

Aircraft Flight Manual

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TECNAM P2006T

MANUFACTURER: *COSTRUZIONI AERONAUTICHE* **TECNAM** S.p.A.

AIRCRAFT MODEL: **P2006T**

EASA TYPE CERTIFICATE NO: **A .185** (DATED 2009, JUNE 5TH)

SERIAL NUMBER:

BUILD YEAR:

REGISTRATION MARKINGS:

*This Aircraft Flight Manual is approved by **European Aviation Safety Agency (EASA)**.*

This Manual contains information required by the FAA to be furnished to the pilot for operation in the U.S.A. plus information supplied by the manufacturer. It is approved by EASA on behalf of the FAA per FAR 21.29.

This Manual must be carried in the airplane at all times.

The airplane has to be operated in compliance with procedures and limitations contained herein.

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INTRODUCTION

This Supplement applies to aircraft equipped with Garmin G950 Integrated Flight Deck System (Design Change MOD 2006/002).

It contains supplemental information to perform Increased Maximum Takeoff Weight (1230 kg) operations when the Tecnam Service Bulletin SB 077-CS or Design Change MOD 2006/015 has been embodied on the airplane.

The information contained herein supplements or supersedes the basic Aircraft Flight Manual or the Supplement G1, as applicable: detailed instructions are provided to allow the owner for replacing the Basic AFM/Supplement G1 pages containing information amended as per the Increased MTOW Design Change in subject.

It is the owner's responsibility to replace the mentioned pages in accordance with the instructions herein addressed section by section.

IMPORTANT

The owner has to apply the instructions reported on Supplement G1, then those herein reported.

2 SPEED LIMITATIONS

The following table addresses the airspeed limitations and their operational significance:

SPEED		KIAS	KCAS	REMARKS
V _{NE}	Never exceed speed	171	172	Do not exceed this speed in any operation.
V _{NO}	Maximum Structural Cruising Speed	138	136	Do not exceed this speed except in smooth air, and only with caution.
V _A	Design Manoeuvring speed	122	119	Do not make full or abrupt control movement above this speed, because under certain conditions the aircraft may be overstressed by full control movement.
V _O	Operating Manoeuvring speed			
V _{LE}	Maximum Landing Gear extended speed	93	93	Do not exceed this speed with the landing gear extended.
V _{LO}	Maximum Landing Gear operating speed	93	93	Do not exceed this speed when operating the landing gear.
V _{FE}	Maximum flaps extended speed	FULL	93	Do not exceed this speed for indicated flaps setting.
		T.O.	122	
V _{MC}	Aircraft minimum control speed with one engine inoperative	62	62	Do not reduce speed below this value in event of one engine inoperative condition.

3 AIRSPEED INDICATOR MARKINGS

Airspeed indicator markings and their colour code are explained in the following table.

MARKING	KIAS	EXPLANATION
White band	54-93	Lower limit is V_{SO} , upper limit is the maximum allowable speed with flaps extended in <i>FULL</i> position.
Red line	62	Minimum aircraft control speed with one engine inoperative and flaps set to T.O.
Green band	66-138	Normal aircraft operating range (lower limit is V_{S1} , stall speed in “clean” configuration, and upper limit is the maximum structural cruise speed V_{NO}).
Blue line	84	Best rate-of-climb speed with one engine inoperative at sea level.
Yellow band	138-171	Speed range where manoeuvres must be conducted with caution and only in smooth air.
Red line	171	Maximum speed for all operations.

14 WEIGHTS

Condition	Weight	
Maximum takeoff weight	1230 kg	2712 lb
Maximum landing weight	1230 kg	2712 lb
Maximum zero wing fuel weight	1195 kg	2635 lb

NOTE

Refer to Para. 21.4 of this AFM Section for baggage loading limitations.

21. LIMITATIONS PLACARDS

Hereinafter the placards, related to the operating limitations and installed on *P2006T*, are reported.

21.1. SPEED LIMITATIONS

On the left side instrument panel, the following placards reporting the speed limitations are placed:

Operating Manoeuvring speed
 $V_o = 122\text{KIAS}$

Maximum L.G. op. speed
 $V_{LO} / V_{LE} = 93\text{KIAS}$

Speed limitations placard for MTOW @1230 kg (2712 lb)

21.2. OPERATING LIMITATIONS

On the instrument panel, it is placed the following placard reminding the observance of aircraft operating limitations; make reference to Para. 22 for the list of equipment required on board to allow flight operations in VFR Day, VFR Night, IFR Day and IFR Night conditions.

