5.8 - ENGINE OPERATION

The following tables must be used during normal operation of the airplane.

The following conditions are given :

- Np = 2000 RPM,
- BLEED AUTO.

The torque must be set at or below the value corresponding to the local conditions of flight level and temperature.

Example : for FL = 260 and IOAT = - 17°C, the following tables give the maximum torque to be set.

Maximum climb power : TRQ = 92 % for IAS = 130 KIAS
(Add 1 % of TRQ for each additional 10 KIAS on climb airspeed)
(cf. tables Figures 5.8.1 and 5.8.1A)

Climb at 700 SHP power : TRQ = 92 % for IAS = 130 KIAS
(Add 1 % of TRQ for each additional 10 KIAS on climb airspeed)
(cf. tables Figures 5.8.2 and 5.8.2A)

Maximum cruise power : TRQ = 109 %
(cf. tables Figures 5.8.3 and 5.8.3A)

Recommended cruise power : TRQ = 104 %
(cf. tables Figures 5.8.4 and 5.8.4A)

CAUTION

THE TRQ SETTING MUST NEVER EXCEED 121.4 % FOR NP = 2000 RPM.
WHEN SETTING TRQ, NG MUST NEVER EXCEED 104 %

REMARK :
The engine ITT limit at 840°C during continuous operation may be used in case of operational need.

ENGINE OPERATION

Conditions : ***Maximum climb power (FL ≤ 200)*** ☐ ISA
Landing gear and flaps UP
IAS = 130 KIAS - Np = 2000 RPM - BLEED AUTO

NOTE :
Add 1 % of TRQ for each additional 10 KCAS on climb airspeed

T° (°C)		FLIGHT LEVEL (FL)										
SAT	IOAT	100	110	120	130	140	150	160	170	180	190	200
- 25	- 19											
- 23	- 17											121
- 21	- 15											120
- 19	- 13		**TRQ = 121 %**									118
- 17	- 11										121	117
- 15	- 09										120	115
- 13	- 07										118	114
- 11	- 05									121	117	112
- 09	- 03									120	115	109
- 07	- 01									118	113	108
- 05	+ 01								121	116	111	106
- 03	+ 03								119	114	109	104
- 01	+ 05							121	117	112	106	101
+ 01	+ 07							120	115	109	103	97
+ 03	+ 09							118	112	106	100	95
+ 05	+ 11						121	115	109	103	97	92
+ 07	+ 13					121	117	112	106	100	95	89
+ 09	+ 15					120	114	108	103	97	92	87
+ 11	+ 17				121	117	111	106	100	94	89	84
+ 13	+ 19				119	114	108	102	97	91	86	
+ 15	+ 21			121	116	111	105	99	94	88		
+ 17	+ 23			119	113	107	102	96	91			
+ 19	+ 25		121	115	109	104	98	93				
+ 21	+ 27	121	117	111	106	100	95					
+ 23	+ 29	119	114	108	103	97						
+ 25	+ 31	116	110	105	99							
+ 27	+ 33	112	107	101								
+ 29	+ 35	109	103									
+ 31	+ 37	105										

CAUTION

THE TRQ SETTING MUST NEVER EXCEED 121.4 % FOR Np = 2000 RPM

Figure 5.8.1 - ENGINE OPERATION
[Maximum climb power (FL ≤ 200)]

ENGINE OPERATION

Conditions : ***Maximum climb power (FL ≥ 200)*** ☐ ISA

Landing gear and flaps UP

IAS = 130 KIAS – Np = 2000 RPM – BLEED AUTO

NOTE :
Add 1 % of TRQ for each additional 10 KCAS on climb airspeed

T° (°C)		FLIGHT LEVEL (FL)											
SAT	IOAT	200	210	220	230	240	250	260	270	280	290	300	310
- 67	- 60								116	110	105	100	95
- 65	- 58							121	114	109	104	99	94
- 63	- 56							119	113	108	103	98	93
- 61	- 54							118	112	107	102	97	92
- 59	- 52							116	111	106	100	96	91
- 57	- 50						121	115	109	104	99	94	90
- 55	- 48		**TRQ = 121 %**				120	114	108	103	98	93	89
- 53	- 46						118	113	107	102	97	92	88
- 51	- 44						117	111	106	101	96	91	87
- 49	- 42					121	115	110	104	100	95	90	86
- 47	- 40					119	114	108	103	99	94	89	85
- 45	- 38					118	112	107	102	97	93	88	84
- 43	- 36				121	116	111	106	101	96	92	87	83
- 41	- 34				120	115	110	105	100	95	90	86	82
- 39	- 32				118	113	108	103	98	94	89	85	80
- 37	- 30			121	117	112	107	102	97	92	88	83	79
- 35	- 28			120	115	110	106	101	96	91	87	82	78
- 33	- 26			119	114	109	104	99	95	90	86	81	77
- 31	- 25		121	117	112	107	103	98	93	89	84	80	76
- 29	- 23		120	115	111	106	102	97	92	87	83	79	75
- 27	- 21		119	114	109	105	100	95	91	86	82	77	73
- 25	- 19		118	113	108	103	99	94	89	85	80	76	72
- 23	- 17	121	116	111	107	102	98	92	88	83	79	74	70
- 21	- 15	120	115	110	105	101	96	91	87	82	77	72	68
- 19	- 13	118	113	109	104	99	95	89	85	80	75	71	66
- 17	- 11	117	112	107	102	98	93	88	83	78	73	69	64
- 15	- 09	115	110	105	100	96	91	86	81	76	71	67	62
- 13	- 07	114	108	103	98	94	89	84	79	74	69	64	
- 11	- 05	112	106	101	97	92	87	82	77	72	67	62	
- 09	- 03	109	104	100	95	90	85	79	74	69	65		
- 07	- 01	108	103	98	92	87	82	77	72	67			
- 05	+ 01	106	101	95	90	85	79	74	70	65			
- 03	+ 03	104	98	92	87	82	77	72	68				
- 01	+ 05	101	95	89	84	79	75	70					
+ 01	+ 07	97	92	87	82	77	72						
+ 03	+ 09	95	89	85	80	75							
+ 05	+ 11	92	87	82	77								
+ 07	+ 13	89	84	79									
+ 09	+ 15	87	81										
+ 11	+ 17	84											

CAUTION

THE TRQ SETTING MUST NEVER EXCEED 121.4 % FOR Np = 2000 RPM

Figure 5.8.1A – ENGINE OPERATION
[Maximum climb power (FL ≥ 200)]

ENGINE OPERATION

Conditions : ***Climb at 700 SHP power (FL ≤ 200)*** ☐ ISA
Landing gear and flaps UP
IAS = 130 KIAS - Np = 2000 RPM - BLEED AUTO

NOTE :
Add 1 % of TRQ for each additional 10 KCAS on climb airspeed

T° (°C)		FLIGHT LEVEL (FL)										
SAT	IOAT	100	110	120	130	140	150	160	170	180	190	200
- 25	- 19											
- 23	- 17											
- 21	- 15											
- 19	- 13		**TRQ = 100 %**									
- 17	- 11											
- 15	- 09											
- 13	- 07											
- 11	- 05											
- 09	- 03											
- 07	- 01											
- 05	+ 01											
- 03	+ 03											
- 01	+ 05											100
+ 01	+ 07											97
+ 03	+ 09										100	95
+ 05	+ 11										97	92
+ 07	+ 13									100	95	89
+ 09	+ 15									97	92	87
+ 11	+ 17								100	94	89	84
+ 13	+ 19							100	97	91	86	
+ 15	+ 21							99	94	88		
+ 17	+ 23						100	96	91			
+ 19	+ 25						98	93				
+ 21	+ 27					100	95					
+ 23	+ 29				100	97						
+ 25	+ 31				99							
+ 27	+ 33			100								
+ 29	+ 35		100									
+ 31	+ 37	100										

Figure 5.8.2 - ENGINE OPERATION
[Climb at 700 SHP power (FL ≤ 200)]

ENGINE OPERATION

Conditions : ***Climb at 700 SHP power (FL ≥ 200)*** ☐ ISA
Landing gear and flaps UP
IAS = 130 KIAS - Np = 2000 RPM - BLEED AUTO

NOTE :
Add 1 % of TRQ for each additional 10 KCAS on climb airspeed

T° (°C)		FLIGHT LEVEL (FL)											
SAT	IOAT	200	210	220	230	240	250	260	270	280	290	300	310
- 67	- 60											100	95
- 65	- 58											99	94
- 63	- 56											98	93
- 61	- 54											97	92
- 59	- 52										100	96	91
- 57	- 50		**TRQ = 100 %**								99	94	90
- 55	- 48										98	93	89
- 53	- 46										97	92	88
- 51	- 44										96	91	87
- 49	- 42									100	95	90	86
- 47	- 40									99	94	89	85
- 45	- 38									97	93	88	84
- 43	- 36									96	92	87	83
- 41	- 34								100	95	90	86	82
- 39	- 32								98	94	89	85	80
- 37	- 30								97	92	88	83	79
- 35	- 28							100	96	91	87	82	78
- 33	- 26							99	95	90	86	81	77
- 31	- 25							98	93	89	84	80	76
- 29	- 23							97	92	87	83	79	75
- 27	- 21						100	95	91	86	82	77	73
- 25	- 19						99	94	89	85	80	76	72
- 23	- 17						98	92	88	83	79	74	70
- 21	- 15					100	96	91	87	82	77	72	68
- 19	- 13					99	95	89	85	80	75	71	66
- 17	- 11					98	93	88	83	78	73	69	64
- 15	- 09				100	96	91	86	81	76	71	67	62
- 13	- 07				98	94	89	84	79	74	69	64	
- 11	- 05				97	92	87	82	77	72	67	62	
- 09	- 03			100	95	90	85	79	74	69	65		
- 07	- 01			98	92	87	82	77	72	67			
- 05	+ 01		100	95	90	85	79	74	70	65			
- 03	+ 03		98	92	87	82	77	72	68				
- 01	+ 05	100	95	89	84	79	75	70					
+ 01	+ 07	97	92	87	82	77	72						
+ 03	+ 09	95	89	85	80	75							
+ 05	+ 11	92	87	82	77								
+ 07	+ 13	89	84	79									
+ 09	+ 15	87	81										
+ 11	+ 17	84											

Figure 5.8.2A - ENGINE OPERATION
[Climb at 700 SHP power (FL ≥ 200)]

ENGINE OPERATION

Conditions : ***Maximum cruise power (FL ≤ 200)*** ☐ ISA

Landing gear and flaps UP

Np = 2000 RPM - BLEED AUTO

NOTE :

Use preferably recommended cruise power

T° (°C)		FLIGHT LEVEL (FL)										
SAT	IOAT	100	110	120	130	140	150	160	170	180	190	200
- 25	- 15											
- 23	- 13											
- 21	- 11											
- 19	- 09		**TRQ = 121 %**									
- 17	- 07											
- 15	- 05											
- 13	- 03											
- 11	- 02											
- 09	00											
- 07	+ 02											
- 05	+ 04											
- 03	+ 06											121
- 01	+ 08											120
+ 01	+ 10										121	117
+ 03	+ 12										120	114
+ 05	+ 14									121	117	111
+ 07	+ 16									120	114	107
+ 09	+ 18								121	117	110	104
+ 11	+ 20								119	113	107	101
+ 13	+ 22							121	115	110	104	97
+ 15	+ 24							118	112	106	100	
+ 17	+ 26						121	115	108	103		
+ 19	+ 28					121	118	111	105			
+ 21	+ 29					120	114	108				
+ 23	+ 31				121	117	111					
+ 25	+ 33				119	113						
+ 27	+ 35			121	115							
+ 29	+ 37		121	117								
+ 31	+ 39	121	120									

CAUTION

THE TRQ SETTING MUST NEVER EXCEED 121.4 % FOR Np = 2000 RPM.
WHEN SETTING TRQ, NG MUST NEVER EXCEED 104 %

Figure 5.8.3 - ENGINE OPERATION
[Maximum cruise power (FL ≤ 200)]

ENGINE OPERATION

Conditions : ***Maximum cruise power (FL ≥ 200)*** ☐ ISA
Landing gear and flaps UP
Np = 2000 RPM – BLEED AUTO

