**52.0** 113 CK	**52.0** 114 CK
	124	126	127	127
	14.5 131	14.0 133	14.0 134	14.0 134
41	**48.0** 104 CK	**49.0** 107 CK	**50.0** 110 CK	**50.0** 110 CK
	121	123	124	124
	14.5 128	14.5 130	14.5 131	14.5 131
41	**46.0** 100 CK	**47.0** 103 CK	**48.0** 106 CK	**48.0** 106 CK
	118	120	121	121
	15.0 126 CK	15.0 127	14.5 128	14.5 128
41	**44.0** 96 CK	**45.0** 99 CK	**46.0** 102 CK	**46.0** 103 CK
	115 CK	116 CK	118	118
	15.5 123 CK	15.5 124 CK	15.0 126 CK	15.0 126 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	**60.5** *	**61.7** *	**62.8** *	**63.4** *	15
-5	**60.4** *	**61.6** *	**62.7** *	**63.3** *	
0	**60.3** *	**61.5** *	**62.6** *	**63.2** *	
5	**60.2** *	**61.4** *	**62.4** *	**63.1** *	
10	**60.1** *	**61.3** *	**62.4** *	**63.0** *	
15	**60.0** *	**61.2** *	**62.3** *	**62.9** *	
20	**59.8** *	**61.1** *	**62.2** *	**62.8** *	
25	**59.7** *	**60.9** *	**62.1** *	**62.7** *	
30	**59.4** *	**60.6** *	**61.7** *	**62.4** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 11778 ft (3590 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	WET	SSW 15	SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-2200	-1900		-4000
QNH < 1013 (kg/hPa)	-80	-80	-60		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

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

ONE ENGINE OUT PROCEDURE :

- At 1200 ft QNH, right turn to MAL/LOM or NOV/NDB.
- Acceleration altitude: 2200 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: 767 ft
Length: 12861 ft (3920 m)
Slope: -0.59 %
Shift: 0 ft (0 m)

Runway **17R**

Airport **LIMC - MXP**
MILAN Malpensa

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)

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FLAP 11

DRY

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
27	**68.7**	**68.7**	**68.7**	**68.7**
	S	S	S	S
(NA)				
29	**68.6**	**68.6**	**68.6**	**68.6**
	S	S	S	S
(NA)				
31	**67.8**	**67.8**	**67.8**	**67.8**
	S	S	S	S
(NA)				
33	**66.7** 142	**66.7** 142	**66.7** 142	**66.7** 142
	S 147	S 147	S 147	S 147
(NA)	13.5 154	13.5 154	13.5 154	13.5 154
35	**65.6** 140	**65.6** 141	**65.6** 141	**65.6** 141
	S 146	S 146	S 146	S 146
(NA)	13.5 153	13.5 153	13.5 153	13.5 153
37	**64.4** 139	**64.4** 139	**64.4** 140	**64.4** 140
	S 144	S 144	S 144	S 144
(31)	13.5 151	13.5 151	13.5 151	13.5 151
39	**63.4** 138	**63.4** 138	**63.4** 139	**63.4** 139
	S 143	S 143	S 143	S 143
(33)	13.5 150	13.5 150	13.5 150	13.5 150
41	**62.6** 137	**62.6** 137	**62.6** 138	**62.6** 138
	S 142	S 142	S 142	S 142
(34)	13.5 149	13.5 149	13.5 149	13.5 149
43	**61.7** 136	**61.7** 136	**61.7** 137	**61.7** 137
	S 141	S 141	S 141	S 141
(36)	13.5 148	13.5 148	13.5 148	13.5 148
45	**60.8** 135	**60.8** 135	**60.8** 136	**60.8** 136
	S 140	S 140	S 140	S 140
(37)	13.5 147	13.5 147	13.5 147	13.5 147
47	**59.8** 134	**59.8** 134	**59.8** 135	**59.8** 135
	S 139	S 139	S 139	S 139
(39)	13.5 146	13.5 146	13.5 146	13.5 146
49	**58.8** 133	**58.8** 133	**58.8** 134	**58.8** 134
	S 138	S 138	S 138	S 138
(41)	13.5 144	13.5 144	13.5 144	13.5 144
49	**58.0** 131	**58.0** 131	**58.0** 132	**58.0** 132
	137	137	137	137
	13.5 143	13.5 143	13.5 143	13.5 143
49	**56.0** 128	**56.0** 128	**56.0** 129	**56.0** 129
	134	134	134	134
	14.0 141	14.0 141	14.0 141	14.0 141
49	**54.0** 125	**54.0** 125	**54.0** 126	**54.0** 126
	131	131	131	131
	14.0 138	14.0 138	14.0 138	14.0 138
49	**52.0** 121	**52.0** 122	**52.0** 122	**52.0** 123
	129	129	129	129
	14.5 136	14.5 136	14.5 136	14.5 136
49	**50.0** 118	**50.0** 119	**50.0** 119	**50.0** 120
	126	126	126	126
	15.0 133	15.0 133	15.0 133	15.0 133
49	**48.0** 115 CK	**48.0** 115	**48.0** 116	**48.0** 116
	123	123	123	123
	15.0 130	15.0 130	15.0 130	15.0 130
49	**46.0** 111 CK	**46.0** 112 CK	**46.0** 113 CK	**46.0** 113 CK
	120	120	120	120
	15.5 128 CK	15.5 128 CK	15.5 128 CK	15.5 128 CK
49	**44.0** 108 CK	**44.0** 109 CK	**44.0** 109 CK	**44.0** 110 CK
	117 CK	117 CK	117 CK	117 CK
	16.0 125 CK	16.0 125 CK	16.0 125 CK	16.0 125 CK
49	**42.0** 104 CK	**42.0** 105 CK	**42.0** 106 CK	**42.0** 106 CK
	114 CK	114 CK	114 CK	114 CK
	16.0 122 CK	16.0 122 CK	16.0 122 CK	16.0 122 CK

OPTIMUM FLAP

7	5	5	5

OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
-15	**71.9**	**72.5**	**72.5**	**72.5**
	S			
-10	**71.9**	**72.5**	**72.5**	**72.5**
	S			
-5	**71.8**	**72.5**	**72.5**	**72.5**
	S			
0	**71.8**	**72.5**	**72.5**	**72.5**
	S			
5	**71.8**	**72.5**	**72.5**	**72.5**
	S			
10	**71.7**	**72.5**	**72.5**	**72.5**
	S			
15	**71.7**	**72.5**	**72.5**	**72.5**
	S			
20	**71.6**	**72.5**	**72.5**	**72.5**
	S			
25	**71.6**	**72.5**	**72.5**	**72.5**
	S			
27	**71.6**	**72.5**	**72.5**	**72.5**
	S			
29	**71.5**	**72.3**	**72.5**	**72.5**
	*	B		
31	**70.7**	**71.6**	**72.1**	**72.1**
	S	*	S	S
33	**69.5**	**70.6**	**70.9**	**70.9**
	S	*	S	S
35	**68.3**	**69.5**	**69.7**	**69.7**
	S	*	S	S
37	**67.1**	**68.5**	**68.5**	**68.5**
	S	*	S	S
	67.0 148	**68.0** 154	**68.0** 155	**68.0** 155
	153	160	160	160
	13.5 160	13.0 167	13.0 167	13.0 167
	65.0 145	**66.0** 151	**66.0** 152	**66.0** 152
	151	157	157	157
	13.5 158	13.5 164	13.5 164	13.5 164
	63.0 142	**64.0** 148	**64.0** 149	**64.0** 149
	148	155	155	155
	14.0 155	13.5 161	13.5 161	13.5 161
	61.0 139	**62.0** 145	**62.0** 145	**62.0** 146
	146	152	152	152
	14.0 153	14.0 159	14.0 159	14.0 159
	59.0 136	**60.0** 142	**60.0** 142	**60.0** 143
	143	149	149	149
	14.5 150	14.0 156	14.0 156	14.0 156
	57.0 132	**58.0** 139	**58.0** 139	**58.0** 139
	140	146	146	146
	14.5 147	14.5 153	14.5 153	14.5 153

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

MILAN Malpensa 17R

WET FLAP 15

VMCG VRMIN V2MIN	OAT °C	WIND (kt) -10	 -5	 0	 10
115	-10	**67.4**	**67.4**	**67.4**	**67.4**
117		S	S	S	S
126	(NA)				
115	-5	**67.4**	**67.4**	**67.4**	**67.4**
117		S	S	S	S
126	(NA)				
115	0	**67.4**	**67.4**	**67.4**	**67.4**
117		S	S	S	S
126	(NA)				
115	5	**67.4**	**67.4**	**67.4**	**67.4**
117		S	S	S	S
126	(NA)				
115	10	**67.3**	**67.3**	**67.3**	**67.3**
117		S	S	S	S
126	(NA)				
115	15	**67.3**	**67.3**	**67.3**	**67.3**
117		S	S	S	S
126	(NA)				
115	20	**67.3**	**67.3**	**67.3**	**67.3**
117		S	S	S	S
126	(NA)				
115	25	**67.3**	**67.3**	**67.3**	**67.3**
117		S	S	S	S
126	(NA)				
115	27	**67.3**	**67.3**	**67.3**	**67.3**
117		S	S	S	S
126	(NA)				
115	29	**67.3** 131	**67.3** 132	**67.3** 133	**67.3** 133
117		S 146	S 146	S 146	S 146
126	(NA)	12.5 153	12.5 153	12.5 153	12.5 153
114	31	**66.5** 131	**66.5** 131	**66.5** 132	**66.5** 132
117		S 145	S 145	S 145	S 145
125	(NA)	12.5 152	12.5 152	12.5 152	12.5 152
113	33	**65.4** 130	**65.4** 130	**65.4** 131	**65.4** 131
116		S 144	S 144	S 144	S 144
124	(NA)	12.5 151	12.5 151	12.5 151	12.5 151
112	35	**64.4** 129	**64.4** 129	**64.4** 130	**64.4** 130
115		S 143	S 143	S 143	S 143
124	(NA)	12.5 150	12.5 150	12.5 150	12.5 150
112	37	**63.3** 128	**63.3** 128	**63.3** 129	**63.3** 129
115		S 142	S 142	S 142	S 142
123	(31)	12.5 148	12.5 148	12.5 148	12.5 148
111	39	**62.4** 126	**62.4** 127	**62.4** 128	**62.4** 128
114		S 141	S 141	S 141	S 141
122	(33)	12.5 147	12.5 147	12.5 147	12.5 147
110	41	**61.5** 126	**61.5** 126	**61.5** 127	**61.5** 127
113		S 140	S 140	S 140	S 140
121	(34)	12.5 146	12.5 146	12.5 146	12.5 146
	41	**61.0** 124	**61.0** 124	**61.0** 125	**61.0** 125
		139	139	139	139
		12.5 146	12.5 146	12.5 146	12.5 146
	41	**59.0** 120	**59.0** 121	**59.0** 122	**59.0** 122
		136	136	136	136
		13.0 143	13.0 143	13.0 143	13.0 143
	41	**57.0** 117	**57.0** 117	**57.0** 118	**57.0** 119
		133	133	133	133
		13.0 141	13.0 141	13.0 141	13.0 141
	41	**55.0** 113 CK	**55.0** 114 CK	**55.0** 115	**55.0** 115
		131	131	131	131
		13.5 138	13.5 138	13.5 138	13.5 138
	41	**53.0** 110 CK	**53.0** 111 CK	**53.0** 111 CK	**53.0** 112 CK
		128	128	128	128
		14.0 135	14.0 135	14.0 135	14.0 135
	41	**51.0** 106 CK	**51.0** 107 CK	**51.0** 108 CK	**51.0** 108 CK
		125	125	125	125
		14.0 133	14.0 133	14.0 133	14.0 133
	41	**49.0** 102 CK	**49.0** 103 CK	**49.0** 104 CK	**49.0** 104 CK
		122	122	122	122
		14.5 130	14.5 130	14.5 130	14.5 130

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	**65.6** *	**67.0** *	**67.4** S	**67.4** S	
-5	**65.3** *	**66.7** *	**67.4** S	**67.4** S	
0	**65.0** *	**66.4** *	**67.4** S	**67.4** S	
5	**64.7** *	**66.1** *	**67.4** S	**67.4** S	15
10	**64.5** *	**66.0** *	**67.3** S	**67.3** S	
15	**64.3** *	**65.7** *	**67.1** *	**67.3** S	
20	**64.0** *	**65.4** *	**66.9** *	**67.3** S	
25	**63.7** *	**65.2** *	**66.6** *	**67.3** S	
30	**63.1** *	**64.6** *	**66.1** *	**66.9** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 12861 ft (3920 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF				GO AROUND
	DRY	WET	SSW 15	SSW	
ENG + AIRF A/I ON	-3000	-2500	-2500		-4000
QNH < 1013 (kg/hPa)	-80	-80	-70		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

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

ONE ENGINE OUT PROCEDURE :

- MAL/LOM or NOV/NDB 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: 767 ft
Length: 10482 ft (3195 m)
Slope: -0.59 %
Shift: 0 ft (0 m)

