

PART 6 - ENDURANCE

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INTRODUCTION

This part contains all-engines operating and one-engine inoperative endurance performance data applicable to the aircraft with flaps up, landing gear up and doors closed. Endurance data for the single-engine operation assumes the propeller feathered on the inoperative engine.

Maximum endurance is the cruise operation conducted at the speed resulting in the minimum fuel flow to the existing ambient and gross weight conditions. Maximum endurance is used in holding patterns, rendez vous, search and loiter operations.

MAXIMUM ENDURANCE

ALL ENGINES OPERATING

A summary of two-engine cruise data at the maximum endurance speed, engine anti-ice off, is given in Figure 6-1.

The data for indicated torque, specific range, fuel flow per engine, indicated speed, and true speed is given in tabular form as a function of the aircraft weight, the temperature variation from ISA (from ISA -20°C to ISA +20°C) and flight level (from sea level to flight level 300).

For all flight levels CRZ2 is the power set on PRS unless engine anti-ice is on, which must select CRZ1 on PRS selector.

For this aircraft, the two-engine maximum endurance speed is the same as the minimum drag airspeed (V_{MD}).

Drag Index Correction

The correction due to drag index on the endurance performance data is as follows:

- Decrease INDICATED AIRSPEED by 1.5% per each 50 units of DI.
- Increase FUEL FLOW by 4% per each 50 units of DI.
- Decrease SPECIFIC RANGE by 5% per each 50 units of DI.
- Increase TORQUE by 6% per each 50 units of DI.

Effect of Engine Anti-Ice

The change in the endurance performance data due to the operation of the engine anti-ice, is mainly by changing CRZ2 to CRZ1 on PRS selector and is as follows:

- No change in INDICATED AIRSPEED.
- Increase FUEL FLOW by 20 Kg/hr/eng.
- Decrease SPECIFIC RANGE by 2.5 Nm/100 Kg.
- Decrease TORQUE by 10%.

ONE ENGINE INOPERATIVE

A summary of single-engine cruise data at the maximum endurance speed, engine anti-ice off, is given in Figure 6-2.

In the same way as for Figure 6-1, the data is given in tabular form as a function of the aircraft weight, temperature deviation from ISA (from ISA -20°C to ISA +20°C) and flight level (from sea level to flight level 250).

MCT (100% N_P) is the power set on PRS selector. The propeller of engine inoperative is feathered.

For this aircraft, the single-engine maximum endurance speed is equal to the minimum drag airspeed (V_{MD}).

Drag Index Correction

The correction due to drag index on the endurance performance data is as follows:

- Decrease INDICATED AIRSPEED by 1.5% per each 50 units of DI.
- Increase FUEL FLOW by 4% per each 50 units of DI.
- Decrease SPECIFIC RANGE by 6% per each 50 units of DI.
- Increase TORQUE by 6% per each 50 units of DI.

Effect of Engine Anti-Ice

The correction on the endurance performance data due to engine anti-ice on is negligible.

Effect of Wind

The information is for all engines operating or one engine inoperative.

The effect of the wind on the cruise performance is an increase or decrease of the ground speed by the same amount as the tailwind or headwind component.

Ground speed = True speed - headwind or + tailwind.

Effect of the Bank Angle

The information is for all engines operating or one engine inoperative.

When holding or conducting search operations over a limited area, it may be necessary to fly with a fairly large bank angle. This kind of flight pattern will reduce the endurance time as shown in Figure 6-3.

Enter the graph with the bank angle, move vertically upwards to the reference curve and horizontally to the left. Read the endurance (%) on the vertical scale.

Example

Given:

1. Aircraft weight: 16.000 Kg
2. Flight level: 150
3. Temperature deviation from ISA: 0°C
4. 2 engines operative
5. Engine Anti-ice: off

Results:

- | | |
|------------------------------------|----------------|
| 1. Indicated torque (Figure 6-1) | 34 % |
| 2. Specific Range (Figure 6-1) | 40.4 NM/100 kg |
| 3. Fuel Flow (Figure 6-1) | 402 kg/hr |
| 4. Indicated Airspeed (Figure 6-1) | 131 KIAS |
| 5. True Airspeed (Figure 6-1) | 163 KTAS |

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA -20°C

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL SL SAT -5 °C	FL 10 SAT -7 °C	FL 20 SAT -9 °C	FL 30 SAT -11 °C	FL 40 SAT -13 °C	FL 50 SAT -15 °C
12	19 27.4 197 113 108	19 28.3 193 113 110	19 29.3 190 113 111	19 30.3 186 113 113	19 31.3 183 113 114	19 32.4 179 113 116
14	22 27.6 211 122 116	23 28.4 208 122 118	23 29.3 205 122 120	23 30.2 201 122 122	24 31.1 199 122 124	24 32.1 195 122 125
16	27 27.2 229 130 125	27 28.0 226 130 126	28 28.8 223 130 128	28 29.7 219 130 130	28 30.6 216 130 132	29 31.5 213 130 134
18	32 26.7 247 138 132	32 27.5 244 138 134	33 28.3 240 138 136	33 29.1 237 138 138	33 30.0 233 138 140	33 31.0 229 138 142
20	37 26.3 265 146 139	37 27.1 261 146 142	37 27.8 258 146 144	38 28.6 254 146 146	38 29.4 251 146 148	39 30.3 248 146 150
22	42 25.9 282 153 146	42 26.6 279 153 148	43 27.3 276 153 151	43 27.9 274 153 153	44 28.6 271 153 155	45 29.3 269 153 157
23	44 25.7 291 157 150	45 26.3 289 156 152	46 26.9 286 157 154	46 27.5 284 157 156	47 28.1 282 157 159	48 28.8 279 157 161

WEIGHT (1000 kg)	FL 60 SAT -17°C	FL 70 SAT -19°C	FL 80 SAT -21°C	FL 90 SAT -23 °C	FL 100 SAT -25°C	FL 110 SAT -27°C
12	19 33.5 176 113 118	20 34.7 173 113 120	20 35.7 170 113 121	20 36.8 167 113 123	20 38.0 165 113 125	21 39.1 162 113 127
14	24 33.0 193 122 127	24 34.0 190 122 129	25 35.0 187 122 131	25 36.1 184 122 133	25 37.3 181 122 135	25 38.4 179 122 137
16	29 32.4 210 130 136	29 33.4 207 130 138	30 34.3 204 131 140	30 35.4 201 131 142	30 36.4 199 131 145	31 37.3 197 131 147
18	34 31.8 227 138 144	34 32.6 224 138 146	35 33.5 222 139 149	35 34.3 220 139 151	36 35.2 218 138 153	36 36.0 216 139 156
20	39 30.9 246 146 152	40 31.6 244 146 155	41 32.3 243 146 157	41 33.1 241 146 159	42 33.8 239 146 162	43 34.5 238 146 164
22	45 29.9 267 153 160	46 30.5 266 153 162	47 31.1 264 153 165	48 31.8 263 153 167	48 32.4 262 153 170	49 32.9 262 153 172
23	49 29.4 278 157 163	49 30.0 277 157 166	50 30.5 276 157 168	51 31.1 275 157 171	52 31.6 274 157 174	53 32.1 274 157 176

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Figure 6-1 (Sheet 1 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA -20°C

DATE: JAN 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 120 SAT -29°C	FL 130 SAT -31°C	FL 140 SAT -33 °C	FL 150 SAT -35 °C	FL 160 SAT -37 °C	FL 170 SAT -39°C
12	21 40.3 160 113 129	21 41.6 157 113 131	21 42.9 155 113 133	22 44.4 152 113 135	22 44.8 153 113 137	22 45.3 154 113 140
14	26 39.5 177 122 140	26 40.6 174 122 142	26 41.8 172 122 144	27 43.0 170 122 146	27 43.6 170 122 149	28 44.5 169 122 151
16	31 38.3 195 131 149	31 39.2 193 131 151	32 40.2 191 131 154	32 41.1 190 131 156	33 42.0 189 131 159	34 42.8 189 131 162
18	37 36.7 215 139 158	37 37.5 214 139 161	38 38.3 213 139 163	39 39.1 212 139 166	39 39.8 212 139 168	40 40.5 212 139 171
20	43 35.1 238 146 167	44 35.8 237 146 170	45 36.4 236 146 172	46 37.1 236 146 175	46 37.6 236 146 178	47 38.1 237 146 181
22	50 33.4 261 153 175	51 34.0 262 154 178	52 34.5 262 154 181	53 35.1 261 154 184	53 35.6 262 154 186	54 36.1 262 154 190
23	54 32.6 274 157 179	54 33.1 274 157 182	55 33.7 274 157 185	56 34.2 274 157 187	57 34.7 275 157 191	58 35.1 276 157 194

WEIGHT (1000 kg)	FL 180 SAT -41°C	FL 190 SAT -43 °C	FL 200 SAT -45 °C	FL 210 SAT -47 °C	FL 220 SAT -49 °C	FL 230 SAT -51 °C
12	22 45.9 155 113 142	23 47.0 153 113 144	23 48.5 151 113 147	24 50.0 149 113 149	24 51.3 148 113 152	24 52.4 147 113 154
14	28 45.7 168 122 153	28 46.9 166 122 156	29 48.2 164 122 159	29 48.8 165 122 161	30 49.7 165 122 164	31 50.8 164 122 167
16	34 43.7 188 131 164	35 44.5 187 131 167	35 45.3 187 131 170	36 46.1 187 131 172	37 46.8 187 131 175	37 47.6 187 131 178
18	41 41.1 212 139 174	42 41.8 212 139 177	42 42.4 212 139 180	43 43.1 212 139 183	44 43.8 213 139 186	45 44.4 213 139 189
20	48 38.7 237 146 183	49 39.3 237 147 187	50 39.9 238 147 190	50 40.4 239 147 193	51 40.8 240 147 196	53 41.1 243 147 199
22	55 36.6 263 154 192	56 37.0 265 154 196	57 37.3 267 154 199	59 37.5 269 154 202	60 37.7 273 154 206	61 37.8 277 154 209
23	59 35.5 278 157 197	60 35.7 280 157 200	62 36.0 283 158 204	63 36.2 286 158 207	64 36.2 291 158 210	65 36.0 297 158 214