NOTE :
Use preferably recommended cruise power

T° (°C)		FLIGHT LEVEL (FL)											
SAT	IOAT	200	210	220	230	240	250	260	270	280	290	300	310
– 67	– 56									121	116	111	106
– 65	– 54									120	115	110	105
– 63	– 52									119	114	109	104
– 61	– 50									118	113	108	103
– 59	– 48								121	117	112	107	102
– 57	– 46								120	116	111	106	101
– 55	– 44			**TRQ = 121 %**					119	115	110	105	100
– 53	– 42								118	114	109	103	99
– 51	– 40								117	113	107	102	98
– 49	– 38							121	116	111	106	101	97
– 47	– 36							120	115	110	105	100	96
– 45	– 34							119	114	109	104	99	95
– 43	– 32							118	113	108	103	98	94
– 41	– 30						121	117	112	107	102	97	93
– 39	– 28						120	116	111	106	100	96	92
– 37	– 26						119	115	109	104	99	95	91
– 35	– 24						118	113	108	103	98	94	90
– 33	– 22						117	112	107	102	97	93	89
– 31	– 20					121	116	111	106	101	96	92	88
– 29	– 19					120	115	110	105	100	95	91	87
– 27	– 17					119	114	109	104	99	94	90	86
– 25	– 15					118	113	108	103	98	93	89	84
– 23	– 13				121	117	111	106	101	96	92	88	83
– 21	– 11				120	115	110	105	100	95	91	86	81
– 19	– 09				118	113	108	104	99	94	89	84	79
– 17	– 07			121	117	112	107	102	98	93	88	82	77
– 15	– 05			120	115	110	106	101	96	91	85	79	61
– 13	– 03			119	114	109	104	100	94	88	82	77	58
– 11	– 02			118	113	108	103	98	91	85	80	61	56
– 09	00		121	117	111	107	101	95	89	83	77	58	53
– 07	+ 02		120	115	110	104	98	92	86	80	75	56	
– 05	+ 04		119	113	107	101	95	89	84	78	59		
– 03	+ 06	121	117	110	104	98	92	87	81	75			
– 01	+ 08	120	113	107	101	95	90	84	78				
+ 01	+ 10	117	110	104	99	93	87	81					
+ 03	+ 12	114	108	101	95	90	84						
+ 05	+ 14	111	104	98	92	87							
+ 07	+ 16	107	101	95	89								
+ 09	+ 18	104	98	92									
+ 11	+ 20	101	95										

CAUTION
THE TRQ SETTING MUST NEVER EXCEED 121.4 % FOR Np = 2000 RPM
WHEN SETTING TRQ, NG MUST NEVER EXCEED 104 %

Figure 5.8.3A – ENGINE OPERATION [Maximum cruise power (FL ≥ 200)]

ENGINE OPERATION

Conditions : ***Normal (recommended) cruise power (FL ≤ 200)*** ☐ ISA
Landing gear and flaps UP
Np = 2000 RPM - BLEED AUTO

T° (°C)		FLIGHT LEVEL (FL)										
SAT	IOAT	100	110	120	130	140	150	160	170	180	190	200
- 25	- 15											
- 23	- 13											
- 21	- 11											
- 19	- 09		**TRQ = 121 %**									
- 17	- 07											
- 15	- 05											
- 13	- 03											
- 11	- 02											
- 09	00											121
- 07	+ 02											120
- 05	+ 04										121	117
- 03	+ 06										120	114
- 01	+ 08										117	111
+ 01	+ 10									121	114	108
+ 03	+ 12								121	118	111	105
+ 05	+ 14								120	114	108	101
+ 07	+ 16							121	117	110	104	98
+ 09	+ 18							120	113	107	101	95
+ 11	+ 20						121	116	110	104	98	92
+ 13	+ 22						119	113	106	100	95	89
+ 15	+ 24					121	115	109	103	97	91	
+ 17	+ 26				121	118	112	106	99	94		
+ 19	+ 28				120	114	108	102	96			
+ 21	+ 29			121	117	111	105	99				
+ 23	+ 31			119	113	107	101					
+ 25	+ 33		121	115	109	104						
+ 27	+ 35	121	118	112	106							
+ 29	+ 37	120	114	108								
+ 31	+ 39	116	110									

CAUTION

THE TRQ MUST NEVER EXCEED 121.4 % FOR Np = 2000 RPM

Figure 5.8.4 - ENGINE OPERATION
[Normal (recommended) cruise power (FL ≤ 200)]

ENGINE OPERATION

Conditions : ***Normal (recommended) cruise power (FL ≥ 200)*** ☐ ISA
Landing gear and flaps UP
Np = 2000 RPM - BLEED AUTO

T° (°C)		FLIGHT LEVEL (FL)											
SAT	IOAT	200	210	220	230	240	250	260	270	280	290	300	310
- 67	- 56									117	112	107	102
- 65	- 54								121	116	111	106	101
- 63	- 52								120	115	110	105	100
- 61	- 50								119	114	109	104	99
- 59	- 48							121	118	113	108	103	98
- 57	- 46		**TRQ = 121 %**					120	116	112	107	102	97
- 55	- 44							119	114	111	106	101	96
- 53	- 42							118	113	110	105	99	95
- 51	- 41							117	112	109	103	98	94
- 49	- 39							116	111	107	102	97	93
- 47	- 37						121	115	110	106	101	96	92
- 45	- 35						120	114	109	105	100	95	91
- 43	- 33						118	113	108	103	99	94	90
- 41	- 31						116	112	107	102	98	93	89
- 39	- 29						115	111	106	101	96	92	88
- 37	- 27						114	110	104	99	95	91	87
- 35	- 25						113	108	103	98	94	90	86
- 33	- 23					121	112	107	102	97	93	89	85
- 31	- 21					120	111	106	101	96	92	88	84
- 29	- 19					116	110	105	100	95	91	87	83
- 27	- 17					114	109	104	99	94	90	86	81
- 25	- 15				121	113	108	103	98	93	89	84	80
- 23	- 13				117	112	107	101	96	92	87	83	78
- 21	- 12				115	110	105	100	95	91	86	81	76
- 19	- 10			121	113	108	103	99	94	89	84	78	60
- 17	- 08			117	112	107	102	98	93	87	81	76	57
- 15	- 06			116	111	106	101	96	90	84	78	61	55
- 13	- 04		121	114	110	105	99	93	87	81	76	58	52
- 11	- 02		120	113	108	102	96	90	84	79	73	55	50
- 09	00	121	117	111	105	99	93	87	82	77	58	52	47
- 07	+ 02	120	114	108	102	96	91	85	79	74	55		
- 05	+ 04	117	111	105	99	93	88	82	77	71			
- 03	+ 06	114	108	102	96	91	85	79	74	55			
- 01	+ 08	111	105	99	93	88	82	76	71				
+ 01	+ 10	107	102	96	90	85	79	74					
+ 03	+ 12	105	99	93	87	82	76						
+ 05	+ 14	101	95	90	84	79							
+ 07	+ 16	98	92	87	82								
+ 09	+ 18	95	90	84									
+ 11	+ 20	92	87										

CAUTION
THE TRQ MUST NEVER EXCEED 121.4 % FOR Np = 2000 RPM

Figure 5.8.4A - ENGINE OPERATION
[Normal (recommended) cruise power (FL ≥ 200)]

5.10 - CLIMB PERFORMANCE

MXCL - SPEEDS (IAS = 130 KIAS)

Conditions : Maximum climb power (850 SHP)
Landing gear and flaps UP
IAS = 130 KIAS - BLEED AUTO or HI

Airplane weight	Pressure altitude (feet)	RATE OF CLIMB (ft/min)					
		ISA - 20°C	ISA - 10°C	ISA	ISA + 10°C	ISA + 20°C	ISA + 30°C
5794 lbs (2628 kg)	SL	3050	2915	2800	2685	2580	2480
	2000	3025	2890	2765	2655	2545	2445
	4000	2995	2860	2735	2615	2505	2405
	6000	2960	2820	2695	2575	2465	2360
	8000	2930	2790	2655	2535	2425	2320
6594 lbs (2991 kg)	SL	2585	2470	2365	2270	2175	2090
	2000	2560	2445	2335	2240	2145	2055
	4000	2530	2415	2305	2205	2110	2020
	6000	2500	2380	2265	2165	2070	1980
	8000	2465	2345	2230	2125	2035	1945
7394 lbs (3354 kg)	SL	2195	2095	2005	1920	1840	1765
	2000	2170	2070	1975	1890	1810	1730
	4000	2140	2035	1945	1855	1770	1695
	6000	2110	2005	1905	1820	1735	1660
	8000	2075	1970	1870	1780	1700	1620

Figure 5.10.1 - MXCL - SPEEDS (IAS = 130 KIAS)

CLIMB PERFORMANCE

MXCL – SPEEDS (IAS = 160 KIAS)

Conditions : Maximum climb power (850 SHP)
Landing gear and flaps UP
IAS = 160 KIAS up to 20000 ft, then – 2 KIAS/1000 ft
BLEED AUTO or HI

Airplane weight	Pressure altitude (feet)	RATE OF CLIMB (ft/min)					
		ISA – 20°C	ISA – 10°C	ISA	ISA + 10°C	ISA + 20°C	ISA + 30°C
5794 lbs (2628 kg)	SL	2850	2720	2600	2490	2385	2285
	2000	2815	2680	2560	2445	2335	2235
	4000	2770	2635	2510	2395	2285	2180
	6000	2725	2590	2460	2340	2230	2130
	8000	2680	2540	2405	2290	2180	2080
6594 lbs (2991 kg)	SL	2430	2320	2215	2115	2025	1940
	2000	2395	2280	2175	2075	1985	1895
	4000	2355	2240	2130	2030	1935	1845
	6000	2315	2195	2085	1980	1885	1800
	8000	2270	2150	2035	1935	1840	1755
7394 lbs (3354 kg)	SL	2080	1980	1890	1805	1725	1650
	2000	2045	1945	1855	1765	1685	1610
	4000	2010	1910	1810	1725	1640	1560
	6000	1970	1865	1770	1675	1595	1520
	8000	1930	1820	1720	1635	1550	1475

Figure 5.10.2 – MXCL – SPEEDS (IAS = 160 KIAS)

CLIMB PERFORMANCE

700 SHP – CLIMB SPEEDS (IAS = 130 KIAS)

Conditions : 700 SHP climb power
Landing gear and flaps UP
IAS = 130 KIAS – BLEED AUTO or HI

Airplane weight	Pressure altitude (feet)	RATE OF CLIMB (ft/min)					
		ISA – 20°C	ISA – 10°C	ISA	ISA + 10°C	ISA + 20°C	ISA + 30°C
5794 lbs (2628 kg)	SL	2445	2335	2235	2145	2060	1980
	2000	2420	2310	2210	2115	2030	1945
	4000	2390	2280	2175	2085	1995	1910
	6000	2360	2245	2145	2050	1960	1875
	8000	2330	2215	2110	2015	1925	1845
6594 lbs (2991 kg)	SL	2050	1955	1875	1795	1720	1640
	2000	2025	1925	1840	1765	1690	1620
	4000	1995	1900	1815	1735	1660	1585
	6000	1970	1870	1780	1700	1625	1555
	8000	1935	1840	1745	1665	1590	1520
7394 lbs (3354 kg)	SL	1725	1645	1570	1500	1435	1380
	2000	1700	1615	1540	1470	1405	1345
	4000	1670	1590	1510	1440	1375	1315
	6000	1640	1555	1480	1410	1340	1280
	8000	1610	1525	1445	1375	1310	1250

Figure 5.10.3 – 700 SHP – CLIMB SPEEDS (IAS = 130 KIAS)

CLIMB PERFORMANCE

700 SHP – CLIMB SPEEDS (IAS = 160 KIAS)

Conditions : 700 SHP climb power
Landing gear and flaps UP
IAS = 160 KIAS up to 20000 ft, then – 2 KIAS/1000 ft
BLEED AUTO or HI

Airplane weight	Pressure altitude (feet)	RATE OF CLIMB (ft/min)					
		ISA – 20°C	ISA – 10°C	ISA	ISA + 10°C	ISA + 20°C	ISA + 30°C
5794 lbs (2628 kg)	SL	2160	2055	1955	1865	1785	1705
	2000	2120	2010	1915	1825	1740	1665
	4000	2075	1970	1875	1780	1695	1620
	6000	2035	1925	1830	1735	1650	1570
	8000	1995	1880	1785	1690	1605	1515
6594 lbs (2991 kg)	SL	1820	1730	1650	1570	1490	1415
	2000	1780	1690	1600	1530	1460	1380
	4000	1740	1650	1560	1490	1410	1345
	6000	1700	1610	1520	1450	1370	1305
	8000	1660	1570	1480	1400	1330	1255
7394 lbs (3354 kg)	SL	1540	1460	1390	1320	1255	1200
	2000	1510	1430	1355	1285	1225	1165
	4000	1470	1390	1315	1245	1185	1125
	6000	1430	1350	1275	1205	1140	1080
	8000	1395	1315	1240	1170	1105	1035

Figure 5.10.4 – 700 SHP – CLIMB SPEEDS (IAS = 160 KIAS)

CLIMB PERFORMANCE

MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS)

Conditions : ***ISA - 20°C***
Maximum climb power (850 SHP)
Landing gear and flaps UP
IAS = 130 KIAS - 2000 RPM - BLEED AUTO

NOTE :
- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected, fuel consumptions increased by 2 %*