Runway **17R**

Airport **LIMC - MXP**
MILAN Malpensa

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	**68.7**	**68.7**	**68.7**	**68.7**
	S	S	S	S
(NA)				
29	**68.6**	**68.6**	**68.6**	**68.6**
	S	S	S	S
(NA)				
31	**67.8**	**67.8**	**67.8**	**67.8**
	S	S	S	S
(NA)				
33	**66.7** 142	**66.7** 142	**66.7** 142	**66.7** 142
	S 147	S 147	S 147	S 147
(NA)	13.5 154	13.5 154	13.5 154	13.5 154
35	**65.6** 140	**65.6** 141	**65.6** 141	**65.6** 141
	S 146	S 146	S 146	S 146
(NA)	13.5 153	13.5 153	13.5 153	13.5 153
37	**64.4** 139	**64.4** 139	**64.4** 140	**64.4** 140
	S 144	S 144	S 144	S 144
(31)	13.5 151	13.5 151	13.5 151	13.5 151
39	**63.4** 138	**63.4** 138	**63.4** 139	**63.4** 139
	S 143	S 143	S 143	S 143
(33)	13.5 150	13.5 150	13.5 150	13.5 150
41	**62.6** 137	**62.6** 137	**62.6** 138	**62.6** 138
	S 142	S 142	S 142	S 142
(34)	13.5 149	13.5 149	13.5 149	13.5 149
43	**61.7** 136	**61.7** 136	**61.7** 137	**61.7** 137
	S 141	S 141	S 141	S 141
(36)	13.5 148	13.5 148	13.5 148	13.5 148
45	**60.8** 135	**60.8** 135	**60.8** 136	**60.8** 136
	S 140	S 140	S 140	S 140
(37)	13.5 147	13.5 147	13.5 147	13.5 147
47	**59.8** 134	**59.8** 134	**59.8** 135	**59.8** 135
	S 139	S 139	S 139	S 139
(39)	13.5 146	13.5 146	13.5 146	13.5 146
49	**58.8** 133	**58.8** 133	**58.8** 134	**58.8** 134
	S 138	S 138	S 138	S 138
(41)	13.5 144	13.5 144	13.5 144	13.5 144
49	**58.0** 131	**58.0** 131	**58.0** 132	**58.0** 132
	137	137	137	137
	13.5 143	13.5 143	13.5 143	13.5 143
49	**56.0** 128	**56.0** 128	**56.0** 129	**56.0** 129
	134	134	134	134
	14.0 141	14.0 141	14.0 141	14.0 141
49	**54.0** 125	**54.0** 125	**54.0** 126	**54.0** 126
	131	131	131	131
	14.0 138	14.0 138	14.0 138	14.0 138
49	**52.0** 121	**52.0** 122	**52.0** 122	**52.0** 123
	129	129	129	129
	14.5 136	14.5 136	14.5 136	14.5 136
49	**50.0** 118	**50.0** 119	**50.0** 119	**50.0** 120
	126	126	126	126
	15.0 133	15.0 133	15.0 133	15.0 133
49	**48.0** 115 CK	**48.0** 115	**48.0** 116	**48.0** 116
	123	123	123	123
	15.0 130	15.0 130	15.0 130	15.0 130
49	**46.0** 111 CK	**46.0** 112 CK	**46.0** 113 CK	**46.0** 113 CK
	120	120	120	120
	15.5 128 CK	15.5 128 CK	15.5 128 CK	15.5 128 CK
49	**44.0** 108 CK	**44.0** 109 CK	**44.0** 109 CK	**44.0** 110 CK
	117 CK	117 CK	117 CK	117 CK
	16.0 125 CK	16.0 125 CK	16.0 125 CK	16.0 125 CK
49	**42.0** 104 CK	**42.0** 105 CK	**42.0** 106 CK	**42.0** 106 CK
	114 CK	114 CK	114 CK	114 CK
	16.0 122 CK	16.0 122 CK	16.0 122 CK	16.0 122 CK

OPTIMUM FLAP

9 8 6 6

OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
-15	**70.4**	**71.2**	**72.5**	**72.5**
	S	S		
-10	**70.4**	**71.1**	**72.5**	**72.5**
	S	S		
-5	**70.4**	**71.1**	**72.5**	**72.5**
	S	S		
0	**70.3**	**71.1**	**72.5**	**72.5**
	S	S		
5	**70.3**	**71.0**	**72.5**	**72.5**
	S	S		
10	**70.3**	**71.0**	**72.4**	**72.4**
	S	S	S	S
15	**70.2**	**70.9**	**72.4**	**72.4**
	S	S	S	S
20	**70.2**	**70.9**	**72.4**	**72.4**
	S	S	S	S
25	**70.1**	**70.9**	**72.3**	**72.3**
	S	S	S	S
27	**70.1**	**70.8**	**72.1**	**72.3**
	S	S	F	S
29	**70.1**	**70.8**	**71.9**	**72.3**
	S	S	F	S
31	**69.3**	**70.0**	**71.2**	**71.4**
	S	S	F	S
33	**68.1**	**68.8**	**70.2**	**70.2**
	S	S	F	S
35	**67.0** 145	**67.6** 147	**69.0**	**69.0**
	S 150	S 152	S	S
	13.5 157	13.5 159		
37	**65.8** 143	**66.5** 146	**67.8**	**67.8**
	S 149	S 151	S	S
	13.5 155	13.5 158		
	65.0 141	**66.0** 144	**67.0** 150	**67.0** 151
	147	150	156	156
	13.5 154	13.5 157	13.5 163	13.5 163
	63.0 139	**64.0** 142	**65.0** 147	**65.0** 148
	145	147	153	153
	14.0 152	14.0 155	13.5 160	13.5 160
	61.0 136	**62.0** 139	**63.0** 144	**63.0** 145
	142	145	150	150
	14.0 149	14.0 152	14.0 157	14.0 157
	59.0 133	**60.0** 136	**61.0** 141	**61.0** 141
	140	142	148	148
	14.5 147	14.5 150	14.0 155	14.0 155
	57.0 129	**58.0** 132	**59.0** 138	**59.0** 138
	137	139	145	145
	14.5 144	14.5 147	14.5 152	14.5 152
	55.0 126	**56.0** 129	**57.0** 135	**57.0** 135
	134	137	142	142
	15.0 142	15.0 144	14.5 149	14.5 149

BASED ON 3195 M FROM RWY HEAD

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

MILAN Malpensa 17R BASED ON 3195 M FROM RWY HEAD

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
-10	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
-5	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
0	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
5	**67.4**	**67.4**	**67.4**	**67.4**
	S	S	S	S
(NA)				
10	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
15	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
20	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
25	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
27	**67.3**	**67.3**	**67.3**	**67.3**
	S	S	S	S
(NA)				
29	**67.3** 131	**67.3** 132	**67.3** 133	**67.3** 133
	S 146	S 146	S 146	S 146
(NA)	12.5 153	12.5 153	12.5 153	12.5 153
31	**66.5** 131	**66.5** 131	**66.5** 132	**66.5** 132
	S 145	S 145	S 145	S 145
(NA)	12.5 152	12.5 152	12.5 152	12.5 152
33	**65.4** 130	**65.4** 130	**65.4** 131	**65.4** 131
	S 144	S 144	S 144	S 144
(NA)	12.5 151	12.5 151	12.5 151	12.5 151
35	**64.4** 129	**64.4** 129	**64.4** 130	**64.4** 130
	S 143	S 143	S 143	S 143
(NA)	12.5 150	12.5 150	12.5 150	12.5 150
37	**63.3** 128	**63.3** 128	**63.3** 129	**63.3** 129
	S 142	S 142	S 142	S 142
(31)	12.5 148	12.5 148	12.5 148	12.5 148
39	**62.4** 126	**62.4** 127	**62.4** 128	**62.4** 128
	S 141	S 141	S 141	S 141
(33)	12.5 147	12.5 147	12.5 147	12.5 147
41	**61.5** 126	**61.5** 126	**61.5** 127	**61.5** 127
	S 140	S 140	S 140	S 140
(34)	12.5 146	12.5 146	12.5 146	12.5 146
41	**61.0** 124	**61.0** 124	**61.0** 125	**61.0** 125
	139	139	139	139
	12.5 146	12.5 146	12.5 146	12.5 146
41	**59.0** 120	**59.0** 121	**59.0** 122	**59.0** 122
	136	136	136	136
	13.0 143	13.0 143	13.0 143	13.0 143
41	**57.0** 117	**57.0** 117	**57.0** 118	**57.0** 119
	133	133	133	133
	13.0 141	13.0 141	13.0 141	13.0 141
41	**55.0** 113 CK	**55.0** 114 CK	**55.0** 115	**55.0** 115
	131	131	131	131
	13.5 138	13.5 138	13.5 138	13.5 138
41	**53.0** 110 CK	**53.0** 111 CK	**53.0** 111 CK	**53.0** 112 CK
	128	128	128	128
	14.0 135	14.0 135	14.0 135	14.0 135
41	**51.0** 106 CK	**51.0** 107 CK	**51.0** 108 CK	**51.0** 108 CK
	125	125	125	125
	14.0 133	14.0 133	14.0 133	14.0 133
41	**49.0** 102 CK	**49.0** 103 CK	**49.0** 104 CK	**49.0** 104 CK
	122	122	122	122
	14.5 130	14.5 130	14.5 130	14.5 130

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	**64.5** F	**66.7** F	**67.4** S	**67.4** S	
-5	**63.8** F	**66.0** F	**67.4** S	**67.4** S	
0	**63.2** F	**65.4** F	**67.4** S	**67.4** S	
5	**62.6** F	**64.9** F	**67.2** F	**67.4** S	
10	**62.4** F	**64.6** F	**66.9** F	**67.3** S	15
15	**61.9** F	**64.1** F	**66.3** F	**67.3** S	
20	**55.7** G	**63.5** F	**65.8** F	**67.2** F	
25	**53.5** G	**63.0** F	**65.3** F	**66.6** F	
30	**52.4** G	**62.1** F	**64.4** F	**65.7** F	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 10482 ft (3195 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	WET	SSW 15	SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-2500	-2500		-4000
QNH < 1013 (kg/hPa)	-80	-80	-90		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

MXP17RN01 16010818 02 Apr 2009

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

ONE ENGINE OUT PROCEDURE :

- MAL/LOM or NOV/NDB 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: 767 ft
Length: 9859 ft (3005 m)
Slope: -0.59 %
Shift: 3002 ft (915 m)

Runway **17R**

Airport **LIMC - MXP**
MILAN Malpensa

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	**66.2** 140	**67.5**	**68.7**	**68.7**
	* 146	*	S	S
(NA)	13.5 154			
29	**66.1** 140	**67.4**	**68.6**	**68.6**
	* 146	*	S	S
(NA)	13.5 153			
31	**65.3** 139	**66.7** 141	**67.8**	**67.8**
	* 145	* 147	S	S
(NA)	13.5 153	13.5 154		
33	**64.4** 138	**65.7** 140	**66.7** 142	**66.7** 142
	* 144	* 146	S 147	S 147
(NA)	13.5 151	13.5 153	13.5 154	13.5 154
35	**63.4** 137	**64.7** 139	**65.6** 141	**65.6** 141
	* 143	* 145	S 146	S 146
(NA)	13.5 150	13.5 152	13.5 153	13.5 153
37	**62.4** 136	**63.7** 138	**64.4** 140	**64.4** 140
	* 142	* 144	S 144	S 144
(31)	13.5 149	13.5 151	13.5 151	13.5 151
39	**61.6** 135	**62.8** 137	**63.4** 139	**63.4** 139
	* 141	* 143	S 143	S 143
(33)	13.5 148	13.5 149	13.5 150	13.5 150
41	**60.9** 134	**62.1** 137	**62.6** 138	**62.6** 138
	* 140	* 142	S 142	S 142
(34)	13.5 147	13.5 149	13.5 149	13.5 149
43	**60.1** 134	**61.3** 136	**61.7** 137	**61.7** 137
	* 139	* 141	S 141	S 141
(36)	13.5 146	13.5 148	13.5 148	13.5 148
45	**59.3** 133	**60.5** 135	**60.8** 136	**60.8** 136
	* 139	* 140	S 140	S 140
(37)	13.5 145	13.5 147	13.5 147	13.5 147
47	**58.4** 132	**59.5** 134	**59.8** 135	**59.8** 135
	* 138	* 139	S 139	S 139
(39)	13.5 144	13.5 145	13.5 146	13.5 146
49	**57.6** 131	**58.7** 133	**58.8** 134	**58.8** 134
	* 137	* 138	S 138	S 138
(41)	13.5 143	13.5 144	13.5 144	13.5 144
49	**57.0** 129	**58.0** 131	**58.0** 132	**58.0** 132
	135	137	137	137
	14.0 142	13.5 143	13.5 143	13.5 143
49	**55.0** 126	**56.0** 128	**56.0** 129	**56.0** 129
	133	134	134	134
	14.0 140	14.0 141	14.0 141	14.0 141
49	**53.0** 123	**54.0** 125	**54.0** 126	**54.0** 126
	130	131	131	131
	14.5 137	14.0 138	14.0 138	14.0 138
49	**51.0** 120	**52.0** 122	**52.0** 122	**52.0** 123
	127	129	129	129
	14.5 134	14.5 136	14.5 136	14.5 136
49	**49.0** 117	**50.0** 119	**50.0** 119	**50.0** 120
	124	126	126	126
	15.0 132	15.0 133	15.0 133	15.0 133
49	**47.0** 113 CK	**48.0** 115	**48.0** 116	**48.0** 116
	121	123	123	123
	15.5 129	15.0 130	15.0 130	15.0 130
49	**45.0** 110 CK	**46.0** 112 CK	**46.0** 113 CK	**46.0** 113 CK
	118 CK	120	120	120
	15.5 126 CK	15.5 128 CK	15.5 128 CK	15.5 128 CK
49	**43.0** 106 CK	**44.0** 109 CK	**44.0** 109 CK	**44.0** 110 CK
	115 CK	117 CK	117 CK	117 CK
	16.0 123 CK	16.0 125 CK	16.0 125 CK	16.0 125 CK
49	**41.0** 103 CK	**42.0** 105 CK	**42.0** 106 CK	**42.0** 106 CK
	112 CK	114 CK	114 CK	114 CK
	16.0 120 CK	16.0 122 CK	16.0 122 CK	16.0 122 CK

