

# DC-8 FLIGHT OPERATING MANUAL



AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.

PERFORMANCE PROCEDURES

PAGE: 4G-j  
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## TABLE OF CONTENTS

### DC-8/62- JT3D-7 PERFORMANCE

#### TAKEOFF

PRESSURE ALTITUDE WEIGHT ADJUSTMENTS.....	4G-1
N1 VERSUS EPR.....	4G-1
RUNWAY CLUTTER TAKEOFF WEIGHT CHART.....	4G-2
MAXIMUM POWER TAKEOFF CHART.....	4G-3
MAXIMUM CONTINUOUS THRUST (CLIMB).....	4G-3
FOUR ENGINE GO-AROUND THRUST.....	4G-3
REDUCED TAKEOFF THRUST - JT3D-7.....	4G-4
TAKEOFF SPEEDS.....	4G-5
FLAPS 18°, 7001 TO 8000 FEET.....	4G-6A
FLAPS 18°, 8001 TO 9000 FEET.....	4G-6B
FLAPS 18°, 9001 TO 10000 FEET.....	4G-6C
TAKEOFF STABILIZER SETTING DC-8-62 18° & 23° FLAPS.....	4G-7

#### CLIMB

FOUR ENGINE NORMAL CLIMB.....	4G-8
-------------------------------	------

#### CRUISE

CRUISE ALTITUDE SELECTION.....	4G-10A
4-ENGINE MACH .82 CRUISE (JT3D-7).....	4G-11
4-ENGINE MACH .80 CRUISE (JT3D-7).....	4G-12
4-ENGINE MACH .78 CRUISE (JT3D-7).....	4G-13
4-ENGINE LONG-RANGE CRUISE CONTROL CHART DC-8-62.....	4G-14
LOW AND HIGH SPEED BUFFET MARGIN.....	4G-15
3-ENGINE LONG-RANGE CRUISE.....	4G-16
2-ENGINE LONG-RANGE CRUISE.....	4G-17
ALTIMETER CORRECTION TABLE.....	4G-17

#### DESCENT

NORMAL DESCENT.....	4G-18
---------------------	-------

#### LANDING

HOLDING SPEEDS AND FUEL FLOW.....	4G-19
STALL SPEEDS.....	4G-20
NORMAL LANDING SPEEDS (KNOTS I.A.S.).....	4G-21
4 ENGINE GO-AROUND EPR.....	4G-12

# DC-8 FLIGHT OPERATING MANUAL



AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.

PERFORMANCE PROCEDURES

PAGE: 4G-ii  
REV: #23  
DATE: 10-06-95

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## TABLE OF CONTENTS

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**PRESSURE ALTITUDE WEIGHT ADJUSTMENTS**

The runway limit ATOG and performance limit ATOG adjustments are to applied whenever the altimeter setting deviates from 29.92 of HG or fr 1014 mb. Both inches and millibars are shown for reading convenier in the tables below.

ALTIMETER SETTING (INCHES MERCURY)

Alt Set (in. Hg)	R/W Limit ATOG Adj (1000 lbs)	Perf Limit ATOG Adj (1000 lbs)	
28.90	10.0	12.0	S A
29.00	9.0	10.8	U D
29.10	8.0	9.6	B J
29.20	7.0	8.4	T
29.30	6.0	7.2	R S
29.40	5.1	6.1	A H
29.50	4.1	4.9	C O
29.60	3.1	3.2	T W
29.70	2.1	2.5	N
29.80	1.1	1.3	
29.92	0	0	
30.00	.6	.7	A S
30.10	1.4	1.5	D H
30.20	2.3	2.5	D O
30.30	3.1	3.4	A W
30.40	3.9	4.3	A N
30.50	4.8	5.3	D N
30.60	5.6	6.2	J U
30.70	6.4	7.0	S T
30.80	7.2	7.9	S T
30.90	8.1	8.9	S T
31.00	8.9	9.8	S

ALTIMETER SETTING (MILLIBARS)

Alt Set (mb)	R/W Limit ATOG Adj (1000 lbs)	Perf Limit ATOG Adj (1000 lbs)	
970	12.4	14.9	S A
975	11.0	13.2	U D
980	9.5	11.4	B J
985	8.0	9.6	T
990	6.5	7.8	R S
995	5.1	6.1	A H
1000	3.6	4.3	C O
1005	2.1	2.5	T W
1010	1.0	1.0	N
1013	0	0	
1015	.6	.7	A S
1020	1.8	2.0	D H
1025	3.0	3.3	D O
1030	3.9	4.3	A W
1035	5.3	5.8	A N
1040	6.4	7.0	D J
1045	7.7	8.5	
1050	8.9	9.8	

WARNING - TO BE USED ONLY FOR EPR VERSUS MINIMUM NL ERROR CHECK.

**NL VERSUS EPR JT3D-7**

EPR	OUTSIDE AIR TEMPERATURE °C			
	-20	-10	0	10
1.90	98.5	100.4	102.3	104.2
1.85	97.1	99.0	100.8	102.7
1.80	95.6	97.5	99.3	101.1
1.75	94.4	96.3	98.1	99.8
1.70	93.2	95.0	96.8	98.6
1.65	91.8	93.6	95.4	97.1



**RUNWAY CLUTTER TAKEOFF WEIGHT CONSIDERATIONS**

Weight adjustments assume and are based on a uniform clutter depth for the entire runway length. When areas of the runway are partially contaminated with clutter of varying depths, an estimated average clutter depth on the operational portion of the runway can be used to determine the appropriate adjustments, providing no portion of the runway contamination exceeds the takeoff not permitted limits. With significant amounts of clutter, takeoff acceleration can seem normal at lower speeds, but can deteriorate rapidly as speed approaches V1 or VR.

B. Zero wind shown on the AIRPORT ANALYSIS CHART are to be reduced by the amount indicated in the charts below for the respective Series Aircraft and then corrected for existing wind condition as necessary.

Step 1 - The runway limit need not be adjusted for clutter when the runway has less than 1/8 inch of slush, 1/4 inch of wet snow, 1 inch of dry snow or 1/8 inch of standing water. use normal takeoff weights.

Step 2 - The following requirements apply to takeoff when the runway limits must be adjusted for clutter.

- All antiskid operative
- No Tailwind
- Use limit takeoff thrust

Step 3 - Using the table below, select the level of clutter that best represents the runway condition.

RUNWAY CLUTTER EQUIVALENTS AND GUIDELINES			
	Use Level 1 Weight adjustments if:	Use Level 2 weight adjustments if:	Takeoff not permitted if:
Slush	1/8 to 1/4 inch	over 1/4 to 1/2 inch	greater than 1/2 inch
Wet Snow	1/4 to 1/2 inch	over 1/2 to 1 inch	greater than 1 inch
Dry Snow	1 to 2 inches	over 2 to 4 inches	greater than 4 inches
Standing Water	1/8 to 1/4 inch	over 1/4 to 1/2 inch	greater than 1/2 inch

Step 4 - Using the clutter level from step 3, determine the runway clutter weight reduction.

RUNWAY CLUTTER WEIGHT REDUCTIONS									
ADJUSTED RUNWAY LIMIT WEIGHT (1000 POUNDS)									
Clutter Equivalent	180	200	220	240	260	280	300	320	340
Level 1	2000	4000	6000	8000	11000	13000	15000	17000	20000
Level 2	4000	7000	11000	16000	21000	26000	30000	34000	38000

ADJUSTMENTS: For each 1000 feet of airport elevation above sea level, reduce runway limit weight an additional 2000 pounds.

Step 5 - Subtract value in Step 4 from the runway limit weight, adjusted for pressure altitude from page 4G-1. Compare this value to the allowable takeoff gross weight limits and use the lowest weight.

# DC-8 FLIGHT OPERATING MANUAL



**AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.**

**PERFORMANCE PROCEDURES**

PAGE: 4G-3  
REV: #23  
DATE: 10-06-95

**DC-8-62**

## MAXIMUM POWER - E.P.R. SETTING 40-80 KNOTS (CABIN COMPRESSORS OFF) (JT3D-ENGINE)

O.A.T. °F	°C	-49	-40	-31	-22	-13	-4	5	14	23	32	41	50	59	68	77	86	95	104	113
		-45	-40	-35	-30	-25	-20	-15	-10	-5	0	+5	+10	+15	+20	+25	+30	+35	+40	+45
P.A. - S.L.		1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.81	1.76	1.70
T O	1000'	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.91	1.87	1.87	1.87	1.86	1.81	1.76	1.70
	2000'	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.94	1.91	1.87	1.87	1.87	1.86	1.81	1.76	1.70
	3000'	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.04	2.01	1.98	1.94	1.91	1.87	1.87	1.87	1.86	1.81	1.76	1.70
4000' & above		2.10	2.10	2.10	2.09	2.07	2.06	2.05	2.04	2.01	1.98	1.94	1.90	1.87	1.87	1.87	1.86	1.81	1.76	1.70

ADJUSTMENTS: Rain removal ON, subtract .01 EPR.

## MAXIMUM CONTINUOUS THRUST (CLIMB)

TEMP °C	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	+5	+10	+15	+20	+25	+30	+35	+40	+45	
P.A. - S.L.	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.79	1.76	1.72	1.69	1.65	1.62	1.58	1.55	1.52	1.49	
M	2000'	1.90	1.90	1.90	1.90	1.90	1.89	1.88	1.83	1.79	1.76	1.72	1.69	1.65	1.62	1.58	1.55	1.52	1.49	
	4-25000'	2.04	2.04	2.02	2.00	1.97	1.94	1.91	1.87	1.84	1.80	1.77	1.73	1.70	1.67	1.63	1.59	1.56	1.52	1.49
C	30000'	2.04	2.04	2.02	2.00	1.97	1.94	1.91	1.87	1.84	1.80	1.77	1.73	1.70	1.67	1.63	1.59	1.56	1.52	1.49
T	35000'	2.02	2.02	2.00	1.98	1.95	1.91	1.88	1.85	1.81	1.77	1.73	1.70	Reduce EPR using engine and A/C ice protection as indicated. E.P.R. Reduction.						
	40000'	1.99	1.99	1.97	1.94	1.91	1.88	1.85	1.82	1.78	1.74	1.71	1.67							

ADJUSTMENTS: Rain removal - Reduce EPR by .01 for 3 Engine MCT - reduce EPR by .01  
Engine Anti-Ice Reduce EPR .07.

## GO-AROUND THRUST

TEMP °C	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	+5	+10	+15	+20	+25	+30	+35	+40	+45	
P.A. - S.L.	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.80	1.74	1.64	
G O A R O U N D	1000'	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.85	1.83	1.83	1.83	1.80	1.74	1.64	
	2000'	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.92	1.89	1.85	1.83	1.83	1.83	1.80	1.74	1.64	
	3000'	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.98	1.96	1.92	1.89	1.85	1.83	1.83	1.83	1.80	1.74	1.64	
	4000'	2.08	2.08	2.08	2.08	2.08	2.06	2.04	2.01	1.98	1.96	1.92	1.89	1.85	1.83	1.83	1.83	1.83	1.74	1.64
5000' & above		2.12	2.12	2.11	2.09	2.08	2.06	2.04	2.01	1.98	1.96	1.92	1.89	1.85	1.83	1.83	1.83	1.83	1.74	1.64

Adjustments: A/C Ice Protection reduce EPR by .02  
Rain Removal - reduce EPR by .01  
3-Engine Go-Around - reduce EPR by .01

# DC-8 FLIGHT OPERATING MANUAL



**AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.**

**PERFORMANCE PROCEDURES**

PAGE: 4G-4  
REV: #20  
DATE: 03-01-95

## REDUCED TAKEOFF THRUST JT3D-7 DC-8-62

Max Power must be accomplished once every 7 days.