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	00.45	4	3	0.9	1	00.45	4	3	1.1	2	01.00	5	4	1.3	2
4000	01.15	7	6	1.9	3	01.45	8	7	2.2	3	01.45	10	8	2.6	4
6000	02.00	10	8	2.8	4	02.30	12	10	3.3	5	02.45	15	11	3.9	6
8000	02.45	14	11	3.6	6	03.15	16	13	4.3	7	03.45	19	15	5.1	8
10000	03.15	17	13	4.5	7	04.00	20	16	5.3	9	04.45	24	19	6.3	10
12000	04.00	20	16	5.4	9	04.45	24	19	6.4	11	05.45	29	22	7.5	13
14000	04.45	24	19	6.2	11	05.45	28	22	7.4	13	06.45	33	26	8.8	15
16000	05.30	27	21	7.1	13	06.30	32	25	8.4	15	07.45	38	30	10.0	18
18000	06.15	30	24	8.0	15	07.15	36	28	9.4	17	08.45	42	33	11.2	21
20000	07.00	33	26	8.8	17	08.15	40	31	10.5	20	09.45	47	37	12.5	24
22000	07.45	37	29	9.7	19	09.15	44	34	11.5	22	11.00	52	41	13.7	27
24000	08.30	40	31	10.5	21	10.00	48	37	12.6	25	12.00	57	45	15.0	30
26000	09.15	43	34	11.4	23	11.00	52	40	13.6	28	13.15	62	48	16.3	34
28000	10.00	47	37	12.3	26	12.00	56	44	14.7	31	14.30	67	52	17.6	38
30000	11.00	50	39	13.3	29	13.15	60	47	15.9	35	15.45	72	57	19.1	42
31000	11.30	52	41	13.8	31	13.45	62	49	16.5	37	16.45	75	59	19.9	45

Figure 5.10.5 - MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS) / ISA - 20°C

CLIMB PERFORMANCE

MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS)

Conditions : ***ISA***
Maximum climb power (850 SHP)
Landing gear and flaps UP
IAS = 130 KIAS – 2000 RPM – BLEED AUTO

NOTE :

- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by 4 %
  time to climb increased up to 5 % above FL 260

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)
		l	kg	us gal			l	kg	us gal			l	kg	us gal	
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	00.45	4	3	1.0	2	00.45	5	4	1.2	2	01.00	6	4	1.5	2
4000	01.30	8	6	2.1	3	01.45	9	7	2.5	4	02.00	11	9	2.9	4
6000	02.15	12	9	3.1	5	02.30	14	11	3.7	6	03.00	16	13	4.3	7
8000	03.00	15	12	4.1	7	03.30	18	14	4.8	8	04.00	22	17	5.7	9
10000	03.45	19	15	5.1	8	04.30	23	18	6.0	10	05.15	27	21	7.1	12
12000	04.30	23	18	6.0	10	05.15	27	21	7.2	12	06.15	32	25	8.5	15
14000	05.15	26	21	7.0	12	06.15	31	25	8.3	15	07.30	37	29	9.9	18
16000	06.00	30	24	8.0	15	07.15	36	28	9.5	17	08.30	43	34	11.3	21
18000	06.45	34	27	8.9	17	08.15	40	32	10.7	20	09.45	48	38	12.7	24
20000	07.45	38	29	9.9	19	09.15	45	35	11.8	23	11.00	53	42	14.1	28
22000	08.30	41	32	10.9	22	10.15	49	39	13.0	26	12.00	59	46	15.6	31
24000	09.30	45	35	11.9	24	11.15	54	42	14.2	29	13.30	65	51	17.1	35
26000	10.15	49	38	12.9	27	12.30	59	46	15.5	33	15.00	70	55	18.6	40
28000	11.30	53	42	14.0	31	13.45	64	50	16.8	38	16.45	77	60	20.3	46
30000	12.45	57	45	15.2	35	15.15	69	54	18.3	43	18.45	84	66	22.2	53
31000	13.30	60	47	15.8	38	16.15	72	57	19.1	46	20.00	88	69	23.3	57

Figure 5.10.6 – MXCL – TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS) / ISA

CLIMB PERFORMANCE

MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS)

Conditions : ***ISA + 20°C***
Maximum climb power (850 SHP)
Landing gear and flaps UP
IAS = 130 KIAS - 2000 RPM - BLEED AUTO

NOTE :
- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by :
  . 2 % below FL 150
  . up to 6 % from FL 150 to FL 250
  . up to 14 % above FL 250
  time to climb increased by 4 % to 21 % from FL 200 to FL 310

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	00.45	4	3	1.2	2	01.00	5	4	1.4	2	01.00	6	5	1.6	2
4000	01.30	9	7	2.3	4	02.00	10	8	2.7	4	02.15	12	10	3.2	5
6000	02.30	13	10	3.4	5	02.45	15	12	4.1	7	03.15	18	14	4.8	8
8000	03.15	17	13	4.5	7	03.45	20	16	5.4	9	04.30	24	19	6.4	11
10000	04.00	21	17	5.6	10	04.45	25	20	6.7	11	05.45	30	24	8.0	14
12000	04.45	25	20	6.7	12	05.45	30	24	8.0	14	07.00	36	28	9.5	17
14000	05.45	30	23	7.8	14	06.45	35	28	9.3	17	08.15	42	33	11.1	20
16000	06.30	34	26	8.9	17	08.00	40	32	10.6	20	09.30	48	38	12.7	24
18000	07.30	38	30	10.0	19	09.00	45	36	12.0	23	10.45	54	43	14.3	28
20000	08.30	42	33	11.1	22	10.15	50	40	13.3	27	12.15	60	47	16.0	32
22000	09.30	47	37	12.3	25	11.30	56	44	14.7	31	13.45	67	53	17.7	37
24000	10.45	51	40	13.5	29	13.00	61	48	16.2	35	15.45	74	58	19.6	43
26000	12.15	56	44	14.8	34	14.45	68	53	17.9	41	17.45	82	64	21.7	50
28000	13.45	61	48	16.2	39	16.45	74	58	19.6	48	20.30	91	71	24.1	59
30000	15.30	67	53	17.7	46	19.00	82	64	21.6	57	23.45	102	80	26.9	72
31000	16.30	70	55	18.5	50	20.30	86	68	22.8	62	26.00	108	85	28.5	79

Figure 5.10.7 - MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS) / ISA + 20°C

CLIMB PERFORMANCE

MXCL – TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS)

Conditions : ***ISA - 20°C***
Maximum climb power (850 SHP)
Landing gear and flaps UP
IAS = 160 KIAS up to FL 200 ; – 2 KIAS / 1000 ft then
2000 RPM – BLEED AUTO

NOTE :
- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by 2 %

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	00.45	4	3	1.0	2	00.45	4	4	1.2	2	01.00	5	4	1.4	3
4000	01.30	8	6	2.0	4	01.45	9	7	2.3	4	02.00	10	8	2.7	5
6000	02.15	11	9	3.0	6	02.30	13	10	3.5	7	03.00	15	12	4.1	8
8000	03.00	15	12	3.9	8	03.30	17	14	4.6	9	04.00	20	16	5.4	11
10000	03.45	18	15	4.9	10	04.15	22	17	5.7	12	05.00	26	20	6.7	14
12000	04.30	22	17	5.8	12	05.15	26	20	6.9	14	06.00	31	24	8.1	17
14000	05.15	26	20	6.8	15	06.15	30	24	8.0	17	07.15	36	28	9.4	20
16000	06.00	29	23	7.7	17	07.00	35	27	9.1	20	08.15	41	32	10.7	24
18000	06.45	33	26	8.7	20	08.00	39	30	10.3	23	09.30	46	36	12.1	28
20000	07.45	37	29	9.7	23	09.00	43	34	11.4	27	10.45	51	40	13.5	32
22000	08.30	40	32	10.6	25	10.00	47	37	12.5	30	11.45	56	44	14.8	36
24000	09.15	44	34	11.5	28	11.00	52	41	13.7	34	13.00	61	48	16.2	40
26000	10.15	47	37	12.5	31	12.00	56	44	14.8	37	14.15	66	52	17.5	44
28000	11.00	51	40	13.4	34	13.00	60	47	15.9	41	15.30	72	56	18.9	49
30000	12.00	55	43	14.4	38	14.15	65	51	17.1	45	17.00	77	61	20.4	54
31000	12.30	56	44	14.9	40	14.45	67	53	17.8	47	17.45	80	63	21.2	57

Figure 5.10.8 – MXCL – TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS) / ISA – 20°C

CLIMB PERFORMANCE

MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS)

Conditions : ***ISA***
Maximum climb power (850 SHP)
Landing gear and flaps UP
IAS = 160 KIAS up to FL 200 ; - 2 KIAS / 1000 ft then
2000 RPM - BLEED AUTO

NOTE :

- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by 5 %
  time to climb increased up to 6 % above FL 260

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	00.45	4	3	1.1	2	00.45	5	4	1.3	2	01.00	6	5	1.6	3
4000	01.45	8	7	2.2	4	01.45	10	8	2.6	5	02.15	12	9	3.1	6
6000	02.30	13	10	3.3	7	02.45	15	12	3.9	8	03.15	17	14	4.6	9
8000	03.15	17	13	4.4	9	03.45	20	16	5.2	11	04.30	23	18	6.1	12
10000	04.00	21	16	5.5	11	04.45	25	19	6.5	14	05.45	29	23	7.6	16
12000	05.00	25	20	6.6	14	05.45	29	23	7.8	17	06.45	35	27	9.2	20
14000	05.45	29	23	7.7	17	06.45	34	27	9.1	20	08.00	40	32	10.7	24
16000	06.45	33	26	8.8	20	07.45	39	31	10.4	24	09.15	46	36	12.2	28
18000	07.30	37	29	9.9	23	09.00	44	35	11.7	27	10.45	52	41	13.8	32
20000	08.30	42	33	11.0	26	10.15	49	39	13.0	31	12.00	58	46	15.4	37
22000	09.30	46	36	12.1	30	11.15	54	43	14.3	35	13.15	64	50	17.0	42
24000	10.30	50	39	13.2	33	12.15	59	46	15.6	40	14.45	70	55	18.6	47
26000	11.30	54	42	14.3	37	13.45	64	51	17.0	44	16.15	77	60	20.3	53
28000	12.45	59	46	15.5	41	15.15	70	55	18.4	50	18.15	84	66	22.1	60
30000	14.00	63	50	16.7	46	16.45	76	59	20.0	56	20.15	91	72	24.1	68
31000	14.45	66	52	17.3	49	17.45	79	62	20.8	59	21.30	95	75	25.2	72

Figure 5.10.9 - MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS) / ISA

CLIMB PERFORMANCE

MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS)

Conditions : ***ISA + 20°C***
Maximum climb power (850 SHP)
Landing gear and flaps UP
IAS = 160 KIAS up to 20000 ft ; - 2 KIAS / 1000 ft then
2000 RPM - BLEED AUTO

NOTE :

- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by :
  . 2 % below FL 200
  . up to 9 % from FL 200 to FL 250
  . up to 21 % above FL 250
  time to climb increased by 5 % to 31 % from FL 200 to FL 310

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)
		l	kg	us gal			l	kg	us gal			l	kg	us gal	
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	00.45	5	4	1.3	2	01.00	6	4	1.5	3	01.15	7	5	1.7	3
4000	01.45	9	7	2.5	5	02.00	11	9	3.0	6	02.30	13	10	3.5	7
6000	02.45	14	11	3.7	7	03.00	17	13	4.4	9	03.45	20	15	5.2	10
8000	03.30	19	15	5.0	10	04.00	22	17	5.9	12	05.00	26	21	6.9	14
10000	04.30	23	18	6.2	13	05.15	28	22	7.3	15	06.15	33	26	8.6	18
12000	05.30	28	22	7.4	16	06.15	33	26	8.7	19	07.30	39	31	10.3	23
14000	06.15	33	26	8.6	19	07.30	39	30	10.2	23	09.00	46	36	12.1	27
16000	07.15	37	29	9.9	23	08.45	44	35	11.7	27	10.15	52	41	13.9	32
18000	08.15	42	33	11.1	26	10.00	50	39	13.2	31	11.45	59	47	15.7	37
20000	09.30	47	37	12.4	31	11.15	56	44	14.8	36	13.30	67	52	17.6	44
22000	10.45	52	41	13.8	35	12.45	62	49	16.5	42	15.15	74	58	19.6	51
24000	12.15	58	45	15.2	41	14.30	69	54	18.2	49	17.30	83	65	21.8	59
26000	13.45	63	50	16.7	47	16.30	76	60	20.1	56	20.00	92	72	24.2	68
28000	15.30	69	54	18.3	53	18.45	84	66	22.1	65	23.00	102	80	27.0	80
30000	17.30	76	60	20.0	61	21.30	92	73	24.4	76	26.45	114	90	30.1	95
31000	18.45	79	62	21.0	66	23.15	97	76	25.7	82	29.15	121	95	32.0	104

Figure 5.10.10 - MXCL - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS) / ISA + 20°C

CLIMB PERFORMANCE

700 SHP – TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS)

Conditions : ***ISA - 20°C***
700 SHP climb power
Landing gear and flaps UP
IAS = 130 KIAS – 2000 RPM – BLEED AUTO

NOTE :
- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected, fuel consumptions increased by 2 %*