OPTIMUM FLAP

OAT °C	9 / WIND (kt) -10	9 / WIND (kt) -5	8 / WIND (kt) 0	8 / WIND (kt) 10
-15	**68.9**	**70.1**	**71.2**	**71.2**
	*	*	S	S
-10	**68.5**	**69.8**	**71.1**	**71.1**
	*	*	S	S
-5	**68.2**	**69.6**	**71.0**	**71.1**
	*	*	*	S
0	**67.9**	**69.3**	**70.8**	**71.1**
	*	*	*	S
5	**67.6**	**69.0**	**70.5**	**71.0**
	*	*	*	S
10	**67.4**	**68.8**	**70.3**	**70.9**
	*	*	*	*
15	**67.1**	**68.5**	**70.0**	**70.7**
	*	*	*	*
20	**66.8** 143	**68.3**	**69.7**	**70.4**
	* 149	*	*	*
	13.5 157			
25	**66.5** 143	**68.0**	**69.4**	**70.2**
	* 149	*	*	*
	13.5 156			
27	**66.4** 143	**67.9**	**69.3**	**70.1**
	* 149	*	*	*
	13.5 156			
29	**66.3** 143	**67.8**	**69.2**	**69.9**
	* 149	*	*	*
	14.0 156			
31	**65.6** 142	**67.0** 144	**68.4**	**69.2**
	* 148	* 150	*	*
	14.0 155	13.5 157		
33	**64.6** 141	**66.0** 143	**67.4** 147	**68.1**
	* 147	* 149	* 152	*
	14.0 154	13.5 156	13.5 159	
35	**63.6** 140	**65.0** 142	**66.4** 146	**67.1** 147
	* 146	* 147	* 151	* 151
	14.0 153	13.5 154	13.5 158	13.5 159
37	**62.7** 139	**64.0** 141	**65.4** 145	**66.1** 146
	* 145	* 146	* 150	* 150
	14.0 151	13.5 153	13.5 157	13.5 157
	62.0 137	**62.0** 137	**65.0** 143	**66.0** 145
	143	143	149	150
	14.0 151	14.0 151	13.5 156	13.5 157
	60.0 134	**60.0** 134	**63.0** 140	**64.0** 142
	141	141	146	147
	14.5 148	14.5 148	14.0 153	14.0 155
	58.0 131	**58.0** 131	**61.0** 137	**62.0** 139
	138	138	143	145
	14.5 145	14.5 145	14.0 151	14.0 152
	56.0 128	**56.0** 128	**59.0** 134	**60.0** 136
	135	135	141	142
	15.0 143	15.0 143	14.5 148	14.5 150
	54.0 125	**54.0** 125	**57.0** 131	**58.0** 133
	133	133	138	139
	15.0 140	15.0 140	14.5 146	14.5 147
	52.0 121	**52.0** 122	**55.0** 128	**56.0** 130
	130	130	135	137
	15.5 138	15.5 138	15.0 143	15.0 144

T/O FROM PSN A

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

MILAN Malpensa 17R T/O FROM PSN A

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
115	-10	**64.9** 127	**66.2** 130		**67.3**		**67.4**	
117		* 143	* 144		*		S	
126	(NA)	12.5 150	12.5 152					
115	-5	**64.6** 127	**65.9** 130		**67.1**		**67.4**	
117		* 143	* 144		*		S	
126	(NA)	12.5 150	12.5 151					
115	0	**64.3** 127	**65.7** 129		**66.9**		**67.4**	
117		* 142	* 144		*		S	
126	(NA)	13.0 150	12.5 151					
115	5	**64.1** 126	**65.5** 129		**66.7**	132	**67.4**	
117		* 142	* 144		*	145	S	
126	(NA)	13.0 149	12.5 151		12.5	152		
115	10	**63.9** 126	**65.3** 129		**66.6**	131	**67.3**	
117		* 142	* 143		*	145	*	
126	(NA)	13.0 149	12.5 151		12.5	152		
115	15	**63.7** 125	**65.1** 128		**66.3**	131	**67.1**	
117		* 141	* 143		*	145	*	
126	(NA)	13.0 149	12.5 150		12.5	152		
115	20	**63.4** 125	**64.9** 128		**66.1**	131	**66.9**	
117		* 141	* 143		*	145	*	
126	(NA)	13.0 149	12.5 150		12.5	152		
115	25	**63.2** 125	**64.6** 128		**65.9**	130	**66.7**	132
117		* 141	* 143		*	144	*	145
126	(NA)	13.0 148	12.5 150		12.5	151	12.5	152
115	27	**63.1** 125	**64.5** 128		**65.8**	130	**66.6**	132
117		* 141	* 143		*	144	*	145
126	(NA)	13.0 148	12.5 150		12.5	151	12.5	152
115	29	**62.9** 124	**64.3** 127		**65.6**	130	**66.4**	131
117		* 141	* 142		*	144	*	145
126	(NA)	13.0 148	13.0 150		12.5	151	12.5	152
114	31	**62.2** 124	**63.5** 127		**64.9**	129	**65.7**	131
117		* 140	* 142		*	143	*	144
125	(NA)	13.0 147	13.0 149		12.5	150	12.5	151
113	33	**61.4** 123	**62.7** 126		**63.9**	128	**64.7**	130
116		* 139	* 141		*	142	*	143
124	(NA)	13.0 146	12.5 148		12.5	149	12.5	150
112	35	**60.6** 123	**61.9** 125		**63.0**	128	**63.8**	129
115		* 138	* 140		*	141	*	142
124	(NA)	13.0 145	12.5 147		12.5	148	12.5	149
112	37	**59.8** 122	**61.1** 125		**62.2**	127	**62.9**	128
115		* 137	* 139		*	140	*	141
123	(31)	13.0 144	12.5 146		12.5	147	12.5	148
111	39	**58.9** 121	**60.2** 124		**61.4**	126	**62.0**	127
114		* 136	* 138		*	139	*	140
122	(33)	13.0 143	12.5 145		12.5	146	12.5	147
110	41	**58.2** 120	**59.5** 123		**60.6**	125	**61.3**	127
113		* 135	* 137		*	138	*	139
121	(34)	13.0 142	12.5 144		12.5	145	12.5	146
	41	**58.0** 118	**59.0** 121		**60.0**	123	**61.0**	125
		135	136			137		139
		13.0 142	13.0 143		13.0	144	12.5	146
	41	**56.0** 115	**57.0** 117		**58.0**	120	**59.0**	122
		132	133			135		136
		13.5 139	13.0 141		13.0	142	13.0	143
	41	**54.0** 112 CK	**55.0** 114 CK		**56.0**	117	**57.0**	119
		129	131			132		133
		13.5 137	13.5 138		13.5	139	13.0	141
	41	**52.0** 108 CK	**53.0** 111 CK		**54.0**	113 CK	**55.0**	115
		127	128			129		131
		14.0 134	14.0 135		13.5	137	13.5	138
	41	**50.0** 104 CK	**51.0** 107 CK		**52.0**	109 CK	**53.0**	112 CK
		124	125			127		128
		14.5 131	14.0 133		14.0	134	14.0	135
	41	**48.0** 100 CK	**49.0** 103 CK		**50.0**	106 CK	**51.0**	108 CK
		121	122			124		125
		14.5 129	14.5 130		14.5	131	14.0	133
	41	**46.0** 97 CK	**47.0** 99 CK		**48.0**	102 CK	**49.0**	104 CK
		118	119			121		122
		15.0 126 CK	15.0 127		14.5	129	14.5	130

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		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10		FLAP
-10	**60.6**	*	**62.2**	*	**63.7**	*	**64.7**	*	15
-5	**60.3**	*	**61.8**	*	**63.4**	*	**64.4**	*	
0	**60.0**	*	**61.5**	*	**63.1**	*	**64.0**	*	
5	**57.7**	G	**61.2**	*	**62.8**	*	**63.7**	*	
10	**55.3**	G	**61.1**	*	**62.6**	*	**63.6**	*	
15	**53.3**	G	**60.7**	*	**62.4**	*	**63.3**	*	
20	**51.2**	G	**60.5**	*	**62.1**	*	**63.0**	*	
25	**49.0**	G	**60.2**	*	**61.8**	*	**62.7**	*	
30	**48.1**	G	**59.6**	*	**61.2**	*	**62.2**	*	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 12861 ft (3920 m)

FLAP		40		28		CLIMB LIMIT (Go-Around) OAT	W
RWY	COND	DRY	WET	DRY	WET	°C	(ton)
						-15	70.2
W	-10	75.0	75.0	75.0	75.0	27	70.2
I	-5	75.0	75.0	75.0	75.0	29	69.6
N	0	75.0	75.0	75.0	75.0	31	68.5
D	10	75.0	75.0	75.0	75.0	33	67.3
	20	75.0	75.0	75.0	75.0	35	66.4
						37	65.4

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	-2500	-1400		-4000
QNH < 1013 (kg/hPa)	-80	-80	-100		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

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

ONE ENGINE OUT PROCEDURE :

- MAL/LOM or NOV/NDB 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: 767 ft
Length: 12861 ft (3920 m)
Slope: +0.59 %
Shift: 0 ft (0 m)

Runway **35L**

Airport **LIMC - MXP**

MILAN Malpensa

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	**64.7**	141	**65.6**	142	**66.5**	144	**66.8**	
	*	145	*	146	*	147	*	
(NA)	14.0	152	13.5	153	13.5	154		
29	**64.7**	141	**65.6**	142	**66.4**	144	**66.8**	144
	*	145	*	146	*	147	*	147
(NA)	14.0	152	13.5	153	13.5	154	13.5	154
31	**63.9**	140	**64.8**	141	**65.7**	143	**66.0**	144
	*	144	*	145	*	146	*	146
(NA)	14.0	151	13.5	152	13.5	153	13.5	153
33	**62.9**	139	**63.7**	140	**64.6**	142	**65.0**	142
	*	143	*	144	*	145	*	145
(NA)	14.0	149	13.5	150	13.5	151	13.5	152
35	**61.9**	137	**62.7**	139	**63.5**	140	**63.9**	141
	*	142	*	143	*	144	*	144
(NA)	14.0	148	13.5	149	13.5	150	13.5	151
37	**60.9**	136	**61.7**	138	**62.5**	139	**62.8**	140
	*	140	*	142	*	142	*	143
(31)	14.0	147	13.5	148	13.5	149	13.5	149
39	**60.0**	135	**60.8**	137	**61.6**	138	**61.9**	139
	*	139	*	141	*	141	*	142
(33)	14.0	146	13.5	147	13.5	148	13.5	148
41	**59.2**	134	**60.0**	136	**60.8**	137	**61.1**	138
	*	139	*	140	*	141	*	141
(34)	14.0	145	13.5	146	13.5	147	13.5	147
43	**58.4**	134	**59.1**	135	**59.9**	137	**60.3**	137
	*	138	*	139	*	140	*	140
(36)	14.0	144	13.5	145	13.5	146	13.5	146
45	**57.6**	133	**58.3**	134	**59.0**	136	**59.4**	136
	*	137	*	138	*	139	*	139
(37)	14.0	143	13.5	144	13.5	145	13.5	145
47	**56.7**	132	**57.5**	133	**58.1**	135	**58.5**	135
	*	136	*	137	*	138	*	138
(39)	14.0	142	13.5	143	13.5	143	13.5	144
49	**55.8**	131	**56.6**	132	**57.2**	134	**57.6**	134
	*	135	*	136	*	137	*	137
(41)	14.0	140	13.5	141	13.5	142	13.5	143
49	**55.0**	129	**56.0**	131	**57.0**	133	**57.0**	133
		133		135		136		136
	14.0	139	14.0	141	14.0	142	14.0	142
49	**53.0**	125	**54.0**	127	**55.0**	129	**55.0**	130
		130		132		133		133
	14.5	137	14.0	138	14.0	139	14.0	139
49	**51.0**	122	**52.0**	124	**53.0**	126	**53.0**	127
		128		129		130		130
	15.0	134	14.5	135	14.5	137	14.5	137
49	**49.0**	119	**50.0**	121	**51.0**	123	**51.0**	123
		125		126		128		128
	15.0	131	15.0	133	15.0	134	15.0	134
49	**47.0**	115	**48.0**	118	**49.0**	120	**49.0**	120
		122		123		125		125
	15.5	129	15.5	130	15.0	131	15.0	131
49	**45.0**	112 CK	**46.0**	114 CK	**47.0**	116	**47.0**	117
		119 CK		120		122		122
	16.0	126 CK	15.5	127 CK	15.5	129	15.5	129
49	**43.0**	108 CK	**44.0**	111 CK	**45.0**	113 CK	**45.0**	113 CK
		116 CK		117 CK		119 CK		119 CK
	16.0	123 CK	16.0	125 CK	16.0	126 CK	16.0	126 CK
49	**41.0**	104 CK	**42.0**	107 CK	**43.0**	109 CK	**43.0**	110 CK
		112 CK		114 CK		116 CK		116 CK
	16.0	120 CK	16.0	122 CK	16.0	123 CK	16.0	123 CK
49			**40.0**	103 CK	**41.0**	106 CK	**41.0**	106 CK
				111 CK		112 CK		112 CK
			16.0	119 CK	16.0	120 CK	16.0	120 CK