Do Not use reduced takeoff thrust when:

- takeoff runway has standing water, ice, slush or snow.
- takeoff is to be made with a tailwind
- OAT is below 0°F
- anti-ice bleed is required
- available runway length is less than 8,500 feet.
- aircraft has been de-iced, reported/forecast windshear, MEL/CDL takeoff weight adjustment.

1. Determine max EPR from the MAXIMUM TAKEOFF THRUST table.
2. Enter the gross weight table with the takeoff G.W. and find the corresponding temperature for this weight from both the RUNWAY and PERFORMANCE LIMIT columns. The colder temperature is the assumed temperature.
3. Using this Assumed Temp and Maximum EPR, determine Normal EPR.
4. Determine V1, VR, & V2 for both the assumed temp and the airport temp and use the highest value for each speed.

EPR is valid when set at 40-80 knots, CTC'S & blowaway jets are off.

ASSUM TEMP °F	MAX EPR																
	1.66	1.72 thru 1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.93	1.95	1.96	1.97	1.99	2.00	2.01	2.02	2.03
NORMAL EPR																	
120	1.66	1.72	1.74	1.75	1.76	1.78	1.79	1.80	1.82	1.84	1.85	1.86	1.88	1.89	1.90	1.91	1.92
115	1.66	1.72	1.74	1.75	1.76	1.78	1.79	1.80	1.82	1.84	1.85	1.86	1.88	1.89	1.90	1.91	1.92
110	1.66	1.72	1.74	1.75	1.76	1.78	1.79	1.80	1.82	1.84	1.85	1.86	1.88	1.89	1.90	1.91	1.92
105	1.66	1.75	1.75	1.75	1.76	1.78	1.79	1.80	1.82	1.84	1.85	1.86	1.88	1.89	1.90	1.91	1.92
100	1.66	1.77	1.77	1.77	1.77	1.78	1.79	1.80	1.82	1.84	1.85	1.86	1.88	1.89	1.90	1.91	1.92
95	1.66	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.82	1.84	1.85	1.86	1.88	1.89	1.90	1.91	1.92
90	1.66	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.84	1.85	1.86	1.88	1.89	1.90	1.91	1.92
85	1.66	1.82	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.88	1.89	1.90	1.91	1.92
80	1.66	1.82	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.88	1.89	1.90	1.91	1.92
75	1.66	1.82	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.88	1.89	1.90	1.91	1.92
70	1.66	1.82	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.88	1.89	1.90	1.91	1.92
65	1.66	1.82	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.88	1.89	1.90	1.91	1.92
60	1.66	1.82	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.88	1.89	1.90	1.91	1.92
55	1.66	1.82	1.85	1.86	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.89	1.90	1.91	1.92
50	1.66	1.82	1.85	1.86	1.87	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.91	1.92
45	1.66	1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.92
40	1.66	1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
35	1.66	1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.93	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
30	1.66	1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.93	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96
25	1.66	1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.93	1.95	1.96	1.97	1.97	1.97	1.97	1.97	1.97
20	1.66	1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.93	1.95	1.96	1.97	1.99	1.99	1.99	1.99	1.99
15	1.66	1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.93	1.95	1.96	1.97	1.99	2.00	2.00	2.00	2.00
10	1.66	1.82	1.85	1.86	1.87	1.89	1.90	1.91	1.93	1.95	1.96	1.97	1.99	2.00	2.01	2.02	2.02

**ADJUSTMENTS:** All cabin compressors off: Add .01. Rain removal on: Subtract .01.  
Maximum EPR reduction .10.

# DC-8 FLIGHT OPERATING MANUAL



**AMERICAN  
INTERNATIONAL  
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**PERFORMANCE PROCEDURES**

PAGE: 4G-5  
REV: #33  
DATE: 10-31-97

## DC-8/62 - JT3D-7 TAKEOFF SPEEDS JT3D-7

1. Determine V1 Basic and adjust per ADJUSTMENTS at bottom of table.
2. Determine V1 Limit.
3. Compare adjusted V1 Basic with V1 Limit from step 2 and use higher speed.
4. VR and V2 do not require adjustments and do have Limit speeds.

ALT. - 1000 FT.	AMBIENT TEMPERATURE - ° C					
	-29 to -21	-21 to -15	-15 to -4	-4 to 7	7 to 29	29 to 49
6 to 7	- - - -	- - - -	-29 to -15	-15 to -4	-4 to 29	29 to 49
5 to 6	- - - -	-29 to -15	-15 to -4	-4 to 7	7 to 35	35 to 49
4 to 5	-29 to -21	-21 to -15	-15 to -4	-4 to 7	7 to 29	29 to 41
3 to 4	-29 to -9	-9 to 2	2 to 13	13 to 35	35 to 41	41 to 49
2 to 3	-29 to 2	2 to 13	13 to 29	29 to 41	41 to 49	- - - -
1 to 2	-29 to 13	13 to 29	29 to 35	35 to 49	- - - -	- - - -
0 to 1	-29 to 29	29 to 35	35 to 41	41 to 49	- - - -	- - - -

<b>18° V BASIC</b>																		
WEIGHT 1000 LBS	V1			VR			V2			V1			VR			V2		
	V1	VR	V2	V1	VR	V2	V1	VR	V2	V1	VR	V2	V1	VR	V2	V1	VR	V2
360	144	159	169	145	159	169	146	160	169	---	---	---	---	---	---	---	---	---
350	141	157	167	142	158	167	143	158	166	144	159	166	145	160	166	147	161	166
340	138	154	165	139	155	165	140	155	164	141	156	164	142	157	164	144	158	164
320	133	149	161	134	150	161	135	150	160	136	151	160	137	152	159	139	153	159
300	127	143	156	128	144	156	129	144	155	130	145	155	131	146	154	133	147	154
280	---	137	152	122	138	152	123	138	151	124	139	151	125	140	150	127	141	150
260	---	131	147	---	132	147	---	132	146	117	133	146	118	134	145	120	135	145
240	---	125	142	---	126	142	---	126	141	---	127	141	112	128	140	114	129	140
220	---	123	142	---	121	138	---	119	135	---	120	135	---	121	134	---	122	134
200	---	123	143	---	120	139	---	117	133	--	113	131	---	114	129	---	115	129
V1 LIMIT	123	-	-	120	-	-	117	-	-	113	-	-	110	-	-	105	-	-

### ADJUSTMENTS:

1. Headwind: For each 12 knots, increase V1 Basic 1 knot.
2. Tailwind: For each 5 knots, decrease V1 Basic 1 knot.

### DC-8-62 NORMAL LANDING SPEEDS (KNOTS I.A.S.) JT3D-7

Weight (1000 Lb.)	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	355
Flare (Vth) 50° FL	119	122	125	128	131	134	137	140	143	146	148	149	154	156	159	161	163	165	167
Flare (Vth) 35° FL	124	127	130	133	136	139	142	145	148	151	153	154	159	161	164	166	168	170	172
Flare (Vth) 23° FL	130	132	135	139	141	145	148	151	154	157	159	161	165	167	170	171	175	178	182
Maneuver 23° Flaps	146	150	154	158	161	165	168	172	175	178	180	181	187	190	193	196	199	202	203
Maneuver 12° Flaps	159	163	167	171	176	180	184	188	192	196	200	204	207	210	213	217	221	223	225
Maneuver 0° Flaps	172	177	181	186	190	194	198	202	206	210	212	214	222	226	229	233	246	239	241

# DC-8 FLIGHT OPERATING MANUAL



AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.

PERFORMANCE PROCEDURES

PAGE: 4G-6  
REV: #33  
DATE: 10-31-97

## DC-8/62 JT3D-7 TAKEOFF SPEEDS

1. Determine V1 Basic and adjust per ADJUSTMENTS at bottom of table.
2. Determine V1 Limit.
3. Compare adjusted V1 Basic with V1 Limit from step 2 and use higher speed.
4. VR and V2 do not require adjustments and do have Limit speeds.

ALT. - 1000 FT.	AMBIENT TEMPERATURE - ° C																	
	-29 to -15			-15 to -4			-4 to 29			29 to 49			-			-		
6 to 7	-			-			-29 to -15			-15 to -4			-4 to 29			29 to 49		
5 to 6	-			-29 to -15			-15 to -4			-4 to 7			7 to 35			35 to 49		
4 to 5	-29 to -21			-21 to -4			-4 to 7			7 to 29			29 to 41			41 to 49		
3 to 4	-29 to -9			-9 to 2			2 to 13			13 to 35			35 to 41			41 to 49		
2 to 3	-29 to 2			2 to 13			13 to 29			29 to 41			41 to 49			-		
1 to 2	-29 to 13			13 to 29			29 to 35			35 to 49			-			-		
0 to 1	-29 to 29			29 to 35			35 to 41			41 to 49			-			-		
<b>23° V BASIC</b>																		
WEIGHT 1000 LBS	V1			VR			V2			V1			VR			V2		
	V1	VR	V2	V1	VR	V2	V1	VR	V2	V1	VR	V2	V1	VR	V2	V1	VR	V2
360	142	157	166	143	158	166	---	---	---	---	---	---	---	---	---	---	---	---
350	139	155	164	140	156	164	141	157	163	142	157	163	143	158	163	145	159	163
340	137	152	162	138	153	162	139	154	161	140	154	161	141	155	161	143	156	161
320	131	146	158	132	147	158	133	148	157	134	148	157	135	149	156	137	150	156
300	126	141	153	127	142	153	128	143	152	129	143	152	130	144	151	132	145	151
280	---	135	149	121	136	140	122	137	148	123	137	148	124	138	147	126	139	147
260	---	129	144	---	130	144	---	131	143	116	131	143	117	132	142	119	133	142
240	---	124	141	---	124	139	---	125	138	---	125	138	111	126	137	113	127	137
220	---	124	142	---	122	136	---	119	133	---	118	133	---	119	132	106	120	132
200	---	124	143	---	122	138	---	118	132	---	114	128	---	113	127	---	113	127
V1 LIMIT	123	-	-	120	-	-	117	-	-	113	-	-	110	-	-	105	-	-

### ADJUSTMENTS:

1. Headwind: For each 12 knots, increase V1 Basic 1 knot.
2. Tailwind: For each 5 knots, decrease V1 Basic 1 knot.

### DC-8-62 NORMAL LANDING SPEEDS (KNOTS I.A.S.) JT3D-7

Weight (1000 Lb.)	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	355
Flare (Vth) 50° FL	119	122	125	128	131	134	137	140	143	146	148	149	154	156	159	161	163	165	167
Flare (Vth) 35° FL	124	127	130	133	136	139	142	145	148	151	153	154	159	161	164	166	168	170	172
Flare (Vth) 23° FL	130	132	135	139	141	145	148	151	154	157	159	161	165	167	170	171	175	178	182
Maneuver 23° Flaps	146	150	154	158	161	165	168	172	175	178	180	181	187	190	193	196	199	202	203
Maneuver 12° Flaps	159	163	167	171	176	180	184	188	192	196	200	204	207	210	213	217	221	223	225
Maneuver 0° Flaps	172	177	181	186	190	194	198	202	206	210	212	214	222	226	229	233	246	239	241



# DC-8 FLIGHT OPERATING MANUAL



**AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.**

**PERFORMANCE PROCEDURES**

PAGE: 4G-6A  
REV: #33  
DATE: 10-31-97

DC8-62 JT3D-7 18° FLAP 7,001 TO 8,000 FEET PRESSURE ALTITUDE						
WEIGHT x 1,000	40°C to -25°C	-24°C to -10°C	-9°C to 5°C	6°C to 32°C	33°C to 40°C	41°C to 50°C
	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2
360,000	147 160 168	148 161 168	149 162 167	151 163 167	154 164 167	159 165 167
350,000	143 158 166	144 159 166	145 160 165	147 161 165	149 162 165	153 163 165
340,000	141 155 164	142 156 164	143 157 163	145 158 163	148 159 163	151 160 163
330,000	138 153 162	139 154 162	140 155 161	142 156 161	145 157 161	148 158 161
320,000	136 150 160	137 151 160	138 152 159	140 153 159	143 154 159	146 155 159
310,000	133 147 158	134 148 158	135 149 157	137 150 157	140 151 157	143 152 157
300,000	130 144 155	131 145 155	132 146 154	134 147 154	138 148 154	140 149 154
290,000	127 141 153	128 142 153	129 143 152	131 144 152	134 145 152	137 146 152
280,000	124 138 151	125 139 151	126 140 150	128 141 150	131 142 150	134 143 150
270,000	121 135 149	122 136 149	123 137 148	125 138 148	128 139 148	131 140 148
260,000	117 132 146	118 133 146	119 134 145	121 135 145	124 136 145	127 137 145
250,000	114 129 144	115 130 144	116 131 143	118 132 143	121 133 143	124 134 143
240,000	111 126 141	112 127 141	113 128 140	115 129 140	118 130 140	121 131 140
230,000	107 122 138	108 123 138	109 124 137	111 125 137	114 126 137	117 127 137
220,000	104 119 135	105 120 135	106 121 134	108 122 134	111 123 134	114 124 134
210,000	100 116 133	101 117 133	102 118 132	104 119 132	107 120 132	110 121 132
200,000	97 112 130	98 113 130	99 114 129	101 115 129	103 116 129	106 117 129

**NOTE:**

Minimum speeds must be checked at table below.