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)
		l	kg	us gal			l	kg	us gal			l	kg	us gal	
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	00.45	4	3	1.1	2	01.00	5	4	1.3	2	01.15	6	4	1.5	2
4000	01.30	8	6	2.1	3	02.00	9	7	2.5	4	02.15	11	9	3.0	5
6000	02.30	12	9	3.1	5	03.00	14	11	3.7	6	03.30	17	13	4.4	8
8000	03.15	15	12	4.1	7	04.00	18	14	4.9	9	04.45	22	17	5.8	10
10000	04.15	19	15	5.0	9	05.00	23	18	6.0	11	06.00	27	21	7.2	13
12000	05.15	23	18	6.0	11	06.00	27	21	7.2	14	07.15	33	26	8.6	17
14000	06.00	26	21	6.9	14	07.15	31	25	8.3	16	08.45	38	30	10.0	20
16000	06.45	30	23	7.9	16	08.15	36	28	9.5	19	10.00	43	34	11.4	23
18000	07.45	33	26	8.8	18	09.30	40	31	10.6	22	11.15	48	38	12.8	27
20000	08.45	37	29	9.7	21	10.30	44	35	11.7	25	12.45	54	42	14.2	31
22000	09.45	40	32	10.7	24	11.45	49	38	12.9	29	14.00	59	46	15.6	35
24000	10.45	44	35	11.6	26	13.00	53	42	14.0	32	15.30	64	50	17.0	39
26000	11.45	48	37	12.5	30	14.00	57	45	15.2	36	17.00	70	55	18.4	44
28000	12.45	51	40	13.5	33	15.15	62	49	16.3	40	18.45	75	59	19.9	49
30000	13.45	55	43	14.5	36	16.30	66	52	17.5	44	20.15	81	64	21.4	54
31000	14.15	57	44	15.0	38	17.15	69	54	18.2	46	21.15	84	66	22.2	57

Figure 5.10.11 – 700 SHP – TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS) / ISA – 20°C

CLIMB PERFORMANCE

700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS)

Conditions : ***ISA***
700 SHP climb power
Landing gear and flaps UP
IAS = 130 KIAS - 2000 RPM - BLEED AUTO

NOTE :
- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected, fuel consumptions increased by 4 %*

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	01.00	4	4	1.2	2	01.00	5	4	1.4	2	01.15	6	5	1.7	3
4000	01.45	9	7	2.3	4	02.15	11	8	2.8	5	02.30	13	10	3.4	6
6000	02.45	13	10	3.5	6	03.15	16	12	4.1	7	04.00	19	15	5.0	9
8000	03.45	17	14	4.6	8	04.30	21	16	5.5	10	05.20	25	20	6.6	12
10000	04.45	21	17	5.7	11	05.30	26	20	6.8	13	06.40	31	24	8.2	15
12000	05.45	25	20	6.7	13	06.45	31	24	8.1	16	08.00	37	29	9.7	19
14000	06.30	30	23	7.8	16	08.00	36	28	9.4	19	09.30	43	34	11.3	23
16000	07.30	34	26	8.9	18	09.00	40	32	10.7	22	11.00	49	38	12.9	27
18000	08.30	38	30	9.9	21	10.30	45	36	12.0	26	12.30	55	43	14.5	31
20000	09.45	42	33	11.0	24	11.45	50	39	13.3	29	14.00	61	48	16.1	36
22000	10.45	46	36	12.1	27	13.00	55	43	14.6	33	15.45	67	53	17.8	41
24000	11.45	50	39	13.1	31	14.15	60	47	15.9	37	17.30	74	58	19.4	46
26000	13.00	54	42	14.2	34	15.45	65	51	17.3	42	19.15	80	63	21.1	51
28000	14.00	58	46	15.3	38	17.15	71	55	18.7	47	21.00	87	68	22.9	58
30000	15.15	62	49	16.5	42	18.45	76	60	20.1	52	23.00	94	74	24.8	65
31000	16.00	65	51	17.1	45	19.45	79	62	20.9	55	24.15	98	77	25.8	69

Figure 5.10.12 - 700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS) / ISA

CLIMB PERFORMANCE

700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS)

Conditions : ***ISA + 20°C***
700 SHP climb power
Landing gear and flaps UP
IAS = 130 KIAS - 2000 RPM - BLEED AUTO

NOTE :
- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by :
  . 3 % below FL 250
  . up to 12 % above FL 250
  time to climb increased by 4 % to 17 % from FL 260 to FL 310

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	01.00	5	4	1.3	2	01.15	6	5	1.6	3	01.30	7	6	1.9	3
4000	02.00	10	8	2.6	4	02.15	12	9	3.1	5	02.45	14	11	3.8	7
6000	03.00	15	11	3.9	7	03.30	18	14	4.6	8	04.15	21	17	5.6	10
8000	04.00	19	15	5.1	9	04.45	23	18	6.1	11	05.45	28	22	7.4	14
10000	05.00	24	19	6.3	12	06.00	29	23	7.6	15	07.15	35	27	9.2	18
12000	06.00	28	22	7.5	15	07.30	34	27	9.1	18	09.00	42	33	11.0	22
14000	07.15	33	26	8.7	18	08.45	40	31	10.5	21	10.30	48	38	12.8	26
16000	08.15	38	30	9.9	21	10.00	45	36	12.0	25	12.00	55	43	14.6	31
18000	09.30	42	33	11.1	24	11.30	51	40	13.5	29	13.45	62	49	16.4	36
20000	10.30	47	37	12.4	28	12.45	57	45	15.0	34	15.45	69	54	18.3	41
22000	11.45	51	40	13.6	31	14.15	62	49	16.5	38	17.30	76	60	20.2	47
24000	13.00	56	44	14.8	35	15.45	68	53	18.0	43	19.30	84	66	22.1	53
26000	14.15	61	48	16.1	40	17.30	74	58	19.6	48	21.30	91	72	24.1	60
28000	15.45	66	52	17.5	45	19.15	81	63	21.3	55	24.00	100	78	26.3	69
30000	17.45	72	56	19.0	52	21.45	88	69	23.3	64	27.15	110	87	29.1	81
31000	18.45	75	59	19.8	56	23.00	92	73	24.4	69	29.30	116	91	30.8	88

Figure 5.10.13 - 700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 130 KIAS) / ISA + 20°C

CLIMB PERFORMANCE

700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS)

Conditions : ***ISA - 20°C***
700 SHP climb power
Landing gear and flaps UP
IAS = 160 KIAS up to 20000 ft ; - 2 KIAS / 1000 ft then
2000 RPM - BLEED AUTO

NOTE :
- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by 2 %

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	01.00	5	4	1.2	2	01.00	5	4	1.4	3	01.15	6	5	1.7	3
4000	02.00	9	7	2.4	5	02.15	11	8	2.8	6	02.30	13	10	3.3	7
6000	02.45	13	11	3.5	8	03.30	16	12	4.2	9	04.00	19	15	5.0	11
8000	03.45	18	14	4.7	10	04.30	21	17	5.6	12	05.20	25	20	6.6	15
10000	04.45	22	17	5.8	13	05.45	26	21	6.9	16	07.00	31	24	8.2	19
12000	06.00	26	21	6.9	16	07.00	31	25	8.3	20	08.30	37	29	9.9	23
14000	07.00	31	24	8.1	20	08.15	36	29	9.6	24	10.00	43	34	11.5	28
16000	08.00	35	27	9.2	23	09.30	42	33	11.0	28	11.30	50	39	13.1	33
18000	09.00	39	31	10.3	27	11.00	47	37	12.4	32	13.05	56	44	14.8	39
20000	10.15	44	34	11.5	31	12.30	52	41	13.8	37	14.45	63	49	16.5	45
22000	11.30	48	37	12.6	35	13.45	57	45	15.1	42	16.30	69	54	18.2	50
24000	12.30	52	41	13.7	39	15.15	62	49	16.5	47	18.15	75	59	19.9	56
26000	13.45	56	44	14.8	43	16.30	67	53	17.8	51	20.00	81	64	21.5	62
28000	14.45	60	47	15.8	46	17.45	72	57	19.0	56	21.45	87	69	23.1	68
30000	16.00	64	50	16.8	50	19.15	77	60	20.3	61	23.30	93	73	24.7	75
31000	16.30	66	52	17.3	52	20.00	79	62	21.0	64	24.15	96	76	25.5	78

Figure 5.10.14 - 700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS) / ISA - 20°C

CLIMB PERFORMANCE

700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS)

Conditions : ***ISA***
700 SHP climb power
Landing gear and flaps UP
IAS = 160 KIAS up to 20000 ft ; - 2 KIAS / 1000 ft then
2000 RPM - BLEED AUTO

NOTE :
- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by 4 %

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	01.00	5	4	1.4	3	01.15	6	5	1.6	3	01.30	7	6	1.9	4
4000	02.00	10	8	2.7	6	02.30	12	10	3.2	7	03.00	14	11	3.8	8
6000	03.15	15	12	4.0	9	03.45	18	14	4.8	10	04.30	22	17	5.7	12
8000	04.15	20	16	5.3	12	05.00	24	19	6.3	14	06.00	29	22	7.6	17
10000	05.30	25	20	6.6	15	06.30	30	23	7.9	18	07.45	36	28	9.4	22
12000	06.30	30	23	7.9	19	08.00	36	28	9.4	23	09.30	43	34	11.3	27
14000	07.45	35	27	9.2	23	09.15	42	33	11.0	27	11.00	50	39	13.2	33
16000	09.00	40	31	10.5	27	10.45	48	37	12.6	32	13.00	57	45	15.1	39
18000	10.15	45	35	11.8	31	12.30	54	42	14.2	38	14.45	65	51	17.1	46
20000	11.30	50	39	13.2	36	14.00	60	47	15.9	43	16.45	73	57	19.2	53
22000	13.00	55	43	14.5	41	15.30	66	52	17.5	49	18.45	80	63	21.2	60
24000	14.15	60	47	15.8	45	17.15	72	57	19.0	55	20.45	87	69	23.1	67
26000	15.30	64	50	17.0	50	18.45	78	61	20.5	61	22.45	95	74	25.0	74
28000	16.45	69	54	18.2	55	20.15	84	66	22.1	66	24.45	102	80	26.9	82
30000	18.00	74	58	19.4	60	22.00	89	70	23.6	72	27.00	109	86	28.9	90
31000	18.45	76	60	20.1	63	23.00	92	73	24.4	75	28.15	114	89	30.0	94

Figure 5.10.15 - 700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS) / ISA

CLIMB PERFORMANCE

700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS)

Conditions : ***ISA + 20°C***
700 SHP climb power
Landing gear and flaps UP
IAS = 160 KIAS up to 20000 ft ; - 2 KIAS / 1000 ft then
2000 RPM - BLEED AUTO

NOTE :

- *Time, consumption and distance from the 50 ft*
- *If BLEED HI selected,*
  fuel consumptions increased by :
  . 4 % below FL 250
  . up to 16 % above FL 250
  time to climb increased by 7 % to 22 % from FL 260 to FL 310

Pressure altitude (feet)	WEIGHT 5794 lbs (2628 kg)					WEIGHT 6579 lbs (2984 kg)					WEIGHT 7394 lbs (3354 kg)				
	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)	Time (min. s)	Consump. l	Consump. kg	Consump. us gal	Dist. (NM)
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0
2000	01.00	6	5	1.5	3	01.15	7	5	1.8	4	01.30	8	6	2.2	4
4000	02.15	11	9	3.0	6	02.45	14	11	3.6	8	03.15	16	13	4.3	9
6000	03.30	17	13	4.5	10	04.15	20	16	5.4	12	05.00	24	19	6.4	14
8000	04.45	23	18	6.0	14	05.30	27	21	7.2	16	06.45	32	25	8.6	20
10000	06.00	28	22	7.4	18	07.15	34	27	8.9	21	08.30	41	32	10.7	25
12000	07.15	34	27	8.9	22	08.45	40	32	10.7	26	10.30	49	38	12.9	32
14000	08.30	39	31	10.4	26	10.15	47	37	12.5	32	12.30	57	45	15.1	38
16000	10.00	45	35	11.9	31	12.00	54	43	14.4	38	14.30	66	52	17.4	45
18000	11.30	51	40	13.5	36	13.45	61	48	16.2	44	16.45	75	58	19.7	53
20000	13.00	57	45	15.0	42	15.45	69	54	18.2	51	19.00	84	66	22.1	62
22000	14.30	63	49	16.5	47	17.30	76	60	20.0	58	21.15	92	73	24.4	71
24000	15.45	68	54	18.0	53	19.15	83	65	21.9	65	23.30	101	79	26.7	79
26000	17.30	74	58	19.5	59	21.15	90	71	23.7	72	26.00	110	87	29.1	89
28000	19.15	80	63	21.1	66	23.30	98	77	25.8	81	29.15	120	95	31.8	100
30000	21.15	86	68	22.8	74	26.15	106	83	28.0	91	33.00	132	104	34.9	115
31000	22.30	90	70	23.7	78	27.45	111	87	29.3	98	35.15	139	109	36.8	124