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Figure 6-1 (Sheet 2 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA -20°C

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 240 SAT -53°C	FL 250 SAT -55 °C
12	25 53.4 147 113 157	25 54.9 145 113 160
13	28 53.1 154 118 163	28 54.6 152 118 166
14	31 52.1 163 123 170	32 53.1 162 123 172
15	35 50.2 175 127 176	35 51.1 175 127 179
16	38 48.3 188 131 181	39 49.2 188 131 185
17	42 46.7 200 135 187	42 47.4 201 135 190
18	45 45.0 214 139 193	46 45.5 215 139 196
19	49 43.2 229 143 198	50 43.4 232 143 201
20	53 41.3 245 147 203	54 41.4 249 147 206
21	58 39.5 263 151 208	59 39.4 269 151 212
22	62 37.6 283 154 213	
23		

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Figure 6-1 (Sheet 3 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA -10°C

DATE: JAN 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL SL SAT 5 °C	FL 10 SAT 3 °C	FL 20 SAT 1 °C	FL 30 SAT -1 °C	FL 40 SAT -3 °C	FL 50 SAT -5 °C
12	19 27.4 200 113 110	19 28.4 196 113 111	19 29.3 193 113 113	19 30.4 189 113 115	19 31.5 185 113 116	19 32.6 181 113 118
14	23 27.7 215 122 119	23 28.5 211 122 120	23 29.4 208 122 122	24 30.3 205 122 124	24 31.2 202 122 126	24 32.2 199 122 128
16	27 27.3 232 130 127	28 28.1 229 130 129	28 28.9 226 130 131	28 29.8 223 130 133	29 30.7 220 130 135	29 31.6 216 130 137
18	32 26.8 251 138 135	33 27.5 248 138 137	33 28.3 245 138 139	33 29.2 241 138 141	34 30.1 238 138 143	34 31.0 234 138 145
20	37 26.3 270 146 142	38 27.0 266 146 144	38 27.8 263 146 146	39 28.5 260 146 148	39 29.3 257 146 151	40 30.1 254 146 153
22	42 25.8 288 153 149	43 26.5 285 153 151	44 27.1 283 153 153	44 27.7 280 153 156	45 28.4 278 153 158	46 29.0 276 153 160
23	45 25.6 298 156 152	46 26.1 296 156 154	47 26.7 293 156 157	48 27.3 291 157 159	48 27.9 289 157 162	49 28.6 287 156 164

WEIGHT (1000 kg)	FL 60 SAT -7°C	FL 70 SAT -9°C	FL 80 SAT -11°C	FL 90 SAT -13 °C	FL 100 SAT -15°C	FL 110 SAT -17°C
12	20 33.7 178 113 120	20 34.7 176 113 122	20 35.7 173 113 124	21 36.8 171 113 125	21 38.0 168 113 128	21 38.7 167 113 130
14	25 33.1 196 122 130	25 34.0 193 122 132	25 35.1 191 122 134	25 36.1 188 122 136	26 37.2 185 122 138	26 38.3 183 122 140
16	29 32.5 214 131 139	30 33.4 211 130 141	30 34.4 208 131 143	30 35.3 205 130 145	31 36.3 203 131 147	31 37.2 201 131 150
18	34 31.8 232 138 147	35 32.5 229 138 149	35 33.3 227 138 152	36 34.1 226 138 154	37 34.9 224 139 156	37 35.7 223 139 159
20	40 30.7 252 146 155	41 31.4 251 146 157	42 32.0 249 146 160	42 32.8 248 146 162	43 33.5 246 146 165	44 34.1 245 146 167
22	46 29.7 274 153 163	47 30.3 273 153 165	48 30.9 272 153 168	49 31.5 271 153 170	49 32.0 270 153 173	50 32.5 270 153 176
23	50 29.2 285 157 166	50 29.7 284 157 169	51 30.2 284 157 171	52 30.7 283 157 174	53 31.3 283 157 177	54 31.7 283 157 180

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Figure 6-1 (Sheet 4 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA -10°C

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL 120 SAT -19°C	FL 130 SAT -21°C	FL 140 SAT -23 °C	FL 150 SAT -25 °C	FL 160 SAT -27 °C	FL 170 SAT -29°C
12	21 39.7 166 113 131	22 40.9 164 113 134	22 42.2 161 113 136	22 43.8 158 113 138	22 44.6 157 113 140	23 45.4 157 113 142
14	26 39.4 181 122 142	27 40.5 178 122 144	27 41.7 176 122 147	27 42.8 174 122 149	28 43.6 174 122 151	28 44.6 173 122 154
16	32 38.1 200 131 152	32 39.0 198 131 155	33 39.9 197 131 157	33 40.8 196 131 160	34 41.6 195 131 162	34 42.5 194 131 165
18	38 36.4 222 139 161	38 37.2 220 139 164	39 38.0 219 139 167	40 38.8 218 139 169	40 39.4 218 139 172	41 40.0 218 139 175
20	44 34.8 244 146 170	45 35.4 244 146 173	46 36.0 244 146 176	47 36.6 244 146 178	48 37.1 244 146 181	48 37.7 244 146 184
22	51 33.0 270 153 179	52 33.6 270 153 181	53 34.1 270 153 184	54 34.7 270 154 187	55 35.2 270 154 190	56 35.6 271 154 193
23	55 32.3 283 157 183	56 32.8 283 157 185	56 33.3 283 157 188	57 33.8 283 157 191	58 34.2 285 157 195	60 34.6 286 157 198

WEIGHT (1000 kg)	FL 180 SAT -31°C	FL 190 SAT -33 °C	FL 200 SAT -35 °C	FL 210 SAT -37 °C	FL 220 SAT -39 °C	FL 230 SAT -41 °C
12	23 46.4 156 113 145	23 47.8 154 113 147	24 49.4 152 113 150	24 50.7 150 113 152	24 51.7 150 113 155	25 52.3 151 113 158
14	29 45.8 171 122 157	29 46.8 170 122 159	30 47.9 169 122 162	30 48.2 171 122 164	31 48.7 172 122 167	31 49.4 172 122 170
16	35 43.3 194 131 168	36 44.1 193 131 170	36 44.8 193 131 173	37 45.4 194 131 176	38 46.1 194 131 179	38 46.9 194 131 182
18	42 40.6 219 139 178	43 41.2 219 139 181	43 41.9 219 139 184	44 42.6 220 139 187	45 43.2 220 139 190	46 43.7 221 139 193
20	49 38.3 245 147 187	50 38.8 245 146 190	51 39.3 246 147 194	52 39.8 248 147 197	53 40.1 250 147 200	54 40.5 252 147 204
22	57 36.0 273 154 197	58 36.4 275 154 200	59 36.8 276 154 203	60 37.0 279 154 207	61 37.1 284 154 210	62 37.0 289 154 214
23	61 34.9 288 157 201	62 35.2 290 157 204	63 35.4 293 157 208	64 35.5 297 157 211	65 35.4 303 158 215	

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Figure 6-1 (Sheet 5 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) **2 ENGINES** **ISA -10°C**

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 240 SAT -43°C	FL 250 SAT -45 °C	FL 260 SAT -46 °C	FL 270 SAT -48 °C	FL 280 SAT -50 °C	FL 290 SAT -52 °C
12	25 52.7 152 113 161	26 53.2 153 113 163	26 54.6 152 113 166	27 56.2 150 113 169	27 57.8 149 113 172	28 59.0 148 113 175
14	32 50.5 171 122 173	33 51.9 170 122 176	33 52.8 170 123 179	34 53.3 171 123 183	34 53.8 173 123 186	35 54.4 174 123 189
16	39 47.7 194 131 185	40 48.4 195 131 189	41 48.9 196 131 192	41 49.5 197 131 195	42 50.0 199 131 199	43 50.3 201 131 202
17	43 46.0 208 135 191	44 46.5 209 135 194	45 46.9 211 135 198	45 47.3 213 135 201	46 47.5 216 136 205	47 47.5 220 136 209
18	47 44.2 223 139 197	48 44.5 225 139 200	49 44.9 227 139 204	50 45.0 230 139 207	51 44.9 235 140 211	52 44.5 241 140 215
19	51 42.4 238 143 202	52 42.7 241 143 206	53 42.7 245 143 209	54 42.5 250 143 213		
20	55 40.6 255 147 208	56 40.6 260 147 211	57 40.4 266 147 215			
21	59 38.7 274 151 212					

WEIGHT (1000 kg)	FL 300 SAT -54°C
12	28 59.8 149 113 178
13	32 57.2 162 118 186
14	36 55.7 173 123 193
15	40 53.4 187 127 200
16	44 50.4 204 131 206
17	48 47.2 225 136 212

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Figure 6-1 (Sheet 6 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES ISA