BASIC TAKEOFF SPEEDS - FLAPS 18°									
TAKEOFF WEIGHT (1000 LBS)	200	220	240	260	280	300	320	340	360
V1 (KNOTS, IAS)	93.0	100.5	107.5	114.0	120.5	126.5	132.5	138.0	143.5
VR (KNOTS, IAS)	110.0	117.0	124.0	130.0	136.0	142.0	147.5	153.0	158.0
V2 (KNOTS, IAS)	130.5	136.0	141.5	146.5	151.5	156.0	160.5	165.0	169.0
1.2Vs (KNOTS, IAS)	127.0	133.0	139.0	144.5	149.5	154.0	159.0	164.0	169.0

		V1 BASIC	VR BASIC	V2 BASIC
SLOPE PER 1%	UPHILL	+2.0%	+0.5 KNOTS	-0.5 KNOTS
	DOWNHILL	-2.0%	-0.5 KNOTS	+0.5 KNOTS
WIND PER 10 KTs	HEADWIND	+0.8 KNOTS	0	0
	TAILWIND	-2 KNOTS		

\*USE THE HIGHER OF V2 CORRECTED FOR ALTITUDE, TEMPERATURE AND SLOPE AND 1.2 Vs AS V2 BASIC. FLAP RETRACTION SPEED = V2 + 25 KNOTS, IAS.

# DC-8 FLIGHT OPERATING MANUAL



**AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.**

**PERFORMANCE PROCEDURES**

PAGE: 4G-6B

REV: #33

DATE: 10-31-97

DC8-62 JT3D-7 18° FLAP 8,001 TO 9,000 FEET PRESSURE ALTITUDE						
WEIGHT x 1,000	40°C to -25°C	-24°C to -10°C	-9°C to 5°C	6°C to 32°C	33°C to 40°C	41°C to 50°C
	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2
360,000	148 161 168	149 162 167	150 163 167	151 163 167	156 165 167	158 166 167
350,000	145 159 166	146 160 165	147 161 165	148 161 165	152 163 165	155 164 165
340,000	142 156 164	143 157 163	144 158 163	145 158 163	149 160 163	152 161 163
330,000	139 154 162	140 155 161	141 156 161	142 156 161	146 158 161	149 159 161
320,000	137 151 160	138 152 159	139 153 159	140 153 159	144 155 159	147 156 159
310,000	134 148 158	135 149 157	136 150 157	137 150 157	141 152 157	144 153 157
300,000	131 145 155	132 146 154	133 147 154	134 147 154	138 149 154	141 150 154
290,000	128 142 153	129 143 152	130 144 152	131 144 152	135 146 152	138 147 152
280,000	125 139 151	126 140 150	127 141 150	128 141 150	132 143 150	135 144 150
270,000	121 136 149	122 137 148	123 138 148	124 138 148	128 140 148	131 141 148
260,000	118 133 146	119 134 145	120 135 145	121 135 145	125 137 145	128 138 145
250,000	115 130 144	116 131 143	117 132 143	118 132 143	122 134 143	125 135 143
240,000	112 127 141	113 128 140	114 129 140	115 129 140	119 131 140	122 132 140
230,000	108 123 138	109 124 137	110 125 137	111 125 137	115 127 137	118 128 137
220,000	105 120 135	106 121 134	107 122 134	108 122 134	112 124 134	115 125 134
210,000	101 117 133	102 118 132	103 119 132	104 119 132	108 121 132	111 122 132
200,000	97 113 130	99 114 129	99 115 129	100 115 129	104 117 129	107 118 129

**NOTE:**

Minimum speeds must be checked at table below.

BASIC TAKEOFF SPEEDS - FLAPS 18°									
TAKEOFF WEIGHT (1000 LBS)	200	220	240	260	280	300	320	340	360
V1 (KNOTS, IAS)	93.0	100.5	107.5	114.0	120.5	126.5	132.5	138.0	143.5
VR (KNOTS, IAS)	110.0	117.0	124.0	130.0	136.0	142.0	147.5	153.0	158.0
V2 (KNOTS, IAS)	130.5	136.0	141.5	146.5	151.5	156.0	160.5	165.0	169.0
1.2Vs (KNOTS, IAS)	127.0	133.0	139.0	144.5	149.5	154.0	159.0	164.0	169.0

		V1 BASIC	VR BASIC	V2 BASIC
SLOPE PER 1%	UPHILL	+2.0%	+0.6 KNOTS	-0.5 KNOTS
	DOWNHILL	-2.0%	-0.5 KNOTS	+0.5 KNOTS
WIND PER 10 KTs	HEADWIND	+0.8 KNOTS	0	0
	TAILWIND	-2 KNOTS		

\*USE THE HIGHER OF V2 CORRECTED FOR ALTITUDE, TEMPERATURE AND SLOPE AND 1.2 Vs AS V2 BASIC. FLAP RETRACTION SPEED = V2 + 25 KNOTS, IAS.

# DC-8 FLIGHT OPERATING MANUAL



**AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.**

**PERFORMANCE PROCEDURES**

PAGE: 4G-6C  
REV: #33  
DATE: 10-31-97

DC8-62 - JT3D-7 18° FLAP 9,001 TO 10,000 FEET PRESSURE ALTITUDE						
WEIGHT x 1,000	-40°C to -25°C	-24°C to -10°C	-9°C to 5°C	6°C to 32°C	33°C to 40°C	41°C to 50°C
	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2	V1 VR V2
360,000	149 161 167	150 162 167	151 163 167	153 164 167	156 165 167	159 166 167
350,000	146 159 165	147 160 165	148 161 165	150 162 165	153 163 165	156 164 165
340,000	143 156 163	144 157 163	145 158 163	147 159 163	150 160 163	153 161 163
330,000	140 154 161	141 155 161	142 156 161	144 157 161	147 158 161	150 159 161
320,000	138 151 159	139 152 159	140 153 159	142 154 159	145 155 159	148 156 159
310,000	135 147 157	136 148 157	137 149 157	139 150 157	142 151 157	145 152 157
300,000	132 145 154	133 146 154	134 147 154	136 148 154	139 149 154	142 150 154
290,000	129 142 152	130 143 152	131 144 152	133 145 152	136 146 152	139 147 152
280,000	126 139 150	127 140 150	128 141 150	130 142 150	133 143 150	136 144 150
270,000	122 136 148	123 137 148	124 138 148	126 139 148	129 140 148	132 141 148
260,000	119 133 145	120 134 145	121 135 145	123 136 145	126 137 145	129 138 145
250,000	116 130 143	117 131 143	118 132 143	120 133 143	123 134 143	126 135 143
240,000	113 127 140	114 128 140	115 129 140	117 130 140	120 131 140	123 132 140
230,000	109 123 137	110 124 137	111 125 137	113 126 137	116 127 137	119 128 137
220,000	106 120 134	107 121 134	108 122 134	110 123 134	113 124 134	116 125 134
210,000	102 117 132	103 118 132	104 119 132	106 120 132	109 121 132	112 122 132
200,000	98 113 129	99 114 129	100 115 129	102 116 129	105 117 129	108 118 129

**NOTE:**

Minimum speeds must be checked at table below.

BASIC TAKEOFF SPEEDS - FLAPS 18°									
TAKEOFF WEIGHT (1000 LBS)	200	220	240	260	280	300	320	340	360
V1 (KNOTS, IAS)	93.0	100.5	107.5	114.0	120.5	126.5	132.5	138.0	143.5
VR (KNOTS, IAS)	110.0	117.0	124.0	130.0	136.0	142.0	147.5	153.0	158.0
V2 (KNOTS, IAS)	130.5	136.0	141.5	146.5	151.5	156.0	160.5	165.0	169.0
1.2V <sub>s</sub> (KNOTS, IAS)	127.0	133.0	139.0	144.5	149.5	154.0	159.0	164.0	169.0

		V1 BASIC	VR BASIC	V2 BASIC
SLOPE PER 1%	UPHILL	+2.0%	+0.5 KNOTS	-0.5 KNOTS
	DOWNHILL	-2.0%	-0.5 KNOTS	+0.5 KNOTS
WIND PER 10 KTS	HEADWIND	+0.8 KNOTS	0	0
	TAILWIND	-2 KNOTS		

\*USE THE HIGHER OF V2 CORRECTED FOR ALTITUDE, TEMPERATURE AND SLOPE AND 1.2 V<sub>s</sub> AS V2 BASIC. FLAP RETRACTION SPEED = V2 + 25 KNOTS, IAS.

# DC-8 FLIGHT OPERATING MANUAL



AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.