This A/C can be operated only in normal category DAY-NIGHT-VFR-IFR (with required equipment) in non-icing conditions. All aerobatics manoeuvres including spinning are prohibited. For operational limitations refer to FLIGHT MANUAL

4. ICAO STANDARD ATMOSPHERE

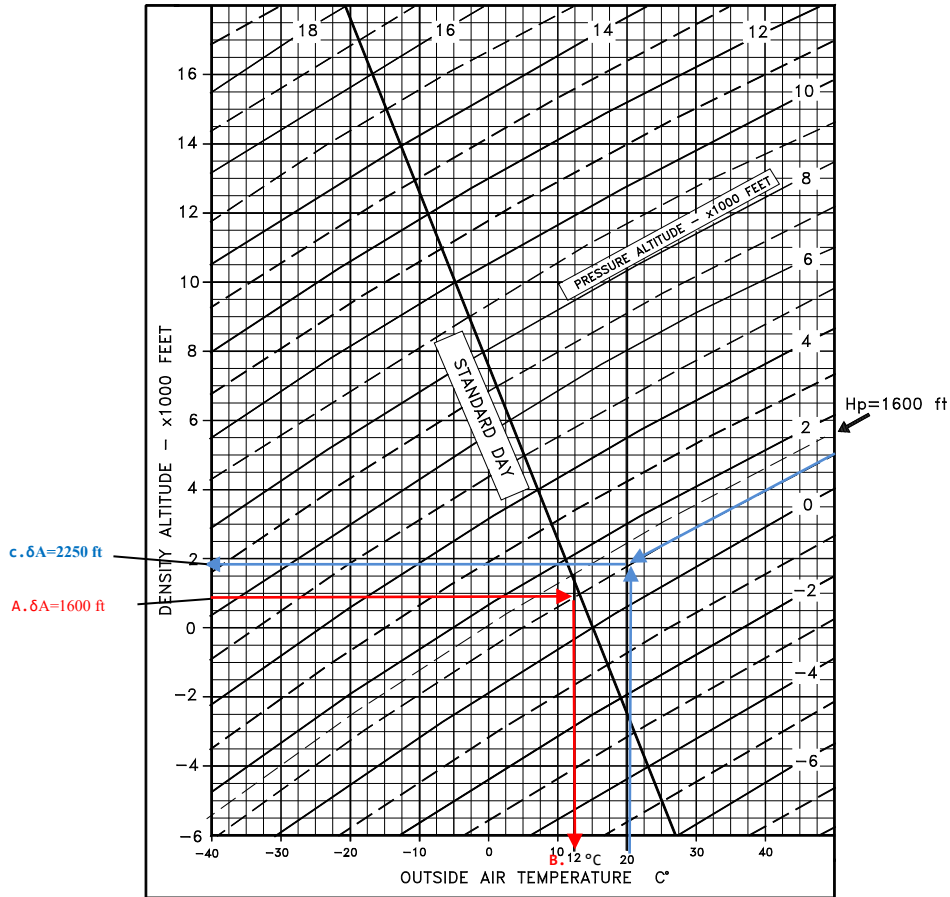


Figure 2 – ICAO chart

Examples:

Given
 a. Temperature = 20°C
 b. Pressure altitude = 1600'

} →

Find
 c. Corresponding Density Altitude = 2250'

Given
 A. Pressure altitude = 1600'
 ISA condition

} →

Find
 B. ISA Air Temperature = 12°C

5. STALL SPEED

Weight: 1230 kg (2712 lb)
 Throttle Levers: IDLE
 Landing Gear: Down
 CG: Most Forward (16.5%)
 No ground effect

WEIGHT [kg]	BANK ANGLE [deg]	STALL SPEED					
		FLAPS 0°		FLAPS T/O		FLAPS FULL	
		KIAS	KCAS	KIAS	KCAS	KIAS	KCAS
1230 (FWD C.G.)	0	66	65	59	57	54	55
	15	67	66	58	58	55	56
	30	71	70	61	61	59	59
	45	79	78	68	68	65	65
	60	95	93	83	81	79	78

NOTE

Altitude loss during conventional stall recovery, as demonstrated during flight tests is approximately 250 ft with banking below 30°.