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL SL SAT +15 °C	FL 10 SAT +13 °C	FL 20 SAT +11 °C	FL 30 SAT +9 °C	FL 40 SAT +7 °C	FL 50 SAT +5 °C
12	19 27.5 203 113 112	19 28.5 199 113 113	19 29.5 195 113 115	19 30.5 191 113 117	20 31.6 188 113 119	20 32.7 184 113 120
14	23 27.7 218 122 121	23 28.5 215 122 122	24 29.4 212 122 124	24 30.3 209 122 126	24 31.2 206 122 128	25 32.1 202 122 130
16	28 27.3 236 130 129	28 28.1 233 130 131	29 28.9 230 130 133	29 29.7 227 130 135	29 30.5 224 130 137	30 31.5 221 130 139
18	33 26.8 256 138 137	33 27.5 253 138 139	34 28.2 250 138 141	34 29.1 246 138 143	34 29.9 243 138 145	35 30.8 240 138 148
20	38 26.2 275 146 144	38 26.9 272 146 147	39 27.7 269 146 149	39 28.4 266 146 151	40 29.1 263 146 153	40 29.9 260 146 156
22	43 25.7 295 153 151	44 26.3 292 153 154	45 27.0 289 153 156	45 27.6 287 153 158	46 28.2 285 153 161	47 28.9 282 153 163
23	46 25.4 305 156 155	47 26.0 303 156 157	48 26.6 300 156 160	48 27.2 298 156 162	49 27.8 296 157 164	50 28.4 294 157 167

WEIGHT (1000 kg)	FL 60 SAT +3 °C	FL 70 SAT +1 °C	FL 80 SAT -1 °C	FL 90 SAT -3 °C	FL 100 SAT -5 °C	FL 110 SAT -7 °C
12	20 33.6 182 113 122	20 34.6 179 113 124	21 35.7 176 113 126	21 36.8 174 113 128	21 38.0 171 113 130	21 38.9 169 113 132
14	25 33.0 200 122 132	25 34.0 197 122 134	25 35.0 194 122 136	26 36.1 192 122 138	26 37.2 189 122 140	26 38.3 186 122 143
16	30 32.4 218 130 141	30 33.3 215 130 143	31 34.2 213 130 146	31 35.2 210 131 148	31 36.1 208 130 150	32 37.0 206 131 153
18	35 31.6 237 138 150	36 32.3 235 138 152	36 33.1 233 138 154	37 33.9 232 138 157	38 34.6 230 138 159	38 35.4 229 138 162
20	41 30.5 259 146 158	42 31.2 257 146 160	42 31.8 256 146 163	43 32.5 254 146 165	44 33.2 253 146 168	44 33.8 252 146 171
22	47 29.5 281 153 166	48 30.0 280 153 168	49 30.6 279 153 171	50 31.1 278 153 173	51 31.7 278 153 176	51 32.2 278 153 179
23	51 28.9 293 157 169	51 29.4 292 157 172	52 29.9 292 157 175	53 30.5 291 157 177	54 31.0 291 157 180	55 31.5 291 157 183

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Figure 6-1 (Sheet 7 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES ISA

DATE: JAN 2000 AIRCRAFT: C-295M
DATA BASIS: FLIGHT TEST ENGINES: PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 120 SAT -9 °C	FL 130 SAT -11 °C	FL 140 SAT -13 °C	FL 150 SAT -15 °C	FL 160 SAT -17 °C	FL 170 SAT -19 °C
12	22 40.1 167 113 134	22 41.3 165 113 136	22 42.7 162 113 138	22 44.2 159 113 141	23 44.8 160 113 143	23 45.8 159 113 145
14	27 39.3 184 122 145	27 40.4 182 122 147	27 41.5 180 122 150	28 42.6 179 122 152	28 43.5 178 122 154	29 44.4 177 122 157
16	32 37.8 205 131 155	33 38.6 204 131 158	34 39.5 203 131 160	34 40.4 201 131 163	35 41.2 201 131 165	35 42.0 200 131 168
18	39 36.1 228 139 164	39 36.9 227 139 167	40 37.6 226 139 170	41 38.3 225 139 173	41 38.9 225 139 175	42 39.5 226 139 178
20	45 34.4 252 146 173	46 35.0 252 146 176	47 35.6 252 146 179	48 36.2 251 146 182	48 36.7 252 146 185	49 37.3 252 146 188
22	52 32.7 278 153 182	53 33.3 278 153 185	54 33.8 278 153 188	55 34.3 278 154 191	56 34.7 280 154 194	57 35.1 281 154 197
23	56 32.0 291 157 186	57 32.4 291 157 189	58 32.9 292 157 192	59 33.3 293 157 195	60 33.7 294 157 198	61 34.1 296 157 202

WEIGHT (1000 kg)	FL 180 SAT -21 °C	FL 190 SAT -23 °C	FL 200 SAT -25 °C	FL 210 SAT -27 °C	FL 220 SAT -29 °C	FL 230 SAT -31 °C
12	23 47.0 157 113 148	24 48.5 155 113 150	24 50.1 153 113 153	25 50.9 153 113 155	25 51.3 154 113 158	25 51.6 156 113 161
14	29 45.4 176 122 160	30 46.4 175 122 162	30 47.4 174 122 165	31 47.8 176 122 168	32 48.5 176 122 171	32 49.6 176 122 174
16	36 42.8 200 131 171	37 43.5 199 131 174	37 44.2 200 131 177	38 44.9 200 131 180	39 45.6 200 131 183	39 46.4 200 131 186
18	43 40.1 226 139 181	44 40.8 226 139 184	44 41.4 226 139 187	45 42.0 227 139 191	46 42.5 228 139 194	47 43.0 229 139 197
20	50 37.8 253 146 191	51 38.3 254 147 194	52 38.7 255 147 198	53 39.1 257 147 201	54 39.5 259 147 205	55 39.7 262 147 208
21	54 36.6 268 150 196	55 37.0 269 150 199	56 37.4 271 150 203	57 37.7 273 150 206	58 37.9 276 150 210	
22	58 35.5 282 154 200	59 35.9 284 154 204	60 36.1 287 154 207	61 36.3 290 154 211		
23	62 34.4 298 157 205	63 34.6 301 157 209	65 34.8 305 157 212			

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Figure 6-1 (Sheet 8 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES ISA

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 240 SAT -33 °C	FL 250 SAT -35 °C	FL 260 SAT -36 °C	FL 270 SAT -38 °C	FL 280 SAT -40 °C	FL 290 SAT -42 °C
12	26 52.2 157 113 164	26 53.4 156 113 167	27 55.2 154 113 170	27 56.5 153 113 173	28 57.5 153 113 176	29 58.2 154 113 179
13	29 51.7 165 118 170	30 53.2 163 118 174	30 54.1 163 118 177	31 54.7 164 118 180	32 55.3 166 118 183	32 55.8 167 118 186
14	33 50.7 175 123 177	33 51.7 174 123 180	34 52.1 176 123 183	35 52.6 177 123 187	35 53.2 179 123 190	36 54.0 179 123 193
15	36 48.9 187 127 183	37 49.7 188 127 187	38 50.1 189 127 190	38 50.7 191 127 193	39 51.4 191 127 197	40 52.1 192 127 200
16	40 47.1 201 131 189	41 47.8 201 131 192	42 48.2 203 131 196	42 48.7 205 131 199	43 49.2 207 131 203	44 49.3 210 131 207
17	44 45.3 215 135 195	45 45.8 217 135 199	46 46.2 219 135 202	47 46.4 221 135 206	47 46.5 225 135 209	
18	48 43.5 231 139 201	49 43.8 233 139 204	50 44.0 236 139 208	51 44.0 240 139 212		
19	52 41.7 248 143 206	53 41.8 251 143 210				
20	56 39.8 266 147 212					

WEIGHT (1000 kg)	FL 300 SAT -44 °C
12	29 58.8 155 113 182
13	33 56.6 167 118 190
14	37 55.1 179 123 197
15	41 52.4 195 127 204
16	45 49.3 214 132 211

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Figure 6-1 (Sheet 9 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA +10°C

DATE: JAN 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL SL SAT +25 °C	FL 10 SAT +23 °C	FL 20 SAT +21 °C	FL 30 SAT +19 °C	FL 40 SAT +17 °C	FL 50 SAT +15 °C
12	20 27.5 206 113 114	20 28.4 203 113 115	20 29.4 199 113 117	20 30.4 195 113 119	20 31.5 192 113 121	20 32.5 188 113 122
14	24 27.5 223 122 123	24 28.3 220 122 125	24 29.2 217 122 127	24 30.1 213 122 128	25 31.0 210 122 130	25 32.0 207 122 132
16	28 27.2 242 130 131	29 27.9 238 130 133	29 28.8 235 130 135	29 29.6 232 130 137	30 30.5 229 130 140	30 31.4 225 130 142
18	33 26.7 261 138 139	34 27.5 257 138 141	34 28.2 254 138 143	34 29.0 251 138 146	35 29.8 248 138 148	35 30.7 245 138 150
20	38 26.2 280 146 147	39 26.9 277 146 149	39 27.6 275 146 151	40 28.2 272 146 153	41 29.0 269 146 156	41 29.7 267 146 158
22	44 25.6 302 153 154	45 26.2 299 153 156	45 26.8 296 153 159	46 27.4 294 153 161	47 28.1 291 153 164	47 28.7 289 153 166
23	47 25.2 312 156 157	48 25.8 310 156 160	48 26.4 307 156 162	49 27.0 305 156 165	50 27.6 303 156 167	51 28.2 302 156 170

