

Attachment 6

To Operations Group Factual Report

DCA15FA085

MD88 Landing Distance Chart

MD-88 QUICK REFERENCE CHART

OPERATIONAL LANDING DISTANCES FEET

FLAPS 40

Landing Weight (lb)	RUNWAY CONDITION							
	DRY (6)				GOOD (5)			
	Min AB	Med AB	Max AB	Max Manual	Min AB	Med AB	Max AB	Max Manual
160,000	11,000	8,800	5,500	4,600	11,000	9,500	7,100	6,300
155,000	10,700	8,600	5,400	4,600	10,700	9,300	7,000	6,200
150,000	10,400	8,400	5,300	4,500	10,400	9,100	6,800	6,000
145,000	10,100	8,200	5,100	4,400	10,100	8,800	6,500	5,900
140,000	9,900	7,900	5,000	4,300	9,900	8,600	6,400	5,700
139,500	9,900	7,900	5,000	4,300	9,900	8,600	6,400	5,700
135,000	9,600	7,700	4,900	4,200	9,600	8,300	6,300	5,600
130,000	9,300	7,500	4,800	4,100	9,300	8,100	6,100	5,400
125,000	9,000	7,300	4,700	4,000	9,000	7,900	6,000	5,300
120,000	8,800	7,100	4,600	3,900	8,800	7,700	5,800	5,200
115,000	8,400	6,900	4,400	3,800	8,400	7,400	5,600	5,100
110,000	8,100	6,600	4,300	3,700	8,100	7,100	5,500	4,900
105,000	7,800	6,400	4,200	3,600	7,800	6,900	5,400	4,800
100,000	7,500	6,200	4,100	3,500	7,500	6,700	5,200	4,600

BASIS: Zero wind and slope • DRY runway distances include the use of 1.6 EPR reverse thrust reduced to reverse idle by 60 KIAS. • All other distances include the use of 1.3 EPR reverse thrust reduced to reverse idle by 60 KIAS. • Touchdown Speed = VREF40 - 5

Data is advisory and includes 15% safety margin and 1,500 ft. air distance from threshold to touchdown.

REFERENCE DISTANCES BASED UPON PRESSURE ALTITUDE OF 2,000 FEET AND ARE CONSERVATIVE FOR ALL LOWER ALTITUDES.

Shaded region corresponds to Max Landing Weight (MLW)

ALTITUDE ADJUSTMENT

ALTITUDE (FEET)	DRY (6)				GOOD (5)			
0	-200	-200	-200	-200	-200	-200	-200	-200
2,000	0	0	0	0	0	0	0	0
4,000	200	200	200	200	400	400	400	400
6,000	500	500	500	500	700	700	700	700
8,000	800	800	800	800	1,100	1,100	1,100	1,100

CORRECTIONS	DRY (6)				GOOD (5)			
PER 1 KT HEADWIND	-50	-50	-50	-50	-50	-50	-50	-50
PER 1 KT TAILWIND	150	150	150	150	150	150	150	150
PER 5 KTS ADD'L SPD	250	250	250	250	300	300	300	300
PER 10°C ABOVE ISA	350	350	350	350	500	500	500	500
PER 10°C BELOW ISA	-100	-100	-100	-100	-150	-150	-150	-150
PER 1% UP SLOPE	-100	-100	-100	-100	-150	-150	-150	-150
PER 1% DOWN SLOPE	450	450	450	450	600	600	600	600
1 REVERSER INOP	0	0	0	0	100	100	100	100
2 REVERSERS INOP	50	50	50	50	150	150	150	150

Note: Do not operate when Braking Action is Nil.

MD-88 QUICK REFERENCE CHART

OPERATIONAL LANDING DISTANCES FEET

FLAPS 40

Landing Weight (lb)	RUNWAY CONDITION							
	MEDIUM (3)				POOR (1)			
	Min AB	Med AB	Max AB	Max Manual	Min AB	Med AB	Max AB	Max Manual
160,000	11,000	10,200	9,100	8,400	12,200	12,200	11,500	10,500
155,000	10,700	9,900	8,900	8,200	11,900	11,900	11,200	10,300
150,000	10,400	9,700	8,700	8,000	11,600	11,600	10,900	10,000
145,000	10,100	9,400	8,500	7,800	11,400	11,400	10,700	9,800
140,000	9,900	9,200	8,200	7,600	11,100	11,100	10,400	9,500
139,500	9,900	9,200	8,200	7,600	11,100	11,100	10,400	9,500
135,000	9,600	8,900	8,000	7,400	10,800	10,800	10,200	9,300
130,000	9,300	8,700	7,800	7,200	10,500	10,500	9,900	9,000
125,000	9,000	8,400	7,600	7,100	10,200	10,200	9,600	8,800
120,000	8,800	8,200	7,300	6,900	9,900	9,900	9,300	8,500
115,000	8,400	7,900	7,100	6,700	9,600	9,600	9,100	8,300
110,000	8,100	7,600	6,800	6,500	9,300	9,300	8,800	8,100
105,000	7,800	7,300	6,600	6,300	9,000	9,000	8,600	7,900
100,000	7,500	7,100	6,300	6,100	8,700	8,700	8,400	7,600