OPTIMUM FLAP

4 3 3 3

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
-15	**68.5**		**69.9**		**70.9**		**71.3**	
	*		*		*		*	
-10	**68.4**		**69.8**		**70.8**		**71.2**	
	*		*		*		*	
-5	**68.3**		**69.6**		**70.7**		**71.1**	
	*		*		*		*	
0	**68.2**		**69.5**		**70.6**		**71.1**	
	*		*		*		*	
5	**68.1**		**69.4**		**70.5**		**71.0**	
	*		*		*		*	
10	**68.0**		**69.3**		**70.4**		**70.9**	
	*		*		*		*	
15	**67.9**		**69.2**		**70.3**		**70.8**	
	*		*		*		*	
20	**67.8**		**69.1**		**70.2**		**70.7**	
	*		*		*		*	
25	**67.7**		**69.0**		**70.0**		**70.6**	
	*		*		*		*	
27	**67.7**		**68.9**		**70.0**		**70.5**	
	*		*		*		*	
29	**67.6**		**68.9**		**69.9**		**70.5**	
	*		*		*		*	
31	**66.9**	158	**68.1**		**69.1**		**69.7**	
	*	162	*		*		*	
	13.0	168						
33	**65.8**	157	**67.0**	163	**68.0**		**68.5**	
	*	161	*	166	*		*	
	13.0	167	12.5	172				
35	**64.7**	156	**66.0**	162	**66.9**	163	**67.4**	164
	*	160	*	165	*	166	*	167
	13.0	166	12.5	171	12.5	172	12.5	173
37	**63.6**	154	**64.9**	160	**65.9**	162	**66.4**	163
	*	158	*	164	*	165	*	166
	13.0	164	12.5	170	12.5	171	12.5	172
	63.0	153	**64.0**	158	**65.0**	160	**66.0**	162
		157		162		164		165
	13.5	163	13.0	168	13.0	170	13.0	171
	61.0	149	**62.0**	155	**63.0**	157	**64.0**	159
		154		159		161		162
	13.5	160	13.0	165	13.0	167	13.0	168
	59.0	146	**60.0**	152	**61.0**	154	**62.0**	155
		151		156		158		159
	14.0	158	13.5	163	13.5	164	13.0	165
	57.0	143	**58.0**	148	**59.0**	150	**60.0**	152
		148		153		155		156
	14.0	155	14.0	160	13.5	161	13.5	163
	55.0	139	**56.0**	145	**57.0**	147	**58.0**	149
		145		150		152		153
	14.5	152	14.0	157	14.0	158	14.0	160
	53.0	136	**54.0**	141	**55.0**	143	**56.0**	145
		142		147		149		150
	15.0	149	14.5	154	14.0	156	14.0	157

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

MILAN Malpensa 35L

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		-5		0		10	
-10	**62.7**	128	**63.6**	130	**64.5**	132	**65.1**	133
	*	140	*	142	*	143	*	144
(NA)	13.0	148	13.0	149	13.0	150	12.5	150
-5	**62.6**	128	**63.5**	130	**64.5**	132	**65.0**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	149	13.0	150	12.5	150
0	**62.6**	128	**63.5**	130	**64.4**	132	**65.0**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	150	12.5	150
5	**62.5**	128	**63.4**	130	**64.4**	132	**65.0**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	150	12.5	150
10	**62.5**	128	**63.4**	130	**64.4**	132	**64.9**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	150	12.5	150
15	**62.4**	128	**63.3**	130	**64.3**	132	**64.9**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	12.5	150
20	**62.4**	128	**63.3**	130	**64.3**	132	**64.8**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	13.0	150
25	**62.3**	127	**63.2**	130	**64.2**	132	**64.8**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	12.5	150
27	**62.3**	127	**63.2**	130	**64.2**	132	**64.8**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	13.0	150
29	**62.2**	128	**63.2**	130	**64.1**	132	**64.7**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	13.0	150
31	**61.6**	127	**62.5**	129	**63.4**	131	**63.9**	132
	*	139	*	141	*	142	*	142
(NA)	13.0	146	13.0	147	13.0	148	13.0	149
33	**60.6**	126	**61.6**	128	**62.5**	130	**63.0**	131
	*	138	*	140	*	141	*	141
(NA)	13.0	145	13.0	146	13.0	147	13.0	148
35	**59.7**	125	**60.7**	127	**61.5**	129	**62.0**	131
	*	137	*	139	*	140	*	140
(NA)	13.0	144	13.0	145	13.0	146	13.0	147
37	**58.7**	124	**59.7**	126	**60.6**	128	**61.1**	130
	*	136	*	137	*	139	*	139
(31)	13.0	143	13.0	144	13.0	145	13.0	146
39	**57.9**	123	**58.8**	125	**59.7**	127	**60.2**	129
	*	135	*	136	*	138	*	138
(33)	13.0	142	13.0	143	13.0	144	13.0	145
41	**57.2**	122	**58.1**	124	**58.8**	126	**59.3**	128
	*	134	*	136	*	137	*	137
(34)	13.0	141	13.0	142	13.0	143	13.0	144
41	**57.0**	121	**58.0**	123	**58.0**	124	**59.0**	126
		134		135		135		137
	13.0	141	13.0	142	13.0	142	13.0	143
41	**55.0**	117	**56.0**	120	**56.0**	120	**57.0**	122
		131		132		132		134
	13.5	138	13.5	139	13.5	139	13.0	141
41	**53.0**	114 CK	**54.0**	116	**54.0**	117	**55.0**	119
		128		130		130		131
	14.0	135	13.5	137	13.5	137	13.5	138
41	**51.0**	110 CK	**52.0**	112 CK	**52.0**	113 CK	**53.0**	115
		126		127		127		128
	14.0	133	14.0	134	14.0	134	14.0	135
41	**49.0**	106 CK	**50.0**	109 CK	**50.0**	110 CK	**51.0**	112 CK
		123		124		124		126
	14.5	130	14.5	131	14.5	131	14.0	133
41	**47.0**	102 CK	**48.0**	105 CK	**48.0**	106 CK	**49.0**	108 CK
		120		121		121		123
	15.0	127	14.5	128	14.5	128	14.5	130
41	**45.0**	98 CK	**46.0**	101 CK	**46.0**	102 CK	**47.0**	104 CK
		116 CK		118		118		120
	15.5	124 CK	15.0	126 CK	15.0	126 CK	15.0	127

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	**61.6** *	**62.7** *	**63.6** *	**64.3** *	
-5	**61.5** *	**62.6** *	**63.6** *	**64.2** *	
0	**61.5** *	**62.5** *	**63.5** *	**64.1** *	
5	**61.4** *	**62.4** *	**63.4** *	**64.0** *	
10	**61.3** *	**62.4** *	**63.4** *	**64.0** *	15
15	**61.2** *	**62.3** *	**63.3** *	**63.9** *	
20	**61.2** *	**62.2** *	**63.2** *	**63.8** *	
25	**61.1** *	**62.2** *	**63.2** *	**63.8** *	
30	**60.8** *	**61.9** *	**62.9** *	**63.4** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 11532 ft (3515 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-2300	-2200		-4000
QNH < 1013 (kg/hPa)	-80	-80	-60		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

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

ONE ENGINE OUT PROCEDURE :

- At 1300 ft QNH, left turn to MAL/LOM or NOV/NDB.
- Acceleration altitude: 2200 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: 767 ft
Length: 11860 ft (3615 m)
Slope: +0.59 %
Shift: 0 ft (0 m)

Runway **35L**

Airport **LIMC - MXP**
MILAN Malpensa

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	**64.7**	141	**65.6**	142	**66.5**	144	**66.8**	
	*	145	*	146	*	147	*	
(NA)	14.0	152	13.5	153	13.5	154		
29	**64.7**	141	**65.6**	142	**66.4**	144	**66.8**	144
	*	145	*	146	*	147	*	147
(NA)	14.0	152	13.5	153	13.5	154	13.5	154
31	**63.9**	140	**64.8**	141	**65.7**	143	**66.1**	144
	*	144	*	145	*	146	*	146
(NA)	14.0	151	13.5	152	13.5	153	13.5	153
33	**62.9**	139	**63.7**	140	**64.6**	142	**65.0**	142
	*	143	*	144	*	145	*	145
(NA)	14.0	149	13.5	150	13.5	151	13.5	152
35	**61.9**	137	**62.7**	139	**63.5**	140	**63.9**	141
	*	142	*	143	*	144	*	144
(NA)	14.0	148	13.5	149	13.5	150	13.5	151
37	**60.9**	136	**61.7**	138	**62.5**	139	**62.8**	140
	*	140	*	141	*	142	*	143
(31)	14.0	147	13.5	148	13.5	149	13.5	149
39	**60.0**	135	**60.8**	137	**61.6**	138	**61.9**	139
	*	139	*	141	*	141	*	142
(33)	14.0	146	13.5	147	13.5	148	13.5	148
41	**59.2**	134	**60.0**	136	**60.8**	137	**61.1**	138
	*	139	*	140	*	141	*	141
(34)	14.0	145	13.5	146	13.5	147	13.5	147
43	**58.4**	134	**59.1**	135	**59.9**	137	**60.3**	137
	*	138	*	139	*	140	*	140
(36)	14.0	144	13.5	145	13.5	146	13.5	146
45	**57.6**	133	**58.4**	134	**59.0**	136	**59.4**	136
	*	137	*	138	*	139	*	139
(37)	14.0	143	13.5	144	13.5	145	13.5	145
47	**56.7**	132	**57.5**	133	**58.1**	135	**58.5**	135
	*	136	*	137	*	138	*	138
(39)	14.0	142	13.5	143	13.5	143	13.5	144
49	**55.8**	131	**56.6**	132	**57.3**	134	**57.6**	134
	*	135	*	136	*	137	*	137
(41)	14.0	140	13.5	141	13.5	142	13.5	143
49	**55.0**	129	**56.0**	131	**57.0**	133	**57.0**	133
		133		135		136		136
	14.0	139	14.0	141	14.0	142	14.0	142
49	**53.0**	125	**54.0**	127	**55.0**	129	**55.0**	130
		130		132		133		133
	14.5	137	14.0	138	14.0	139	14.0	139
49	**51.0**	122	**52.0**	124	**53.0**	126	**53.0**	127
		128		129		130		130
	15.0	134	14.5	135	14.5	137	14.5	137
49	**49.0**	119	**50.0**	121	**51.0**	123	**51.0**	123
		125		126		128		128
	15.0	131	15.0	133	15.0	134	15.0	134
49	**47.0**	115	**48.0**	118	**49.0**	120	**49.0**	120
		122		123		125		125
	15.5	129	15.5	130	15.0	131	15.0	131
49	**45.0**	112 CK	**46.0**	114 CK	**47.0**	116	**47.0**	117
		119 CK		120		122		122
	16.0	126 CK	15.5	127 CK	15.5	129	15.5	129
49	**43.0**	108 CK	**44.0**	111 CK	**45.0**	113 CK	**45.0**	113 CK
		116 CK		117 CK		119 CK		119 CK
	16.0	123 CK	16.0	125 CK	16.0	126 CK	16.0	126 CK
49	**41.0**	104 CK	**42.0**	107 CK	**43.0**	109 CK	**43.0**	110 CK
		112 CK		114 CK		116 CK		116 CK
	16.0	120 CK	16.0	122 CK	16.0	123 CK	16.0	123 CK
49			**40.0**	103 CK	**41.0**	106 CK	**41.0**	106 CK
				111 CK		112 CK		112 CK
			16.0	119 CK	16.0	120 CK	16.0	120 CK

OPTIMUM FLAP

5	4	4	4

OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
-15	**68.2**		**69.6**		**70.6**		**71.0**	
	*		*		*		*	
-10	**68.1**		**69.5**		**70.5**		**70.9**	
	*		*		*		*	
-5	**68.0**		**69.4**		**70.4**		**70.8**	
	*		*		*		*	
0	**67.9**		**69.3**		**70.3**		**70.8**	
	*		*		*		*	
5	**67.8**		**69.2**		**70.2**		**70.7**	
	*		*		*		*	
10	**67.8**		**69.1**		**70.1**		**70.6**	
	*		*		*		*	
15	**67.7**		**69.0**		**70.0**		**70.5**	
	*		*		*		*	
20	**67.6**		**68.9**		**69.9**		**70.4**	
	*		*		*		*	
25	**67.5**		**68.8**		**69.8**		**70.3**	
	*		*		*		*	
27	**67.5**		**68.8**		**69.8**		**70.3**	
	*		*		*		*	
29	**67.4**		**68.7**		**69.7**		**70.2**	
	*		*		*		*	
31	**66.7**	154	**67.9**		**68.9**		**69.4**	
	*	158	*		*		*	
	13.5	165						
33	**65.6**	153	**66.9**	159	**67.8**		**68.3**	
	*	157	*	162	*		*	
	13.5	163	13.0	168				
35	**64.5**	152	**65.8**	158	**66.7**	159	**67.2**	160
	*	156	*	161	*	162	*	163
	13.5	162	13.0	167	13.0	168	13.0	169
37	**63.4**	151	**64.7**	156	**65.7**	158	**66.1**	159
	*	155	*	160	*	161	*	162
	13.5	161	13.0	166	13.0	167	13.0	167
	63.0	149	**64.0**	154	**65.0**	156	**66.0**	158
		154		158		160		161
	13.5	160	13.5	164	13.0	166	13.0	167
	61.0	146	**62.0**	151	**63.0**	153	**64.0**	155
		151		156		157		158
	14.0	157	13.5	162	13.5	163	13.5	164
	59.0	143	**60.0**	148	**61.0**	150	**62.0**	152
		148		153		154		156
	14.0	154	14.0	159	13.5	160	13.5	162
	57.0	140	**58.0**	145	**59.0**	147	**60.0**	148
		145		150		151		153
	14.5	152	14.0	156	14.0	158	14.0	159
	55.0	136	**56.0**	141	**57.0**	143	**58.0**	145
		142		147		148		150
	15.0	149	14.5	153	14.0	155	14.0	156
	53.0	133	**54.0**	138	**55.0**	140	**56.0**	142
		139		144		145		147
	15.0	146	14.5	151	14.5	152	14.5	153