Figure 5.10.16 - 700 SHP - TIME, CONSUMPTION AND CLIMB DISTANCE (IAS = 160 KIAS) / ISA + 20°C

CLIMB PERFORMANCE

CLIMB PERFORMANCE AFTER GO-AROUND

Conditions : 700 SHP climb power
Landing gear DN and flaps LDG
IAS = 90 KIAS

Airplane weight	Pressure altitude (feet)	RATE OF CLIMB (ft/min)						
		ISA - 35°C	ISA - 20°C	ISA - 10°C	ISA	ISA + 10°C	ISA + 20°C	ISA + 30°C
6594 lbs (2991 kg)	SL	1410	1300	1230	1165	1105	1045	985
	2000	1380	1265	1195	1130	1065	1010	955
	4000	1345	1230	1155	1090	1025	970	915
	6000	1310	1190	1115	1050	985	925	870
	8000	1270	1145	1070	1000	940	880	825

Conditions : 700 SHP climb power
Landing gear DN and flaps LDG
IAS = 95 KIAS

Airplane weight	Pressure altitude (feet)	RATE OF CLIMB (ft/min)						
		ISA - 35°C	ISA - 20°C	ISA - 10°C	ISA	ISA + 10°C	ISA + 20°C	ISA + 30°C
7394 lbs (3354 kg)	SL	1120	1025	960	905	850	805	760
	2000	1085	985	920	865	810	765	715
	4000	1045	945	880	825	770	720	675
	6000	1010	905	840	780	730	680	630
	8000	965	860	795	740	685	630	580

Figure 5.10.17 - CLIMB PERFORMANCE AFTER GO-AROUND

CLIMB PERFORMANCE

CLIMB PERFORMANCE – FLAPS TO

Conditions : 700 SHP climb power
Landing gear UP and flaps TO
IAS = 110 KIAS

Airplane weight	Pressure altitude (feet)	RATE OF CLIMB (ft/min)						
		ISA – 35°C	ISA – 20°C	ISA – 10°C	ISA	ISA + 10°C	ISA + 20°C	ISA + 30°C
6594 lbs (2991 kg)	SL	2140	2000	1910	1830	1750	1680	1600
	2000	2120	1975	1880	1800	1720	1650	1585
	4000	2100	1950	1860	1775	1700	1620	1555
	6000	2075	1925	1830	1750	1670	1595	1525
	8000	2050	1895	1805	1720	1640	1565	1495

Conditions : 700 SHP climb power
Landing gear UP and flaps TO
IAS = 115 KIAS

Airplane weight	Pressure altitude (feet)	RATE OF CLIMB (ft/min)						
		ISA – 35°C	ISA – 20°C	ISA – 10°C	ISA	ISA + 10°C	ISA + 20°C	ISA + 30°C
7394 lbs (3354 kg)	SL	1825	1695	1615	1545	1475	1415	1355
	2000	1800	1670	1590	1515	1450	1390	1325
	4000	1775	1640	1560	1490	1420	1360	1300
	6000	1750	1620	1540	1465	1395	1330	1270
	8000	1720	1585	1505	1430	1360	1295	1230

Figure 5.10.18 – CLIMB PERFORMANCE – FLAPS TO

5.11 - CRUISE PERFORMANCE

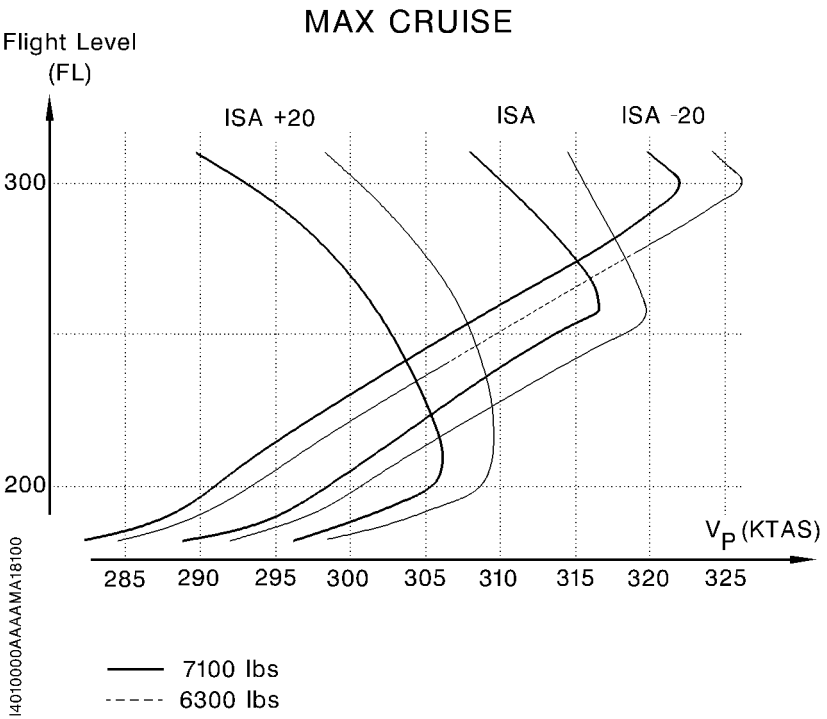

Figure 5.11.1 - CRUISE PERFORMANCE (Maximum cruise)

CRUISE PERFORMANCE

Maximum cruise

Conditions : ***ISA - 20°C***
Landing gear and flaps UP
2000 RPM (*) – BLEED AUTO

NOTE :

- *Use preferably recommended cruise power*
- *If BLEED HI selected,*
  torque reduced by 5 % above FL 290
  airspeeds reduced by 3 KIAS above FL 290
  fuel flow increased by 2 % below FL 290

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 2	121	329	258	86.9	246	241	245	240	244	238
5000	– 8	121	303	238	80.0	241	253	240	252	239	250
10000	– 17	121	282	221	74.5	236	265	234	264	233	262
15000	– 26	121	270	212	71.4	230	280	229	278	227	276
18000	– 32	121	262	205	69.1	227	289	226	287	224	285
20000	– 36	121	256	201	67.7	225	295	224	293	222	291
21000	– 37	121	254	200	67.2	224	298	222	296	221	294
22000	– 39	121	252	198	66.7	223	302	221	299	219	297
23000	– 41	121	251	197	66.2	222	305	220	303	218	300
24000	– 43	121	249	196	65.9	221	308	219	306	217	303
25000	– 45	121	248	195	65.6	220	312	218	309	216	307
26000	– 46	121	247	194	65.3	219	315	217	313	215	310
27000	– 48	121	247	194	65.2	218	319	216	316	213	313
28000	– 50	118	247	194	65.2	216	322	214	320	212	317
29000	– 52	114	247	194	65.3	215	326	213	323	211	320
30000	– 54	110	247	194	65.3	214	329	211	326	209	322
31000	– 56	106	238	187	62.9	209	328	207	324	204	320

Figure 5.11.2 – CRUISE PERFORMANCE –
Maximum cruise / ISA – 20°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Maximum cruise

Conditions : ***ISA - 10°C***
Landing gear and flaps UP
2000 RPM (*) - BLEED AUTO

NOTE :
- *Use preferably recommended cruise power*
- *If BLEED HI selected,*
  torque reduced up to 6 % above FL 270
  above FL 270, airspeeds reduced by 2 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 270

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 12	121	332	261	87.8	245	244	244	242	242	241
5000	+ 2	121	306	240	80.8	240	256	238	255	237	253
10000	- 7	121	285	223	75.2	234	269	232	267	231	265
15000	- 16	121	273	214	72.1	229	283	227	281	225	279
18000	- 22	121	264	207	69.8	225	292	224	290	222	288
20000	- 25	121	259	203	68.4	223	299	221	297	219	294
21000	- 27	121	257	201	67.8	222	302	220	300	218	297
22000	- 29	121	255	200	67.3	221	305	219	303	217	300
23000	- 31	121	253	198	66.8	220	309	218	306	216	304
24000	- 33	121	252	198	66.5	219	312	217	310	215	307
25000	- 34	121	251	197	66.2	217	316	216	313	213	310
26000	- 36	120	249	196	65.9	216	319	214	316	212	313
27000	- 38	116	249	196	65.8	215	322	213	320	211	317
28000	- 40	113	249	195	65.7	214	326	212	323	209	320
29000	- 42	109	241	189	63.6	210	325	207	322	204	318
30000	- 44	105	232	182	61.2	205	324	203	321	200	317
31000	- 46	101	223	175	58.9	201	323	198	319	196	315

Figure 5.11.3 - CRUISE PERFORMANCE -
Maximum cruise / ISA - 10°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Maximum cruise

Conditions : ***ISA - 5°C***
Landing gear and flaps UP
2000 RPM (*) - BLEED AUTO

NOTE :

- *Use preferably recommended cruise power*
- *If BLEED HI selected,*
  torque reduced up to 7 % above FL 260
  above FL 260, airspeeds reduced by 2 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 260

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 17	121	334	262	88.3	244	245	243	244	242	243
5000	+ 8	121	307	241	81.2	239	257	238	256	236	255
10000	- 2	121	286	225	75.6	233	270	232	269	230	267
15000	- 11	121	274	215	72.5	228	285	226	283	224	281
18000	- 17	121	265	208	70.1	224	294	223	292	221	290
20000	- 20	121	260	204	68.7	222	301	220	298	218	296
21000	- 22	121	258	203	68.2	221	304	219	302	217	299
22000	- 24	121	256	201	67.6	220	307	218	305	216	302
23000	- 26	121	254	200	67.2	219	311	217	308	215	305
24000	- 28	121	253	198	66.8	217	314	216	312	213	309
25000	- 29	121	252	198	66.5	216	317	214	315	212	312
26000	- 31	117	251	197	66.3	215	321	213	318	211	315
27000	- 33	113	250	196	66.1	214	324	212	321	209	318
28000	- 35	109	243	191	64.2	210	324	208	321	205	317
29000	- 37	105	234	184	61.9	206	323	203	320	200	316
30000	- 39	102	226	177	59.7	202	323	199	319	197	314
31000	- 41	98	218	171	57.6	198	322	196	318	192	312

Figure 5.11.4 - CRUISE PERFORMANCE -
Maximum cruise / ISA - 5°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Maximum cruise

Conditions : ***ISA***
Landing gear and flaps UP
2000 RPM (*) – BLEED AUTO

NOTE :

- *Use preferably recommended cruise power*
- *If BLEED HI selected,*
  torque reduced up to 8 % above FL 250
  above FL 250, airspeeds reduced by 2 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 250

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 22	121	336	264	88.8	243	246	242	245	241	244
5000	+ 13	121	309	242	81.6	238	259	237	257	235	256
10000	+ 3	121	288	226	76.0	232	272	231	270	229	269
15000	– 6	121	276	216	72.8	227	287	225	285	223	283
18000	– 12	121	267	209	70.5	223	296	222	294	220	291
20000	– 15	121	261	205	69.0	221	302	219	300	217	298
21000	– 17	121	259	203	68.4	220	306	218	303	216	301
22000	– 19	121	257	202	68.0	219	309	217	307	215	304
23000	– 21	121	256	201	67.5	218	312	216	310	214	307
24000	– 22	121	254	199	67.1	216	316	215	313	212	310
25000	– 24	118	253	198	66.8	215	319	213	317	211	313
26000	– 26	115	252	198	66.6	214	323	212	320	210	317
27000	– 28	111	245	192	64.6	210	323	208	319	205	315
28000	– 30	107	236	185	62.4	206	322	204	318	201	314
29000	– 32	103	228	179	60.1	202	321	199	317	197	313
30000	– 34	99	220	172	58.0	198	320	196	316	193	311
31000	– 36	96	211	166	55.8	194	319	192	315	188	309

Figure 5.11.5 – CRUISE PERFORMANCE –
Maximum cruise / ISA

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Maximum cruise

Conditions : ***ISA + 5°C***
Landing gear and flaps UP
2000 RPM (*) – BLEED AUTO

NOTE :

- *Use preferably recommended cruise power*
- *If BLEED HI selected,*
  torque reduced up to 8 % above FL 240
  above FL 240, airspeeds reduced by 3 KIAS+1 KIAS/2 ft
  fuel flow increased by 2 % below FL 240

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 27	121	338	265	89.3	243	248	241	247	240	245
5000	+ 18	121	310	244	82.0	237	260	236	259	234	257
10000	+ 8	121	289	227	76.4	231	273	230	272	228	270
15000	– 1	121	277	218	73.2	226	288	224	286	222	284
18000	– 6	121	268	210	70.8	222	297	221	295	219	293
20000	– 10	121	263	206	69.4	220	304	218	302	216	299
21000	– 12	121	260	204	68.8	219	307	217	305	215	302
22000	– 14	121	259	203	68.3	218	311	216	308	214	305
23000	– 16	121	257	201	67.8	216	314	215	312	213	309
24000	– 17	119	255	200	67.4	215	317	213	315	211	312
25000	– 19	115	254	199	67.1	214	321	212	318	210	315
26000	– 21	111	247	194	65.2	210	321	208	318	206	314
27000	– 23	107	238	187	62.9	206	320	204	317	201	313
28000	– 25	103	229	180	60.6	202	320	200	316	197	311
29000	– 27	100	221	174	58.5	198	319	196	315	193	310
30000	– 29	96	213	167	56.3	195	318	192	313	188	308
31000	– 31	93	205	161	54.2	190	316	187	312	183	305