BASIS: Zero wind and slope • DRY runway distances include the use of 1.6 EPR reverse thrust reduced to reverse idle by 60 KIAS. • All other distances include the use of 1.3 EPR reverse thrust reduced to reverse idle by 60 KIAS. • Touchdown Speed = VREF40 - 5

Data is advisory and includes 15% safety margin and 1,500 ft. air distance from threshold to touchdown.

REFERENCE DISTANCES BASED UPON PRESSURE ALTITUDE OF 2,000 FEET AND ARE CONSERVATIVE FOR ALL LOWER ALTITUDES.

Shaded region corresponds to Max Landing Weight (MLW)

ALTITUDE ADJUSTMENT

ALTITUDE (FEET)	MEDIUM (3)				POOR (1)			
0	-300	-300	-300	-300	-400	-400	-400	-400
2,000	0	0	0	0	0	0	0	0
4,000	500	500	500	500	600	600	600	600
6,000	1,000	1,000	1,000	1,000	1,200	1,200	1,200	1,200
8,000	1,500	1,500	1,500	1,500	1,900	1,900	1,900	1,900

CORRECTIONS

	MEDIUM (3)				POOR (1)			
PER 1 KT HEADWIND	-50	-50	-50	-50	-100	-100	-100	-100
PER 1 KT TAILWIND	250	250	250	250	300	300	300	300
PER 5 KTS ADD'L SPD	450	450	450	450	600	600	600	600
PER 10°C ABOVE ISA	700	700	700	700	850	850	850	850
PER 10°C BELOW ISA	-250	-250	-250	-250	-300	-300	-300	-300
PER 1% UP SLOPE	-200	-200	-200	-200	-250	-250	-250	-250
PER 1% DOWN SLOPE	850	850	850	850	1,100	1,100	1,100	1,100
1 REVERSER INOP	200	200	200	200	350	350	350	350
2 REVERSERS INOP	300	300	300	300	500	500	500	500

Note: Do not operate when Braking Action is Nil.

EMERGENCY LANDING DISTANCES FEET

NOTE: TO BE USED ONLY UNDER CAPTAIN'S EMERGENCY AUTHORITY. PROVIDES ACTUAL LANDING DISTANCES ON CONTAMINATED RUNWAYS.

FLAPS 40

DATA IS ADVISORY AND DOES NOT INCLUDE 15% SAFETY MARGIN.

Landing Weight (lb)	RUNWAY CONDITION							
	DRY (6)				GOOD (5)			
	Min AB	Med AB	Max AB	Max Manual	Min AB	Med AB	Max AB	Max Manual
160,000	9,600	7,700	4,800	4,000	9,600	8,300	6,200	5,500
155,000	9,300	7,500	4,700	4,000	9,300	8,100	6,100	5,400
150,000	9,000	7,300	4,600	3,900	9,000	7,900	5,900	5,200
145,000	8,800	7,100	4,400	3,800	8,800	7,700	5,700	5,100
140,000	8,600	6,900	4,300	3,700	8,600	7,500	5,600	5,000
139,500	8,600	6,900	4,300	3,700	8,600	7,500	5,600	5,000
135,000	8,300	6,700	4,300	3,700	8,300	7,200	5,500	4,900
130,000	8,100	6,500	4,200	3,600	8,100	7,000	5,300	4,700
125,000	7,800	6,300	4,100	3,500	7,800	6,900	5,200	4,600
120,000	7,700	6,200	4,000	3,400	7,700	6,700	5,000	4,500
115,000	7,300	6,000	3,800	3,300	7,300	6,400	4,900	4,400
110,000	7,000	5,700	3,700	3,200	7,000	6,200	4,800	4,300
105,000	6,800	5,600	3,700	3,100	6,800	6,000	4,700	4,200
100,000	6,500	5,400	3,600	3,000	6,500	5,800	4,500	4,000

BASIS: Zero wind and slope • DRY runway distances include the use of 1.6 EPR reverse thrust reduced to reverse idle by 60 KIAS. • All other distances include the use of 1.3 EPR reverse thrust reduced to reverse idle by 60 KIAS. • Touchdown Speed = VREF40 - 5

Distances include 1,500 ft. air distance from threshold to touchdown.

REFERENCE DISTANCES BASED UPON PRESSURE ALTITUDE OF 2,000 FEET AND ARE CONSERVATIVE FOR ALL LOWER ALTITUDES.