BASED ON 3615 M FROM RWY HEAD

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

MILAN Malpensa 35L BASED ON 3615 M FROM RWY HEAD

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		-5		0		10	
-10	**62.7**	128	**63.6**	130	**64.5**	132	**65.1**	133
	*	140	*	142	*	143	*	144
(NA)	13.0	148	13.0	149	13.0	150	12.5	150
-5	**62.6**	128	**63.5**	130	**64.5**	132	**65.1**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	149	13.0	150	12.5	150
0	**62.6**	128	**63.5**	130	**64.4**	132	**65.0**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	150	12.5	150
5	**62.5**	128	**63.4**	130	**64.4**	132	**65.0**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	150	12.5	150
10	**62.5**	128	**63.4**	130	**64.4**	132	**64.9**	133
	*	140	*	142	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	150	12.5	150
15	**62.4**	128	**63.3**	130	**64.3**	132	**64.9**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	12.5	150
20	**62.4**	128	**63.3**	130	**64.3**	132	**64.8**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	13.0	150
25	**62.3**	127	**63.3**	130	**64.2**	132	**64.8**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	12.5	150
27	**62.3**	127	**63.2**	130	**64.2**	132	**64.8**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	13.0	150
29	**62.2**	128	**63.2**	130	**64.1**	132	**64.7**	133
	*	140	*	141	*	143	*	143
(NA)	13.0	147	13.0	148	13.0	149	13.0	150
31	**61.6**	127	**62.5**	129	**63.4**	131	**63.9**	132
	*	139	*	141	*	142	*	142
(NA)	13.0	146	13.0	147	13.0	148	13.0	149
33	**60.6**	126	**61.6**	128	**62.5**	130	**63.0**	131
	*	138	*	140	*	141	*	141
(NA)	13.0	145	13.0	146	13.0	147	13.0	148
35	**59.7**	125	**60.7**	127	**61.5**	129	**62.0**	131
	*	137	*	139	*	140	*	140
(NA)	13.0	144	13.0	145	13.0	146	13.0	147
37	**58.7**	124	**59.7**	126	**60.6**	128	**61.1**	130
	*	136	*	137	*	139	*	139
(31)	13.0	143	13.0	144	13.0	145	13.0	146
39	**57.9**	123	**58.8**	125	**59.7**	127	**60.2**	128
	*	135	*	136	*	138	*	138
(33)	13.0	142	13.0	143	13.0	144	13.0	145
41	**57.2**	122	**58.1**	124	**58.8**	126	**59.3**	128
	*	134	*	136	*	137	*	137
(34)	13.0	141	13.0	142	13.0	143	13.0	144
41	**57.0**	121	**58.0**	123	**58.0**	124	**59.0**	126
		134		135		135		137
	13.0	141	13.0	142	13.0	142	13.0	143
41	**55.0**	117	**56.0**	120	**56.0**	120	**57.0**	122
		131		132		132		134
	13.5	138	13.5	139	13.5	139	13.0	141
41	**53.0**	114 CK	**54.0**	116	**54.0**	117	**55.0**	119
		128		130		130		131
	14.0	135	13.5	137	13.5	137	13.5	138
41	**51.0**	110 CK	**52.0**	112 CK	**52.0**	113 CK	**53.0**	115
		126		127		127		128
	14.0	133	14.0	134	14.0	134	14.0	135
41	**49.0**	106 CK	**50.0**	109 CK	**50.0**	110 CK	**51.0**	112 CK
		123		124		124		126
	14.5	130	14.5	131	14.5	131	14.0	133
41	**47.0**	102 CK	**48.0**	105 CK	**48.0**	106 CK	**49.0**	108 CK
		120		121		121		123
	15.0	127	14.5	128	14.5	128	14.5	130
41	**45.0**	98 CK	**46.0**	101 CK	**46.0**	102 CK	**47.0**	104 CK
		116 CK		118		118		120
	15.5	124 CK	15.0	126 CK	15.0	126 CK	15.0	127

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	**61.6** *	**62.7** *	**63.6** *	**64.3** *	
-5	**61.5** *	**62.6** *	**63.6** *	**64.2** *	
0	**61.5** *	**62.5** *	**63.5** *	**64.1** *	
5	**61.4** *	**62.4** *	**63.4** *	**64.0** *	
10	**61.3** *	**62.4** *	**63.4** *	**64.0** *	15
15	**61.2** *	**62.3** *	**63.3** *	**63.9** *	
20	**61.2** *	**62.3** *	**63.2** *	**63.8** *	
25	**61.1** *	**62.2** *	**63.2** *	**63.8** *	
30	**60.8** *	**61.9** *	**62.9** *	**63.4** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 10531 ft (3210 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-2400	-2200		-4000
QNH < 1013 (kg/hPa)	-80	-80	-60		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

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

ONE ENGINE OUT PROCEDURE :

- At 1300 ft QNH, left turn to MAL/LOM or NOV/NDB.
- Acceleration altitude: 2200 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: 767 ft
Length: 11532 ft (3515 m)
Slope: +0.59 %
Shift: 1329 ft (405 m)

Runway **35L**

Airport **LIMC - MXP**
MILAN Malpensa

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

T/O FROM PSN A

VMCG / VRMIN / V2MIN	OAT °C	WIND (kt) -10	-5	0	10
115	27	**64.2** 140	**65.1** 141	**66.0** 143	**66.4** 144
119		* 144	* 145	* 146	* 147
128	(NA)	14.0 151	13.5 152	13.5 153	13.5 154
115	29	**64.1** 140	**65.1** 141	**65.9** 143	**66.3** 144
119		* 144	* 145	* 146	* 147
128	(NA)	14.0 151	13.5 152	13.5 153	13.5 154
114	31	**63.4** 139	**64.3** 141	**65.2** 142	**65.6** 143
118		* 143	* 144	* 145	* 146
127	(NA)	14.0 150	13.5 151	13.5 152	13.5 153
113	33	**62.4** 138	**63.2** 139	**64.1** 141	**64.5** 142
118		* 142	* 143	* 144	* 145
127	(NA)	14.0 149	13.5 150	13.5 151	13.5 151
113	35	**61.4** 137	**62.3** 138	**63.0** 140	**63.4** 140
117		* 141	* 142	* 143	* 143
126	(NA)	14.0 147	13.5 149	13.5 149	13.5 150
112	37	**60.4** 136	**61.3** 137	**62.0** 139	**62.4** 139
116		* 140	* 141	* 142	* 142
125	(31)	14.0 146	14.0 147	13.5 148	13.5 149
111	39	**59.5** 135	**60.4** 136	**61.2** 138	**61.5** 138
116		* 139	* 140	* 141	* 141
124	(33)	14.0 145	14.0 146	13.5 147	13.5 148
110	41	**58.7** 134	**59.5** 135	**60.3** 137	**60.7** 138
115		* 138	* 139	* 140	* 140
123	(34)	14.0 144	14.0 145	13.5 146	13.5 147
109	43	**57.9** 133	**58.7** 134	**59.5** 136	**59.9** 137
114		* 137	* 138	* 139	* 140
123	(36)	14.0 143	14.0 144	13.5 145	13.5 146
109	45	**57.1** 132	**57.9** 134	**58.6** 135	**59.0** 136
113		* 136	* 137	* 138	* 139
122	(37)	14.0 142	14.0 143	13.5 144	13.5 144
108	47	**56.2** 131	**57.0** 133	**57.8** 134	**58.1** 135
112		* 135	* 136	* 137	* 137
121	(39)	14.0 141	14.0 142	13.5 143	13.5 143
107	49	**55.3** 130	**56.1** 132	**56.8** 133	**57.2** 134
112		* 134	* 135	* 136	* 136
120	(41)	14.0 140	14.0 141	13.5 142	13.5 142
	49	**55.0** 129	**56.0** 131	**56.0** 131	**57.0** 133
		133	135	135	136
		14.0 139	14.0 141	14.0 141	14.0 142
	49	**53.0** 125	**54.0** 127	**54.0** 128	**55.0** 130
		130	132	132	133
		14.5 137	14.0 138	14.0 138	14.0 139
	49	**51.0** 122	**52.0** 124	**52.0** 125	**53.0** 127
		128	129	129	130
		15.0 134	14.5 135	14.5 135	14.5 137
	49	**49.0** 119	**50.0** 121	**50.0** 121	**51.0** 123
		125	126	126	128
		15.0 131	15.0 133	15.0 133	15.0 134
	49	**47.0** 115	**48.0** 118	**48.0** 118	**49.0** 120
		122	123	123	125
		15.5 129	15.5 130	15.5 130	15.0 131
	49	**45.0** 112 CK	**46.0** 114 CK	**46.0** 115 CK	**47.0** 117
		119 CK	120	120	122
		16.0 126 CK	15.5 127 CK	15.5 127 CK	15.5 129
	49	**43.0** 108 CK	**44.0** 111 CK	**44.0** 111 CK	**45.0** 113 CK
		116 CK	117 CK	117 CK	119 CK
		16.0 123 CK	16.0 125 CK	16.0 125 CK	16.0 126 CK
	49	**41.0** 104 CK	**42.0** 107 CK	**42.0** 108 CK	**43.0** 110 CK
		112 CK	114 CK	114 CK	116 CK
		16.0 120 CK	16.0 122 CK	16.0 122 CK	16.0 123 CK
	49		**40.0** 103 CK	**40.0** 104 CK	**41.0** 106 CK
			111 CK	111 CK	112 CK
			16.0 119 CK	16.0 119 CK	16.0 120 CK

OPTIMUM FLAP

OAT °C	5 WIND (kt) -10	4 -5	4 0	4 10
-15	**67.6**	**69.0**	**70.0**	**70.4**
	*	*	*	*
-10	**67.5**	**68.8**	**69.9**	**70.4**
	*	*	*	*
-5	**67.4**	**68.7**	**69.8**	**70.3**
	*	*	*	*
0	**67.3**	**68.6**	**69.7**	**70.2**
	*	*	*	*
5	**67.2**	**68.5**	**69.6**	**70.1**
	*	*	*	*
10	**67.1**	**68.4**	**69.5**	**70.0**
	*	*	*	*
15	**67.0**	**68.3**	**69.4**	**69.9**
	*	*	*	*
20	**66.9**	**68.2**	**69.3**	**69.8**
	*	*	*	*
25	**66.8**	**68.1**	**69.2**	**69.7**
	*	*	*	*
27	**66.8**	**68.1**	**69.1**	**69.7**
	*	*	*	*
29	**66.7** 154	**68.0**	**69.1**	**69.6**
	* 158	*	*	*
	13.5 165			
31	**66.0** 153	**67.3** 159	**68.3**	**68.8**
	* 157	* 163	*	*
	13.5 164	13.0 169		
33	**64.9** 152	**66.2** 158	**67.2** 159	**67.7** 160
	* 156	* 161	* 163	* 163
	13.5 162	13.0 168	13.0 169	13.0 170
35	**63.8** 151	**65.1** 156	**66.1** 158	**66.6** 159
	* 155	* 160	* 161	* 162
	13.5 161	13.0 166	13.0 167	13.0 168
37	**62.8** 150	**64.0** 155	**65.1** 157	**65.6** 158
	* 154	* 159	* 160	* 161
	13.5 160	13.0 165	13.0 166	13.0 167
	62.0 148	**62.0** 151	**65.0** 156	**65.0** 156
	152	156	160	160
	14.0 158	13.5 162	13.0 166	13.0 166
	60.0 144	**60.0** 148	**63.0** 153	**63.0** 153
	149	153	157	157
	14.0 156	14.0 159	13.5 163	13.5 163
	58.0 141	**58.0** 145	**61.0** 150	**61.0** 150
	147	150	154	154
	14.5 153	14.0 156	13.5 160	13.5 160
	56.0 138	**56.0** 141	**59.0** 147	**59.0** 147
	144	147	151	151
	14.5 150	14.5 153	14.0 158	14.0 158
	54.0 134	**54.0** 138	**57.0** 143	**57.0** 143
	141	144	148	148
	15.0 148	14.5 151	14.0 155	14.0 155
	52.0 131	**52.0** 134	**55.0** 140	**55.0** 140
	137	141	145	145
	15.5 145	15.0 148	14.5 152	14.5 152