7. TAKEOFF PERFORMANCES

Pressure Altitude [ft]		Distance [m]					ISA
		Temperature [°C]/[°F]					
		-25/-13	0/32	25/77	50/122		
S.L.		Ground Roll	207	263	328	401	301
		At 50 ft AGL	271	345	429	525	394
1000		Ground Roll	231	294	366	447	330
		At 50 ft AGL	303	385	479	586	432
2000		Ground Roll	258	328	409	500	362
		At 50 ft AGL	338	430	535	654	474
3000		Ground Roll	289	367	457	559	398
		At 50 ft AGL	378	480	598	731	521
4000		Ground Roll	323	411	511	625	438
		At 50 ft AGL	423	537	669	818	573
5000		Ground Roll	362	460	572	700	481
		At 50 ft AGL	473	602	749	916	630
6000		Ground Roll	405	515	642	785	530
		At 50 ft AGL	531	675	840	1027	694
7000		Ground Roll	455	578	720	880	584
		At 50 ft AGL	595	757	942	1152	765
8000		Ground Roll	511	650	809	989	645
		At 50 ft AGL	669	850	1059	1295	844
9000		Ground Roll	575	730	909	1112	712
		At 50 ft AGL	752	956	1190	1456	932
10000		Ground Roll	647	822	1023	1252	786
		At 50 ft AGL	847	1076	1340	1638	1029

Weight = 1080 kg (2381 lb)

Corrections

Flaps: T/O

Speed at Lift-Off = 65 KIAS

Speed Over 50ft Obstacle = 70 KIAS

Throttle Levers: Full Forward

Runway: Grass

Headwind: - 2.5m for each kt (8 ft/kt)

Tailwind: + 10m for each kt (33ft/kt)

Paved Runway: - 6% to Ground Roll

Runway slope: + 5% to Ground Roll for each +1%

Pressure Altitude [ft]		Distance [m]				ISA
		Temperature [°C]/[°F]				
		-25/-13	0/32	25/77	50/122	
S.L.	Ground Roll	148	188	234	286	215
	At 50 ft AGL	193	246	306	374	281
1000	Ground Roll	165	210	261	319	235
	At 50 ft AGL	216	274	341	418	308
2000	Ground Roll	184	234	291	356	258
	At 50 ft AGL	241	306	381	466	338
3000	Ground Roll	206	262	326	398	284
	At 50 ft AGL	269	342	426	521	372
4000	Ground Roll	230	293	364	446	312
	At 50 ft AGL	301	383	477	583	409
5000	Ground Roll	258	328	408	499	343
	At 50 ft AGL	338	429	534	653	449
6000	Ground Roll	289	368	457	559	378
	At 50 ft AGL	378	481	599	732	495
7000	Ground Roll	324	412	513	628	417
	At 50 ft AGL	425	540	672	822	545
8000	Ground Roll	364	463	577	705	460
	At 50 ft AGL	477	606	755	923	602
9000	Ground Roll	410	521	648	793	508
	At 50 ft AGL	536	682	849	1038	664
10000	Ground Roll	461	586	730	893	561
	At 50 ft AGL	604	767	955	1168	734

Section 5 - Performances

TAKEOFF PERFORMANCES

Pressure Altitude [ft]		Distance [m]					ISA
		Temperature [°C]/[°F]					
		-25/-13	0/32	25/77	50/122		
S.L.	Ground Roll	100	127	158	194	146	
	At 50 ft AGL	131	167	207	254	190	
1000	Ground Roll	112	142	177	216	160	
	At 50 ft AGL	146	186	231	283	209	
2000	Ground Roll	125	159	197	242	175	
	At 50 ft AGL	163	208	258	316	229	
3000	Ground Roll	140	177	221	270	192	
	At 50 ft AGL	183	232	289	353	252	
4000	Ground Roll	156	198	247	302	212	
	At 50 ft AGL	204	260	323	395	277	
5000	Ground Roll	175	222	277	338	233	
	At 50 ft AGL	229	291	362	443	305	
6000	Ground Roll	196	249	310	379	256	
	At 50 ft AGL	257	326	406	496	335	
7000	Ground Roll	220	280	348	426	282	
	At 50 ft AGL	288	366	455	557	370	
8000	Ground Roll	247	314	391	478	312	
	At 50 ft AGL	323	411	512	626	408	
9000	Ground Roll	278	353	440	538	344	
	At 50 ft AGL	364	462	575	704	450	
10000	Ground Roll	313	397	495	605	380	
	At 50 ft AGL	409	520	648	792	498	

Weight = 930 kg (2051 lb)

Flaps: T/O
Speed at Lift-Off = 65 KIAS
Speed Over 50ft Obstacle = 70 KIAS
Throttle Levers: Full Forward
Runway: Grass