PERFORMANCE PROCEDURES

PAGE: 4G-6D  
REV: #33  
DATE: 10-31-97

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INTENTIONALLY

LEFT

BLANK



STABILIZER TRIM SETTING

DC-8-62

FLAPS	WEIGHT 1000 LBS	STABILIZER SETTING					CG - % MAC			
		18	20	22	24	26	28	30	32	34
18°	350	10.0	8.8	7.7	6.4	5.3	4.1	2.9	1.7	0.5
	340	9.6	8.5	7.4	6.2	5.0	3.9	2.7	1.5	0.3
	320	9.1	8.0	6.9	5.7	4.6	3.6	2.5	1.4	0.1
	300	8.5	7.5	6.4	5.3	4.3	3.3	2.2	1.2	0.0
	290	8.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	-0.1
	280	7.6	6.6	5.6	4.6	3.7	2.7	1.7	0.8	-0.2
	270	7.3	6.3	5.4	4.4	3.5	2.5	1.6	0.6	-0.3
	260	6.9	6.0	5.1	4.2	3.2	2.3	1.4	0.4	-0.5
	250	6.5	5.6	4.7	3.8	2.9	2.0	1.1	0.2	-0.7
	240	6.1	5.2	4.3	3.4	2.5	1.6	0.8	-0.1	-1.0
	230	5.7	4.8	3.9	3.1	2.2	1.3	0.4	-0.4	-1.0
	220	5.3	4.4	3.6	2.7	1.9	1.0	-0.1	-0.8	-1.0
	210	4.8	4.1	3.2	2.4	1.5	0.7	-0.3	-1.0	-1.0
	200	4.6	3.8	2.9	2.1	1.2	0.4	-0.6	-1.0	-1.0
190	4.1	3.3	2.4	1.7	0.8	0.0	-0.8	-1.0	-1.0	
180	3.5	2.8	2.1	1.3	0.4	-0.4	-1.0	-1.0	-1.0	

FLAPS	WEIGHT 1000 LBS	STABILIZER SETTING					CG - % MAC			
		18	20	22	24	26	28	30	32	34
23°	350	9.4	8.2	7.0	5.8	4.5	3.3	2.1	0.9	-0.4
	340	9.1	7.9	6.7	5.5	4.2	3.1	2.0	0.7	-0.4
	320	8.4	7.2	6.2	5.1	4.0	2.9	1.8	0.6	-0.5
	300	7.9	6.8	5.8	4.7	3.6	2.5	1.5	0.5	-0.6
	290	7.5	6.5	5.5	4.4	3.4	2.4	1.4	0.3	-0.7
	280	7.2	6.2	5.2	4.2	3.2	2.2	1.3	0.2	-0.8
	270	7.0	6.0	5.0	4.0	3.0	2.0	1.0	0.1	-0.9
	260	6.6	5.6	4.7	3.7	2.8	1.8	0.9	0.0	-1.0
	250	6.2	5.2	4.3	3.4	2.5	1.5	0.6	-0.2	-1.0
	240	5.8	4.9	4.0	3.2	2.2	1.4	0.5	-0.4	-1.0
	230	5.4	4.6	3.7	2.9	2.0	1.1	0.2	-0.7	-1.0
	220	5.1	4.2	3.4	2.3	1.7	0.8	-0.1	-0.9	-1.0
	210	4.6	3.8	3.0	2.1	1.3	0.5	-0.4	-1.0	-1.0
	200	4.2	3.4	2.6	1.6	1.0	0.1	-0.7	-1.0	-1.0
190	3.8	3.0	2.2	1.4	0.6	-0.2	-0.9	-1.0	-1.0	
180	3.5	2.6	1.8	1.1	0.3	-0.5	-1.0	-1.0	-1.0	



FOUR ENGINE NORMAL CLIMB DC-8-62

T.O.G.W. 350,000 - 340,001 LBS										
PRESSURE ALTITUDE	STD. TEMP	AVG. TAS	FUEL TIME +20C		FUEL TIME +10C		FUEL TIME STD		FUEL TIME -10C	
31,000	-46	389			16108	42	13636	33	11857	27
29,000	-42	379	17661	47	14215	36	12231	29	10865	24
25,000	-35	355	13336	33	11323	27	8985	22	9039	19
21,000	-27	337	10603	25	9259	20	8311	17	7515	15
15,000	-15	304	7807	17	6632	14	8255	12	5813	11
T.O.G.W. 340,000 - 330,001 LBS										
33,000	-50	400			17554	49	14306	37		
31,000	-45	388	18734	53	14796	38	12543	31	11184	25
29,000	-42	375	16089	43	13280	33	11541	27	10320	23
25,000	-35	352	12509	31	10725	25	9516	21	9651	18
21,000	-27	334	10044	24	8829	19	7961	17	7318	15
15,000	-15	305	7263	16	6666	14	6024	12	5613	11
T.O.G.W. 330,000 - 320,001 LBS										
33,000	-50	386			15557	42	13180	33	11577	28
31,000	-46	385	16868	47	13715	35	11568	29	10582	24
29,000	-42	375	14861	40	12456	31	10917	26	9818	22
25,000	-35	352	11766	29	10175	24	9079	20	8255	17
21,000	-27	335	9630	22	8428	19	7632	16	7037	14
15,000	-15	298	6942	15	6295	13	5804	11	5422	10
T.O.G.W. 320,000 - 310,001 LBS										
33,000	-50	396	17767	51	14187	38	12235	31	10869	26
31,000	-46	386	15390	42	12788	33	11179	27	10034	23
29,000	-42	370	13805	37	11718	29	10346	23	9352	21
25,000	-35	355	11092	27	9667	21	8670	19	7940	17
21,000	-27	335	9054	21	8063	20	7321	15	6770	13
15,000	-15	291	6642	15	6048	13	5595	11	5240	10
T.O.G.W. 310,000 - 300,001 LBS										
35,000	-54	401			15166	43	12908	34		
33,000	-50	390	15912	45	13099	35	11439	28	10548	24
31,000	-46	384	14167	39	11967	30	10552	25	9628	21
29,000	-42	376	12885	34	11043	27	9816	23	8915	20
25,000	-35	352	10478	25	9196	21	8286	18	7613	16
21,000	-27	334	8613	20	7700	17	7026	15	6515	13
15,000	-15	303	6360	14	5815	12	5395	11	5065	10
T.O.G.W. 300,000 - 290,001 LBS										
35,000	-54	401	16874	51	13601	38	11836	31	10661	26
33,000	-50	390	14496	41	12185	32	10746	27	9693	23
31,000	-46	380	13135	35	11240	28	9964	24	9061	21
29,000	-42	374	12038	32	10431	26	9326	22	8505	19
25,000	-35	365	9915	24	8756	20	7924	17	7303	15
21,000	-27	332	8202	19	7367	16	6746	14	6272	13
15,000	-15	304	6096	13	5595	12	5205	10	4898	9
T.O.G.W. 290,000 - 280,001 LBS										
35,000	-54	400	14975	44	12483	34	11003	28	9909	24
33,000	-50	389	13343	37	11391	30	10127	25	9188	21
31,000	-46	382	12238	33	10685	27	9462	23	8626	19
29,000	-42	375	11298	29	9870	24	8871	21	8122	18
25,000	-35	351	9396	23	8345	19	7582	17	7009	15
21,000	-27	332	7818	18	7063	15	6480	13	6039	12
15,000	-15	304	5846	13	5385	11	5024	10	4637	9
T.O.G.W. 280,000 - 270,001 LBS										
37,000	-57	405			13198	33	11528	31	10300	27
35,000	-54	394	13614	39	11590	31	10303	25	9342	23
33,000	-50	390	12321	34	10689	27	9666	23	8723	20
31,000	-46	378	11449	30	9991	27	8961	21	8221	18
29,000	-42	372	10633	28	9354	23	8448	20	7762	17
25,000	-36	354	8915	22	7959	18	7259	15	6728	14
21,000	-27	333	7457	17	6758	15	6226	13	5817	12
15,000	-15	304	5610	12	5185	11	4850	10	4682	9



**FOUR ENGINE NORMAL CLIMB DC-8-62**

**T.O.G.W. 270,000 - 260,001 LBS**

PRESSURE ALTITUDE	STD. TEMP	AVG. TAS	FUEL TIME +20C		FUEL TIME +10C		FUEL TIME STD		FUEL TIME -10C	
37,000	-57	402	14238	43	11939	34	10600	29	9683	24
35,000	-54	394	12524	36	10806	29	9687	25	8834	21
33,000	-50	388	11529	32	10060	26	9066	22	8293	19
31,000	-46	379	10744	28	9448	23	8535	20	7842	18
29,000	-42	372	10028	26	8878	22	8052	18	7422	16
25,000	-35	363	8468	21	7597	17	6952	15	6461	14
20,000	-27	331	7218	17	6473	14	5983	13	5602	11
15,000	-15	288	5386	12	4993	10	4682	9	4433	9

**T.O.G.W. 260,000 - 250,001 LBS**

37,000	-57	404	12827	38	11011	31	9871	26	8992	23
35,000	-54	396	11607	33	10130	27	9135	23	8370	20
33,000	-50	389	10787	29	9490	24	8586	21	7894	18
31,000	-46	379	10109	27	8949	22	8120	19	7486	17
29,000	-42	373	9475	24	8435	20	7680	18	7100	15
25,000	-35	350	8051	20	7254	17	6660	15	6205	13
20,000	-27	331	6797	16	6205	14	5751	12	5396	11
15,000	-15	300	5173	11	4811	10	4522	9	4289	8

**T.O.G.W. 250,000 - 240,001 LBS**

39,000	-57	409			11639	35	10322	29	9313	25
37,000	-57	401	11763	34	10247	28	9250	24	8475	21
35,000	-54	392	10817	30	9625	25	8634	22	7944	19
33,000	-50	386	10124	27	8970	23	8151	20	7520	17
31,000	-46	379	9533	25	8488	21	7732	18	7150	16
29,000	-42	368	8967	23	8023	19	7330	17	6795	15
25,000	-35	349	7659	19	6930	15	6382	14	5959	12
20,000	-27	333	6494	15	5949	13	5528	12	5196	10
15,000	-15	299	4970	11	4635	10	4367	9	4150	8

**T.O.G.W. 240,000 - 230,001 LBS**

39,000	-57	406	12353	39	10570	31	9507	26	8670	23
37,000	-57	396	10886	31	9585	26	8702	23	8009	20
35,000	-54	389	10120	28	8978	23	8175	20	7548	18
33,000	-50	384	9526	26	8491	21	7747	19	7169	16
31,000	-46	377	9005	24	8060	20	7368	17	6832	15
29,000	-42	368	8495	22	7636	18	6999	16	6505	14
25,000	-35	361	7291	18	6622	15	6116	13	5723	12
20,000	-27	334	6206	14	5703	12	5313	11	5006	10
15,000	-15	297	4777	10	4467	9	4218	8	4015	8

**T.O.G.W. 230,000 - 220,001 LBS**

41,000	-57	413			11437	37	10045	30	9002	26
39,000	-57	403	11183	34	9767	28	8857	24	8132	21
37,000	-57	397	10134	29	8997	24	8207	21	7583	19
35,000	-54	388	9497	26	8478	22	7750	19	7179	17
33,000	-50	384	8981	24	8048	20	7368	18	6838	16
31,000	-46	378	8518	22	7669	19	7025	16	6531	15
29,000	-42	370	8055	20	6329	14	6685	15	6228	13
25,000	-35	350	6943	17	5468	12	5861	13	4496	11
20,000	-27	332	5931	14	4305	9	5106	11	4821	10
15,000	-15	312	4591	10	4373	8	4373	8	3886	7

**T.O.G.W. 220,000 - 210,001 LBS**

41,000	-57	410	11980	40	10125	31	9112	27	8304	23
39,000	-57	403	10283	31	9095	26	8296	22	7657	20
37,000	-57	396	9473	27	8467	23	7755	20	7190	18
36,000	-54	390	8933	24	8017	21	7354	18	6833	16
33,000	-50	332	8480	23	7634	19	7013	17	6525	15
31,000	-46	378	8066	21	7283	18	6700	16	6244	14
29,000	-42	371	7642	19	6925	17	6385	15	5962	13
25,000	-35	353	6613	16	6048	14	5615	13	5277	11
20,000	-27	331	5669	13	5242	11	4907	10	4642	9
15,000	-15	302	4414	10	4149	9	3934	8	3758	7



FOUR ENGINE NORMAL CLIMB DC-8-62

T.O.G.W. 210,000 - 200,001 LBS

PRESSURE ALTITUDE	STD. TEMP	AVG. TAS	FUEL TIME +20C		FUEL TIME +10C		FUEL TIME STD		FUEL TIME -10C	
41,000	-57	410	10619	34	9267	28	8427	24	7747	21
39,000	-57	406	9533	28	8507	24	7797	21	7226	18
37,000	-57	405	8881	25	7983	21	7338	19	6824	17
35,000	-54	393	8416	23	7589	19	6984	17	6506	15
33,000	-50	384	8017	21	7247	18	6577	16	6227	14
31,000	-46	374	7642	20	6926	17	6390	15	5968	13
29,000	-42	368	7253	18	6596	16	6098	14	5707	12
25,000	-35	350	6298	14	5779	13	5379	12	5065	10
21,000	-27	334	5418	13	5025	11	4714	10	4467	9
15,000	-15	305	4243	9	3998	8	3796	7	3634	7