WEIGHT (1000 kg)	FL 60 SAT +13 °C	FL 70 SAT +11 °C	FL 80 SAT +9 °C	FL 90 SAT +7 °C	FL 100 SAT +5 °C	FL 110 SAT +3 °C
12	20 33.5 185 113 124	21 34.6 183 113 126	21 35.6 180 113 128	21 36.8 177 113 130	21 37.9 174 113 132	22 39.1 172 113 134
14	25 32.9 204 122 134	26 33.9 201 122 136	26 34.9 199 122 139	26 35.9 196 122 141	27 37.0 193 122 143	27 38.0 191 122 145
16	30 32.3 223 130 144	31 33.2 220 130 146	31 34.1 218 130 148	32 34.9 215 130 150	32 35.8 213 130 153	33 36.6 212 130 155
18	36 31.4 243 138 152	36 32.1 241 138 155	37 32.9 239 138 157	38 33.6 238 138 160	38 34.4 236 139 162	39 35.1 235 139 165
20	42 30.3 265 146 161	42 31.0 263 146 163	43 31.6 262 146 166	44 32.3 261 146 168	45 32.9 260 146 171	45 33.5 259 146 174
22	48 29.3 288 153 169	49 29.8 287 153 171	50 30.3 287 153 174	51 30.8 287 153 177	52 31.4 286 153 180	52 31.9 286 153 182
23	51 28.6 301 156 172	52 29.1 301 156 175	53 29.6 300 157 178	54 30.1 300 157 181	55 30.7 299 157 183	56 31.2 299 157 186

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Figure 6-1 (Sheet 10 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA +10°C

DATE: JAN 2000 AIRCRAFT: C-295M FLAPS: UP (0°)
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G ENGINE A/I: OFF
 PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL 120 SAT +1 °C	FL 130 SAT -1 °C	FL 140 SAT -3 °C	FL 150 SAT -5 °C	FL 160 SAT -7 °C	FL 170 SAT -9 °C
12	22	22	23	23	23	24
	40.2 170	41.4 168	42.8 165	44.1 163	44.3 164	44.7 166
	113 137	113 139	113 141	113 143	113 146	113 148
14	27	28	28	29	29	30
	39.1 189	40.1 187	41.1 185	42.2 184	42.8 184	43.7 183
	122 147	122 150	122 152	122 155	122 157	122 160
16	33	34	34	35	35	36
	37.5 211	38.3 210	39.2 208	40.0 207	40.8 206	41.6 206
	131 158	131 160	131 163	131 166	131 168	131 171
18	39	40	41	42	42	43
	35.8 234	36.5 233	37.2 232	37.9 232	38.5 232	39.1 232
	139 168	139 170	139 173	139 176	139 179	139 182
20	46	47	48	49	49	50
	34.1 259	34.6 259	35.2 259	35.9 259	36.3 259	36.8 260
	146 177	146 179	146 182	146 186	146 189	146 192
22	53	54	55	56	57	58
	32.4 286	32.9 286	33.4 287	33.8 287	34.2 289	34.6 291
	153 185	153 188	153 191	153 194	154 198	154 201
23	57	58	59	60	61	62
	31.6 300	32.0 301	32.4 302	32.8 303	33.2 304	33.6 306
	157 189	157 193	157 196	157 199	157 202	157 206

WEIGHT (1000 kg)	FL 180 SAT -11 °C	FL 190 SAT -13 °C	FL 200 SAT -15 °C	FL 210 SAT -17 °C	FL 220 SAT -19 °C	FL 230 SAT -21 °C
12	24	24	25	25	26	26
	45.5 166	46.7 164	48.2 162	49.6 160	50.6 159	51.1 161
	113 151	113 153	113 156	113 159	113 161	113 164
14	30	31	31	32	32	33
	44.9 182	45.9 180	46.9 180	47.1 182	47.6 183	48.6 183
	122 163	122 166	122 168	122 171	122 174	122 178
16	37	37	38	39	39	40
	42.3 206	43.0 206	43.7 206	44.4 206	45.1 207	45.8 207
	131 174	131 177	131 180	131 183	131 186	131 190
18	44	45	45	46	47	48
	39.7 233	40.3 233	40.9 234	41.4 235	41.9 236	42.3 238
	139 185	139 188	139 191	139 194	139 198	139 201
19	47	48	49	50	51	52
	38.5 247	39.0 248	39.5 249	39.9 250	40.4 252	40.7 254
	143 190	143 193	143 196	143 200	143 203	143 207
20	51	52	53	54	55	
	37.3 261	37.7 263	38.1 264	38.5 266	38.8 269	
	146 195	146 198	147 202	147 205	147 209	
21	55	56	57			
	36.1 277	36.5 278	36.8 280			
	150 200	150 203	150 207			
22	59	60				
	35.0 292	35.3 295				
	154 204	154 208				

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Figure 6-1 (Sheet 11 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES ISA +10°C

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL 240 SAT -23 °C	FL 250 SAT -25 °C	FL 260 SAT -26 °C	FL 270 SAT -28 °C	FL 280 SAT -30 °C	FL 290 SAT -32 °C
12	27 51.4 162 113 167	27 52.3 163 113 170	28 54.0 160 113 173	28 55.4 159 113 176	29 56.5 159 113 179	29 57.3 159 113 183
14	34 49.8 181 122 181	34 51.0 180 122 184	35 51.4 182 123 187	35 51.8 184 122 190	36 52.5 185 123 194	37 53.4 185 123 198
15	37 48.3 194 127 187	38 49.0 194 127 190	39 49.4 196 127 194	39 50.0 197 127 197	40 50.6 198 127 201	41 51.2 200 127 204
16	41 46.4 208 131 193	42 47.0 209 131 197	43 47.5 211 131 200	43 47.9 212 131 204	44 48.3 215 131 207	
17	45 44.6 223 135 199	46 45.0 225 135 202	47 45.4 227 135 206			
18	49 42.8 239 139 205					

WEIGHT (1000 kg)	FL 300 SAT -34 °C
12	30 57.8 161 113 186
13	34 56.2 173 118 194
14	38 54.3 185 123 201
15	42 51.5 202 127 208

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Figure 6-1 (Sheet 12 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA +20°C

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL SAT +35 °C	SL	FL SAT +33 °C	10	FL SAT +31 °C	20	FL SAT +29 °C	30	FL SAT +27 °C	40	FL SAT +25 °C	50
12	20 27.5 113	210 115	20 28.4 113	207 117	20 29.3 113	203 119	20 30.3 113	199 121	20 31.3 113	196 122	21 32.4 113	192 125
14	24 27.4 122	228 125	24 28.2 122	224 127	25 29.1 122	221 129	25 30.0 122	217 130	25 31.0 122	214 133	25 31.9 122	211 135
16	29 27.1 130	246 133	29 27.9 130	243 136	30 28.7 130	240 138	30 29.5 130	236 140	30 30.4 130	233 142	31 31.3 130	230 144
18	34 26.7 138	265 142	34 27.4 138	262 144	35 28.1 138	259 146	35 28.9 138	256 148	36 29.7 138	253 151	36 30.5 138	250 153
20	39 26.1 146	286 149	40 26.8 146	283 152	40 27.4 146	281 154	41 28.1 146	278 156	41 28.8 146	275 158	42 29.5 146	273 161
22	45 25.4 153	308 157	45 26.0 153	305 159	46 26.6 153	303 161	47 27.3 153	301 164	47 27.9 153	298 166	48 28.5 153	297 169
23	48 25.1 156	319 160	48 25.7 156	317 162	49 26.3 156	314 165	50 26.8 156	312 167	51 27.4 156	310 170	52 27.9 156	309 173

WEIGHT (1000 kg)	FL SAT +23 °C	60	FL SAT +21 °C	70	FL SAT +19 °C	80	FL SAT +17 °C	90	FL SAT +15 °C	100	FL SAT +13 °C	110
12	21 33.4 113	189 126	21 34.4 113	187 129	21 35.5 113	184 130	22 36.7 113	181 133	22 37.8 113	178 135	22 38.6 113	177 137
14	26 32.8 122	208 137	26 33.8 122	205 139	26 34.7 122	203 141	27 35.8 122	200 143	27 36.9 122	197 145	27 37.9 122	195 148
16	31 32.1 130	227 146	31 33.0 130	225 148	32 33.8 130	223 151	32 34.7 130	221 153	33 35.6 130	219 156	33 36.4 130	217 158
18	37 31.2 138	249 155	37 31.9 138	247 158	38 32.6 138	245 160	38 33.4 138	243 163	39 34.1 138	242 165	39 34.8 138	241 168
20	43 30.1 146	271 163	43 30.8 146	270 166	44 31.4 146	269 169	45 32.0 146	268 171	46 32.6 146	267 174	46 33.1 146	267 177
22	49 29.0 153	296 172	50 29.5 153	295 174	51 30.0 153	295 177	52 30.5 153	294 180	53 31.0 153	294 183	53 31.5 153	294 185
23	52 28.4 156	309 175	53 28.9 157	309 178	54 29.3 157	308 181	55 29.8 157	308 184	56 30.3 157	308 187	57 30.8 157	308 190

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Figure 6-1 (Sheet 13 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA +20°C