Corrections
Headwind: - 2.5m for each kt (8 ft/kt)
Tailwind: + 10m for each kt (33ft/kt)
Paved Runway: - 6% to Ground Roll
Runway slope: + 5% to Ground Roll for each +1%

Section 5 - Performances

TAKEOFF PERFORMANCES

8. TAKE-OFF RATE OF CLIMB AT V_Y

Power Setting: Maximum Continuous Power Flaps: Take-Off Landing Gear: Up							
Weight [kg]	Pressure Altitude [ft]	Climb Speed V _y [KIAS]	Rate of Climb [ft/min]				ISA
			Temperature [°C]/[°F]				
			-25/-13	0/32	25/77	50/122	
1230	S.L.	86	1276	1088	920	768	985
	2000	83	1133	948	783	634	873
	4000	79	990	809	646	500	761
	6000	76	848	670	510	366	649
	8000	73	707	531	374	233	537
	10000	70	565	393	239	100	425
	12000	67	425	256	104	-32	313
	14000	64	285	118	-30	-164	201
1080	S.L.	85	1507	1302	1119	954	1190
	2000	82	1351	1150	970	808	1068
	4000	79	1196	998	822	662	946
	6000	76	1041	847	674	517	825
	8000	73	887	696	526	372	703
	10000	69	734	546	379	228	581
	12000	66	581	397	232	84	459
	14000	63	428	248	86	-59	338
930	S.L.	85	1803	1575	1372	1189	1451
	2000	82	1630	1406	1206	1026	1315
	4000	79	1457	1238	1041	864	1180
	6000	75	1286	1070	877	703	1045
	8000	72	1114	902	713	542	909
	10000	69	944	735	549	382	774
	12000	65	774	569	387	222	639
	14000	62	604	404	224	63	503

9. TAKE-OFF RATE OF CLIMB AT V_x

Power Setting: Maximum Continuous Power Flaps: Take-Off Landing Gear: Up							
Weight [kg]	Pressure Altitude [ft]	Climb Speed V_x [KIAS]	Rate of Climb at V_x [ft/min]				
			Temperature [°C]/[°F]				ISA
			-25/-13	0/32	25/77	50/122	
1230	S.L.	78	1214	1037	880	738	941
	1000	76	1147	972	816	675	888
	2000	75	1080	906	751	612	836
	3000	74	1013	841	687	549	783
	4000	73	946	776	623	486	731
	5000	72	879	710	560	424	678
	6000	71	813	645	496	361	626
	7000	70	746	580	432	299	574
1080	S.L.	78	1283	1102	940	794	1002
	1000	76	1214	1034	874	729	949
	2000	75	1145	967	808	664	895
	3000	74	1076	900	742	600	841
	4000	73	1008	833	676	535	787
	5000	72	939	766	611	471	733
	6000	71	871	699	545	407	679
	7000	70	803	632	480	342	625
930	S.L.	78	1435	1243	1072	918	1138
	1000	76	1362	1172	1002	849	1081
	2000	75	1289	1101	932	780	1024
	3000	74	1216	1030	863	712	967
	4000	73	1144	958	793	644	910
	5000	72	1071	888	724	576	853
	6000	71	999	817	654	508	796
	7000	69	927	746	585	440	739

10. ENROUTE RATE OF CLIMB AT V_y

Power Setting: Maximum Continuous Power Flaps: Up Landing Gear: Up							
Weight [kg]	Pressure Altitude [ft]	Climb Speed V_y [KIAS]	Rate of Climb [ft/min]				
			Temperature [°C]/[°F]				ISA
			-25/-13	0/32	25/77	50/122	
1230	S.L.	84	1317	1135	973	827	1036
	2000	83	1179	1000	841	697	928
	4000	81	1041	865	709	568	819
	6000	80	904	731	577	439	711
	8000	78	767	598	446	310	603
	10000	77	631	464	316	182	495
	12000	75	495	332	186	54	387
	14000	73	360	199	56	-73	279
1080	S.L.	83	1560	1360	1182	1022	1251
	2000	82	1408	1212	1037	879	1132
	4000	80	1257	1064	892	737	1014
	6000	78	1106	917	748	595	895
	8000	76	956	770	604	454	776
	10000	74	807	624	461	314	658
	12000	72	657	478	318	173	539
	14000	70	509	333	175	34	420
930	S.L.	82	1873	1649	1449	1269	1527
	2000	81	1703	1483	1286	1109	1393
	4000	79	1533	1317	1124	950	1260
	6000	77	1364	1151	962	791	1127
	8000	75	1196	987	800	632	994
	10000	73	1028	823	639	474	861
	12000	71	860	659	479	317	727
	14000	69	693	496	319	160	594