T.O.G.W. 200,000 - 190,001 LBS

41,000	-57	407	9676	30	8580	25	7855	22	7264	19
39,000	-57	401	8883	26	7982	22	7345	19	6831	17
37,000	-57	394	8343	23	7536	20	6949	17	6480	16
35,000	-54	387	7939	21	7189	18	6635	16	6196	14
33,000	-50	384	7583	20	6881	17	6357	15	5943	13
31,000	-46	376	7242	19	6587	16	6094	14	5704	13
29,000	-42	368	6885	17	6282	15	5823	13	5461	12
25,000	-35	349	5998	14	5520	13	5150	11	4859	10
21,000	-27	329	5178	11	4815	10	4527	9	4298	9
15,000	-15	299	4078	9	3852	8	3667	7	3514	7

T.O.G.W. 190,000 - 180,001 LBS

41,000	-57	406	8921	27	7991	23	7353	20	6831	18
39,000	-57	398	8306	24	7504	20	6929	18	6464	16
37,000	-57	393	7849	22	7120	19	6585	16	6158	15
35,000	-54	388	7495	20	6813	17	6305	15	5901	14
33,000	-50	384	7175	19	6533	16	6052	14	5670	13
31,000	-46	376	6863	18	6264	15	5809	13	5449	12
29,000	-42	370	6534	16	5981	14	5558	13	5222	11
25,000	-35	349	5709	14	5271	12	4929	11	4659	11
21,000	-27	330	4946	11	4612	10	4346	9	4133	8
15,000	-15	303	3919	8	3711	8	3539	7	3397	7





MAXIMUM RECOMMENDED CRUISE WEIGHT JT3D-7 (DC-8-62)

The maximum weight at which speed for long range cruise can be maintained at maximum cruise thrust. These weights will provide a minimum 1.35G buffet margin.

FLIGHT LEVEL STD. TEMP		STATIC AIR TEMPERATURE	
		T <sub>s</sub> + 10°C AND BELOW	T <sub>s</sub> + 20°C
410	WEIGHT	221,000	212,000
-57°C	MACH/IAS	.791/234	.790/234
400	WEIGHT	233,000	225,000
-57°C	MACH/IAS	.792/239	.791/238
390	WEIGHT	246,000	237,500
-57°C	MACH/IAS	.793/246	.792/246
380	WEIGHT	258,500	250,000
-57°C	MACH/IAS	.793/252	.792/251
370	WEIGHT	271,500	262,500
-57°C	MACH/IAS	.794/257	.792/256
360	WEIGHT	284,000	275,500
-56°C	MACH/IAS	.794/263	.793/262
350	WEIGHT	296,000	288,500
-54°C	MACH/IAS	.793/269	.792/268
340	WEIGHT	310,000	300,500
-52°C	MACH/IAS	.793/275	.791/274
330	WEIGHT	322,000	312,000
-50°C	MACH/IAS	.792/281	.791/281
320	WEIGHT	336,500	324,000
-48°C	MACH/IAS	.792/287	.791/286
310	WEIGHT	350,000	335,000
-46°C	MACH/IAS	.793/294	.791/293
300	WEIGHT	---	347,000
-44°C	MACH/IAS		.791/300



**CRUISE THRUST SETTING CHART**

**MACH .82 STANDARD - JT3D-7 ENGINES**

FLT LVL STD TEMP	MACH IAS TAS		GROSS WEIGHT - X -1000 LBS																
			355	345	335	325	315	305	295	285	275	265	255	245	235	225	215	205	195
410 -57°C	.82	EPR																1.82	1.76
	244 472	NAM/1000																46.4	48.8
390 -57°C	.82	EPR													1.87	1.82	1.77	1.72	1.68
	256 472	NAM/1000													40.3	42.5	44.5	46.5	48.5
370 -57°C	.82	EPR											1.85	1.80	1.76	1.72	1.68	1.65	1.62
	267 472	NAM/1000											37.4	39.3	40.9	42.5	44.2	45.8	47.2
350 -54°C	.82	EPR							1.87	1.83	1.78	1.75	1.71	1.68	1.64	1.62	1.59	1.57	1.57
	280 474	NAM/1000							33.4	35.0	36.5	37.8	39.1	40.5	41.8	43.0	44.1	45.1	45.1
330 -50°C	.82	EPR						1.84	1.80	1.76	1.73	1.70	1.67	1.64	1.61	1.59	1.57	1.56	1.54
	293 478	NAM/1000						31.6	32.8	33.9	35.0	36.1	37.2	38.3	39.3	40.2	41.0	41.8	42.5
310 -46°C	.82	EPR			1.84	1.80	1.77	1.74	1.71	1.68	1.65	1.63	1.61	1.59	1.57	1.56	1.54	1.53	1.52
	306 483	NAM/1000			28.8	29.8	30.7	31.6	32.6	33.5	34.4	35.3	36.1	36.8	37.5	38.2	38.7	39.2	39.6
290 -42°C	.82	EPR	1.80	1.77	1.74	1.71	1.69	1.66	1.64	1.62	1.60	1.58	1.57	1.55	1.54	1.53	1.52	1.52	1.51
	319 487	NAM/1000	27.2	28.0	28.8	29.6	30.3	31.1	31.9	32.5	33.1	33.8	34.4	34.9	35.3	35.7	36.1	36.4	36.7
280 -40°C	.82	EPR	1.75	1.73	1.70	1.68	1.65	1.63	1.61	1.60	1.58	1.57	1.55	1.54	1.53	1.52	1.52	1.51	1.50
	326 489	NAM/1000	27.2	27.9	28.6	29.3	30.0	30.7	31.3	31.9	32.4	33.0	33.4	33.8	34.2	34.5	34.8	35.1	35.4
270 -38°C	.82	EPR	1.71	1.69	1.67	1.64	1.63	1.61	1.59	1.58	1.56	1.55	1.54	1.53	1.52	1.52	1.51	1.50	1.50
	333 491	NAM/1000	27.1	27.7	28.4	29.0	29.6	30.1	30.7	31.2	31.6	32.1	32.4	32.8	33.0	33.3	33.5	33.8	34.1
260 -37°C	.82	EPR	1.68	1.66	1.64	1.62	1.60	1.59	1.57	1.56	1.55	1.54	1.53	1.52	1.52	1.51	1.50	1.50	1.49
	340 493	NAM/1000	26.9	27.5	28.1	28.6	29.0	29.5	30.0	30.4	30.8	31.1	31.4	31.6	31.9	32.1	32.4	32.6	33.0
250 -35°C	.82	EPR	1.65	1.63	1.61	1.60	1.58	1.57	1.56	1.55	1.54	1.53	1.52	1.52	1.51	1.50	1.50	1.49	1.48
	347 495	NAM/1000	26.6	27.1	27.5	28.0	28.4	28.6	29.2	29.5	30.0	30.1	30.3	30.5	30.8	31.0	31.2	31.5	31.7
240 -33°C	.82	EPR	1.62	1.60	1.59	1.58	1.56	1.55	1.54	1.54	1.54	1.52	1.52	1.51	1.50	1.50	1.49	1.48	1.48
	354 497	NAM/1000	26.2	26.6	27.0	27.4	27.8	28.1	28.4	28.6	28.9	29.1	29.3	29.5	29.7	29.9	30.1	30.3	30.6
230 -31°C	.82	EPR	1.60	1.58	1.57	1.56	1.55	1.54	1.53	1.53	1.52	1.52	1.51	1.50	1.50	1.49	1.48	1.48	1.47
	361 499	NAM/1000	25.7	26.1	26.4	26.7	27.0	27.3	27.5	27.7	27.9	28.1	28.3	28.5	28.7	28.9	29.1	29.3	29.4
220 -29°C	.82	EPR	1.58	1.57	1.56	1.55	1.54	1.53	1.53	1.52	1.51	1.51	1.50	1.50	1.49	1.49	1.48	1.47	1.47
	368 501	NAM/1000	25.1	25.5	25.7	26.0	26.2	26.4	26.6	26.8	26.9	27.1	27.3	27.5	27.7	27.8	28.0	28.2	28.3

- NOTES: 1. EPR AND NAM/1000 LBS ARE FOR LISTED MACH NUMBER.  
2. TAS (KNOTS) IS FOR STANDARD TEMPERATURE. ADD 1 KNOT/°C ABOVE STANDARD. SUBTRACT 1 KNOT/°C BELOW STANDARD.

3. FUEL CONSUMPTION (1000 LBS/HR) =  $\frac{\text{TAS FOR ACTUAL TEMPERATURE}}{\text{NAM/1000 LBS}}$



CRUISE THRUST SETTING CHART

MACH .80 - JT3D-7 ENGINES

FLT LVL STD TEMP	MACH IAS TAS		GROSS WEIGHT - X -1000 LBS																		
			355	345	335	325	315	305	295	285	275	265	255	245	235	225	215	205	195		
410 -57°C	.80 237 461	EPR																	1.84	1.78	1.74
		NAM/1000																		45.4	47.9
390 -57°C	.80 249 461	EPR												1.89	1.83	1.78	1.74	1.70	1.66		
		NAM/1000													39.6	41.8	43.9	45.6	47.5	49.5	
370 -57°C	.80 260 461	EPR											1.86	1.81	1.77	1.73	1.69	1.66	1.62	1.59	
		NAM/1000												37.0	38.8	40.4	41.9	43.4	45.1	46.8	48.3
350 -54°C	.80 272 464	EPR							1.88	1.83	1.79	1.75	1.72	1.69	1.65	1.62	1.59	1.56	1.54	1.52	1.51
		NAM/1000							33.2	34.7	36.2	37.4	38.6	40.0	41.3	42.7	44.0	45.4	46.6		
330 -50°C	.80 285 468	EPR				1.87	1.84	1.80	1.76	1.73	1.70	1.67	1.64	1.61	1.59	1.56	1.54	1.52	1.51	1.50	1.49
		NAM/1000				30.4	31.4	32.6	33.7	34.7	35.8	36.9	38.1	39.2	40.3	41.4	42.4	43.4	44.1		
310 -46°C	.80 298 472	EPR		1.84	1.80	1.77	1.74	1.71	1.69	1.66	1.63	1.61	1.58	1.56	1.54	1.52	1.51	1.50	1.49	1.48	1.47
		NAM/1000		28.7	29.7	30.7	31.5	32.4	33.3	34.2	35.2	36.1	37.0	37.9	38.8	39.6	40.2	40.8	41.3		
290 -42°C	.80 311 476	EPR	1.77	1.74	1.72	1.69	1.67	1.64	1.62	1.59	1.57	1.55	1.54	1.52	1.51	1.50	1.49	1.48	1.47	1.46	1.45
		NAM/1000	28.0	28.7	29.4	30.2	31.0	31.8	32.6	33.3	34.1	34.8	35.5	36.2	36.7	37.2	37.6	37.9	38.4		
280 -40°C	.80 317 478	EPR	1.73	1.70	1.68	1.65	1.63	1.61	1.59	1.57	1.55	1.53	1.52	1.51	1.50	1.49	1.48	1.47	1.46	1.45	1.44
		NAM/1000	27.8	28.5	29.2	30.0	30.7	31.4	32.1	32.8	33.4	34.1	34.7	35.1	35.6	36.0	36.3	36.7	37.1		
270 -38°C	.80 324 480	EPR	1.69	1.67	1.64	1.62	1.60	1.58	1.56	1.55	1.53	1.52	1.51	1.50	1.49	1.48	1.47	1.46	1.45	1.44	1.43
		NAM/1000	27.7	28.3	29.0	29.7	30.3	30.9	31.6	32.2	32.8	33.3	33.7	34.1	34.4	34.7	35.1	35.4	35.8		
260 -37°C	.80 331 482	EPR	1.65	1.63	1.61	1.59	1.58	1.56	1.54	1.53	1.51	1.50	1.49	1.49	1.48	1.47	1.46	1.45	1.45	1.44	1.43
		NAM/1000	27.5	28.1	28.7	29.2	29.8	30.4	31.0	31.5	31.9	32.3	32.7	33.0	33.2	33.6	33.9	34.3	34.6		
250 -35°C	.80 338 484	EPR	1.62	1.60	1.59	1.57	1.55	1.54	1.52	1.51	1.50	1.49	1.49	1.48	1.47	1.46	1.45	1.45	1.44	1.43	1.43
		NAM/1000	27.2	27.7	28.2	28.8	29.3	29.8	30.3	30.7	31.0	31.3	31.6	31.9	32.1	32.5	32.8	33.1	33.4		
240 -33°C	.80 344 486	EPR	1.59	1.58	1.56	1.55	1.53	1.52	1.51	1.50	1.49	1.48	1.48	1.47	1.46	1.45	1.45	1.44	1.43	1.43	1.42
		NAM/1000	26.8	27.3	27.8	28.3	28.7	29.1	29.5	29.8	30.1	30.3	30.5	30.8	31.1	31.4	31.7	32.0	32.3		
230 -31°C	.80 351 488	EPR	1.57	1.55	1.54	1.53	1.52	1.51	1.50	1.49	1.48	1.48	1.47	1.46	1.45	1.45	1.44	1.43	1.43	1.42	1.42
		NAM/1000	25.4	26.8	27.3	27.7	28.0	28.3	28.6	28.9	29.1	29.3	29.5	29.8	30.1	30.4	30.6	30.9	31.1		
220 -29°C	.80 358 490	EPR	1.55	1.53	1.52	1.51	1.50	1.50	1.49	1.48	1.48	1.47	1.46	1.45	1.45	1.44	1.43	1.43	1.42	1.42	1.41
		NAM/1000	25.9	26.3	26.7	27.0	27.2	27.5	27.7	27.9	28.1	28.3	28.6	28.9	29.1	29.4	29.6	29.8	30.0		

