

TIME, FUEL, AND DISTANCE TO CLIMB

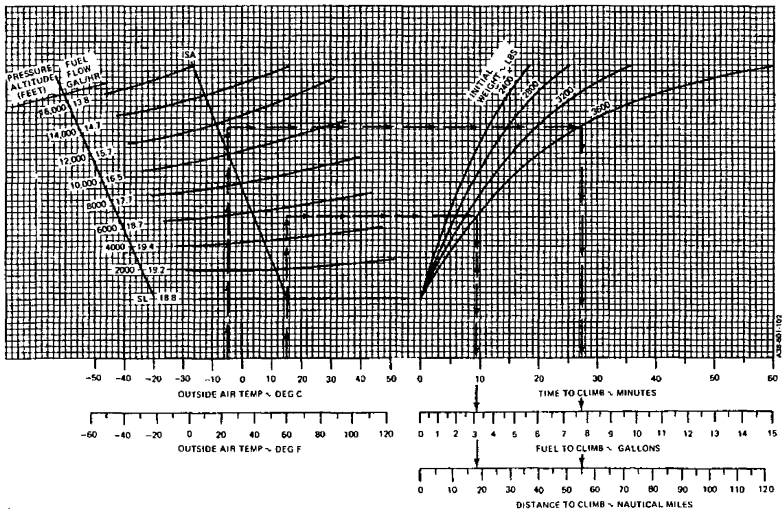
ASSOCIATED CONDITIONS:

POWER 25 IN. HG OR FULL THROTTLE, 2500 RPM
 FUEL DENSITY 6.0 LBS/GAL
 MIXTURE LEAN TO APPROPRIATE FUEL FLOW
 COWL FLAPS CLOSED
 CLIMB SPEED 100 KTS (115 MPH) SEA LEVEL TO 12,000 FT
 100 KTS (115 MPH) ABOVE 12,000 FT

EXAMPLE:

OAT AT TAKEOFF 15°C
 OAT AT CRUISE -5°C
 AIRPORT PRESSURE ALTITUDE 5650 FT
 CRUISE PRESSURE ALTITUDE 11,500 FT
 INITIAL CLIMB WEIGHT 3600 LB

TIME TO CLIMB = (27.5 - 8.5) 19.0 MIN
 FUEL TO CLIMB = (7.8 - 2.1) 5.7 GAL
 DISTANCE IN CLIMB = (95 - 68) 27 NAUT MI



CRUISE POWER SETTINGS

75% MAXIMUM CONTINUOUS POWER (OR FULL THROTTLE) 2500 RPM
3400 POUNDS

PRESS ALT.	ISA -36°F (-20°C)							STANDARD DAY (ISA)							ISA +36°F (+20°C)						
	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS
	FEET	°F	°C	IN HG	PPH	GPH	KTS	KTS	°F	°C	IN HG	PPH	GPH	KTS	KTS	°F	°C	IN HG	PPH	GPH	KTS	KTS
SL	27	-3	23.9	91.4	15.2	156	162	63	17	24.6	91.4	15.2	160	160	99	37	25.1	91.4	15.2	163	157
1000	24	-5	23.6	91.4	15.2	158	161	60	15	24.3	91.4	15.2	161	157	96	36	24.8	91.4	15.2	164	156
2000	20	-7	23.4	91.4	15.2	159	160	56	13	24.1	91.4	15.2	162	158	92	34	24.6	91.4	15.2	165	155
3000	17	-9	23.1	91.4	15.2	160	159	53	12	23.8	91.4	15.2	164	157	89	32	24.3	91.4	15.2	167	154
4000	13	-11	22.8	91.4	15.2	162	158	49	10	23.5	91.4	15.2	166	156	85	30	24.0	91.4	15.2	168	153
5000	10	-12	22.5	91.4	15.2	163	157	46	8	23.2	91.4	15.2	166	155	82	28	23.7	90.5	15.1	169	151
6000	6	-14	22.2	91.4	15.2	164	156	42	6	23.0	91.4	15.2	168	154	78	26	23.5	89.7	15.0	169	150
7000	3	-16	22.0	91.4	15.2	166	155	38	4	22.8	89.7	14.9	168	151	75	24	22.6	86.7	14.4	168	146
8000	-1	-18	21.7	89.8	15.0	168	153	35	2	21.7	88.9	14.5	166	148	71	22	21.7	84.0	14.0	166	143
9000	-5	-20	20.8	86.9	14.4	164	149	31	0	20.8	84.1	14.0	165	144	67	20	20.8	81.3	13.6	165	139
10,000	-8	-22	20.0	83.7	13.9	163	146	28	-2	20.0	81.0	13.5	163	140	64	18	20.0	78.3	13.0	163	135
11,000	-12	-24	19.2	81.4	13.2	162	143	24	-4	19.2	78.8	13.1	162	137	60	16	19.2	76.2	12.7	161	132
12,000	-16	-26	18.3	79.1	13.1	161	139	21	-6	18.3	76.8	12.7	161	134	56	14	18.3	74.0	12.3	160	128
13,000	-19	-28	17.6	76.0	12.6	158	135	17	-8	17.6	73.8	12.3	158	130	53	12	17.6	71.1	11.9	157	124
14,000	-23	-31	16.8	72.9	12.1	156	131	13	-11	16.8	70.6	11.8	155	125	49	9	16.8	68.3	11.4	153	119
15,000	-27	-33	16.1	70.4	11.7	153	127	9	-13	16.1	68.2	11.4	152	121	45	7	16.1	66.0	11.0	149	114
16,000	-30	-35	15.4	68.0	11.3	151	123	6	-15	15.4	65.8	11.0	149	116	41	5	15.4	63.8	10.6	145	109