DATE: JAN 2000 AIRCRAFT: C-295M
DATA BASIS: FLIGHT TEST ENGINES: PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 120 SAT +11 °C	FL 130 SAT +9 °C	FL 140 SAT +7 °C	FL 150 SAT +5 °C	FL 160 SAT +3 °C	FL 170 SAT +1 °C
12	22 39.7 175 113 139	23 41.0 172 113 141	23 42.4 169 113 144	23 43.8 167 113 146	24 44.3 167 113 148	24 45.3 166 113 151
14	28 38.8 193 122 150	28 39.9 192 122 153	29 40.9 190 122 155	29 41.8 189 122 158	30 42.7 188 122 161	30 43.6 187 122 163
16	34 37.2 216 130 161	34 38.0 215 130 163	35 38.9 213 130 166	35 39.7 212 130 169	36 40.4 212 130 171	37 41.1 212 131 174
18	40 35.5 240 138 170	41 36.1 240 138 173	42 36.8 239 139 176	42 37.5 239 139 179	43 38.1 239 139 182	44 38.7 239 139 185
20	47 33.7 267 146 180	48 34.3 267 146 183	49 34.9 266 146 186	50 35.4 266 146 189	51 35.9 268 146 192	52 36.3 269 146 195
21	51 32.9 280 150 184	52 33.4 281 150 187	53 33.9 281 150 190	54 34.4 282 150 194	55 34.8 283 150 197	56 35.1 285 150 200
22	54 32.0 294 153 189	55 32.5 295 153 192	56 32.9 296 153 195	58 33.3 297 154 198	59 33.8 299 154 202	
23	58 31.2 309 157 193	59 31.6 310 157 196	60 32.0 311 157 199			

WEIGHT (1000 kg)	FL 180 SAT -1 °C	FL 190 SAT -3 °C	FL 200 SAT -5 °C	FL 210 SAT -7 °C	FL 220 SAT -9 °C	FL 230 SAT -11 °C
12	24 46.6 165 113 154	25 47.9 163 113 156	25 49.4 161 113 159	26 49.7 163 113 162	26 50.0 164 113 164	27 50.6 165 113 167
14	31 44.6 186 122 166	31 45.5 185 122 169	32 46.4 185 122 172	32 47.0 186 122 175	33 47.8 186 122 178	34 48.7 185 122 181
16	38 41.8 212 131 177	38 42.6 212 131 181	39 43.3 212 131 184	40 43.9 213 131 187	40 44.5 213 131 190	41 45.1 214 131 193
17	41 40.5 225 135 183	42 41.2 226 135 186	42 41.8 226 135 189	43 42.3 227 135 193	44 42.8 229 135 196	45 43.3 230 135 199
18	45 39.3 240 139 188	46 39.8 240 139 191	46 40.3 241 139 195	47 40.8 243 139 198	48 41.2 244 139 202	
19	49 38.0 255 143 193	50 38.4 256 143 197	50 38.9 257 143 200			
20	53 36.7 270 146 198	53 37.2 272 146 202				

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Figure 6-1 (Sheet 14 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (CRZ2) 2 ENGINES

ISA +20°C

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 240 SAT -13 °C	FL 250 SAT -15 °C	FL 260 SAT -16 °C	FL 270 SAT -18 °C	FL 280 SAT -20 °C	FL 290 SAT -22 °C
12	27 52.0 164 113 170	28 53.5 162 113 173	28 54.7 161 113 176	29 55.5 162 113 180	29 55.9 163 113 183	30 56.4 165 113 186
13	31 51.2 173 118 177	31 52.4 172 118 180	32 52.9 174 118 184	32 53.2 176 118 187	33 53.6 178 118 191	34 54.1 179 118 194
14	34 49.6 186 122 184	35 50.4 186 122 187	36 50.6 188 122 191	36 50.9 191 122 194	37 51.4 192 122 198	38 52.3 193 123 201
15	38 47.6 200 127 191	39 48.3 201 127 194	40 48.5 204 127 197	40 49.0 205 127 201	41 49.8 206 127 205	
16	42 45.7 216 131 197	43 46.2 217 131 200	44 46.6 219 131 204			
17	46 43.9 231 135 203					

WEIGHT (1000 kg)	FL 300 SAT -24 °C
12	31 57.0 167 113 190
14	39 53.5 192 123 206

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Figure 6-1 (Sheet 15 of 15) Maximum Endurance. (CRZ2). 2 Engines

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA -20°C**

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL SL SAT -5 °C	FL 10 SAT -7 °C	FL 20 SAT -9 °C	FL 30 SAT -11 °C	FL 40 SAT -13 °C	FL 50 SAT -15 °C
12	32 36.5 298 114 109	32 37.6 293 114 110	32 38.9 289 114 112	32 40.1 284 114 114	33 41.3 279 114 115	33 42.6 275 114 117
14	38 36.2 324 123 117	39 37.2 321 123 119	39 38.2 317 123 121	39 39.3 313 123 123	40 40.4 309 123 125	40 41.5 305 123 126
16	45 35.6 352 131 126	46 36.6 349 132 128	46 37.5 345 132 129	47 38.4 342 132 131	48 39.3 339 132 133	48 40.3 336 132 135
18	53 34.9 382 139 133	54 35.6 380 139 135	55 36.3 378 140 137	56 37.1 376 140 139	56 37.8 374 140 141	57 38.5 372 140 143
20	62 33.4 421 147 141	63 34.1 419 147 143	64 34.7 417 147 145	65 35.3 416 147 147	65 36.0 415 147 149	66 36.6 413 147 151
22	71 32.1 460 154 148	72 32.7 459 154 150	73 33.2 457 154 152	74 33.8 456 154 154	75 34.3 456 154 156	76 34.9 455 154 159
23	76 31.5 480 158 151	77 32.0 479 158 153	78 32.5 478 158 155	79 33.0 478 158 158	80 33.5 477 158 160	82 34.1 477 158 162

WEIGHT (1000 kg)	FL 60 SAT -17°C	FL 70 SAT -19°C	FL 80 SAT -21°C	FL 90 SAT -23 °C	FL 100 SAT -25°C	FL 110 SAT -27°C
12	33 43.8 271 114 119	34 45.0 268 114 121	34 46.3 265 114 123	34 47.5 262 114 124	35 48.8 258 114 126	35 50.0 256 114 128
14	41 42.6 302 123 128	41 43.6 299 123 130	42 44.6 296 123 132	42 45.7 293 123 134	43 46.9 291 123 136	43 47.9 289 123 139
16	49 41.2 334 132 137	49 42.0 332 132 139	50 42.9 330 132 142	51 43.8 328 132 144	52 44.6 327 132 146	52 45.4 326 132 148
18	58 39.2 371 140 146	59 39.9 371 140 148	59 40.6 370 140 150	60 41.3 369 140 152	61 42.0 368 140 155	62 42.7 368 140 157
20	67 37.2 412 147 154	68 37.8 412 147 156	69 38.4 412 147 158	70 39.0 412 147 161	72 39.6 412 147 163	73 40.0 414 147 166
22	77 35.4 455 154 161	79 35.9 456 155 164	80 36.3 457 155 166	81 36.7 459 155 168	83 37.0 463 155 171	84 37.2 467 155 174
23	83 34.5 478 158 165	84 34.8 480 158 167	85 35.2 483 158 170	87 35.4 487 158 173	88 35.6 491 158 175	90 35.7 498 158 178

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Figure 6-2 (Sheet 1 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA -20°C**

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL 120 SAT -29°C	FL 130 SAT -31°C	FL 140 SAT -33 °C	FL 150 SAT -35 °C	FL 160 SAT -37 °C	FL 170 SAT -39°C
12	35 51.3 254 114 130	36 52.6 252 114 132	36 53.9 249 114 134	37 55.3 247 114 136	37 56.5 246 114 139	38 57.6 244 114 141
14	44 49.0 287 123 141	45 50.0 286 123 143	45 51.0 285 123 145	46 52.0 284 123 148	47 52.8 284 123 150	47 53.6 284 123 152
16	53 46.1 326 132 150	54 46.9 326 132 153	55 47.7 326 132 155	56 48.5 326 132 158	57 49.1 326 132 160	58 49.6 328 132 163
18	63 43.3 369 140 160	64 43.9 369 140 162	65 44.4 371 140 165	66 44.8 373 140 167	68 45.1 377 140 170	69 45.2 382 140 173
20	74 40.4 417 148 168	75 40.7 420 148 171	77 40.9 425 148 174	78 40.9 431 148 176	80 40.8 439 148 179	81 40.6 449 148 182
21	80 38.9 444 151 172	81 39.0 449 151 175	83 39.0 456 151 178	84 38.9 465 151 181	86 38.7 475 151 184	
22	86 37.3 473 155 176	87 37.3 482 155 179	89 37.1 490 155 182			
23	92 35.6 506 158 180	93 35.5 516 158 183				

WEIGHT (1000 kg)	FL 180 SAT -41°C	FL 190 SAT -43 °C	FL 200 SAT -45 °C	FL 210 SAT -47 °C	FL 220 SAT -49 °C	FL 230 SAT -51 °C
12	39 58.8 243 114 143	39 59.9 243 114 146	40 61.0 242 114 148	40 62.0 243 114 151	41 62.9 243 114 153	42 63.9 244 114 156
14	48 54.5 284 123 155	49 55.3 285 123 157	50 56.0 286 123 160	51 56.5 288 123 163	52 56.9 291 124 165	53 57.2 294 123 168
16	59 50.0 331 132 166	60 50.3 334 132 168	61 50.6 338 132 171	62 50.7 343 132 174	63 50.6 350 132 177	65 50.2 359 132 180
17	64 47.7 358 136 171	65 47.8 363 136 174	67 47.8 369 136 176	68 47.5 377 136 179	70 47.1 388 136 182	
18	70 45.3 388 140 176	72 45.2 395 140 179	73 44.8 405 140 182			
19	76 42.8 422 144 181	78 42.4 435 145 184				