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

MILAN Malpensa 35L T/O FROM PSN A

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10		-5		0		10	
115	-10	**62.1**	127	**63.1**	129	**64.0**	131	**64.6**	133
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	-5	**62.1**	127	**63.0**	129	**64.0**	131	**64.6**	133
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	0	**62.0**	127	**63.0**	129	**63.9**	131	**64.5**	133
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	5	**62.0**	127	**62.9**	129	**63.8**	131	**64.4**	133
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	10	**61.9**	127	**62.9**	129	**63.8**	131	**64.4**	132
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	15	**61.9**	127	**62.9**	129	**63.8**	131	**64.4**	132
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	147	13.0	148	13.0	149	13.0	150
115	20	**61.8**	127	**62.8**	129	**63.7**	131	**64.3**	132
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	146	13.0	148	13.0	149	13.0	149
115	25	**61.8**	127	**62.8**	129	**63.6**	131	**64.2**	132
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	146	13.0	148	13.0	149	13.0	149
115	27	**61.7**	127	**62.7**	129	**63.6**	131	**64.2**	132
117		*	140	*	141	*	142	*	143
126	(NA)	13.0	146	13.0	148	13.0	149	13.0	149
115	29	**61.7**	127	**62.7**	129	**63.5**	131	**64.2**	132
117		*	139	*	141	*	142	*	143
126	(NA)	13.0	146	13.0	148	13.0	149	13.0	149
114	31	**61.0**	126	**62.0**	128	**62.9**	130	**63.4**	131
117		*	139	*	140	*	141	*	142
125	(NA)	13.0	146	13.0	147	13.0	148	13.0	148
113	33	**60.1**	125	**61.1**	127	**62.0**	129	**62.5**	131
116		*	138	*	139	*	140	*	141
124	(NA)	13.0	144	13.0	146	13.0	147	13.0	147
112	35	**59.1**	124	**60.1**	126	**61.0**	129	**61.6**	130
115		*	137	*	138	*	139	*	140
124	(NA)	13.0	143	13.0	144	13.0	146	13.0	146
112	37	**58.2**	123	**59.1**	125	**60.1**	128	**60.6**	129
115		*	136	*	137	*	138	*	139
123	(31)	13.0	142	13.0	143	13.0	144	13.0	145
111	39	**57.4**	122	**58.3**	124	**59.2**	126	**59.7**	128
114		*	135	*	136	*	137	*	138
122	(33)	13.0	141	13.0	142	13.0	143	13.0	144
110	41	**56.7**	121	**57.6**	124	**58.4**	126	**58.9**	127
113		*	134	*	135	*	136	*	137
121	(34)	13.0	140	13.0	141	13.0	142	13.0	143
	41	**56.0**	119	**57.0**	121	**58.0**	124	**58.0**	124
			132		134		135		135
		13.5	139	13.0	141	13.0	142	13.0	142
	41	**54.0**	116	**55.0**	118	**56.0**	120	**56.0**	121
			130		131		132		132
		13.5	137	13.5	138	13.5	139	13.5	139
	41	**52.0**	112 CK	**53.0**	114 CK	**54.0**	117	**54.0**	117
			127		128		130		130
		14.0	134	14.0	135	13.5	137	13.5	137
	41	**50.0**	108 CK	**51.0**	111 CK	**52.0**	113 CK	**52.0**	114 CK
			124		126		127		127
		14.5	131	14.0	133	14.0	134	14.0	134
	41	**48.0**	104 CK	**49.0**	107 CK	**50.0**	110 CK	**50.0**	110 CK
			121		123		124		124
		14.5	128	14.5	130	14.5	131	14.5	131
	41	**46.0**	100 CK	**47.0**	103 CK	**48.0**	106 CK	**48.0**	106 CK
			118		120		121		121
		15.0	126 CK	15.0	127	14.5	128	14.5	128
	41	**44.0**	96 CK	**45.0**	99 CK	**46.0**	102 CK	**46.0**	103 CK
			115 CK		116 CK		118		118
		15.5	123 CK	15.5	124 CK	15.0	126 CK	15.0	126 CK

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

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	**61.0** *	**62.1** *	**63.1** *	**63.7** *	15
-5	**60.9** *	**62.0** *	**63.0** *	**63.6** *	
0	**60.8** *	**61.9** *	**62.9** *	**63.5** *	
5	**60.7** *	**61.9** *	**62.9** *	**63.4** *	
10	**60.7** *	**61.8** *	**62.8** *	**63.4** *	
15	**60.6** *	**61.7** *	**62.8** *	**63.3** *	
20	**60.5** *	**61.7** *	**62.7** *	**63.2** *	
25	**60.4** *	**61.6** *	**62.6** *	**63.2** *	
30	**60.1** *	**61.2** *	**62.3** *	**62.9** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 11532 ft (3515 m)

FLAP		40		28	
RWY	COND	DRY	WET	DRY	WET
W	-10	75.0	75.0	75.0	75.0
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	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-2300	-2000		-4000
QNH < 1013 (kg/hPa)	-80	-80	-60		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa : 28					

MXP35LT02 25100609 02 Apr 2009

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

ONE ENGINE OUT PROCEDURE :

- At 1300 ft QNH, left turn to MAL/LOM or NOV/NDB.
- Acceleration altitude: 2200 ft QNH

Alitalia
Compagnia Aerea Italiana
MD80 OPERATIONS MANUAL

Elev: 767 ft
Length: 8366 ft (2550 m)
Slope: +0.59 %
Shift: 4495 ft (1370 m)

Runway **35L**

Airport **LIMC - MXP**
MILAN Malpensa

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

OPTIMUM FLAP: 11 / 10 / 8 / 8

T/O FROM PSN 'B'

VMCG / VRMIN / V2MIN	OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
115 / 119 / 128	27	**62.1** 137 F 141 14.0 148	**63.6** 139 * 143 14.0 150	**64.6** 141 * 145 14.0 151	**65.0** 142 * 145 13.5 152
115 / 119 / 128	29	**61.9** 136 F 141 14.0 148	**63.5** 139 * 143 14.0 150	**64.5** 141 * 144 14.0 151	**65.0** 142 * 145 13.5 152
114 / 118 / 127	31	**61.3** 136 F 140 14.0 147	**62.8** 138 * 142 14.0 149	**63.8** 140 * 144 14.0 150	**64.2** 141 * 144 13.5 151
113 / 118 / 127	33	**60.4** 135 F 140 14.0 146	**61.9** 137 * 141 14.0 148	**62.7** 139 * 142 14.0 149	**63.2** 140 * 143 14.0 150
113 / 117 / 126	35	**59.6** 134 F 139 14.0 145	**60.9** 136 * 140 14.0 147	**61.8** 138 * 141 14.0 148	**62.2** 139 * 142 14.0 148
112 / 116 / 125	37	**58.8** 133 F 138 14.0 144	**59.9** 135 * 139 14.0 146	**60.8** 137 * 140 14.0 147	**61.2** 138 * 141 14.0 147
111 / 116 / 124	39	**58.1** 132 * 137 14.0 143	**59.0** 134 * 138 14.0 144	**59.9** 136 * 139 14.0 146	**60.3** 137 * 140 14.0 146
110 / 115 / 123	41	**57.3** 132 * 136 14.0 142	**58.2** 133 * 137 14.0 144	**59.0** 135 * 138 14.0 145	**59.5** 136 * 139 14.0 145
109 / 114 / 123	43	**56.6** 131 * 135 14.0 141	**57.5** 133 * 136 14.0 143	**58.3** 134 * 137 14.0 144	**58.6** 135 * 138 14.0 144
109 / 113 / 122	45	**55.8** 130 * 134 14.0 140	**56.7** 132 * 135 14.0 142	**57.5** 133 * 137 14.0 143	**57.9** 134 * 137 14.0 143
108 / 112 / 121	47	**54.9** 129 * 133 14.0 139	**55.8** 131 * 134 14.0 140	**56.6** 132 * 136 14.0 141	**57.0** 133 * 136 14.0 142
107 / 112 / 120	49	**54.0** 128 * 132 14.0 138	**54.9** 130 * 133 14.0 139	**55.7** 131 * 134 14.0 140	**56.1** 132 * 135 14.0 141
	49	**52.0** 124 129 14.5 135	**54.0** 127 132 14.0 138	**55.0** 129 133 14.0 139	**56.0** 131 135 14.0 141
	49	**50.0** 120 126 15.0 133	**52.0** 124 129 14.5 135	**53.0** 126 130 14.5 137	**54.0** 128 132 14.0 138
	49	**48.0** 117 123 15.5 130	**50.0** 121 126 15.0 133	**51.0** 123 128 15.0 134	**52.0** 125 129 14.5 135
	49	**46.0** 114 CK 120 15.5 127 CK	**48.0** 118 123 15.5 130	**49.0** 120 125 15.0 131	**50.0** 122 126 15.0 133
	49	**44.0** 110 CK 117 CK 16.0 125 CK	**46.0** 114 CK 120 15.5 127 CK	**47.0** 116 122 15.5 129	**48.0** 118 123 15.5 130
	49	**42.0** 106 CK 114 CK 16.0 122 CK	**44.0** 111 CK 117 CK 16.0 125 CK	**45.0** 113 CK 119 CK 16.0 126 CK	**46.0** 115 120 15.5 127 CK
	49	**40.0** 103 CK 111 CK 16.0 119 CK	**42.0** 107 CK 114 CK 16.0 122 CK	**43.0** 109 CK 116 CK 16.0 123 CK	**44.0** 112 CK 117 CK 16.0 125 CK
	49		**40.0** 103 CK 111 CK 16.0 119 CK	**41.0** 106 CK 112 CK 16.0 120 CK	**42.0** 108 CK 114 CK 16.0 122 CK
	49				**40.0** 104 CK 111 CK 16.0 119 CK

OAT °C	WIND (kt) -10	WIND (kt) -5	WIND (kt) 0	WIND (kt) 10
-15	**63.2** 138 * 143 14.0 150	**64.9** 142 * 146 14.0 153	**66.8** * 	**67.2** *
-10	**63.2** 138 * 143 14.0 150	**64.8** 142 * 146 14.0 153	**66.7** 148 * 151 13.5 158	**67.2** *
-5	**63.1** 138 * 143 14.0 150	**64.7** 142 * 146 14.0 153	**66.6** 147 * 151 14.0 158	**67.1** *
0	**63.0** 138 * 142 14.0 149	**64.6** 142 * 145 14.0 153	**66.5** 147 * 151 14.0 158	**67.0** *
5	**62.9** 138 * 142 14.0 149	**64.5** 142 * 145 14.0 152	**66.5** 147 * 151 14.0 158	**66.9** *
10	**62.9** 138 * 142 14.0 149	**64.4** 141 * 145 14.0 152	**66.4** 147 * 151 14.0 158	**66.9** *
15	**62.8** 138 * 142 14.0 149	**64.4** 141 * 145 14.0 152	**66.1** 147 F 150 14.0 157	**66.8** *
20	**62.7** 138 * 142 14.0 149	**64.3** 141 * 145 14.0 152	**65.6** 146 F 150 14.0 157	**66.7** 148 * 151 13.5 158
25	**62.3** 137 F 142 14.0 149	**64.0** 141 F 145 14.0 152	**65.1** 145 F 149 14.0 156	**66.3** 147 F 150 14.0 157
27	**62.1** 137 F 141 14.0 148	**63.8** 141 F 145 14.0 152	**64.9** 145 F 149 14.0 156	**66.1** 147 F 150 14.0 157
29	**61.9** 136 F 141 14.0 148	**63.6** 140 F 144 14.0 151	**64.7** 145 F 148 14.0 155	**65.8** 147 F 150 14.0 157
31	**61.3** 136 F 140 14.0 147	**62.9** 140 F 144 14.0 150	**64.0** 144 F 148 14.0 155	**65.2** 146 F 149 14.0 156
33	**60.4** 135 F 140 14.0 146	**62.1** 139 F 143 14.0 149	**63.2** 143 F 147 14.0 154	**64.3** 145 F 148 14.0 155
35	**59.6** 134 F 139 14.0 145	**61.2** 138 F 142 14.0 148	**62.3** 142 F 146 14.0 152	**63.4** 144 F 147 14.0 154
37	**58.8** 133 F 138 14.0 144	**60.4** 137 * 141 14.0 147	**61.5** 141 F 145 14.0 151	**62.5** 143 F 146 14.0 153
	58.0 131 136 14.5 143	**60.0** 136 140 14.0 147	**61.0** 140 144 14.0 151	**62.0** 142 145 14.0 152
	56.0 128 134 14.5 141	**58.0** 133 137 14.5 144	**59.0** 137 141 14.5 148	**60.0** 139 143 14.5 149
	54.0 125 131 15.0 138	**56.0** 129 135 15.0 142	**57.0** 134 138 14.5 146	**58.0** 136 140 14.5 147
	52.0 122 128 15.5 135	**54.0** 126 132 15.0 139	**55.0** 131 136 15.0 143	**56.0** 132 137 15.0 144
	50.0 118 125 15.5 133	**52.0** 123 129 15.5 136	**53.0** 127 133 15.5 140	**54.0** 129 134 15.0 142
	48.0 115 122 16.0 130	**50.0** 120 126 16.0 134	**51.0** 124 130 16.0 137	**52.0** 126 131 15.5 139

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

MILAN Malpensa 35L T/O FROM PSN 'B'