11. ENROUTE RATE OF CLIMB AT V_x

Power Setting: Maximum Continuous Power Flaps: Up Landing Gear: Up							
Weight [kg]	Pressure Altitude [ft]	Climb Speed V_x [KIAS]	Rate of Climb at V_x [ft/min]				
			Temperature [°C]/[°F]				ISA
			-25/-13	0/32	25/77	50/122	
1230	S.L.	72	1241	1073	924	789	982
	1000	72	1177	1011	863	729	932
	2000	72	1114	949	802	669	882
	3000	72	1050	887	741	609	832
	4000	72	986	825	680	550	782
	5000	72	923	763	619	490	732
	6000	71	860	701	559	431	682
	7000	71	797	639	498	371	632
1080	S.L.	72	1480	1295	1130	981	1194
	1000	72	1410	1226	1062	915	1139
	2000	72	1340	1158	995	848	1084
	3000	72	1269	1089	928	782	1029
	4000	71	1199	1020	861	717	973
	5000	71	1129	952	794	651	918
	6000	71	1059	884	727	585	863
	7000	71	990	815	660	520	808
930	S.L.	72	1787	1578	1391	1223	1463
	1000	72	1707	1500	1315	1148	1401
	2000	71	1628	1422	1239	1074	1339
	3000	71	1549	1345	1163	999	1277
	4000	71	1470	1268	1087	925	1215
	5000	71	1391	1190	1012	851	1153
	6000	71	1312	1113	936	777	1090
	7000	70	1233	1036	861	703	1028

12. ONE-ENGINE RATE OF CLIMB AT V_{YSE}

Power Setting: Maximum Continuous Power (operative engine) propeller feathered (inoperative engine)							
Flaps: Up							
Landing Gear: Up							
Weight	Pressure Altitude	Climb Speed V_{YSE}	Rate of Climb [ft/min]				ISA
			Temperature [°C]/[°F]				
[kg]	[ft]	[KIAS]	-25/-13	0/32	25/77	50/122	
1230	S.L.	84	330	230	142	62	176
	1000	83	292	193	106	26	147
	2000	82	254	157	69	-9	117
	3000	81	216	120	33	-44	87
	4000	80	179	83	-3	-80	58
	5000	79	141	46	-38	-115	28
	6000	79	104	10	-74	-150	-1
	7000	78	67	-27	-110	-185	-31
1080	S.L.	80	436	330	235	149	271
	1000	80	396	290	196	111	240
	2000	79	355	251	157	73	208
	3000	79	315	211	118	35	176
	4000	79	275	172	80	-3	145
	5000	79	234	132	41	-41	113
	6000	78	194	93	3	-78	81
	7000	78	154	54	-35	-116	50
930	S.L.	79	574	455	349	253	390
	1000	79	529	411	305	211	355
	2000	79	483	367	262	168	319
	3000	78	438	322	219	126	284
	4000	78	393	278	176	83	248
	5000	78	348	235	133	41	213
	6000	78	304	191	90	-1	178
	7000	77	259	147	47	-43	142

13. ONE-ENGINE RATE OF CLIMB AT V_{XSE}

Power Setting: Maximum Continuous Power (operative engine) propeller feathered (inoperative engine)							
Flaps: Up							
Landing Gear: Up							
Weight	Pressure Altitude	Climb Speed V_{XSE}	Rate of Climb at V_{XSE} [ft/min]				ISA
			Temperature [°C]/[°F]				
[kg]	[ft]	[KIAS]	-25/-13	0/32	25/77	50/122	
1230	S.L.	83	325	227	140	61	174
	1000	82	288	191	104	26	145
	2000	81	251	155	69	-9	116
	3000	81	214	118	33	-44	86
	4000	80	177	82	-2	-78	57
	5000	79	140	46	-38	-113	28
	6000	78	103	10	-73	-148	-1
	7000	77	66	-26	-108	-183	-30
1080	S.L.	79	424	321	229	147	265
	1000	79	385	283	192	110	234
	2000	79	346	245	155	73	204
	3000	79	307	207	117	37	173
	4000	79	268	169	80	0	143
	5000	78	229	131	43	-36	112
	6000	78	190	93	6	-73	81
	7000	78	152	55	-31	-109	51
930	S.L.	78	556	442	341	249	380
	1000	78	513	400	299	209	346
	2000	78	469	358	258	168	312
	3000	78	426	316	217	128	279
	4000	78	383	274	176	87	245
	5000	78	340	232	134	47	211
	6000	77	298	190	93	7	177
	7000	77	255	148	52	-34	143