Figure 5.11.6 – CRUISE PERFORMANCE –
Maximum cruise / ISA + 5°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Maximum cruise

Conditions : ***ISA + 10°C***
Landing gear and flaps UP
2000 RPM (*) - BLEED AUTO

NOTE :

- *Use preferably recommended cruise power*
- *If BLEED HI selected,*
  torque reduced up to 8 % above FL 230
  above FL 230, airspeeds reduced by 4 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 230

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 32	121	340	267	89.8	242	249	241	248	239	247
5000	+ 23	121	312	245	82.5	236	261	235	260	233	259
10000	+ 13	121	291	228	76.8	230	275	229	273	227	272
15000	+ 4	121	279	219	73.6	225	290	223	288	221	286
18000	- 1	121	269	211	71.1	221	299	220	297	218	295
20000	- 5	121	264	207	69.7	219	306	217	304	215	301
21000	- 7	121	262	205	69.1	218	309	216	307	214	304
22000	- 9	121	260	204	68.6	217	312	215	310	213	307
23000	- 11	120	258	202	68.1	215	316	214	313	212	310
24000	- 13	117	256	201	67.7	214	319	212	316	210	313
25000	- 15	113	249	196	65.9	211	320	208	316	206	313
26000	- 17	109	240	189	63.5	207	319	204	315	201	311
27000	- 19	105	232	182	61.2	202	318	200	314	197	310
28000	- 20	101	223	175	59.0	198	317	197	313	193	308
29000	- 22	97	215	169	56.8	195	316	192	312	189	306
30000	- 24	94	207	163	54.7	191	315	188	310	184	304
31000	- 26	91	199	157	52.7	187	314	183	308	179	302

Figure 5.11.7 - CRUISE PERFORMANCE -
Maximum cruise / ISA + 10°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Maximum cruise

Conditions : ***ISA + 20°C***
Landing gear and flaps UP
2000 RPM (*) - BLEED AUTO

NOTE :

- *Use preferably recommended cruise power*
- *If BLEED HI selected,*
  torque reduced up to 10 % above FL 200
  above FL 200, airspeeds reduced by 6 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 200

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 42	121	344	270	90.8	240	252	239	251	238	249
5000	+ 33	121	316	248	83.4	234	264	233	263	232	261
10000	+ 23	121	294	231	77.6	229	278	227	276	226	274
15000	+ 14	121	281	221	74.3	223	293	221	291	220	289
18000	+ 9	121	272	213	71.8	220	302	218	300	216	298
20000	+ 4	121	266	209	70.4	217	309	215	307	213	304
21000	+ 2	120	264	207	69.8	216	312	214	310	212	307
22000	0	117	257	202	67.9	213	313	211	310	208	307
23000	- 2	113	249	195	65.7	209	313	207	310	204	306
24000	- 3	109	241	189	63.6	205	313	203	310	200	305
25000	- 5	106	233	183	61.5	202	312	199	309	197	304
26000	- 7	102	224	176	59.3	198	312	196	308	193	303
27000	- 9	99	217	170	57.3	195	311	192	307	188	302
28000	- 11	95	209	164	55.3	191	310	188	306	184	300
29000	- 13	92	202	158	53.3	187	309	183	304	179	298
30000	- 15	89	195	153	51.4	182	308	179	302	174	295
31000	- 17	86	187	147	49.5	178	307	174	300	169	292

Figure 5.11.8 - CRUISE PERFORMANCE -
Maximum cruise / ISA + 20°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

NORMAL CRUISE (recommended)

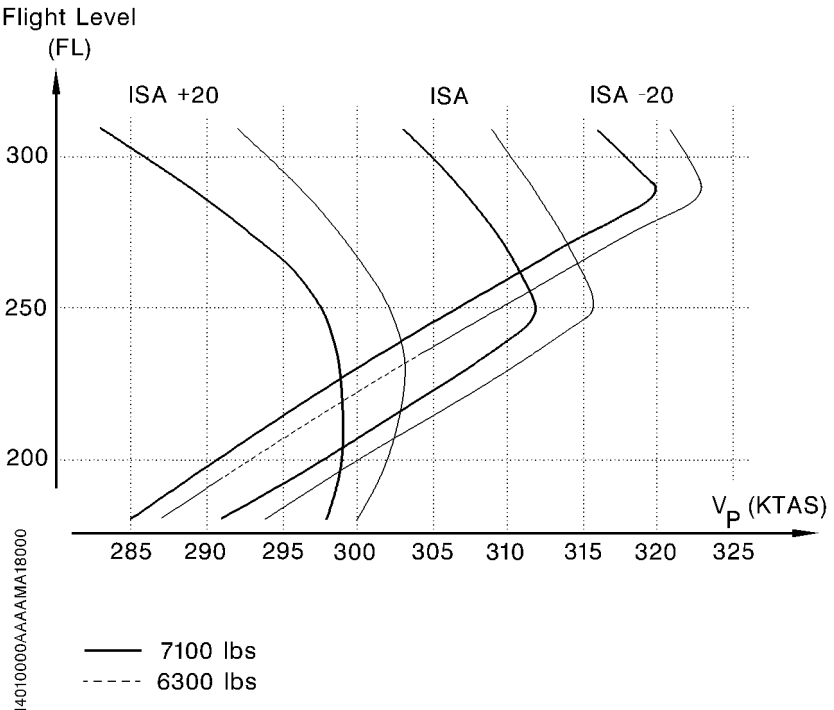

Figure 5.11.9 – CRUISE PERFORMANCE (Recommended cruise)

CRUISE PERFORMANCE

Normal (recommended) cruise

Conditions : ***ISA - 20°C***
Landing gear and flaps UP
2000 RPM (*) – BLEED AUTO

NOTE :

- *Power recommended by PRATT & WHITNEY CANADA*
- *If BLEED HI selected,*
  torque reduced up to 6 % above FL 290
  airspeeds reduced by 4 KIAS above FL 290
  fuel flow increased by 2 % below FL 290

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 2	121	329	258	86.9	246	241	245	240	244	238
5000	– 8	121	303	238	80.0	241	253	240	252	239	250
10000	– 17	121	282	221	74.5	236	265	234	264	233	262
15000	– 26	121	270	212	71.4	230	280	229	278	227	276
18000	– 32	121	262	205	69.1	227	289	226	287	224	285
20000	– 36	121	256	201	67.7	225	295	224	293	222	291
21000	– 37	121	254	200	67.2	224	298	222	296	221	294
22000	– 39	121	252	198	66.7	223	302	221	299	219	297
23000	– 41	121	251	197	66.2	222	305	220	303	218	300
24000	– 43	121	249	196	65.9	221	308	219	306	217	303
25000	– 45	121	248	195	65.6	220	312	218	309	216	307
26000	– 46	120	247	194	65.3	219	315	217	313	215	310
27000	– 48	118	247	194	65.2	218	319	216	316	213	313
28000	– 50	114	247	194	65.2	216	322	214	320	212	317
29000	– 52	110	247	194	65.2	215	326	213	323	211	320
30000	– 54	106	240	188	63.3	211	326	209	322	206	318
31000	– 56	102	231	181	60.9	207	324	204	321	201	316

Figure 5.11.10 – CRUISE PERFORMANCE –
Normal cruise / ISA – 20°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Normal (recommended) cruise

Conditions : ***ISA - 10°C***
Landing gear and flaps UP
2000 RPM (*) – BLEED AUTO

NOTE :

- *Power recommended by PRATT & WHITNEY CANADA*
- *If BLEED HI selected,*
  torque reduced by 7 % above FL 260
  above FL 260, airspeeds reduced by 3 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 260

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 12	121	332	261	87.8	245	244	244	242	242	241
5000	+ 2	121	306	240	80.0	240	256	238	255	237	253
10000	- 7	121	285	223	75.2	234	269	232	267	231	265
15000	- 16	121	273	214	72.1	229	283	227	281	225	279
18000	- 22	121	264	207	69.8	225	292	224	290	222	288
20000	- 25	121	259	203	68.4	223	299	221	297	219	294
21000	- 27	121	257	201	67.8	222	302	220	300	218	297
22000	- 29	121	255	200	67.3	221	305	219	303	217	300
23000	- 31	121	253	198	66.8	220	309	218	306	216	304
24000	- 33	121	252	198	66.5	219	312	217	310	215	307
25000	- 34	120	251	197	66.2	217	316	216	313	213	310
26000	- 36	115	249	196	65.9	216	319	214	316	212	313
27000	- 38	111	248	195	65.5	215	322	212	319	210	315
28000	- 40	109	240	188	63.3	210	321	208	318	206	314
29000	- 42	105	231	182	61.1	206	321	204	317	201	313
30000	- 44	101	223	175	58.9	202	320	200	316	197	312
31000	- 46	97	215	169	56.8	198	319	196	315	193	310

Figure 5.11.11 – CRUISE PERFORMANCE –
Normal cruise / ISA – 10°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Normal (recommended) cruise

Conditions : ***ISA - 5°C***
Landing gear and flaps UP
2000 RPM (*) – BLEED AUTO

NOTE :

- *Power recommended by PRATT & WHITNEY CANADA*
- *If BLEED HI selected,*
  torque reduced by 7 % above FL 250
  above FL 250, airspeeds reduced by 3 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 250

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 17	121	334	262	88.3	244	245	243	244	242	243
5000	+ 8	121	307	241	81.2	239	257	238	256	236	255
10000	– 2	121	286	225	75.6	233	270	232	269	230	267
15000	– 11	121	274	215	72.5	228	285	226	283	224	281
18000	– 17	121	265	208	70.1	224	294	223	292	221	290
20000	– 20	121	260	204	68.7	222	301	220	298	218	296
21000	– 22	121	258	203	68.2	221	304	219	302	217	299
22000	– 24	121	256	201	67.6	220	307	218	305	216	302
23000	– 26	121	254	200	67.2	219	311	217	308	215	305
24000	– 28	121	253	198	66.8	217	314	216	312	213	309
25000	– 29	115	252	198	66.5	216	317	214	315	212	312
26000	– 31	112	250	196	66.0	215	320	212	317	210	314
27000	– 33	108	241	189	63.7	210	320	208	316	206	313
28000	– 35	105	232	182	61.4	206	319	204	316	201	311
29000	– 37	101	224	176	59.3	202	318	200	315	197	310
30000	– 39	97	217	170	57.2	198	317	196	313	193	308
31000	– 41	94	209	164	55.1	195	316	192	312	188	306

Figure 5.11.12 – CRUISE PERFORMANCE –
Normal cruise / ISA – 5°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Normal (recommended) cruise

Conditions : ***ISA***
Landing gear and flaps UP
2000 RPM (*) - BLEED AUTO

NOTE :

- *Power recommended by PRATT & WHITNEY CANADA*
- *If BLEED HI selected,*
  torque reduced by 8 %
  above FL 240, airspeeds reduced by 4 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 240

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 22	121	336	264	88.8	243	246	242	245	241	244
5000	+ 13	121	309	242	81.6	238	259	237	257	235	256
10000	+ 3	121	288	226	76.0	232	272	231	270	229	269
15000	- 6	121	276	216	72.8	227	287	225	285	223	283
18000	- 12	121	267	209	70.5	223	296	222	294	220	291
20000	- 15	121	261	205	69.0	221	302	219	300	217	298
21000	- 17	121	259	203	68.4	220	306	218	303	216	301
22000	- 19	121	257	202	68.0	219	309	217	307	215	304
23000	- 21	121	256	201	67.5	218	312	216	310	214	307
24000	- 22	121	254	199	67.1	216	316	215	313	212	310
25000	- 24	113	252	198	66.5	215	319	213	316	210	312
26000	- 26	110	243	191	64.2	211	318	208	315	206	311
27000	- 28	106	234	184	61.9	206	317	204	314	201	310
28000	- 31	102	226	177	59.7	202	317	200	313	197	308
29000	- 33	99	218	171	57.6	198	316	197	312	193	307
30000	- 35	95	210	165	55.5	195	315	192	310	189	305
31000	- 37	92	202	159	53.4	191	314	188	309	184	303

Figure 5.11.13 - CRUISE PERFORMANCE -
Normal cruise / ISA

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Normal (recommended) cruise

Conditions : ***ISA + 5°C***
Landing gear and flaps UP
2000 RPM (*) - BLEED AUTO

NOTE :

- *Power recommended by PRATT & WHITNEY CANADA*
- *If BLEED HI selected,*
  torque reduced by 8 % above FL 220
  above FL 220, airspeeds reduced by 2 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 220