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Figure 6-2 (Sheet 2 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA -20°C**

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 240 SAT -53°C	FL 250 SAT -55 °C
12	43 64.7 245 114 158	43 65.3 246 114 161
13	48 61.1 270 119 165	49 61.3 273 119 167
14	54 57.4 298 124 171	55 57.5 303 124 174
15	60 53.6 330 128 177	61 53.1 340 128 180

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Figure 6-2 (Sheet 3 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA -10°C**

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL SL SAT 5 °C	FL 10 SAT 3 °C	FL 20 SAT 1 °C	FL 30 SAT -1 °C	FL 40 SAT -3 °C	FL 50 SAT -5 °C
12	32 36.7 302 114 111	32 37.8 297 114 112	32 39.0 293 114 114	33 40.2 288 114 116	33 41.5 283 114 117	33 42.7 279 114 119
14	39 36.3 330 123 120	39 37.3 326 123 121	39 38.3 322 123 123	40 39.3 318 123 125	40 40.4 314 123 127	41 41.5 310 123 129
16	46 35.7 358 131 128	47 36.6 355 132 130	47 37.5 352 132 132	48 38.4 348 131 134	48 39.3 346 132 136	49 40.2 343 132 138
18	54 34.8 390 139 136	55 35.5 389 140 138	56 36.2 387 140 140	56 36.9 385 139 142	57 37.6 383 140 144	58 38.4 381 140 146
20	63 33.3 430 147 143	64 33.9 429 147 145	65 34.5 427 147 148	66 35.1 426 147 150	67 35.8 425 147 152	68 36.4 423 147 154
22	72 31.9 471 154 150	74 32.5 470 154 152	75 33.0 469 154 155	76 33.5 468 154 157	77 34.1 468 154 159	78 34.6 467 154 162
23	77 31.3 492 158 154	79 31.7 491 158 156	80 32.2 491 158 158	81 32.7 490 158 161	82 33.3 490 158 163	83 33.8 489 158 165

WEIGHT (1000 kg)	FL 60 SAT -7°C	FL 70 SAT -9°C	FL 80 SAT -11°C	FL 90 SAT -13 °C	FL 100 SAT -15°C	FL 110 SAT -17°C
12	34 43.9 276 114 121	34 45.1 273 114 123	34 46.3 269 114 125	35 47.6 266 114 127	35 48.9 263 114 129	35 50.1 261 114 131
14	41 42.6 307 123 131	42 43.6 305 123 133	42 44.7 301 123 135	43 45.8 299 123 137	44 46.9 296 123 139	44 47.9 295 123 141
16	50 41.1 341 132 140	50 41.9 339 132 142	51 42.7 337 132 144	52 43.5 337 132 146	53 44.3 336 132 149	53 45.0 335 132 151
18	59 39.0 381 140 149	60 39.7 380 140 151	61 40.3 379 140 153	62 41.0 379 140 155	63 41.7 378 140 158	64 42.3 379 140 160
20	69 37.0 423 147 157	70 37.6 423 147 159	71 38.1 423 147 161	72 38.7 423 147 164	73 39.3 423 147 166	74 39.7 425 147 169
22	79 35.1 467 154 164	80 35.6 468 154 167	82 36.0 470 155 169	83 36.3 473 155 172	85 36.6 477 155 175	86 36.7 483 155 177
23	85 34.2 491 158 168	86 34.6 493 158 170	88 34.9 497 158 173	89 35.0 501 158 176	91 35.1 508 158 178	92 35.1 516 158 181

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Figure 6-2 (Sheet 4 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA -10°C**

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 120 SAT -19°C	FL 130 SAT -21°C	FL 140 SAT -23 °C	FL 150 SAT -25 °C	FL 160 SAT -27 °C	FL 170 SAT -29°C
12	36 51.3 258 114 133	36 52.7 256 114 135	37 54.0 254 114 137	38 55.3 252 114 139	38 56.5 251 114 142	39 57.5 250 114 144
14	45 48.9 293 123 144	45 49.8 293 123 146	46 50.7 292 123 148	47 51.7 291 123 150	48 52.5 291 123 153	48 53.3 291 123 155
16	54 45.8 335 132 153	55 46.6 335 132 156	56 47.4 334 132 158	57 48.1 335 132 161	58 48.7 336 132 164	59 49.2 338 132 166
18	65 43.0 379 140 163	66 43.6 380 140 165	67 44.0 381 140 168	68 44.4 385 140 171	69 44.6 389 140 174	71 44.6 395 140 176
19	70 41.5 402 144 167	71 42.0 405 144 170	73 42.2 409 144 173	74 42.4 414 144 175	75 42.3 421 144 178	77 42.2 430 144 181
20	76 40.0 429 147 172	77 40.2 433 147 174	78 40.3 439 147 177	80 40.2 447 148 180	82 40.1 458 148 184	
21	82 38.4 458 151 176	83 38.4 465 151 179	85 38.3 474 151 182			
22	88 36.7 491 155 180	89 36.6 500 155 183				

WEIGHT (1000 kg)	FL 180 SAT -31°C	FL 190 SAT -33 °C	FL 200 SAT -35 °C	FL 210 SAT -37 °C	FL 220 SAT -39 °C	FL 230 SAT -41 °C
12	39 58.6 249 114 146	40 59.7 249 114 149	40 60.7 249 114 151	41 61.7 249 114 154	42 62.7 250 114 157	43 63.6 250 114 159
14	49 54.1 292 123 158	50 54.9 293 123 161	51 55.6 294 123 163	52 56.1 296 123 166	53 56.4 299 123 169	54 56.7 303 123 172
15	54 51.9 315 128 164	55 52.5 317 128 166	56 52.8 320 128 169	58 53.0 324 128 172	59 53.1 330 128 175	60 52.9 336 128 178
16	60 49.6 341 132 169	61 49.9 345 132 172	62 49.9 350 132 175	64 49.8 357 132 178	65 49.5 365 132 181	
17	66 47.1 370 136 174	67 47.1 376 136 177	69 46.9 385 136 180			
18	72 44.5 403 140 179	73 44.3 412 140 182				

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Figure 6-2 (Sheet 5 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT)
1 ENGINE ISA -10°C

DATE: JAN 2000 AIRCRAFT: C-295M FLAPS: UP (0°)
DATA BASIS: FLIGHT TEST ENGINES: PW 127G ENGINE A/I: OFF
PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL 240 SAT -43°C	FL 250 SAT -45 °C
12	44	44
	64.3 252	64.9 254
	114 162	114 165
13	49	50
	60.6 278	60.8 282
	119 168	119 172
14	55	56
	56.7 308	56.4 315
	123 175	124 178
15	61	
	52.5 345	
	128 181	

Figure 6-2 (Sheet 6 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA**

DATE: JAN 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL SL SAT +15 °C	FL 10 SAT +13 °C	FL 20 SAT +11 °C	FL 30 SAT +9 °C	FL 40 SAT +7 °C	FL 50 SAT +5 °C
12	32 36.9 306 114 113	32 38.0 301 114 114	33 39.1 297 114 116	33 40.3 292 114 118	33 41.5 288 114 120	34 42.8 284 114 121
14	39 36.4 335 123 122	40 37.4 331 123 124	40 38.4 327 123 125	40 39.4 323 123 127	41 40.5 320 123 129	41 41.6 316 123 131
16	47 35.7 365 131 130	47 36.6 361 131 132	48 37.5 358 131 134	49 38.4 355 131 136	49 39.3 352 132 138	50 40.2 349 131 140
18	55 34.6 399 139 138	56 35.3 398 140 140	57 36.0 396 140 142	58 36.7 394 139 144	58 37.4 392 140 147	59 38.1 391 140 149
20	64 33.1 440 147 146	65 33.7 439 147 148	66 34.3 438 147 150	67 34.9 436 147 152	68 35.5 435 147 155	69 36.2 434 147 157
22	74 31.7 482 154 153	75 32.3 481 154 155	76 32.8 481 154 157	77 33.3 480 154 160	79 33.9 479 154 162	80 34.4 479 154 165
23	79 31.1 503 158 156	80 31.5 503 158 159	81 32.0 503 158 161	83 32.5 502 158 163	84 33.0 502 158 166	85 33.5 503 158 168

WEIGHT (1000 kg)	FL 60 SAT +3 °C	FL 70 SAT +1 °C	FL 80 SAT -1 °C	FL 90 SAT -3 °C	FL 100 SAT -5 °C	FL 110 SAT -7 °C
12	34 43.9 281 114 123	34 45.1 277 114 125	35 46.3 274 114 127	35 47.6 271 114 129	36 48.9 268 114 131	36 50.1 265 114 133
14	42 42.6 313 123 133	42 43.7 310 123 135	43 44.7 307 123 137	44 45.8 305 123 140	44 46.8 302 123 142	45 47.7 302 123 144
16	51 40.9 348 131 142	51 41.7 347 132 145	52 42.4 346 132 147	53 43.2 346 132 149	54 44.0 345 132 152	55 44.7 344 132 154
18	60 38.7 390 139 151	61 39.4 390 140 154	62 40.1 389 140 156	63 40.7 389 140 158	64 41.4 388 140 161	65 42.0 388 140 163
20	70 36.7 434 147 159	71 37.3 434 147 162	72 37.9 434 147 164	74 38.4 434 147 167	75 38.9 436 147 169	76 39.3 439 147 172
22	81 34.9 479 154 167	82 35.3 481 155 170	84 35.6 484 155 172	85 35.9 487 155 175	87 36.1 493 155 178	88 36.1 501 155 181
23	87 33.9 505 158 171	88 34.2 508 158 174	90 34.4 512 158 176	91 34.5 518 158 179	93 34.6 528 159 183	