14. CRUISE PERFORMANCES

Weight: 1150 kg (2535 lb) Pressure Altitude: 0 ft										
RPM*	MAP [inHg]	ISA – 30°C (-15°C) ISA – 64°F (5°F)			ISA (15°C/59°F)			ISA + 30°C (45°C) ISA + 54°F (113°F)		
		PWR	KTAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]
2250	29.5	103%	143	28.6	97%	145	27.1	92%	146	25.8
2250	28	88%	134	24.5	83%	136	23.2	79%	138	22
2250	26	69%	122	19.2	65%	124	18.2	62%	125	17.3
2250	24	59%	115	16.6	56%	116	15.7	53%	117	14.9
2250	22	46%	103	12.8	43%	103	12.1	41%	103	11.5
2250	20	39%	96	11	37%	95	10.4	35%	94	9.9
2100	28	84%	132	23.5	80%	134	22.2	76%	135	21.1
2100	26	66%	121	18.5	63%	122	17.5	60%	123	16.7
2100	24	57%	114	16	54%	114	15.1	52%	115	14.4
2100	22	43%	100	12.1	41%	100	11.5	39%	100	10.9
2100	20	37%	92	10.2	35%	91	9.7	33%	89	9.2
1900	26	61%	117	17.1	58%	118	16.2	55%	119	15.4
1900	24	53%	110	14.9	50%	111	14.1	48%	111	13.4
1900	22	41%	97	11.4	39%	97	10.8	37%	96	10.2
1900	20	35%	89	9.6	33%	88	9.1	31%	85	8.7
* Propeller RPM										
** Fuel Consumption for each Engine										



Weight: 1150 kg (2535 lb)
Pressure Altitude: 3000 ft

RPM*	MAP [inHg]	ISA – 30°C (-21°C) ISA – 64°F (-6°F)			ISA (9°C/48°F)			ISA + 30°C (39°C) ISA + 54°F (102°F)		
		PWR	KTAS	F.C.** [lt/hr]	PWR	TCAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]
2388	26.4	92%	141	25.7	87%	143	24.3	83%	144	23.1
2250	26.4	89%	139	25	85%	141	23.6	80%	143	22.4
2250	26	85%	137	23.9	81%	138	22.6	77%	140	21.5
2250	24	72%	128	20	68%	129	18.9	64%	130	18
2250	22	57%	116	16	54%	117	15.1	51%	118	14.3
2250	20	48%	108	13.4	45%	108	12.7	43%	108	12.1
2100	26.4	85%	137	23.9	81%	138	22.6	77%	140	21.4
2100	26	82%	134	22.8	77%	136	21.6	73%	137	20.5
2100	24	69%	125	19.2	65%	127	18.1	62%	128	17.2
2100	22	54%	114	15.2	51%	114	14.3	49%	115	13.6
2100	20	45%	104	12.6	43%	104	11.9	41%	104	11.3
1900	26.4	78%	132	21.9	74%	134	20.7	70%	135	19.6
1900	26	75%	130	20.9	71%	131	19.8	67%	132	18.8
1900	24	63%	121	17.7	60%	122	16.7	57%	123	15.9
1900	22	50%	110	14.1	48%	110	13.3	45%	110	12.6
1900	20	42%	101	11.7	40%	101	11.1	38%	100	10.6

* Propeller RPM
 ** Fuel Consumption for each Engine

Weight: 1150 kg (2535 lb)
Pressure Altitude: 6000 ft

RPM*	MAP [inHg]	ISA – 30°C (-27°C) ISA – 64°F (-17°F)			ISA (3°C/37°F)			ISA + 30°C (33°C) ISA + 54°F (91°F)		
		PWR	KTAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]
2388	23.6	83%	139	23.3	79%	141	22	75%	142	20.9
2250	23.6	81%	138	22.6	76%	139	21.4	73%	141	20.3
2250	22	68%	129	19.1	65%	130	18.1	61%	131	17.2
2250	20	57%	119	15.8	54%	120	14.9	51%	120	14.2
2250	18	46%	108	12.9	44%	108	12.2	41%	107	11.6
2100	23.6	77%	135	21.6	73%	137	20.4	69%	138	19.4
2100	22	65%	126	18.2	62%	127	17.2	59%	128	16.4
2100	20	54%	116	15	51%	116	14.1	48%	117	13.4
2100	18	44%	106	12.4	42%	106	11.7	40%	105	11.1
1900	23.6	71%	130	19.8	67%	132	18.7	64%	133	17.8
1900	22	60%	122	16.8	57%	123	15.8	54%	123	15
1900	20	50%	112	13.9	47%	112	13.1	44%	112	12.4
1900	18	41%	102	11.6	39%	102	10.9	37%	100	10.4