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 27	121	338	265	89.3	243	248	241	247	240	245
5000	+ 18	121	310	244	82.0	237	260	236	259	234	257
10000	+ 8	121	289	227	76.4	231	273	230	272	228	270
15000	- 1	121	277	218	73.2	226	288	224	286	222	284
18000	- 6	121	268	210	70.8	222	297	221	295	219	293
20000	- 10	121	263	206	69.4	220	304	218	302	216	299
21000	- 12	121	260	204	68.8	219	307	217	305	215	302
22000	- 14	121	259	203	68.3	218	311	216	308	214	305
23000	- 16	121	257	201	67.8	216	314	215	312	213	309
24000	- 18	114	253	199	66.9	215	317	213	314	210	310
25000	- 20	110	245	193	64.8	211	316	209	313	206	310
26000	- 22	106	236	185	62.4	207	316	204	312	202	308
27000	- 24	102	228	179	60.2	202	315	200	311	197	307
28000	- 26	98	220	173	58.1	198	314	197	310	193	305
29000	- 28	95	212	166	55.9	195	313	192	309	189	303
30000	- 30	92	204	160	53.9	191	312	188	307	184	301
31000	- 32	89	196	154	51.9	187	311	183	305	179	299

Figure 5.11.14 - CRUISE PERFORMANCE -
Normal cruise / ISA + 5°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Normal (recommended) cruise

Conditions : ***ISA + 10°C***
Landing gear and flaps UP
2000 RPM (*) - BLEED AUTO

NOTE :

- *Power recommended by PRATT & WHITNEY CANADA*
- *If BLEED HI selected,*
  torque reduced by 9 % above FL 210
  above FL 210, airspeeds reduced by 4 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 210

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 32	121	340	267	89.8	242	249	241	248	239	247
5000	+ 23	121	312	245	82.5	236	261	235	260	233	259
10000	+ 13	121	291	228	76.8	230	275	229	273	227	272
15000	+ 4	121	279	219	73.6	225	290	223	288	221	286
18000	- 1	121	269	211	71.1	221	299	220	297	218	295
20000	- 6	121	264	207	69.7	219	306	217	304	215	301
21000	- 8	121	262	205	69.1	218	309	216	307	214	304
22000	- 10	121	260	204	68.6	217	312	215	310	213	307
23000	- 12	115	254	200	67.2	214	314	212	311	210	308
24000	- 13	112	246	193	65.1	211	314	208	311	206	307
25000	- 15	108	239	188	63.1	207	314	205	311	202	307
26000	- 17	104	230	181	60.8	203	313	200	310	197	305
27000	- 19	100	222	174	58.7	199	312	197	309	194	304
28000	- 21	96	214	168	56.5	195	311	193	307	189	302
29000	- 23	93	206	161	54.3	191	310	188	306	184	300
30000	- 25	90	198	156	52.4	187	309	184	304	180	297
31000	- 27	87	191	150	50.4	183	308	179	301	174	294

Figure 5.11.15 - CRUISE PERFORMANCE -
Normal cruise / ISA + 10°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Normal (recommended) cruise

Conditions : ***ISA + 20°C***
Landing gear and flaps UP
2000 RPM (*) - BLEED AUTO

NOTE :

- *Power recommended by PRATT & WHITNEY CANADA*
- *If BLEED HI selected,*
  torque reduced by 12 % above FL 160
  above FL 160, airspeeds reduced by 7 KIAS+1 KIAS/2000 ft
  fuel flow increased by 2 % below FL 160

Pressure altitude (feet)	IOAT (°C)	TRQ (%)	Fuel flow			AIRSPEEDS (kt)					
						5500 lbs (2495 kg)		6300 lbs (2858 kg)		7100 lbs (3220 kg)	
			l / h	kg / h	us gal / h	IAS	TAS	IAS	TAS	IAS	TAS
0	+ 42	121	344	270	90.8	240	252	239	251	238	249
5000	+ 33	121	316	248	83.4	234	264	233	263	232	261
10000	+ 23	121	294	231	77.6	229	278	227	276	226	274
15000	+ 14	121	281	221	74.3	223	293	221	291	220	289
18000	+ 9	121	272	213	71.8	220	302	218	300	216	298
20000	+ 4	117	259	203	68.4	214	305	212	302	210	299
21000	+ 2	114	251	197	66.4	211	305	209	302	207	299
22000	0	111	244	191	64.4	207	306	205	303	203	299
23000	- 2	108	237	186	62.5	204	306	202	303	199	299
24000	- 4	105	229	180	60.5	201	306	198	302	196	298
25000	- 6	101	222	174	58.6	197	306	195	302	192	297
26000	- 8	98	214	168	56.5	194	305	191	301	188	296
27000	- 10	94	207	162	54.6	190	304	187	299	183	294
28000	- 12	91	199	156	52.6	186	303	183	298	178	291
29000	- 14	87	192	150	50.6	182	302	178	296	174	289
30000	- 16	84	185	145	48.8	178	301	174	294	169	286
31000	- 18	81	178	140	47.0	174	299	169	292	164	283

Figure 5.11.16 - CRUISE PERFORMANCE -
Normal cruise / ISA + 20°C

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Long Range Cruise (5500 lbs - 2495 kg)

Conditions : Landing gear and flaps UP
2000 RPM (*)
BLEED AUTO or HI

LEGEND : **IOAT**: °C **IAS** : KIAS
FF : us gal/h
FF : kg/h **TAS**: KTAS

Pressure altitude (feet)	TRQ (%)	ISA - 20°C	ISA - 10°C	ISA	ISA + 10°C	ISA + 20°C
15000	45	**- 28** **156** 42.2 125 **190**	**- 18** **154** 42.6 127 **192**	**- 8** **152** 43.2 128 **194**	**+ 2** **150** 43.7 130 **195**	**+ 12** **148** 44.2 131 **196**
18000	45	**- 34** **152** 39.7 118 **194**	**- 24** **150** 40.2 120 **196**	**- 14** **148** 40.8 121 **197**	**- 4** **146** 41.2 122 **199**	**+ 6** **145** 41.7 124 **202**
19000	45	**- 36** **150** 39.0 116 **195**	**- 26** **148** 39.4 117 **197**	**- 16** **147** 39.9 119 **199**	**- 6** **145** 40.4 120 **201**	**+ 4** **144** 40.9 121 **203**
20000	45	**- 38** **149** 38.2 113 **197**	**- 28** **147** 38.7 115 **199**	**- 18** **146** 39.1 116 **201**	**- 8** **144** 39.6 118 **203**	**+ 2** **143** 40.1 119 **205**
21000	45	**- 40** **148** 37.4 111 **198**	**- 30** **146** 37.9 112 **201**	**- 20** **145** 38.4 114 **203**	**- 10** **143** 38.8 115 **205**	**+ 0** **142** 39.3 117 **207**
22000	45	**- 42** **147** 36.7 109 **200**	**- 32** **145** 37.1 110 **202**	**- 22** **144** 37.5 112 **205**	**- 12** **142** 38.1 113 **207**	**- 2** **140** 38.6 115 **208**
23000	45	**- 44** **146** 35.9 107 **202**	**- 34** **144** 36.4 108 **205**	**- 24** **142** 36.8 109 **206**	**- 14** **141** 37.3 111 **208**	**- 4** **139** 37.8 112 **210**
24000	45	**- 46** **145** 35.3 105 **204**	**- 36** **143** 35.7 106 **206**	**- 26** **141** 36.1 107 **208**	**- 16** **139** 36.6 109 **210**	**- 6** **138** 37.0 110 **212**

Figure 5.11.17 (1/2) - CRUISE PERFORMANCE -
Long Range Cruise (5500 lbs - 2495 kg) (Altitude $\leq$ 24000 ft)

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Long Range Cruise (5500 lbs - 2495 kg) (Cont'd)

Conditions : Landing gear and flaps UP
2000 RPM (*)
BLEED AUTO or HI

LEGEND : **IOAT**: °C **IAS** : KIAS
FF : us gal/h
FF : kg/h **TAS**: KTAS

Pressure altitude (feet)	TRQ (%)	ISA - 20°C	ISA - 10°C	ISA	ISA + 10°C	ISA + 20°C
24000	45	**- 46** **145** 35.3 105 **204**	**- 36** **143** 35.7 106 **206**	**- 26** **141** 36.1 107 **208**	**- 16** **139** 36.6 109 **210**	**- 6** **138** 37.0 110 **212**
25000	49	**- 48** **150** 35.9 107 **215**	**- 38** **148** 36.4 108 **217**	**- 28** **146** 36.9 110 **219**	**- 18** **145** 37.4 111 **222**	**- 8** **143** 37.9 113 **224**
26000	52	**- 50** **153** 36.6 109 **223**	**- 40** **151** 37.1 110 **226**	**- 30** **150** 37.6 112 **229**	**- 20** **148** 38.0 113 **231**	**- 10** **147** 38.5 114 **233**
27000	54	**- 52** **155** 36.8 109 **230**	**- 42** **153** 37.3 111 **232**	**- 32** **152** 37.8 112 **235**	**- 22** **150** 38.2 114 **237**	**- 12** **148** 38.8 115 **240**
28000	55.5	**- 53** **156** 36.9 110 **235**	**- 43** **154** 37.4 111 **238**	**- 33** **153** 37.9 113 **241**	**- 23** **151** 38.3 114 **243**	**- 13** **149** 38.8 115 **245**
29000	56	**- 55** **156** 36.6 109 **238**	**- 45** **154** 37.1 110 **241**	**- 35** **152** 37.5 111 **244**	**- 25** **150** 38.0 113 **246**	**- 15** **148** 38.5 114 **248**
30000	56.5	**- 57** **155** 36.4 108 **242**	**- 47** **154** 36.9 110 **245**	**- 37** **152** 37.3 111 **247**	**- 27** **150** 37.8 112 **250**	**- 17** **148** 38.3 114 **252**
31000	57	**- 59** **155** 36.1 107 **246**	**- 49** **153** 36.6 109 **248**	**- 39** **151** 37.0 110 **250**	**- 29** **149** 37.5 111 **253**	**- 19** **147** 38.0 113 **255**

Figure 5.11.17 (2/2) - CRUISE PERFORMANCE -
Long Range Cruise (5500 lbs - 2495 kg) (Altitude $\geq$ 24000 ft)

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Long Range Cruise (6300 lbs - 2858 kg)

Conditions : Landing gear and flaps UP
2000 RPM (*)
BLEED AUTO or HI

LEGEND : **IOAT**: °C **IAS** : KIAS
FF : us gal/h
FF : kg/h **TAS**: KTAS

Pressure altitude (feet)	TRQ (%)	ISA - 20°C		ISA - 10°C		ISA		ISA + 10°C		ISA + 20°C	
15000	50	**- 28** 44.4 132	**159** **193**	**- 18** 44.9 134	**156** **194**	**- 8** 45.4 135	**154** **196**	**+ 2** 46.0 137	**153** **198**	**+ 12** 46.5 138	**151** **200**
18000	50	**- 34** 41.8 124	**154** **197**	**- 24** 42.3 126	**153** **199**	**- 14** 42.8 127	**151** **201**	**- 4** 43.4 129	**149** **203**	**+ 6** 43.9 130	**148** **205**
19000	50	**- 36** 41.0 122	**153** **199**	**- 26** 41.5 123	**151** **201**	**- 16** 42.0 125	**150** **203**	**- 6** 42.5 126	**148** **205**	**+ 4** 43.1 128	**146** **206**
20000	50	**- 38** 40.2 120	**152** **201**	**- 28** 40.8 121	**150** **203**	**- 18** 41.2 122	**149** **205**	**- 8** 41.7 124	**147** **206**	**+ 2** 42.2 125	**145** **208**
21000	50	**- 40** 39.4 117	**151** **202**	**- 30** 39.9 119	**149** **204**	**- 20** 40.5 120	**147** **206**	**- 10** 40.9 121	**145** **208**	**+ 0** 41.4 123	**143** **209**
22000	50	**- 42** 38.7 115	**149** **204**	**- 32** 39.1 116	**148** **206**	**- 22** 39.6 118	**146** **208**	**- 12** 40.1 119	**144** **209**	**- 2** 40.6 121	**142** **210**
23000	50	**- 44** 38.0 113	**148** **206**	**- 34** 38.4 114	**146** **207**	**- 24** 38.9 116	**144** **209**	**- 14** 39.3 117	**142** **210**	**- 4** 39.8 118	**140** **212**
24000	50	**- 46** 37.3 111	**147** **207**	**- 36** 37.8 112	**145** **209**	**- 26** 38.2 113	**143** **210**	**- 16** 38.6 115	**141** **212**	**- 6** 39.1 116	**139** **214**

Figure 5.11.18 (1/2) - CRUISE PERFORMANCE -
Long Range Cruise (6300 lbs - 2858 kg) (Altitude $\leq$ 24000 ft)

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Long Range Cruise (6300 lbs - 2858 kg) (Cont'd)