WET FLAP 15

VMCG
VRMIN
V2MIN

OAT °C	WIND (kt) -10	-5	0	10
-10	**60.7** 125	**61.7** 127	**62.7** 129	**63.2** 130
	* 138	* 139	* 140	* 141
(NA)	13.0 145	13.0 146	13.0 148	13.0 148
-5	**60.6** 125	**61.7** 127	**62.6** 129	**63.1** 130
	* 138	* 139	* 140	* 141
(NA)	13.0 145	13.0 146	13.0 147	13.0 148
0	**60.5** 125	**61.6** 127	**62.6** 129	**63.1** 130
	* 138	* 139	* 140	* 141
(NA)	13.0 145	13.0 146	13.0 147	13.0 148
5	**60.5** 124	**61.5** 127	**62.5** 129	**63.0** 130
	* 138	* 139	* 140	* 141
(NA)	13.0 145	13.0 146	13.0 147	13.0 148
10	**60.4** 124	**61.5** 127	**62.5** 129	**63.0** 130
	* 138	* 139	* 140	* 141
(NA)	13.0 145	13.0 146	13.0 147	13.0 148
15	**60.3** 124	**61.4** 127	**62.4** 129	**62.9** 130
	* 138	* 139	* 140	* 141
(NA)	13.0 145	13.0 146	13.0 147	13.0 148
20	**60.3** 124	**61.4** 126	**62.3** 129	**62.9** 130
	* 138	* 139	* 140	* 141
(NA)	13.0 145	13.0 146	13.0 147	13.0 148
25	**59.9** 123	**61.3** 126	**62.3** 129	**62.8** 130
	* 137	* 139	* 140	* 141
(NA)	13.5 144	13.0 146	13.0 147	13.0 148
27	**59.8** 123	**61.3** 126	**62.2** 129	**62.8** 130
	* 137	* 139	* 140	* 141
(NA)	13.5 144	13.0 146	13.0 147	13.0 148
29	**59.4** 123	**61.2** 126	**62.2** 129	**62.7** 130
	* 137	* 139	* 140	* 141
(NA)	13.5 144	13.0 146	13.0 147	13.0 148
31	**58.8** 122	**60.5** 126	**61.5** 128	**62.1** 129
	* 136	* 138	* 139	* 140
(NA)	13.5 143	13.0 145	13.0 146	13.0 147
33	**58.1** 121	**59.6** 125	**60.6** 127	**61.2** 128
	* 135	* 137	* 138	* 139
(NA)	13.5 142	13.0 144	13.0 145	13.0 146
35	**57.4** 121	**58.6** 124	**59.6** 126	**60.2** 128
	* 134	* 136	* 137	* 138
(NA)	13.5 141	13.0 143	13.0 144	13.0 145
37	**56.7** 120	**57.8** 123	**58.7** 125	**59.2** 126
	* 134	* 135	* 136	* 137
(31)	13.5 140	13.0 142	13.0 143	13.0 143
39	**55.9** 120	**57.0** 122	**57.9** 124	**58.4** 125
	* 133	* 134	* 135	* 136
(33)	13.5 139	13.0 141	13.0 142	13.0 142
41	**55.2** 119	**56.2** 121	**57.2** 123	**57.7** 125
	* 132	* 133	* 134	* 135
(34)	13.5 138	13.0 140	13.0 141	13.0 141
41	**55.0** 117	**56.0** 120	**57.0** 122	**57.0** 122
	131	132	134	134
	13.5 138	13.5 139	13.0 141	13.0 141
41	**53.0** 114 CK	**54.0** 116	**55.0** 119	**55.0** 119
	128	130	131	131
	14.0 135	13.5 137	13.5 138	13.5 138
41	**51.0** 110 CK	**52.0** 112 CK	**53.0** 115	**53.0** 115
	126	127	128	128
	14.0 133	14.0 134	14.0 135	14.0 135
41	**49.0** 106 CK	**50.0** 109 CK	**51.0** 111 CK	**51.0** 112 CK
	123	124	126	126
	14.5 130	14.5 131	14.0 133	14.0 133
41	**47.0** 102 CK	**48.0** 105 CK	**49.0** 108 CK	**49.0** 108 CK
	120	121	123	123
	15.0 127	14.5 128	14.5 130	14.5 130
41	**45.0** 98 CK	**46.0** 101 CK	**47.0** 104 CK	**47.0** 104 CK
	116 CK	118	120	120
	15.5 124 CK	15.0 126 CK	15.0 127	15.0 127
41	**43.0** 94 CK	**44.0** 97 CK	**45.0** 100 CK	**45.0** 101 CK
	113 CK	115 CK	116 CK	116 CK
	15.5 121 CK	15.5 123 CK	15.5 124 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	**54.5** G	**58.2** F	**60.3** *	**61.4** *	15
-5	**51.9** G	**57.7** F	**59.9** *	**61.0** *	
0	**49.3** G	**57.2** F	**59.4** F	**60.5** *	
5	**47.3** G	**56.7** F	**58.9** F	**60.1** *	
10	**NO T/O**	**56.4** F	**58.7** F	**59.9** F	
15	**NO T/O**	**54.6** G	**58.2** F	**59.4** F	
20	**NO T/O**	**52.5** G	**57.7** F	**59.0** F	
25	**NO T/O**	**50.2** G	**57.3** F	**58.5** F	
30	**NO T/O**	**49.2** G	**56.5** F	**57.7** F	
-10	**55.2** G	**58.8** *	**60.1** *	**60.7** *	17
-5	**52.6** G	**58.3** *	**60.0** *	**60.6** *	
0	**49.8** G	**57.9** *	**59.9** *	**60.5** *	
5	**NO T/O**	**57.5** *	**59.5** *	**60.4** *	
10	**NO T/O**	**57.2** G	**59.3** *	**60.4** *	
15	**NO T/O**	**55.2** G	**59.0** *	**60.0** *	
20	**NO T/O**	**53.2** G	**58.6** *	**59.7** *	
25	**NO T/O**	**50.9** G	**58.2** *	**59.4** *	
30	**NO T/O**	**49.7** G	**57.6** *	**58.7** *	

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 11532 ft (3515 m)

CLIMB LIMIT (Go-Around)

RWY COND	FLAP 40 DRY	40 WET	28 DRY	28 WET
W -10	75.0	75.0	75.0	75.0
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

OAT °C	W (ton)
-15	70.2
27	70.2
29	69.6
31	68.5
33	67.3
35	66.4
37	65.4

For QNH corrections, use values relevant to Go-Around

WEIGHT CORRECTIONS (kg) for :

CONDITIONS	TAKEOFF DRY	TAKEOFF WET	TAKEOFF SSW 15	TAKEOFF SSW 17	GO AROUND
ENG + AIRF A/I ON	-3000	-2100	-1100	-2100	-4000
QNH < 1013 (kg/hPa)	-80	-80	-100	-100	-80
QNH > 1013 (kg/hPa)	+30	+30	+30	+30	+30
max Δ hPa : 28					

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

ONE ENGINE OUT PROCEDURE :

- At 1300 ft QNH, left turn to MAL/LOM or NOV/NDB.
- Acceleration altitude: 2200 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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Elev: 767 ft
Length: 12861 ft (3920 m)
Slope: -0.59 %
Shift: 0 ft (0 m)

Runway **17L**

Airport **LIMC - MXP**
MILAN Malpensa

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)

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FLAP 15 DRY

VMCG VRMIN V2MIN	OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
115	27	**67.3**		**67.3**		**67.3**		**67.3**	
117		S		S		S		S	
126	(NA)								
115	29	**67.3**	141	**67.3**	141	**67.3**	141	**67.3**	142
117		S	146	S	146	S	146	S	146
126	(NA)	12.5	153	12.5	153	12.5	153	12.5	153
114	31	**66.5**	140	**66.5**	140	**66.5**	141	**66.5**	141
117		S	145	S	145	S	145	S	145
125	(NA)	12.5	152	12.5	152	12.5	152	12.5	152
113	33	**65.4**	139	**65.4**	139	**65.4**	139	**65.4**	140
116		S	144	S	144	S	144	S	144
124	(NA)	12.5	151	12.5	151	12.5	151	12.5	151
112	35	**64.4**	138	**64.4**	138	**64.4**	138	**64.4**	139
115		S	143	S	143	S	143	S	143
124	(NA)	12.5	150	12.5	150	12.5	150	12.5	150
112	37	**63.3**	137	**63.3**	137	**63.3**	137	**63.3**	138
115		S	142	S	142	S	142	S	142
123	(31)	12.5	148	12.5	148	12.5	148	12.5	148
111	39	**62.4**	136	**62.4**	136	**62.4**	136	**62.4**	137
114		S	141	S	141	S	141	S	141
122	(33)	12.5	147	12.5	147	12.5	147	12.5	147
110	41	**61.5**	135	**61.5**	135	**61.5**	135	**61.5**	136
113		S	140	S	140	S	140	S	140
121	(34)	12.5	146	12.5	146	12.5	146	12.5	146
109	43	**60.7**	134	**60.7**	134	**60.7**	134	**60.7**	135
112		S	139	S	139	S	139	S	139
121	(36)	12.5	145	12.5	145	12.5	145	12.5	145
108	45	**59.8**	133	**59.8**	133	**59.8**	134	**59.8**	134
112		S	138	S	138	S	138	S	138
120	(37)	12.5	144	12.5	144	12.5	144	12.5	144
107	47	**58.9**	132	**58.9**	132	**58.9**	133	**58.9**	133
111		S	137	S	137	S	137	S	137
119	(39)	12.5	143	12.5	143	12.5	143	12.5	143
107	49	**57.9**	131	**57.9**	131	**57.9**	131	**57.9**	132
110		S	136	S	136	S	136	S	136
118	(41)	12.5	142	12.5	142	12.5	142	12.5	142
	49	**57.0**	129	**57.0**	129	**57.0**	129	**57.0**	129
			134		134		134		134
		13.0	141	13.0	141	13.0	141	13.0	141
	49	**55.0**	125	**55.0**	126	**55.0**	126	**55.0**	126
			131		131		131		131
		13.0	138	13.0	138	13.0	138	13.0	138
	49	**53.0**	122	**53.0**	122	**53.0**	123	**53.0**	123
			129		129		129		129
		13.5	135	13.5	135	13.5	135	13.5	135
	49	**51.0**	119	**51.0**	119	**51.0**	119	**51.0**	120
			126		126		126		126
		13.5	133	13.5	133	13.5	133	13.5	133
	49	**49.0**	115	**49.0**	116	**49.0**	116	**49.0**	116
			123		123		123		123
		14.0	130	14.0	130	14.0	130	14.0	130
	49	**47.0**	112 CK	**47.0**	112 CK	**47.0**	113 CK	**47.0**	113 CK
			120		120		120		120
		14.5	127	14.5	127	14.5	127	14.5	127
	49	**45.0**	109 CK	**45.0**	109 CK	**45.0**	109 CK	**45.0**	110 CK
			117 CK		117 CK		117 CK		117 CK
		14.5	125 CK	14.5	125 CK	14.5	125 CK	14.5	125 CK
	49	**43.0**	105 CK	**43.0**	106 CK	**43.0**	106 CK	**43.0**	106 CK
			114 CK		114 CK		114 CK		114 CK
		15.0	122 CK	15.0	122 CK	15.0	122 CK	15.0	122 CK
	49	**41.0**	102 CK	**41.0**	102 CK	**41.0**	103 CK	**41.0**	103 CK
			110 CK		110 CK		110 CK		110 CK
		15.5	119 CK	15.5	119 CK	15.5	119 CK	15.5	119 CK

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS
Runway Length : 9767 ft (2977 m)

FLAP		40		28		CLIMB LIMIT (Go-Around) OAT	CLIMB LIMIT (Go-Around) W
RWY COND		DRY	WET	DRY	WET	°C	(ton)
						-15	70.2
W	-10	75.0	75.0	75.0	75.0	27	70.2
I	-5	75.0	75.0	75.0	75.0	29	69.6
N	0	75.0	75.0	75.0	75.0	31	68.5
D	10	75.0	75.0	75.0	75.0	33	67.3
	20	75.0	75.0	75.0	75.0	35	66.4
						37	65.4

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 : 28					

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

ONE ENGINE OUT PROCEDURE :

- MAL/LOM or NOV/NDB standard EFP.

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

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Elev: 767 ft
Length: 12861 ft (3920 m)
Slope: +0.59 %
Shift: 0 ft (0 m)

Runway **35R**

Airport **LIMC - MXP**
MILAN Malpensa

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)