- NOTES: 1. EPR AND NAM/1000 LBS ARE FOR LISTED MACH NUMBER.
2. TAS (KNOTS) IS FOR STANDARD TEMPERATURE. ADD 1 KNOT/°C ABOVE STANDARD. SUBTRACT 1 KNOT/°C BELOW STANDARD.

$$3. \text{ FUEL CONSUMPTION (1000 LBS/HR) } = \frac{\text{TAS FOR ACTUAL TEMPERATURE}}{\text{NAM/1000 LBS}}$$



CRUISE THRUST SETTING CHART

MACH .78 - JT3D-7 ENGINES

FLT LVL STD TEMP		GROSS WEIGHT - X - 1000 LBS																
		355	345	335	325	315	305	295	285	275	265	255	245	235	225	215	205	195
410 -57°C	EPR															1.82	1.76	1.72
	M/TAS															.780/449	.780/449	.780/449
	IAS															231	231	231
	NAM/1000															46.1	46.7	50.8
390 -57°C	EPR													1.81	1.76	1.72	1.68	
	M/TAS													.780/449	.780/449	.780/449	.780/449	
	IAS													242	242	242	242	
	NAM/1000													42.3	44.6	46.4	48.2	
370 -57°C	EPR										1.85	1.79	1.75	1.71	1.68	1.64	1.61	
	M/TAS										.780/449	.780/449	.780/449	.780/449	.780/449	.780/449	.780/449	
	IAS										253	253	253	253	253	253	253	
	NAM/1000										37.5	39.5	41.1	42.5	44.1	45.8	47.5	
350 -54°C	EPR									1.81	1.77	1.73	1.70	1.67	1.63	1.60	1.57	
	M/TAS									.780/451	.780/451	.780/451	.780/451	.780/451	.780/451	.780/451	.780/451	
	IAS									265	265	265	265	265	265	265	265	
	NAM/1000									35.3	36.7	38.1	39.2	40.6	42.0	43.4	44.8	
330 -50°C	EPR									1.82	1.78	1.74	1.72	1.69	1.66	1.63	1.60	
	M/TAS									.780/455	.780/455	.780/455	.780/455	.780/455	.780/455	.780/455	.780/455	
	IAS									277	277	277	277	277	277	277	277	
	NAM/1000									32.0	33.2	34.3	35.3	36.3	37.5	38.6	39.8	
310 -46°C	EPR		1.82	1.78	1.75	1.72	1.70	1.67	1.64	1.61	1.59	1.56	1.54	1.52	1.50	1.49	1.47	
	M/TAS		.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	.780/459	
	IAS		290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	
	NAM/1000		29.2	30.2	31.2	32.0	32.9	33.8	34.8	35.7	36.7	37.7	38.6	39.6	40.5	41.2	41.9	
290 -42°C	EPR	1.75	1.72	1.70	1.67	1.65	1.62	1.60	1.58	1.56	1.54	1.52	1.50	1.49	1.47	1.46	1.45	
	M/TAS	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	.780/463	
	IAS	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	303	
	NAM/1000	28.5	29.2	29.9	30.7	31.5	32.3	33.1	33.9	34.7	35.5	36.3	37.0	37.8	38.2	38.7	39.2	
280 -40°C	EPR	1.71	1.68	1.66	1.64	1.61	1.59	1.57	1.55	1.53	1.51	1.50	1.48	1.47	1.46	1.45	1.44	
	M/TAS	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	.780/465	
	IAS	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	
	NAM/1000	28.3	29.0	29.7	30.4	31.2	32.0	32.7	33.4	34.1	34.8	35.5	36.0	36.5	37.0	37.4	37.8	
270 -38°C	EPR	1.67	1.65	1.63	1.60	1.58	1.56	1.55	1.53	1.51	1.50	1.48	1.47	1.46	1.45	1.44	1.43	
	M/TAS	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	.780/467	
	IAS	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	
	NAM/1000	28.1	28.8	29.5	30.1	30.8	31.5	32.2	32.8	33.5	34.0	34.5	35.0	35.4	35.8	36.2	36.7	
260 -37°C	EPR	1.64	1.61	1.59	1.57	1.56	1.54	1.52	1.51	1.49	1.48	1.47	1.46	1.45	1.44	1.43	1.42	
	M/TAS	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	.780/469	
	IAS	322	322	322	322	322	322	322	322	322	322	322	322	322	322	322	322	
	NAM/1000	27.9	28.5	29.1	29.8	30.4	31.0	31.6	32.2	32.7	33.1	33.5	33.9	34.2	34.6	35.1	35.5	
250 -35°C	EPR	1.60	1.58	1.57	1.55	1.53	1.52	1.50	1.49	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.41	
	M/TAS	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	.780/471	
	IAS	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	
	NAM/1000	27.6	28.2	28.8	29.3	30.0	30.4	31.0	31.4	31.8	32.1	32.5	32.8	33.2	33.6	34.0	34.3	
240 -33°C	EPR	1.58	1.56	1.54	1.53	1.51	1.50	1.49	1.48	1.47	1.46	1.45	1.44	1.44	1.43	1.42	1.41	
	M/TAS	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	.780/473	
	IAS	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335	
	NAM/1000	27.3	27.8	28.3	28.8	29.3	29.8	30.2	30.5	30.9	31.2	31.5	31.8	32.2	32.5	32.9	33.2	
230 -31°C	EPR	1.55	1.54	1.52	1.51	1.50	1.48	1.48	1.47	1.46	1.45	1.44	1.43	1.43	1.42	1.41	1.40	
	M/TAS	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	.780/475	
	IAS	341	341	341	341	341	341	341	341	341	341	341	341	341	341	341	341	
	NAM/1000	27.0	27.4	27.8	28.3	28.7	29.0	29.4	29.7	30.0	30.2	30.5	30.8	31.2	31.5	31.8	32.1	
220 -29°C	EPR	1.53	1.52	1.50	1.49	1.48	1.47	1.46	1.46	1.45	1.44	1.43	1.43	1.42	1.41	1.40	1.40	
	M/TAS	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	.780/477	
	IAS	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	
	NAM/1000	26.4	26.9	27.3	27.6	28.0	28.2	28.5	28.8	29.0	29.3	29.6	29.9	30.2	30.5	30.8	31.1	
210 -27°C	EPR	1.51	1.50	1.49	1.48	1.47	1.46	1.46	1.45	1.44	1.43	1.43	1.42	1.41	1.40	1.40	1.39	
	M/TAS	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	.780/479	
	IAS	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	
	NAM/1000	25.6	26.3	26.6	26.9	27.2	27.4	27.6	27.8	28.1	28.4	28.7	29.0	29.2	29.5	29.7	30.0	
200 -25°C	EPR	1.49	1.48	1.48	1.47	1.46	1.45	1.45	1.44	1.43	1.42	1.42	1.41	1.40	1.40	1.39	1.39	
	M/TAS	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	.780/481	
	IAS	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	362	
	NAM/1000	25.4	25.6	25.9	26.1	26.4	26.6	26.8	27.0	27.3	27.5	27.7	28.0	28.3	28.5	28.8	29.0	

NOTES: 1. EPR AND NAM/1000 LBS ARE FOR LISTED MACH NUMBER.  
2. TAS (KNOTS) IS FOR STANDARD TEMPERATURE. ADD 1 KNOT/°C ABOVE STANDARD. SUBTRACT 1 KNOT/°C BELOW STANDARD.

3. FUEL CONSUMPTION (1000 LBS/HR) =  $\frac{\text{TAS FOR ACTUAL TEMPERATURE}}{\text{NAM/1000 LBS}}$



LONG RANGE CRUISE THRUST JT3D-7											
GROSS WEIGHT X 1,000 LBS.											
FL	335	315	295	275	255	235	215	195	175	155	
STD							.793/233	.786/231	.786/231	.786/231	
TMP							1.79/455	1.68/451	1.61/451	1.53/439	
410							47.4	52.8	56.9	62.0	
-57											
390							.792/244	.744/238	.774/238	.754/231	
-57							1.69/454	1.60/444	1.55/444	1.48/433	
370							48.0	52.0	55.5	59.6	
-57											
350							.780/252	.763/246	.763/246	.741/238	
-54							1.61/448	1.54/438	1.50/438	1.44/425	
330							47.3	50.7	53.5	57.5	
-50											
310							.769/259	.750/252	.750/252	.724/243	
-46							1.55/443	1.49/432	1.45/432	1.39/418	
290							46.0	48.9	51.5	55.6	
-43											
270							.771/272	.733/258	.733/258	.716/251	
-39							1.50/440	1.45/426	1.41/426	1.36/417	
							44.4	47.0	49.7	52.8	
							.745/274	.726/267	.726/267	.701/257	
							1.46/432	1.41/421	1.37/421	1.33/407	
							42.6	45.1	47.4	50.0	
							.734/282	.716/275	.716/275	.678/259	
							1.41/435	1.37/424	1.34/424	1.31/401	
							40.9	43.2	44.9	47.2	
							.724/290	.704/282	.704/282	.636/253	
							1.38/433	1.34/421	1.32/421	1.28/380	
							39.3	41.0	42.4	44.8	

MACH/IAS  
EPR/TAS  
MAM/1000 LBS.

ADJUSTMENTS: TAS (knots) is for STD TEMP. Add 1 knot/°C above Standard. Subtract one knot/°C below Standard.