* Propeller RPM
 ** Fuel Consumption for each Engine

Section 5 - Performances

CRUISE PERFORMANCES

Weight: 1150 kg (2535 lb) Pressure Altitude: 9000 ft										
RPM*	MAP [inHg]	ISA – 30°C (-33°C) ISA – 64°F (-27°F)			ISA (-3°C/27°F)			ISA + 30°C (27°C) ISA + 54°F (81°F)		
		PWR	KTAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]
2388	21.1	75%	137	20.9	71%	139	19.7	67%	140	18.7
2250	21.1	73%	136	20.3	69%	137	19.2	65%	138	18.2
2250	20	65%	130	18.3	62%	131	17.2	58%	131	16.3
2250	18	53%	118	14.9	50%	119	14	48%	118	13.3
2100	21.1	69%	133	19.4	65%	134	18.3	62%	135	17.4
2100	20	62%	127	17.4	59%	128	16.4	56%	128	15.6
2100	18	51%	116	14.2	48%	116	13.4	46%	116	12.7
1900	21.1	64%	128	17.8	60%	129	16.8	57%	130	15.9
1900	20	57%	122	16	54%	123	15.1	51%	123	14.3
1900	18	47%	112	13.2	44%	112	12.4	42%	111	11.8

* Propeller RPM
** Fuel Consumption for each Engine

Weight: 1150 kg (2535 lb) Pressure Altitude: 12000 ft										
RPM*	MAP [inHg]	ISA – 30°C (-39°C) ISA – 64°F (-38°F)			ISA (-9°C/16°F)			ISA + 30°C (21°C) ISA + 54°F (70°F)		
		PWR	KTAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]	PWR	KTAS	F.C.** [lt/hr]
2388	18.8	67%	135	18.8	63%	136	17.7	60%	136	16.7
2250	18.8	65%	133	18.2	61%	134	17.2	58%	134	16.3
2250	18	60%	129	16.8	57%	129	15.9	54%	129	15
2100	18.8	62%	130	17.4	59%	131	16.4	56%	132	15.5
2100	18	58%	126	16.1	54%	126	15.2	51%	126	14.4
1900	18.8	57%	125	15.9	54%	126	15	51%	126	14.2
1900	18	53%	121	14.8	50%	121	13.9	47%	121	13.2

* Propeller RPM
** Fuel Consumption for each Engine

15. LANDING PERFORMANCES

Pressure Altitude [ft]		Distance [m]					ISA
		Temperature [°C]/[°F]					
		-25/-13	0/32	25/77	50/122		
S.L.		Ground Roll	199	219	239	259	231
		At 50 ft AGL	308	334	359	384	349
1000		Ground Roll	206	227	248	269	238
		At 50 ft AGL	318	344	370	396	358
2000		Ground Roll	214	236	257	279	245
		At 50 ft AGL	328	355	382	408	367
3000		Ground Roll	222	244	267	289	252
		At 50 ft AGL	348	377	406	434	385
4000		Ground Roll	230	254	277	300	260
		At 50 ft AGL	348	377	406	434	385
5000		Ground Roll	239	263	287	311	268
		At 50 ft AGL	359	389	419	448	395
6000		Ground Roll	248	273	298	323	276
		At 50 ft AGL	371	402	432	463	405
7000		Ground Roll	258	284	310	336	285
		At 50 ft AGL	382	415	446	478	416
8000		Ground Roll	268	295	322	349	294
		At 50 ft AGL	395	428	461	494	427
9000		Ground Roll	278	306	334	362	303
		At 50 ft AGL	408	442	476	510	438
10000		Ground Roll	289	318	348	377	313
		At 50 ft AGL	421	457	492	527	450

Weight = 1230 kg (2712 lb)

Flaps: LAND

Short Final Approach Speed = 70 KIAS

Throttle Levers: Idle

Runway: Grass

Corrections

Headwind: - 5m for each kt (16 ft/kt)

Tailwind: + 11m for each kt (36ft/kt)