 Shaded region corresponds to Max Landing Weight (MLW)

ALTITUDE ADJUSTMENT

ALTITUDE (FEET)	DRY (6)				GOOD (5)			
0	-100	-100	-100	-100	-200	-200	-200	-200
2,000	0	0	0	0	0	0	0	0
4,000	200	200	200	200	300	300	300	300
6,000	500	500	500	500	600	600	600	600
8,000	700	700	700	700	1,000	1,000	1,000	1,000

CORRECTIONS

	DRY (6)				GOOD (5)			
PER 1 KT HEADWIND	-50	-50	-50	-50	-50	-50	-50	-50
PER 1 KT TAILWIND	100	100	100	100	150	150	150	150
PER 5 KTS ADD'L SPD	200	200	200	200	300	300	300	300
PER 10°C ABOVE ISA	300	300	300	300	450	450	450	450
PER 10°C BELOW ISA	-100	-100	-100	-100	-150	-150	-150	-150
PER 1% UP SLOPE	-100	-100	-100	-100	-100	-100	-100	-100
PER 1% DOWN SLOPE	400	400	400	400	550	550	550	550
1 REVERSER INOP	0	0	0	0	100	100	100	100
2 REVERSERS INOP	50	50	50	50	100	100	100	100

EMERGENCY LANDING DISTANCES FEET

NOTE: TO BE USED ONLY UNDER CAPTAIN'S EMERGENCY AUTHORITY. PROVIDES ACTUAL LANDING DISTANCES ON CONTAMINATED RUNWAYS.

DATA IS ADVISORY AND DOES NOT INCLUDE 15% SAFETY MARGIN.

FLAPS 40

Landing Weight (lb)	RUNWAY CONDITION							
	MEDIUM (3)				POOR (1)			
	Min AB	Med AB	Max AB	Max Manual	Min AB	Med AB	Max AB	Max Manual
160,000	9,600	8,900	7,900	7,300	10,600	10,600	10,000	9,100
155,000	9,300	8,600	7,700	7,100	10,300	10,300	9,700	9,000
150,000	9,000	8,400	7,600	7,000	10,100	10,100	9,500	8,700
145,000	8,800	8,200	7,400	6,800	9,900	9,900	9,300	8,500
140,000	8,600	8,000	7,100	6,600	9,700	9,700	9,000	8,300
139,500	8,600	8,000	7,100	6,600	9,700	9,700	9,000	8,300
135,000	8,300	7,700	7,000	6,400	9,400	9,400	8,900	8,100
130,000	8,100	7,600	6,800	6,300	9,100	9,100	8,600	7,800
125,000	7,800	7,300	6,600	6,200	8,900	8,900	8,300	7,700
120,000	7,700	7,100	6,300	6,000	8,600	8,600	8,100	7,400
115,000	7,300	6,900	6,200	5,800	8,300	8,300	7,900	7,200
110,000	7,000	6,600	5,900	5,700	8,100	8,100	7,700	7,000
105,000	6,800	6,300	5,700	5,500	7,800	7,800	7,500	6,900
100,000	6,500	6,200	5,500	5,300	7,600	7,600	7,300	6,600

BASIS: Zero wind and slope • DRY runway distances include the use of 1.6 EPR reverse thrust reduced to reverse idle by 60 KIAS. • All other distances include the use of 1.3 EPR reverse thrust reduced to reverse idle by 60 KIAS. • Touchdown Speed = VREF40 - 5

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Shaded region corresponds to Max Landing Weight (MLW)

ALTITUDE ADJUSTMENT

ALTITUDE (FEET)	MEDIUM (3)				POOR (1)			
0	-300	-300	-300	-300	-400	-400	-400	-400
2,000	0	0	0	0	0	0	0	0
4,000	400	400	400	400	500	500	500	500
6,000	900	900	900	900	1,100	1,100	1,100	1,100
8,000	1,300	1,300	1,300	1,300	1,700	1,700	1,700	1,700

CORRECTIONS	MEDIUM (3)				POOR (1)			
PER 1 KT HEADWIND	-50	-50	-50	-50	-50	-50	-50	-50
PER 1 KT TAILWIND	200	200	200	200	250	250	250	250
PER 5 KTS ADD'L SPD	400	400	400	400	500	500	500	500
PER 10°C ABOVE ISA	600	600	600	600	750	750	750	750
PER 10°C BELOW ISA	-200	-200	-200	-200	-250	-250	-250	-250
PER 1% UP SLOPE	-150	-150	-150	-150	-200	-200	-200	-200
PER 1% DOWN SLOPE	750	750	750	750	950	950	950	950
1 REVERSER INOP	200	200	200	200	300	300	300	300
2 REVERSERS INOP	300	300	300	300	450	450	450	450