NOTE: Fuel consumption (1000#/HR.) = IAS FOR ACTUAL TEMP.  
NAM/1000#

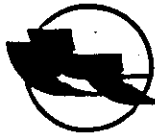


MAXIMUM CRUISE EPR JT3D-7 (DC-8-62)

RAT °C	SL-30T	35T	40T
50	1.34	ANY ICING BLEED ON ↓	
45	1.38		
40	1.42		
35	1.46		
30	1.50		
25	1.54	↓	
20	1.58	1.54	
15	1.62	1.58	
10	1.66	1.61	1.63
5	1.70	1.65	1.67
0	1.74	1.68	1.71
-5	1.77	1.71	1.75
-10	1.81	1.73	1.78
-15	1.84	1.76	1.82
-20	1.87	1.78	1.85
-25	1.90	1.81	1.88
-30	1.92	1.83	1.91
-35	1.95	1.85	1.94
-40	1.97	1.86	1.97
-45	1.99		1.99
-50	2.00		2.02

ADJUSTMENTS: If rain removal is on, subtract .01.

For each 5°C above standard temperature, add .02 up to a maximum total increase of .06 for  $T_S + 15^\circ\text{C}$  and above.



Initial Buffet Table G-Load 1.30 Weight & Altitude - Low (LO) & High (HI) Buffet Onset Speeds

Table with columns for Gross Wt., ALT, and rows for altitudes 410, 390, 370, 350, 330, 310, 290. Each row contains two columns (LO-HI) for each altitude (210-320).

G-LOAD 1.50

Table with columns for Gross Wt., ALT, and rows for altitudes 410, 390, 370, 350, 330, 310, 290. Each row contains two columns (LO-HI) for each altitude (210-320).



CRUISE THRUST SETTING CHART

3 ENGINE LONG RANGE CRUISE

FLT LVL STD TEMP	EPR MACH TAS IAS NAM/1000	GROSS WEIGHT - X - 1000 LBS																	
		355	345	335	325	315	305	295	285	275	265	255	245	235	225	215	205	195	
370 -57°C																	1.94 .750 430 242 45.1	1.90 .760 436 245 46.8	
350 -54°C														1.94 .752 435 255 41.1	1.90 .755 435 255 42.8	1.86 .755 435 255 44.3	1.82 .755 435 255 44.3	1.79 .755 435 255 44.3	1.74 .755 435 255 44.3
330 -50°C										1.95 .719 422 254 36.6	1.94 .761 443 269 37.7	1.90 .761 443 269 37.7	1.86 .753 438 266 40.5	1.82 .753 438 266 41.8	1.79 .753 438 266 43.1	1.74 .753 438 266 43.1	1.68 .753 438 266 43.1	1.68 .753 438 266 43.1	1.68 .753 438 266 43.1
310 -46°C									1.94 .727 427 268 34.0	1.91 .756 441 278 36.0	1.89 .756 444 280 36.1	1.85 .756 444 280 37.1	1.81 .756 444 280 38.2	1.78 .741 435 274 39.6	1.76 .741 435 274 40.5	1.74 .741 435 274 41.4	1.74 .741 435 274 41.4	1.74 .741 435 274 41.4	1.68 .741 435 274 41.4
290 -42°C								1.92 .727 430 280 31.7	1.90 .757 448 292 32.3	1.87 .757 448 292 33.3	1.84 .746 442 288 34.2	1.81 .746 442 288 35.3	1.78 .746 442 288 36.1	1.76 .710 420 273 38.1	1.71 .710 420 273 38.9	1.69 .710 420 273 39.7	1.67 .710 420 273 39.7	1.67 .710 420 273 39.7	1.61 .710 420 273 39.7
280 -40°C							1.90 .724 461 284 30.6	1.89 .752 447 296 31.3	1.87 .756 450 298 32.1	1.84 .756 450 298 32.6	1.81 .739 439 291 33.7	1.78 .739 439 291 34.7	1.75 .739 439 291 35.5	1.73 .690 410 270 37.4	1.71 .690 410 270 38.2	1.68 .690 410 270 39.0	1.66 .690 410 270 39.0	1.64 .690 410 270 39.0	1.58 .690 410 270 39.0
270 -38°C						1.89 .722 431 289 29.6	1.88 .763 447 301 30.3	1.83 .753 450 303 31.7	1.81 .753 450 303 32.4	1.78 .730 436 293 33.1	1.74 .730 436 293 34.1	1.73 .730 436 293 34.8	1.71 .730 436 293 35.4	1.68 .672 401 268 36.7	1.65 .672 401 268 37.5	1.63 .672 401 268 38.3	1.61 .672 401 268 38.3	1.61 .672 401 268 38.3	1.55 .672 401 268 38.3
260 -37°C				1.88 .719 431 294 28.7	1.87 .744 446 305 29.3	1.85 .751 455 311 29.8	1.83 .758 455 311 30.5	1.79 .746 447 306 31.4	1.76 .735 443 306 32.0	1.74 .735 443 306 32.5	1.73 .705 425 294 33.5	1.71 .705 425 294 34.0	1.69 .685 418 267 35.4	1.67 .685 418 267 36.2	1.65 .656 393 267 36.9	1.62 .656 393 267 37.7	1.60 .656 393 267 37.7	1.58 .656 393 267 37.7	1.52 .656 393 267 37.7
250 -35°C			1.86 .716 431 298 27.8	1.85 .736 445 309 28.4	1.84 .754 452 314 28.9	1.81 .751 452 314 29.5	1.79 .735 443 307 30.1	1.76 .719 435 307 31.0	1.74 .719 435 307 31.5	1.73 .705 425 294 32.0	1.69 .685 418 294 32.9	1.67 .685 418 294 33.5	1.65 .665 411 266 34.0	1.62 .665 411 266 34.8	1.59 .641 386 266 35.4	1.57 .641 386 266 36.2	1.55 .641 386 266 37.1	1.50 .641 386 266 37.1	1.47 .641 386 266 37.1
240 -33°C		1.85 .712 431 303 27.0	1.84 .736 445 314 27.5	1.83 .754 456 322 27.9	1.80 .740 447 315 28.6	1.78 .740 447 315 29.2	1.76 .719 435 306 29.7	1.73 .719 435 306 30.5	1.71 .705 425 294 31.0	1.70 .705 425 294 31.5	1.66 .685 418 294 32.3	1.62 .685 418 294 32.9	1.61 .665 411 266 33.4	1.59 .665 411 266 34.2	1.57 .641 386 266 34.8	1.55 .641 386 266 35.6	1.52 .641 386 266 36.4	1.47 .641 386 266 36.4	1.47 .641 386 266 36.4
230 -31°C		1.84 .709 430 307 26.2	1.83 .733 445 318 26.7	1.82 .749 455 326 27.5	1.80 .753 457 332 28.3	1.76 .728 442 316 28.3	1.73 .728 442 316 29.2	1.71 .701 426 304 29.9	1.70 .701 426 304 30.4	1.68 .688 418 288 30.9	1.66 .688 418 288 31.7	1.62 .666 411 266 32.3	1.61 .666 411 266 32.9	1.59 .641 386 266 33.4	1.57 .641 386 266 34.3	1.55 .618 375 266 34.3	1.51 .618 375 266 35.1	1.50 .618 375 266 35.8	1.46 .618 375 266 37.1
220 -29°C		1.81 .728 444 322 25.9	1.81 .744 453 330 26.2	1.79 .750 457 333 26.6	1.78 .750 457 333 27.0	1.73 .716 437 317 27.8	1.72 .716 437 317 28.2	1.67 .684 417 302 28.6	1.64 .684 417 302 29.3	1.62 .668 409 292 30.2	1.61 .668 409 292 30.9	1.56 .634 388 286 31.8	1.55 .634 388 286 32.4	1.53 .607 370 266 31.8	1.51 .607 370 266 32.4	1.49 .598 366 266 33.7	1.47 .598 366 266 34.5	1.47 .598 366 266 35.2	1.44 .598 366 266 36.4
210 -27°C		1.79 .738 452 333 25.4	1.78 .745 456 337 25.7	1.76 .745 456 337 26.1	1.75 .745 456 337 26.5	1.70 .703 430 317 27.3	1.69 .703 430 317 28.2	1.67 .668 409 301 28.6	1.64 .668 409 301 29.3	1.62 .652 401 299 29.8	1.61 .652 401 299 30.3	1.56 .628 388 284 31.2	1.55 .628 388 284 31.8	1.53 .607 366 269 31.5	1.51 .607 366 269 32.6	1.48 .590 363 269 33.3	1.47 .590 363 269 34.1	1.45 .590 363 269 34.9	1.42 .590 363 269 34.9
200 -25°C		1.77 .743 457 342 24.9	1.75 .734 451 338 25.4	1.73 .734 451 338 25.7	1.72 .734 451 338 26.1	1.67 .687 430 316 26.8	1.66 .687 430 316 27.2	1.65 .652 401 299 27.6	1.61 .652 401 299 28.3	1.59 .639 394 284 28.8	1.58 .639 394 284 29.3	1.53 .609 376 284 30.3	1.52 .609 376 284 31.0	1.50 .584 360 272 31.5	1.48 .584 360 272 32.6	1.46 .584 360 272 33.3	1.45 .584 360 272 34.1	1.43 .584 360 272 34.9	1.40 .584 360 272 34.9
190 -23°C		1.74 .736 454 346 24.5	1.71 .711 439 334 25.0	1.70 .711 439 334 25.4	1.69 .711 439 334 25.7	1.65 .672 415 315 26.3	1.62 .672 415 315 26.7	1.62 .639 394 299 27.1	1.58 .639 394 299 27.8	1.56 .639 394 284 28.3	1.55 .609 376 284 29.8	1.51 .609 376 284 30.3	1.49 .584 360 272 30.9	1.48 .584 360 272 31.9	1.44 .584 360 272 32.6	1.43 .584 360 272 33.3	1.43 .584 360 272 34.1	1.42 .584 360 272 34.9	1.39 .584 360 272 34.9
180 -21°C		1.72 .725 449 347 24.0	1.68 .691 428 328 24.6	1.67 .691 428 330 24.9	1.65 .691 428 330 25.3	1.62 .656 406 313 25.8	1.60 .656 406 313 26.3	1.59 .636 388 298 27.4	1.55 .636 388 298 27.9	1.54 .636 388 298 28.4	1.52 .609 371 285 29.3	1.48 .609 371 285 29.8	1.47 .576 357 274 30.4	1.46 .576 357 274 31.3	1.42 .576 357 274 31.9	1.41 .576 357 274 32.6	1.41 .576 357 274 33.3	1.40 .576 357 274 34.1	1.37 .576 357 274 34.9

NOTES:  
1. EPR AND NAM/1000 LBS ARE FOR LISTED MACH NUMBER.  
2. TAS (KNOTS) IS FOR STANDARD TEMPERATURE. ADD 1 KNOT/°C ABOVE STANDARD. SUBTRACT 1 KNOT/°C BELOW STANDARD.  
TAS FOR ACTUAL TEMPERATURE  
3. FUEL CONSUMPTION (1000 LBS/HR) = NAM/1000 LBS





**2 ENGINE LONG RANGE CRUISE JT3D-7 (DC-8-62)**

EPR and NAM/1000# are for listed Mach number. When operating in region to the left of heavy line, determine and set Max Continuous EPR if less than listed value.