Paved Runway: - 2% to Ground Roll

Runway slope: - 2.5% to Ground Roll for each +1%

Weight = 1080 kg (2381 lb)

Flaps: *LAND*
Short Final Approach Speed = 70 KIAS
Throttle Levers: *Idle*
Runway: *Grass*

Corrections

Headwind: - 5m for each kt (16 ft/kt)
Tailwind: + 11m for each kt (36ft/kt)
Paved Runway: - 2% to Ground Roll
Runway slope: - 2.5% to Ground Roll for each +1%

Pressure Altitude [ft]		Distance [m]				
		Temperature [°C]/[°F]				ISA
		-25/-13	0/32	25/77	50/122	
S.L.	Ground Roll	175	192	210	227	203
	At 50 ft AGL	271	293	315	337	306
1000	Ground Roll	181	199	218	236	209
	At 50 ft AGL	279	302	325	348	314
2000	Ground Roll	188	207	226	245	215
	At 50 ft AGL	288	311	335	358	322
3000	Ground Roll	195	215	234	254	222
	At 50 ft AGL	306	331	356	381	338
4000	Ground Roll	202	223	243	263	228
	At 50 ft AGL	306	331	356	381	338
5000	Ground Roll	210	231	252	273	235
	At 50 ft AGL	315	342	368	394	347
6000	Ground Roll	218	240	262	284	243
	At 50 ft AGL	325	353	380	406	356
7000	Ground Roll	226	249	272	295	250
	At 50 ft AGL	336	364	392	420	365
8000	Ground Roll	235	259	283	306	258
	At 50 ft AGL	347	376	405	434	375
9000	Ground Roll	244	269	294	318	266
	At 50 ft AGL	358	388	418	448	385
10000	Ground Roll	254	280	305	331	275
	At 50 ft AGL	370	401	432	463	395

Section 5 - Performances

LANDING PERFORMANCES

Pressure Altitude [ft]		Distance [m]				
		Temperature [°C]/[°F]				ISA
		-25/-13	0/32	25/77	50/122	
S.L.	Ground Roll	150	166	181	196	175
	At 50 ft AGL	233	252	271	290	264
1000	Ground Roll	156	172	187	203	180
	At 50 ft AGL	240	260	280	299	270
2000	Ground Roll	162	178	194	211	185
	At 50 ft AGL	248	268	288	309	277
3000	Ground Roll	168	185	202	219	191
	At 50 ft AGL	263	285	307	328	291
4000	Ground Roll	174	192	209	227	197
	At 50 ft AGL	263	285	307	328	291
5000	Ground Roll	181	199	217	235	203
	At 50 ft AGL	272	294	317	339	299
6000	Ground Roll	188	207	226	244	209
	At 50 ft AGL	280	304	327	350	307
7000	Ground Roll	195	215	234	254	215
	At 50 ft AGL	289	313	338	361	315
8000	Ground Roll	203	223	243	264	222
	At 50 ft AGL	299	324	349	373	323
9000	Ground Roll	210	232	253	274	229
	At 50 ft AGL	308	334	360	386	331
10000	Ground Roll	219	241	263	285	237
	At 50 ft AGL	319	346	372	399	340

Weight = 930 kg (2051 lb)

Flaps: *LAND*

Short Final Approach Speed = 70 KIAS

Throttle Levers: *Idle*

Runway: *Grass*

Corrections

Headwind: - 5m for each kt (16 ft/kt)

Tailwind: + 11m for each kt (36ft/kt)

Paved Runway: - 2% to Ground Roll

Runway slope: - 2.5% to Ground Roll for each +1%

Section 5 - Performances

LANDING PERFORMANCES

16. BALKED LANDING CLIMB GRADIENT

Flight conditions (ISA and SL):

Weight:	<i>1230 kg (2712 lb)</i>
Throttle levers	<i>Both FULL FORWARD</i>
Flaps	<i>T/O</i>
Landing gear	<i>DOWN</i>
Weight	<i>MTOW 1230kg (2712 lb)</i>
Speed	<i>72 KIAS</i>
Climb gradient	<i>9.4% (5.4°)</i>

17. NOISE DATA

Noise level, determined in accordance with ICAO/Annex 16 4th Ed., July 2005, Vol. I°, Chapter 10, is **72.82** dB(A).

SPEED LIMITATIONS

On the left side instrument panel, above on the left, it is placed the following placard reporting the speed limitations:

Maximum L.G. op. speed

$V_{LO} / V_{LE} = 122$ KIAS