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FLAP 15 DRY

VMCG VRMIN V2MIN	OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
115	27	**62.6**	136	**63.5**	138	**64.5**	140	**65.1**	141
117		*	141	*	142	*	143	*	144
126	(NA)	13.0	147	13.0	149	13.0	150	12.5	150
115	29	**62.5**	136	**63.5**	138	**64.5**	140	**65.1**	141
117		*	141	*	142	*	143	*	144
126	(NA)	13.0	147	13.0	148	13.0	150	12.5	150
114	31	**61.9**	136	**62.8**	137	**63.7**	139	**64.3**	140
117		*	140	*	141	*	142	*	143
125	(NA)	13.0	147	13.0	148	13.0	149	12.5	149
113	33	**61.0**	135	**61.9**	137	**62.8**	138	**63.3**	139
116		*	139	*	140	*	141	*	142
124	(NA)	13.0	145	13.0	147	13.0	148	12.5	148
112	35	**60.0**	134	**61.0**	136	**61.9**	137	**62.3**	138
115		*	138	*	139	*	140	*	141
124	(NA)	13.0	144	13.0	145	13.0	147	12.5	147
112	37	**59.0**	133	**60.0**	135	**60.9**	136	**61.4**	137
115		*	137	*	138	*	139	*	140
123	(31)	13.0	143	13.0	144	13.0	145	12.5	146
111	39	**58.2**	132	**59.1**	133	**60.0**	135	**60.5**	136
114		*	136	*	137	*	138	*	139
122	(33)	13.0	142	13.0	143	13.0	144	12.5	145
110	41	**57.5**	131	**58.3**	133	**59.1**	134	**59.7**	135
113		*	135	*	136	*	137	*	138
121	(34)	13.0	141	13.0	142	13.0	143	12.5	144
109	43	**56.7**	130	**57.6**	132	**58.4**	134	**58.8**	135
112		*	134	*	135	*	136	*	137
121	(36)	13.0	140	13.0	141	13.0	142	12.5	143
108	45	**55.9**	129	**56.8**	131	**57.6**	133	**58.0**	134
112		*	133	*	134	*	135	*	136
120	(37)	13.0	139	13.0	140	13.0	141	12.5	142
107	47	**55.0**	129	**55.9**	130	**56.7**	132	**57.2**	133
111		*	132	*	133	*	134	*	135
119	(39)	13.0	138	13.0	139	13.0	140	12.5	141
107	49	**54.2**	128	**55.0**	129	**55.9**	131	**56.3**	132
110		*	131	*	132	*	133	*	134
118	(41)	13.0	137	13.0	138	13.0	139	13.0	140
	49	**54.0**	126	**53.0**	125	**55.0**	129	**56.0**	131
			130		129		132		133
		13.0	137	13.5	135	13.0	138	13.0	139
	49	**52.0**	123	**51.0**	122	**53.0**	125	**54.0**	127
			128		126		129		130
		13.5	134	13.5	133	13.5	135	13.0	137
	49	**50.0**	120	**49.0**	118	**51.0**	122	**52.0**	124
			125		123		126		128
		14.0	131	14.0	130	13.5	133	13.5	134
	49	**48.0**	116	**47.0**	115	**49.0**	119	**50.0**	121
			122		120		123		125
		14.0	128	14.5	127	14.0	130	14.0	131
	49	**46.0**	113 CK	**45.0**	111 CK	**47.0**	115	**48.0**	117
			119		117 CK		120		122
		14.5	126 CK	15.0	124 CK	14.5	127	14.0	128
	49	**44.0**	109 CK	**43.0**	108 CK	**45.0**	112 CK	**46.0**	114 CK
			116 CK		114 CK		117 CK		119
		15.0	123 CK	15.0	121 CK	15.0	124 CK	14.5	126 CK
	49	**42.0**	106 CK	**41.0**	104 CK	**43.0**	108 CK	**44.0**	110 CK
			112 CK		111 CK		114 CK		116 CK
		15.5	120 CK	15.5	119 CK	15.0	121 CK	15.0	123 CK
	49	**40.0**	102 CK			**41.0**	105 CK	**42.0**	107 CK
			109 CK				111 CK		112 CK
		15.5	117 CK			15.5	119 CK	15.5	120 CK
	49							**40.0**	103 CK
									109 CK
								15.5	117 CK

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS Runway Length : 12861 ft (3920 m)					CLIMB LIMIT (Go-Around)	
FLAP	40		28		OAT	W
RWY COND	DRY	WET	DRY	WET	°C	(ton)
					-15	70.2
W -10	75.0	75.0	75.0	75.0	27	70.2
I -5	75.0	75.0	75.0	75.0	29	69.6
N 0	75.0	75.0	75.0	75.0	31	68.5
D 10	75.0	75.0	75.0	75.0	33	67.3
20	75.0	75.0	75.0	75.0	35	66.4
					37	65.4

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 : 28					

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

ONE ENGINE OUT PROCEDURE :

- At 1200 ft QNH, right turn to MAL/LOM or NOV/NDB.
- Acceleration altitude: 2200 ft QNH

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

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OPERATIONS MANUAL

Elev: 767 ft
Length: 12861 ft (3920 m)
Slope: -0.59 %
Shift: 0 ft (0 m)

Runway **17R**

Airport **LIMC - MXP**

MILAN Malpensa

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)

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FLAP 15 DRY

VMCG VRMIN V2MIN	OAT °C	WIND (kt) -10		WIND (kt) -5		WIND (kt) 0		WIND (kt) 10	
115	27	**67.3**		**67.3**		**67.3**		**67.3**	
117		S		S		S		S	
126	(NA)								
115	29	**67.3**	141	**67.3**	141	**67.3**	141	**67.3**	142
117		S	146	S	146	S	146	S	146
126	(NA)	12.5	153	12.5	153	12.5	153	12.5	153
114	31	**66.5**	140	**66.5**	140	**66.5**	141	**66.5**	141
117		S	145	S	145	S	145	S	145
125	(NA)	12.5	152	12.5	152	12.5	152	12.5	152
113	33	**65.4**	139	**65.4**	139	**65.4**	139	**65.4**	140
116		S	144	S	144	S	144	S	144
124	(NA)	12.5	151	12.5	151	12.5	151	12.5	151
112	35	**64.4**	138	**64.4**	138	**64.4**	138	**64.4**	139
115		S	143	S	143	S	143	S	143
124	(NA)	12.5	150	12.5	150	12.5	150	12.5	150
112	37	**63.3**	137	**63.3**	137	**63.3**	137	**63.3**	138
115		S	142	S	142	S	142	S	142
123	(31)	12.5	148	12.5	148	12.5	148	12.5	148
111	39	**62.4**	136	**62.4**	136	**62.4**	136	**62.4**	137
114		S	141	S	141	S	141	S	141
122	(33)	12.5	147	12.5	147	12.5	147	12.5	147
110	41	**61.5**	135	**61.5**	135	**61.5**	135	**61.5**	136
113		S	140	S	140	S	140	S	140
121	(34)	12.5	146	12.5	146	12.5	146	12.5	146
109	43	**60.7**	134	**60.7**	134	**60.7**	134	**60.7**	135
112		S	139	S	139	S	139	S	139
121	(36)	12.5	145	12.5	145	12.5	145	12.5	145
108	45	**59.8**	133	**59.8**	133	**59.8**	134	**59.8**	134
112		S	138	S	138	S	138	S	138
120	(37)	12.5	144	12.5	144	12.5	144	12.5	144
107	47	**58.9**	132	**58.9**	132	**58.9**	133	**58.9**	133
111		S	137	S	137	S	137	S	137
119	(39)	12.5	143	12.5	143	12.5	143	12.5	143
107	49	**57.9**	131	**57.9**	131	**57.9**	131	**57.9**	132
110		S	136	S	136	S	136	S	136
118	(41)	12.5	142	12.5	142	12.5	142	12.5	142
	49	**57.0**	129	**57.0**	129	**57.0**	129	**57.0**	129
			134		134		134		134
		13.0	141	13.0	141	13.0	141	13.0	141
	49	**55.0**	125	**55.0**	126	**55.0**	126	**55.0**	126
			131		131		131		131
		13.0	138	13.0	138	13.0	138	13.0	138
	49	**53.0**	122	**53.0**	122	**53.0**	123	**53.0**	123
			129		129		129		129
		13.5	135	13.5	135	13.5	135	13.5	135
	49	**51.0**	119	**51.0**	119	**51.0**	119	**51.0**	120
			126		126		126		126
		13.5	133	13.5	133	13.5	133	13.5	133
	49	**49.0**	115	**49.0**	116	**49.0**	116	**49.0**	116
			123		123		123		123
		14.0	130	14.0	130	14.0	130	14.0	130
	49	**47.0**	112 CK	**47.0**	112 CK	**47.0**	113 CK	**47.0**	113 CK
			120		120		120		120
		14.5	127	14.5	127	14.5	127	14.5	127
	49	**45.0**	109 CK	**45.0**	109 CK	**45.0**	109 CK	**45.0**	110 CK
			117 CK		117 CK		117 CK		117 CK
		14.5	125 CK	14.5	125 CK	14.5	125 CK	14.5	125 CK
	49	**43.0**	105 CK	**43.0**	106 CK	**43.0**	106 CK	**43.0**	106 CK
			114 CK		114 CK		114 CK		114 CK
		15.0	122 CK	15.0	122 CK	15.0	122 CK	15.0	122 CK
	49	**41.0**	102 CK	**41.0**	102 CK	**41.0**	103 CK	**41.0**	103 CK
			110 CK		110 CK		110 CK		110 CK
		15.5	119 CK	15.5	119 CK	15.5	119 CK	15.5	119 CK

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS — Runway Length : 12861 ft (3920 m)

CLIMB LIMIT (Go-Around)

FLAP		40		28		OAT	W
RWY COND		DRY	WET	DRY	WET	°C	(ton)
						-15	70.2
W	-10	75.0	75.0	75.0	75.0	27	70.2
I	-5	75.0	75.0	75.0	75.0	29	69.6
N	0	75.0	75.0	75.0	75.0	31	68.5
D	10	75.0	75.0	75.0	75.0	33	67.3
	20	75.0	75.0	75.0	75.0	35	66.4
						37	65.4

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 : 28					

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

ONE ENGINE OUT PROCEDURE :

- MAL/LOM or NOV/NDB 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: 767 ft
Length: 12861 ft (3920 m)
Slope: +0.59 %
Shift: 0 ft (0 m)

Runway **35L**

Airport **LIMC - MXP**
MILAN Malpensa

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	**63.1**	137	**64.0**	139	**65.0**	141	**65.5**	142
117		*	141	*	142	*	144	*	144
126	(NA)	13.0	148	13.0	149	12.5	150	12.5	151
115	29	**63.0**	137	**64.0**	139	**65.0**	141	**65.5**	142
117		*	141	*	142	*	144	*	144
126	(NA)	13.0	148	13.0	149	12.5	150	12.5	151
114	31	**62.4**	137	**63.3**	138	**64.2**	140	**64.8**	141
117		*	140	*	142	*	143	*	143
125	(NA)	13.0	147	13.0	148	12.5	149	12.5	150
113	33	**61.5**	136	**62.4**	137	**63.2**	139	**63.7**	140
116		*	139	*	141	*	142	*	142
124	(NA)	13.0	146	13.0	147	12.5	148	12.5	149
112	35	**60.5**	135	**61.4**	136	**62.2**	138	**62.7**	139
115		*	138	*	140	*	141	*	141
124	(NA)	13.0	145	13.0	146	12.5	147	12.5	148
112	37	**59.5**	133	**60.4**	135	**61.3**	137	**61.7**	138
115		*	137	*	138	*	140	*	140
123	(31)	13.0	144	13.0	145	12.5	146	12.5	146
111	39	**58.6**	133	**59.5**	134	**60.4**	136	**60.9**	137
114		*	136	*	137	*	139	*	139
122	(33)	13.0	143	13.0	144	12.5	145	12.5	145
110	41	**57.9**	132	**58.7**	133	**59.6**	135	**60.0**	136
113		*	135	*	137	*	138	*	138
121	(34)	13.0	142	13.0	143	12.5	144	12.5	144
109	43	**57.1**	131	**58.0**	133	**58.7**	134	**59.2**	135
112		*	135	*	136	*	137	*	137
121	(36)	13.0	141	13.0	142	12.5	143	12.5	143
108	45	**56.4**	130	**57.2**	132	**57.9**	133	**58.4**	134
112		*	134	*	135	*	136	*	136
120	(37)	13.0	140	13.0	141	13.0	142	12.5	142
107	47	**55.5**	129	**56.3**	131	**57.1**	132	**57.5**	133
111		*	133	*	134	*	135	*	135
119	(39)	13.0	139	13.0	140	13.0	141	12.5	141
107	49	**54.6**	128	**55.4**	130	**56.2**	131	**56.6**	132
110		*	132	*	133	*	134	*	134
118	(41)	13.0	137	13.0	139	13.0	140	12.5	140
	49	**54.0**	126	**55.0**	128	**56.0**	130	**56.0**	131
			130		132		133		133
		13.0	137	13.0	138	13.0	139	13.0	139
	49	**52.0**	123	**53.0**	125	**54.0**	127	**54.0**	127
			128		129		130		130
		13.5	134	13.5	135	13.0	137	13.0	137
	49	**50.0**	120	**51.0**	122	**52.0**	124	**52.0**	124
			125		126		128		128
		14.0	131	13.5	133	13.5	134	13.5	134
	49	**48.0**	116	**49.0**	118	**50.0**	120	**50.0**	121
			122		123		125		125
		14.0	128	14.0	130	14.0	131	14.0	131
	49	**46.0**	113 CK	**47.0**	115	**48.0**	117	**48.0**	117
			119		120		122		122
		14.5	126 CK	14.5	127	14.0	128	14.0	128
	49	**44.0**	109 CK	**45.0**	111 CK	**46.0**	113 CK	**46.0**	114 CK
			116 CK		117 CK		119		119
		15.0	123 CK	15.0	124 CK	14.5	126 CK	14.5	126 CK
	49	**42.0**	106 CK	**43.0**	108 CK	**44.0**	110 CK	**44.0**	110 CK
			112 CK		114 CK		116 CK		116 CK
		15.5	120 CK	15.0	121 CK	15.0	123 CK	15.0	123 CK
	49	**40.0**	102 CK	**41.0**	104 CK	**42.0**	106 CK	**42.0**	107 CK
			109 CK		111 CK		112 CK		112 CK
		15.5	117 CK	15.5	119 CK	15.5	120 CK	15.5	120 CK
	49					**40.0**	103 CK	**40.0**	103 CK
							109 CK		109 CK
						15.5	117 CK	15.5	117 CK

MAXIMUM LANDING WEIGHT (ton)

RUNWAY LENGTH LIMITATIONS Runway Length : 11532 ft (3515 m)					CLIMB LIMIT (Go-Around)	
FLAP		40		28	OAT	W
RWY COND		DRY	WET	DRY WET	°C	(ton)
					-15	70.2
W	-10	75.0	75.0	75.0 75.0	27	70.2
I	-5	75.0	75.0	75.0 75.0	29	69.6
N	0	75.0	75.0	75.0 75.0	31	68.5
D	10	75.0	75.0	75.0 75.0	33	67.3
	20	75.0	75.0	75.0 75.0	35	66.4
					37	65.4

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 : 28					

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

ONE ENGINE OUT PROCEDURE :

- At 1300 ft QNH, left turn to MAL/LOM or NOV/NDB.
- Acceleration altitude: 2200 ft QNH

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