FLIGHT LEVEL	STD TEMP °C	GROSS WEIGHT (1000 LBS.)																																																																																			
		340	330	320	310	300	290	280	270	260	250	240	230	220	210	200	190																																																																				
270	-39																	1.97	.586	350	37.2																																																																
250	-35																	1.99	.589	355	33.7	1.94	.584	352	34.9	1.89	.577	347	36.2																																																								
230	-31																	1.99	.587	356	31.0	1.95	.583	354	31.9	1.90	.578	350	33.0	1.86	.572	347	34.2	1.81	.562	341	35.5																																																
210	-27																	1.99	.591	361	28.5	1.95	.583	357	29.4	1.91	.573	353	30.2	1.87	.572	350	31.2	1.83	.566	346	32.2	1.79	.560	343	33.2	1.74	.547	334	34.3																																								
200	-25																	2.00	.594	365	27.4	1.95	.587	360	28.2	1.91	.579	356	29.0	1.87	.573	352	29.9	1.83	.566	348	30.8	1.79	.560	344	31.6	1.76	.554	340	32.6	1.71	.539	331	33.6																																				
150	-15																	1.89	.575	360	24.0	1.86	.570	357	24.6	1.83	.567	355	25.2	1.81	.564	353	25.8	1.77	.557	349	26.5	1.74	.549	344	27.1	1.69	.536	327	28.8	1.65	.522	319	29.8	1.62	.510	311	30.7	1.58	.497	305	31.6																												
130	-11																	1.88	.576	363	22.4	1.85	.569	359	23.0	1.82	.565	355	23.5	1.79	.565	351	24.1	1.76	.550	347	24.6	1.73	.544	343	25.2	1.69	.536	338	26.5	1.66	.527	326	27.3	1.63	.516	319	28.0	1.56	.496	313	28.8	1.53	.486	307	29.6	1.50	.479	302	30.5																				
110	-7																	1.90	.579	368	20.5	1.87	.575	365	21.0	1.84	.570	363	21.4	1.82	.565	359	21.9	1.79	.559	356	22.4	1.75	.551	350	22.9	1.72	.542	344	23.5	1.69	.532	338	24.1	1.66	.523	332	24.6	1.63	.514	327	25.2	1.60	.505	321	25.8	1.57	.497	316	26.4	1.54	.488	310	27.1	1.51	.482	306	27.8	1.49	.475	302	28.6	1.46	.470	299	29.3				
90	-3																	1.83	.567	363	20.1	1.80	.561	359	20.9	1.77	.555	355	21.4	1.75	.549	352	21.4	1.72	.543	348	21.9	1.69	.534	342	22.4	1.66	.525	336	22.8	1.63	.515	330	23.3	1.60	.505	323	23.9	1.57	.497	318	24.4	1.55	.489	313	25.0	1.52	.482	309	25.6	1.49	.475	304	26.2	1.47	.469	301	26.9	1.45	.463	297	27.5	1.43	.458	293	28.0				
70	1																	1.76	.552	356	19.6	1.73	.544	351	20.0	1.70	.536	346	20.4	1.68	.529	341	20.8	1.65	.521	336	21.2	1.63	.513	331	21.7	1.60	.505	326	22.2	1.57	.497	321	22.6	1.55	.489	316	23.1	1.53	.485	312	23.6	1.50	.479	309	24.1	1.48	.473	305	24.7	1.46	.467	301	25.3	1.44	.464	296	25.8	1.43	.459	291	26.3	1.41	.451	286	26.8	1.39	.443	286	26.8
50	5																	1.70	.537	349	19.0	1.67	.527	343	19.4	1.64	.517	336	19.8	1.62	.508	330	20.3	1.59	.500	324	20.7	1.57	.492	320	21.1	1.54	.485	315	21.5	1.52	.480	312	21.9	1.50	.474	308	22.4	1.48	.469	307	22.8	1.46	.464	305	23.3	1.44	.464	302	23.7	1.43	.459	298	24.1	1.40	.449	292	24.6	1.38	.443	285	25.1	1.36	.439	285	25.7				
30	9																	1.64	.518	339	18.5	1.61	.510	334	18.9	1.59	.502	329	19.3	1.57	.495	324	19.6	1.54	.489	320	20.0	1.52	.483	316	20.4	1.50	.478	313	20.8	1.48	.474	310	21.2	1.46	.469	307	21.6	1.45	.463	303	22.0	1.43	.457	299	22.3	1.41	.451	295	22.7	1.39	.444	291	23.1	1.37	.434	284	23.6	1.35	.424	278	24.1	1.33	.413	270	24.6				
10	13																	1.58	.499	329	18.1	1.56	.493	325	18.4	1.54	.487	321	18.7	1.52	.482	318	19.0	1.50	.478	315	19.3	1.48	.474	313	19.7	1.47	.471	310	20.0	1.45	.468	308	20.3	1.44	.464	306	20.6	1.42	.455	300	21.0	1.40	.445	293	21.3	1.38	.437	288	21.8	1.36	.429	283	22.2	1.34	.419	276	22.7	1.32	.409	269	23.1	1.30	.398	262	23.6				

ADJUSTMENTS: TAS (knots) is for standard temperature. Add 6 knots/10°C above standard. Subtract 6 knots/10°C below standard.

Fuel consumption (1000#/hr) = TAS for actual temperature/NAM/1000#



**NORMAL DESCENT**  
.80/280/250

Clean - Idle thrust except as required for pressurization.

PRESSURE ALTITUDE FEET	TIME MINUTES	FUEL USED LBS.	DISTANCE NAUTICAL MILES
41,000	:22	2,620	134
39,000	:21	2,570	126
37,000	:20	2,520	120
35,000	:19	2,470	113
33,000	:18	2,420	107
31,000	:17	2,380	100
29,000	:16	2,340	95
27,000	:16	2,300	89
25,000	:15	2,260	82
23,000	:14	2,200	76
21,000	:13	2,160	70
19,000	:13	2,120	64
17,000	:12	2,080	58
15,000	:11	2,040	53
10,000	:08	1,840	34
5,000	:04	1,600	17

**ADJUSTMENTS:** Add 2 miles to total distance for each 10,000 lbs. above 220,000 lbs. gross weight. Subtract 2 miles to total distance for each 10,000 lbs. below 220,000 lbs. gross weight.

**NOTE:** Includes fuel for straight in ILS approach.

**ALTIMETER CORRECTION - CAPT AND F/O 10,000 TO 42,000 FEET - DC-8-62**

Add the following correction to indicated altitude to obtain calibrated altitude when the air data system is OFF or the KIFIS flag is in view.

MACH NO.	ALTITUDE CORRECTION	
	NORMAL STATIC SOURCE	ALTERNATE STATIC SOURCE
.70	+ 7'	+ 240'
.75	+ 20'	+ 290'
.80	+ 50'	+ 375'
.82	+ 70'	+ 425'
.85	+ 120'	+ 500'

**MACH METER CORRECTION - DC-8-62**

INDICATED MACH	TRUE MACH	
	NORMAL STATIC SOURCE	ALTERNATE STATIC SOURCE
.60	.600'	.608
.70	.702'	.712
.75	.752'	.764
.80	.804'	.817
.82	.825'	.840
.85	.856'	.873

# DC-8 FLIGHT OPERATING MANUAL



AMERICAN  
INTERNATIONAL  
AIRWAYS, INC.

PERFORMANCE PROCEDURES

PAGE: 4G-19  
REV: #22  
DATE: 08-25-95

## HOLDING SPEEDS AND FUEL FLOW

4 ENGINE DC-8/62

GROSS WEIGHT	205	215	225	235	245
PRESS. ALT	F/F IAS	F/F IAS	F/F IAS	F/F IAS	F/F IAS
1,000	9840 195	10260 200	10604 200	11332 200	11332 200
3,000	9692 197	10068 201	10480 201	10760 201	11148 201
5,000	9496 198	9932 201	10192 201	10552 201	10980 201
7,000	9364 200	9656 206	10048 210	10380 210	10734 210
9,000	9120 202	9438 209	9882 211	10220 211	10576 211
11,000	8992 205	9376 211	9700 211	10040 211	10396 211
13,000	8848 208	9336 212	9896 212	9896 212	10232 212
15,000	8848 212	9304 219	9736 226	10144 231	10420 231
17,000	8564 202	8960 207	9348 213	9748 219	10174 225
19,000	8460 203	8848 210	9276 216	9708 223	9708 223
21,000	8384 206	8804 212	9220 219	9664 227	10068 230
23,000	8332 209	8744 216	9224 224	9680 231	10016 231
25,000	8340 214	8816 223	9308 231	9628 231	9964 231
27,000	8056 196	8608 203	8946 211	9393 219	9872 228
29,000	8080 201	8512 209	8984 218	9440 227	9860 231
31,000	8112 208	8568 218	9072 227	9492 231	9852 231

TEMPERATURE STANDARD + 10° ADD 2%

TEMPERATURE STANDARD - 10° SUBTRACT 2%

# DC-8 FLIGHT OPERATING MANUAL



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**PERFORMANCE PROCEDURES**

PAGE: 4G-20  
REV: #22  
DATE: 08-25-95

## DC-8-62 NORMAL LANDING SPEEDS (KNOTS I.A.S.) JT3D-7

Weight (1000 Lb.)	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	355
Flare (Vth) 50° FL	119	122	125	128	131	134	137	140	143	146	148	149	154	156	159	161	163	165	167
Flare (Vth) 35° FL	124	127	130	133	136	139	142	145	148	151	153	154	159	161	164	166	168	170	172
Flare (Vth) 23° FL	130	132	135	139	141	145	148	151	154	157	159	161	165	167	170	171	175	178	182
Maneuver 23° Flaps	146	150	154	158	161	165	168	172	175	178	180	181	187	190	193	196	199	202	203
Maneuver 12° Flaps	159	163	167	171	176	180	184	188	192	196	200	204	207	210	213	217	221	223	225
Maneuver 0° Flaps	172	177	181	186	190	194	198	202	206	210	212	214	222	226	229	233	246	239	241

JT3D-7		GO-AROUND THRUST E.P.R. (TAKE OFF IN FLIGHT)																	
RAT C°	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	+5	+10	+15	+20	+25	+30	+35	+40	+45
P.A. - S.L.	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.80	1.74	1.64
1000'	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.85	1.83	1.83	1.83	1.80	1.74	1.64
2000'	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.92	1.89	1.85	1.83	1.83	1.83	1.80	1.74	1.64
3000'	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.98	1.96	1.92	1.89	1.85	1.83	1.83	1.83	1.80	1.74	1.64
4000'	2.08	2.08	2.08	2.08	2.08	2.06	2.04	2.01	1.98	1.96	1.92	1.89	1.85	1.83	1.83	1.83	1.83	1.74	1.64
5-8000'	2.12	2.12	2.11	2.09	2.08	2.06	2.04	2.01	1.98	1.96	1.92	1.89	1.85	1.83	1.83	1.83	1.83	1.74	1.64

Adjustments:      A/C Ice Protection reduce EPR by .02  
                          Rain Removal - reduce EPR by .01  
                          3-Engine Go-Around - reduce EPR by .01

### STALL AND LANDING SPEEDS

GROSS WEIGHT 1000 LBS	STALL SPEED (KIAS) 0' TO 15,000' MSL																			
	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
0° FLAPS	112	116	119	122	125	128	131	134	137	140	143	145	148	151	153	156	158	161	163	165
12° FLAPS	103	107	109	112	115	118	121	124	127	129	131	134	137	139	141	143	146	148	150	152
18° FLAPS	99	102	104	107	110	113	115	118	121	123	126	128	130	132	134	137	139	141	143	145
23° FLAPS	96	99	101	104	107	109	112	115	117	119	122	124	126	128	130	132	134	136	138	140
35° FLAPS	91	93	96	99	102	104	106	108	111	113	115	118	120	122	124	126	128	130	132	134
50° FLAPS	88	91	93	96	98	101	103	105	108	110	112	114	116	118	120	122	124	126	128	130