Conditions : Landing gear and flaps UP
2000 RPM (*)
BLEED AUTO or HI

LEGEND : **IOAT**: °C **IAS** : KIAS
FF : us gal/h
FF : kg/h **TAS**: KTAS

Pressure altitude (feet)	TRQ (%)	ISA - 20°C	ISA - 10°C	ISA	ISA + 10°C	ISA + 20°C
24000	50	**- 46** **147** 37.3 111 **207**	**- 36** **145** 37.8 112 **209**	**- 26** **143** 38.2 113 **210**	**- 16** **141** 38.6 115 **212**	**- 6** **139** 39.1 116 **214**
25000	53	**- 48** **151** 37.6 112 **216**	**- 38** **149** 38.0 113 **218**	**- 28** **147** 38.5 114 **220**	**- 18** **145** 39.0 116 **221**	**- 8** **143** 39.5 117 **223**
26000	56	**- 50** **154** 38.2 114 **224**	**- 40** **152** 38.6 115 **227**	**- 30** **150** 39.2 116 **229**	**- 20** **148** 39.7 118 **231**	**- 10** **146** 40.2 119 **232**
27000	58.5	**- 52** **157** 38.7 115 **232**	**- 42** **155** 39.1 116 **234**	**- 32** **153** 39.6 118 **236**	**- 22** **151** 40.1 119 **238**	**- 12** **148** 40.6 121 **240**
28000	60.5	**- 53** **158** 39.0 116 **238**	**- 43** **156** 39.5 117 **241**	**- 33** **154** 40.0 119 **243**	**- 23** **152** 40.5 120 **244**	**- 13** **150** 41.0 122 **246**
29000	61	**- 55** **157** 38.7 115 **241**	**- 45** **155** 39.1 116 **243**	**- 35** **153** 39.7 118 **245**	**- 25** **151** 40.1 119 **247**	**- 15** **149** 40.7 121 **249**
30000	61.5	**- 57** **157** 38.5 114 **244**	**- 47** **155** 39.0 116 **247**	**- 37** **153** 39.4 117 **249**	**- 27** **150** 39.9 119 **251**	**- 17** **148** 40.4 120 **253**
31000	62	**- 59** **156** 38.2 114 **247**	**- 49** **154** 38.7 115 **250**	**- 39** **152** 39.2 116 **252**	**- 29** **150** 39.7 118 **254**	**- 19** **147** 40.2 119 **256**

Figure 5.11.18 (2/2) - CRUISE PERFORMANCE -
Long Range Cruise (6300 lbs - 2858 kg) (Altitude $\geq$ 24000 ft)

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Long Range Cruise (7100 lbs - 3220 kg)

Conditions : Landing gear and flaps UP
2000 RPM (*)
BLEED AUTO or HI

LEGEND : **IOAT**: °C **IAS** : KIAS
FF : us gal/h
FF : kg/h **TAS**: KTAS

Pressure altitude (feet)	TRQ (%)	ISA - 20°C		ISA - 10°C		ISA		ISA + 10°C		ISA + 20°C	
15000	55	**- 28** 46.6 138	**161** **196**	**- 18** 47.1 140	**159** **198**	**- 8** 47.6 142	**157** **199**	**+ 2** 48.3 143	**155** **201**	**+ 12** 48.8 145	**153** **202**
18000	55	**- 34** 43.9 130	**157** **201**	**- 24** 44.4 132	**155** **202**	**- 14** 44.9 134	**153** **204**	**- 4** 45.6 135	**151** **205**	**+ 6** 46.1 137	**149** **207**
19000	55	**- 36** 43.1 128	**155** **202**	**- 26** 43.6 129	**154** **204**	**- 16** 44.1 131	**152** **205**	**- 6** 44.6 133	**149** **207**	**+ 4** 45.1 134	**147** **208**
20000	55	**- 38** 42.2 125	**154** **203**	**- 28** 42.7 127	**152** **205**	**- 18** 43.3 129	**150** **206**	**- 8** 43.8 130	**148** **208**	**+ 2** 44.3 132	**146** **209**
21000	55	**- 40** 41.5 123	**153** **205**	**- 30** 41.9 125	**150** **206**	**- 20** 42.4 126	**148** **208**	**- 10** 43.0 128	**146** **209**	**+ 0** 43.5 129	**144** **210**
22000	55	**- 42** 40.8 121	**151** **206**	**- 32** 41.2 122	**149** **208**	**- 22** 41.7 124	**147** **209**	**- 12** 42.1 125	**145** **211**	**- 2** 42.6 127	**143** **212**
23000	55	**- 44** 40.0 119	**150** **208**	**- 34** 40.6 121	**147** **209**	**- 24** 41.0 122	**145** **211**	**- 14** 41.5 123	**143** **212**	**- 4** 41.9 125	**141** **212**
24000	55	**- 46** 39.4 117	**148** **209**	**- 36** 39.8 118	**146** **211**	**- 26** 40.4 120	**144** **212**	**- 16** 40.8 121	**141** **213**	**- 6** 41.3 123	**139** **214**

Figure 5.11.19 (1/2) - CRUISE PERFORMANCE -
Long Range Cruise (7100 lbs - 3220 kg) (Altitude $\leq$ 24000 ft)

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

CRUISE PERFORMANCE

Long Range Cruise (7100 lbs - 3220 kg) (Cont'd)

Conditions : Landing gear and flaps UP
2000 RPM (*)
BLEED AUTO or HI

LEGEND : **IOAT**: °C **IAS** : KIAS
FF : us gal/h
FF : kg/h **TAS**: KTAS

Pressure altitude (feet)	TRQ (%)	ISA - 20°C	ISA - 10°C	ISA	ISA + 10°C	ISA + 20°C
24000	55	**- 46** **148** 39.4 117 **209**	**- 36** **146** 39.8 118 **211**	**- 26** **144** 40.4 120 **212**	**- 16** **141** 40.8 121 **213**	**- 6** **139** 41.3 123 **214**
25000	58	**- 48** **152** 39.6 118 **218**	**- 38** **149** 40.0 119 **219**	**- 28** **148** 40.6 121 **221**	**- 18** **145** 41.1 122 **222**	**- 8** **143** 41.6 124 **223**
26000	61	**- 50** **155** 40.2 119 **226**	**- 40** **153** 40.7 121 **228**	**- 30** **151** 41.2 122 **229**	**- 20** **149** 41.7 124 **231**	**- 10** **146** 42.2 125 **232**
27000	63.5	**- 52** **158** 40.8 121 **234**	**- 42** **155** 41.2 122 **235**	**- 32** **153** 41.7 124 **237**	**- 22** **151** 42.3 126 **239**	**- 12** **149** 42.8 127 **240**
28000	65.5	**- 53** **159** 41.1 122 **240**	**- 43** **157** 41.6 124 **241**	**- 33** **154** 42.0 125 **243**	**- 23** **152** 42.6 127 **245**	**- 13** **150** 43.1 128 **246**
29000	66	**- 55** **158** 40.8 121 **242**	**- 45** **156** 41.3 123 **244**	**- 35** **153** 41.8 124 **246**	**- 25** **151** 42.2 125 **248**	**- 15** **149** 42.8 127 **249**
30000	66.5	**- 57** **158** 40.6 121 **245**	**- 47** **155** 41.1 122 **247**	**- 37** **153** 41.6 124 **249**	**- 27** **150** 42.1 125 **251**	**- 17** **148** 42.6 127 **252**
31000	67	**- 59** **157** 40.3 120 **248**	**- 49** **154** 40.8 121 **250**	**- 39** **152** 41.3 123 **252**	**- 29** **149** 41.9 125 **253**	**- 19** **147** 42.4 126 **255**

Figure 5.11.19 (2/2) - CRUISE PERFORMANCE -
Long Range Cruise (7100 lbs - 3220 kg) (Altitude $\geq$ 24000 ft)

(*) Propeller RPM utilization between 1600 and 2000 RPM is possible without changing performance. Display the TRQ indicated in table with Np = 2000 RPM, then reduce Np without exceeding 121.4 % TRQ.

5.12 - TIME, CONSUMPTION AND DESCENT DISTANCE

Conditions : Power as required to maintain constant Vz
Landing gear and flaps UP
CAS = 230 KCAS - 2000 RPM - BLEED AUTO

Pressure altitude (feet)	Vz = 1500 ft/min					Vz = 2000 ft/min					Vz = 2500 ft/min				
	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)
		l	kg	us gal			l	kg	us gal			l	kg	us gal	
31000	20.40	73	58	19.4	101	15.30	49	39	13.1	75	12.25	35	28	9.3	60
30000	20.00	71	56	18.7	97	15.00	48	38	12.6	72	12.00	34	27	9.1	58
28000	18.40	66	52	17.5	89	14.00	45	35	11.8	66	11.10	32	25	8.5	53
26000	17.20	62	49	16.3	81	13.00	42	33	11.0	61	10.25	30	24	7.9	49
24000	16.00	57	45	15.1	74	12.00	39	30	10.2	55	09.35	28	22	7.4	44
22000	14.40	52	41	13.8	66	11.00	36	28	9.5	50	08.50	26	20	6.8	40
20000	13.20	48	38	12.8	59	10.00	33	26	8.6	44	08.00	24	19	6.2	36
18000	12.00	44	34	11.5	53	09.00	30	23	7.8	39	07.10	21	17	5.7	31
16000	10.40	39	31	10.3	46	08.00	27	21	7.0	34	06.25	19	15	5.0	28
14000	09.20	35	27	9.1	40	07.00	23	18	6.2	30	05.35	17	13	4.5	24
12000	08.00	30	23	7.9	33	06.00	20	16	5.4	25	04.50	15	11	3.8	20
10000	06.40	25	20	6.6	27	05.00	17	13	4.5	21	04.00	12	10	3.2	16
8000	05.20	20	16	5.4	22	04.00	14	11	3.6	16	03.10	10	8	2.6	13
6000	04.00	15	12	4.0	16	03.00	10	8	2.7	12	02.25	8	6	2.0	10
4000	02.40	10	8	2.7	10	02.00	7	6	1.9	8	01.35	5	4	1.3	6
2000	01.20	5	4	1.4	5	01.00	4	3	0.9	4	00.50	3	2	0.7	3
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0

Figure 5.12.1 - TIME, CONSUMPTION AND DESCENT DISTANCE

5.12 - TIME, CONSUMPTION AND DESCENT DISTANCE

Conditions : Power as required to maintain constant Vz
Landing gear and flaps UP
CAS = 230 KCAS - 2000 RPM - BLEED AUTO

Pressure altitude (feet)	Vz = 1500 ft/min					Vz = 2000 ft/min					Vz = 2500 ft/min				
	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)	Time (min. s)	Consump.			Dist. (NM)
		l	kg	us gal			l	kg	us gal			l	kg	us gal	
31000	20.40	73	58	19.4	101	15.30	49	39	13.1	75	12.25	35	28	9.3	60
30000	20.00	71	56	18.7	97	15.00	48	38	12.6	72	12.00	34	27	9.1	58
28000	18.40	66	52	17.5	89	14.00	45	35	11.8	66	11.10	32	25	8.5	53
26000	17.20	62	49	16.3	81	13.00	42	33	11.0	61	10.25	30	24	7.9	49
24000	16.00	57	45	15.1	74	12.00	39	30	10.2	55	09.35	28	22	7.4	44
22000	14.40	52	41	13.8	66	11.00	36	28	9.5	50	08.50	26	20	6.8	40
20000	13.20	48	38	12.8	59	10.00	33	26	8.6	44	08.00	24	19	6.2	36
18000	12.00	44	34	11.5	53	09.00	30	23	7.8	39	07.10	21	17	5.7	31
16000	10.40	39	31	10.3	46	08.00	27	21	7.0	34	06.25	19	15	5.0	28
14000	09.20	35	27	9.1	40	07.00	23	18	6.2	30	05.35	17	13	4.5	24
12000	08.00	30	23	7.9	33	06.00	20	16	5.4	25	04.50	15	11	3.8	20
10000	06.40	25	20	6.6	27	05.00	17	13	4.5	21	04.00	12	10	3.2	16
8000	05.20	20	16	5.4	22	04.00	14	11	3.6	16	03.10	10	8	2.6	13
6000	04.00	15	12	4.0	16	03.00	10	8	2.7	12	02.25	8	6	2.0	10
4000	02.40	10	8	2.7	10	02.00	7	6	1.9	8	01.35	5	4	1.3	6
2000	01.20	5	4	1.4	5	01.00	4	3	0.9	4	00.50	3	2	0.7	3
SL	00.00	0	0	0	0	00.00	0	0	0	0	00.00	0	0	0	0

Figure 5.12.1 - TIME, CONSUMPTION AND DESCENT DISTANCE

5.13 - HOLDING TIME

Conditions : Landing gear and flaps UP
IAS = 120 KIAS - 2000 RPM - BLEED AUTO
TRQ ≃ 35 %

Pressure altitude (feet)	FUEL USED DURING HOLDING TIME											
	Weight 5500 lbs (2495 kg)						Weight 6300 lbs (2858 kg)					
	10 min			30 min			10 min			30 min		
	l	kg	us gal	l	kg	us gal	l	kg	us gal	l	kg	us gal
SL	32	25	8.4	95	75	25.1	32	25	8.4	96	75	25.3
5000	28	22	7.3	83	65	22.0	29	23	7.6	86	68	22.7
10000	25	20	6.6	75	59	19.8	26	20	6.8	77	61	20.4
15000	23	18	6.1	69	54	18.3	24	19	6.3	72	57	19.0
20000	21	17	5.6	63	50	16.8	22	17	5.9	66	52	17.6

Figure 5.13.1 - HOLDING TIME