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Figure 6-2 (Sheet 7 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) 1 ENGINE ISA

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %
NM/100kg Kg/h/eng
IAS TAS

WEIGHT (1000 kg)	FL 120 SAT -9 °C	FL 130 SAT -11 °C	FL 140 SAT -13 °C	FL 150 SAT -15 °C	FL 160 SAT -17 °C	FL 170 SAT -19 °C
12	37 51.5 263 114 135	37 52.8 261 114 137	38 54.0 259 114 140	38 55.2 257 114 142	39 56.2 257 114 144	39 57.2 257 114 147
14	46 48.5 301 123 146	46 49.4 301 123 149	47 50.3 300 123 151	48 51.3 299 123 153	49 52.1 299 123 156	49 52.9 300 123 159
16	55 45.5 344 132 156	56 46.2 344 132 159	57 47.0 344 132 162	58 47.7 344 132 164	59 48.3 345 132 167	60 48.7 348 132 169
18	66 42.6 389 140 166	67 43.1 391 140 169	68 43.6 393 140 172	70 43.9 397 140 174	71 43.9 403 140 177	72 43.8 411 140 180
19	72 41.1 414 144 170	73 41.5 418 144 173	74 41.6 422 144 176	76 41.7 429 144 179		
20	78 39.5 443 147 175	79 39.6 448 147 178	81 39.6 456 148 181			
21	84 37.8 475 151 179					

WEIGHT (1000 kg)	FL 180 SAT -21 °C	FL 190 SAT -23 °C	FL 200 SAT -25 °C	FL 210 SAT -27 °C	FL 220 SAT -29 °C	FL 230 SAT -31 °C
12	40 58.2 256 114 149	41 59.2 256 114 152	41 60.4 256 114 154	42 61.3 256 114 157	43 62.2 256 114 159	44 63.1 257 114 162
14	50 53.7 300 123 161	51 54.5 301 123 164	52 55.1 302 123 167	53 55.5 305 123 169	54 55.8 309 123 173	55 55.8 314 124 176
15	56 51.5 324 128 167	57 51.9 327 128 170	58 52.2 331 128 173	59 52.3 336 128 175	60 52.1 343 128 179	
16	61 49.0 352 132 172	63 49.1 357 132 175	64 49.1 363 132 178			
17	67 46.3 383 136 178	69 46.2 391 136 181				

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Figure 6-2 (Sheet 8 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) 1 ENGINE ISA

DATE: JAN 2000 **AIRCRAFT:** C-295M **FLAPS:** UP (0°)
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G **ENGINE A/I:** OFF
PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL 240 SAT -33 °C	FL 250 SAT -35 °C
12	44	45
	63.9 259	64.4 261
	114 165	114 168
13	50	51
	59.9 287	59.9 293
	119 172	119 175
14	56	
	55.6 321	
	124 179	

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Figure 6-2 (Sheet 9 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA +10°C**

DATE: JAN 2000 AIRCRAFT: C-295M FLAPS: UP (0°)
DATA BASIS: FLIGHT TEST ENGINES: PW 127G ENGINE A/I: OFF
PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL SL SAT +25 °C	FL 10 SAT +23 °C	FL 20 SAT +21 °C	FL 30 SAT +19 °C	FL 40 SAT +17 °C	FL 50 SAT +15 °C
12	33 36.9 311 114 115	33 38.0 306 114 116	33 39.1 302 114 118	34 40.3 297 114 120	34 41.5 293 114 122	34 42.8 289 114 124
14	40 36.4 341 123 124	40 37.4 336 123 126	41 38.4 332 123 128	41 39.4 329 123 130	42 40.5 324 123 131	42 41.6 321 123 133
16	48 35.7 371 131 132	48 36.6 368 131 134	49 37.4 365 131 136	50 38.3 362 131 139	50 39.1 360 132 141	51 39.8 358 131 143
18	56 34.5 408 139 141	57 35.1 406 139 143	58 35.8 405 139 145	59 36.5 403 140 147	59 37.1 402 139 149	60 37.8 401 140 152
20	65 33.0 449 147 148	66 33.6 448 147 150	67 34.2 447 147 153	68 34.8 446 147 155	69 35.3 445 147 157	71 35.9 445 147 160
22	75 31.6 492 154 156	76 32.1 491 154 158	78 32.6 491 154 160	79 33.1 491 154 163	80 33.6 491 154 165	81 34.1 492 154 168
23	80 30.9 514 158 159	82 31.4 514 158 161	83 31.9 514 158 164	84 32.3 515 158 166	85 32.7 515 158 169	87 33.1 517 158 171

WEIGHT (1000 kg)	FL 60 SAT +13 °C	FL 70 SAT +11 °C	FL 80 SAT +9 °C	FL 90 SAT +7 °C	FL 100 SAT +5 °C	FL 110 SAT +3 °C
12	35 43.9 285 114 125	35 45.1 282 114 127	35 46.4 279 114 129	36 47.7 276 114 131	36 49.0 272 114 133	37 50.3 270 114 136
14	43 42.6 318 123 136	43 43.7 315 123 138	44 44.6 313 123 140	44 45.5 312 123 142	45 46.5 310 123 144	46 47.3 310 123 147
16	52 40.6 357 132 145	52 41.3 357 132 147	53 42.1 355 132 149	54 42.8 354 132 152	55 43.7 353 132 154	56 44.4 353 132 157
18	61 38.5 400 140 154	62 39.1 399 140 156	63 39.7 399 140 159	64 40.4 399 140 161	65 41.1 399 140 164	66 41.7 399 140 166
20	72 36.5 445 147 162	73 37.0 445 147 165	74 37.5 446 147 167	75 38.0 447 147 170	77 38.4 450 147 173	78 38.7 453 147 175
21	77 35.5 468 151 166	78 35.9 470 151 169	80 36.4 472 151 172	81 36.7 475 151 174	83 37.0 479 151 177	
22	83 34.5 493 154 170	84 34.8 496 154 173	86 35.1 499 154 175	87 35.4 504 155 178		
23	88 33.4 520 158 174	90 33.7 524 158 177	92 34.0 531 159 180			

15-A-156615-C-0117B-00025-A-01-1IE6

Figure 6-2 (Sheet 10 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA +10°C**

DATE: JAN 2000 AIRCRAFT: C-295M
DATA BASIS: FLIGHT TEST ENGINES: PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL 120 SAT +1 °C	FL 130 SAT -1 °C	FL 140 SAT -3 °C	FL 150 SAT -5 °C	FL 160 SAT -7 °C	FL 170 SAT -9 °C
12	37 51.5 268 114 138	38 52.7 266 114 140	38 53.7 265 114 142	39 54.8 264 114 145	40 55.8 264 114 147	40 56.8 264 114 150
14	47 48.2 309 123 149	47 49.0 308 123 151	48 50.0 308 123 154	49 50.9 307 123 156	50 51.7 307 123 159	51 52.5 307 123 162
16	57 45.1 353 132 159	58 45.9 353 132 162	59 46.6 353 132 164	60 47.3 354 132 167	61 47.7 356 132 170	62 48.1 359 132 173
17	62 43.7 376 136 164	63 44.3 377 136 167	64 44.8 378 136 170	65 45.3 381 136 172	67 45.5 385 136 175	68 45.6 391 136 178
18	68 42.2 401 140 169	69 42.6 403 140 172	70 42.9 407 140 175	71 43.1 411 140 177		
19	73 40.6 428 144 174	75 40.8 432 144 176	76 41.0 438 144 179			
20	79 38.9 458 147 178					

WEIGHT (1000 kg)	FL 180 SAT -11 °C	FL 190 SAT -13 °C	FL 200 SAT -15 °C	FL 210 SAT -17 °C	FL 220 SAT -19 °C	FL 230 SAT -21 °C
12	41 57.8 263 114 152	42 58.9 263 114 155	42 59.9 263 114 157	43 60.8 263 114 160	44 61.7 264 114 163	45 62.5 265 114 166
13	46 55.5 285 119 158	47 56.4 285 119 161	48 57.3 286 119 164	49 58.0 287 119 167	49 58.5 289 119 169	50 58.9 293 119 172
14	51 53.3 308 123 164	52 54.0 310 123 167	53 54.5 312 123 170	54 54.9 316 123 173	55 54.9 320 123 176	
15	57 50.9 334 127 170	58 51.3 337 128 173	59 51.4 342 128 176	61 51.3 349 128 179		
16	63 48.3 364 132 176	64 48.3 370 132 179				

PESO (1000 kg)	FL 240 SAT -23 °C	FL 250 SAT -25 °C
12	46 63.2 267 114 169	46 63.5 270 114 172
13	52 58.9 298 119 176	53 58.7 305 119 179

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Figure 6-2 (Sheet 11 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA +20°C**

DATE: JAN 2000 AIRCRAFT: C-295M FLAPS: UP (0°)
 DATA BASIS: FLIGHT TEST ENGINES: PW 127G ENGINE A/I: OFF
 PROPELLERS: HS 568F-5

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL SL SAT +35 °C	FL 10 SAT +33 °C	FL 20 SAT +31 °C	FL 30 SAT +29 °C	FL 40 SAT +27 °C	FL 50 SAT +25 °C
12	33 36.8 316 114 116	34 37.9 312 114 118	34 39.0 307 114 120	34 40.3 303 114 122	34 41.5 298 114 124	35 42.8 293 114 126
14	40 36.4 346 123 126	41 37.4 341 123 128	41 38.5 337 123 130	42 39.6 333 123 132	42 40.6 329 123 134	43 41.7 326 123 136
16	48 35.8 377 131 135	49 36.5 374 131 137	50 37.3 373 132 139	50 38.0 371 131 141	51 38.8 369 131 143	52 39.6 367 131 145
18	57 34.2 417 139 143	58 34.9 415 139 145	59 35.6 414 139 147	59 36.3 412 139 149	60 37.0 410 139 152	61 37.7 409 140 154
20	66 32.9 458 147 151	67 33.5 457 147 153	68 34.0 456 147 155	70 34.6 456 147 158	71 35.1 455 147 160	72 35.7 455 147 162
22	76 31.5 502 154 158	78 31.9 502 154 160	79 32.4 502 154 163	80 32.9 503 154 165	81 33.3 503 154 168	83 33.8 505 154 170
23	82 30.8 525 158 162	83 31.2 526 158 164	84 31.6 527 158 167	86 32.0 528 158 169	87 32.4 529 158 172	89 32.8 532 158 174

WEIGHT (1000 kg)	FL 60 SAT +23 °C	FL 70 SAT +21 °C	FL 80 SAT +19 °C	FL 90 SAT +17 °C	FL 100 SAT +15 °C	FL 110 SAT +13 °C
12	35 44.0 290 114 128	35 45.3 286 114 130	36 46.5 283 114 132	36 47.8 280 114 134	37 49.0 277 114 136	37 50.1 276 114 138
14	43 42.6 324 123 138	44 43.4 323 123 140	45 44.2 321 123 142	45 45.1 320 123 144	46 46.1 319 123 147	47 46.9 318 123 149
16	53 40.3 366 132 148	53 41.1 364 131 150	54 41.9 363 131 152	55 42.6 363 132 154	56 43.3 362 132 157	57 44.0 362 132 159
18	62 38.3 409 140 156	63 38.9 409 140 159	65 39.5 409 140 161	66 40.1 409 140 164	67 40.6 410 140 167	68 41.1 411 140 169
19	68 37.2 432 143 161	69 37.8 432 144 163	70 38.3 433 144 166	71 38.8 434 144 169	72 39.3 436 144 171	74 39.6 439 144 174
20	73 36.2 456 147 165	74 36.7 457 147 167	75 37.1 458 147 170	77 37.5 461 147 173	78 37.8 464 147 176	
21	78 35.2 481 151 169	80 35.6 483 151 172	81 35.9 486 151 174			
22	84 34.1 507 154 173	86 34.4 510 154 176				

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Figure 6-2 (Sheet 12 of 13) Maximum Endurance. (MCT). 1 Engine

MAXIMUM ENDURANCE (MCT) **1 ENGINE** **ISA +20°C**

DATE: JAN 2000 **AIRCRAFT:** C-295M
DATA BASIS: FLIGHT TEST **ENGINES:** PW 127G
PROPELLERS: HS 568F-5

FLAPS: UP (0°)
ENGINE A/I: OFF

TQ %	
NM/100kg	Kg/h/eng
IAS	TAS

WEIGHT (1000 kg)	FL 120 SAT +11 °C	FL 130 SAT +9 °C	FL 140 SAT +7 °C	FL 150 SAT +5 °C	FL 160 SAT +3 °C	FL 170 SAT +1 °C
12	38 51.1 275 114 140	39 52.2 173 114 143	39 53.3 272 114 145	40 54.4 271 114 147	40 55.3 270 114 150	41 56.4 270 114 152
14	47 47.8 316 123 151	48 48.7 316 123 154	49 49.6 316 123 157	50 50.5 315 123 159	51 51.3 316 123 162	52 52.0 316 123 165
16	58 44.7 362 132 162	59 45.4 363 132 165	60 46.1 363 132 167	61 46.6 365 132 170	62 47.0 368 132 173	63 47.3 371 132 176
17	63 43.2 387 136 167	64 43.7 388 136 170	66 44.2 390 136 173	67 44.6 393 136 175		
18	69 41.6 414 140 172	70 42.0 416 140 175				

WEIGHT (1000 kg)	FL 180 SAT -1 °C	FL 190 SAT -3 °C	FL 200 SAT -5 °C	FL 210 SAT -7 °C	FL 220 SAT -9 °C	FL 230 SAT -11 °C
12	42 57.4 270 114 155	43 58.4 270 114 158	43 59.3 270 114 160	44 60.3 270 114 163	45 61.1 272 114 166	46 61.7 273 114 169
13	47 55.0 293 119 161	48 55.9 294 119 164	49 56.6 295 119 167	50 57.1 297 119 170	51 57.6 300 119 173	52 57.8 304 119 176
14	53 52.6 318 123 167	54 53.2 320 123 170	55 53.6 323 123 173	56 53.9 327 123 176		
15	58 50.2 346 128 173	60 50.4 349 128 176				

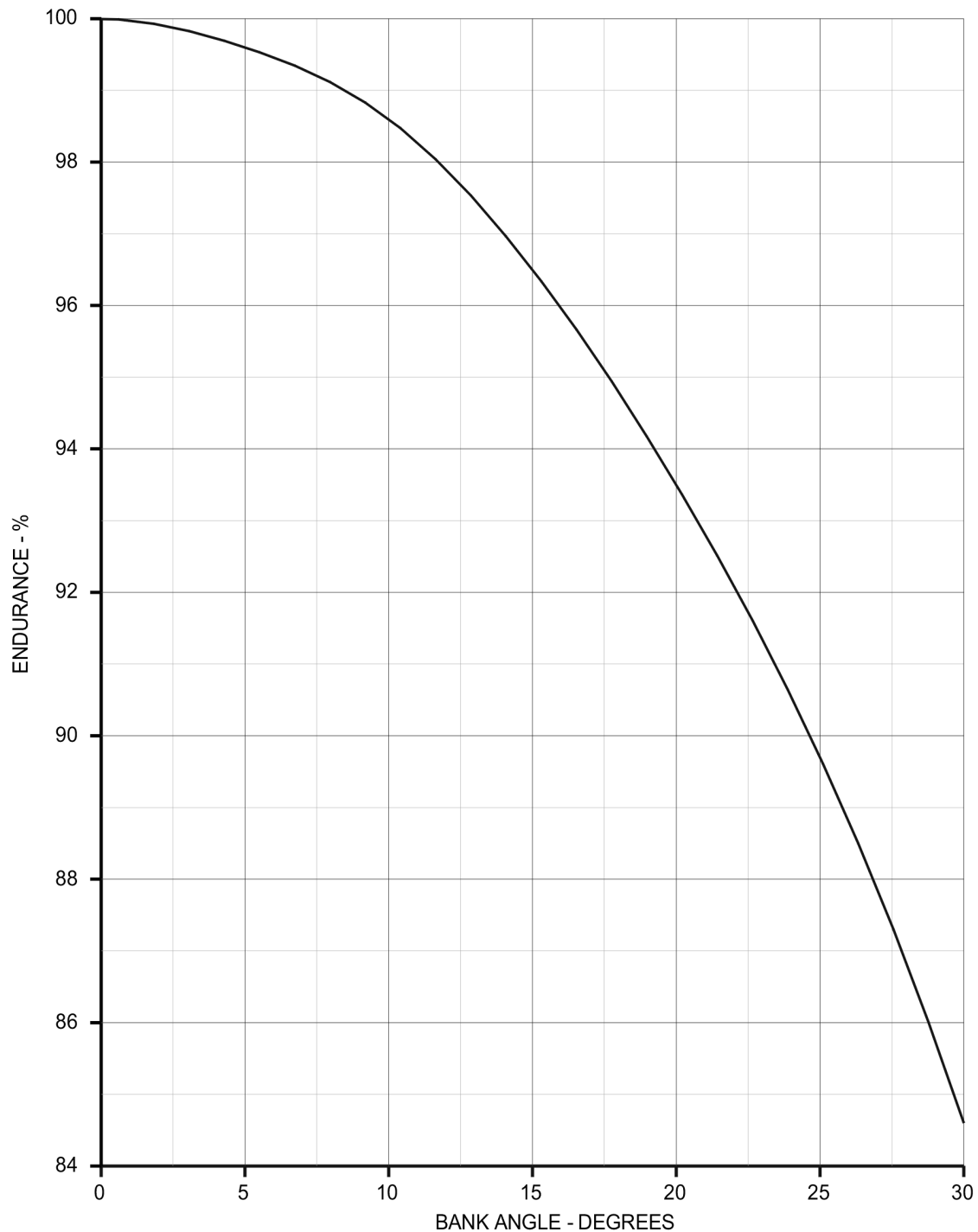
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Figure 6-2 (Sheet 13 of 13) Maximum Endurance. (MCT). 1 Engine

EFFECT OF BANK ANGLE ON ENDURANCE

DATE: JUL. 2000
DATA BASIS: FLIGHT TEST

AIRCRAFT: C-295M
ENGINES: PW 127-G
PROPELLERS: HS 568F-5



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Figure 6-3 Effect of Bank Angle on Endurance