NOTES:

1. Full throttle manifold pressure settings are approximate.
2. Shaded area represents operation with full throttle.

March, 1981

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BEECHCRAFT Bonanza A36
E-927 and after

Section V
Performance

CRUISE POWER SETTINGS

65% MAXIMUM CONTINUOUS POWER (OR FULL THROTTLE) 2300 RPM
3400 POUNDS

Section V
Performance

BEECHCRAFT Bonanza A36
E-927 and after

PRESS ALT.	ISA -36°F (-20°C)						STANDARD DAY (ISA)						ISA +36°F (+20°C)								
	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS
	FEET	°F	°C	IN HG	PPH	GPH	KTS	KTS	°F	°C	IN HG	PPH	GPH	KTS	KTS	°F	°C	IN HG	PPH	GPH	KTS
SL	27	-3	23.3	80.0	13.3	147	152	63	17	23.9	80.0	13.3	150	150	99	37	24.5	80.0	13.3	152	147
1000	23	-5	23.1	80.0	13.3	148	151	59	15	23.6	80.0	13.3	151	149	95	35	24.2	80.0	13.3	153	146
2000	20	-7	22.8	80.0	13.3	149	150	56	13	23.4	80.0	13.3	152	148	92	33	24.0	80.0	13.3	155	145
3000	16	-9	22.5	80.0	13.3	150	149	52	11	23.1	80.0	13.3	153	147	88	31	23.7	80.0	13.3	156	144
4000	13	-11	22.3	80.0	13.3	152	148	49	9	22.9	80.0	13.3	154	145	85	29	23.5	80.0	13.3	157	143
5000	9	-13	22.0	80.0	13.3	153	147	45	7	22.6	80.0	13.3	155	144	81	27	23.2	80.0	13.3	158	142
6000	6	-15	21.8	80.0	13.3	154	146	42	5	22.4	80.0	13.3	157	143	78	25	23.0	80.0	13.3	159	140
7000	2	-17	21.5	80.0	13.3	155	145	38	3	22.1	80.0	13.3	157	142	74	23	22.6	79.0	13.2	159	139
8000	-2	-19	21.3	80.0	13.3	156	144	35	1	21.7	79.4	13.2	158	140	71	21	21.7	76.7	12.8	157	135
9000	-5	-21	20.9	78.7	13.1	156	142	31	-1	20.9	76.2	12.7	156	136	67	19	20.9	73.7	12.3	155	130
10,000	-9	-23	20.0	76.2	12.7	154	138	27	-3	20.0	73.8	12.3	154	132	63	17	20.0	71.4	11.9	152	127
11,000	-12	-25	19.2	73.6	12.3	153	134	24	-5	19.2	71.4	11.9	152	129	60	15	19.2	69.0	11.5	150	123
12,000	-16	-27	18.4	71.3	11.9	151	131	20	-7	18.4	69.0	11.5	150	125	56	13	18.4	66.7	11.1	147	118
13,000	-20	-29	17.6	68.8	11.5	148	127	16	-9	17.6	66.7	11.1	147	120	52	11	17.6	64.6	10.8	143	113
14,000	-23	-31	16.9	66.3	11.1	145	122	13	-11	16.9	64.3	10.7	143	116	48	9	16.9	62.4	10.4	138	108
15,000	-27	-33	16.1	64.0	10.7	142	118	9	-13	16.1	62.1	10.3	138	110	44	7	16.1	60.2	10.0	131	100
16,000	-31	-35	15.5	62.4	10.4	139	113	5	-15	15.5	60.6	10.1	134	105	---	---	---	---	---	---	---

- NOTES:
1. Full throttle manifold pressure settings are approximate.
 2. Shaded area represents operation with full throttle.

CRUISE POWER SETTINGS

55% MAXIMUM CONTINUOUS POWER (OR FULL THROTTLE) 2100 RPM
3400 POUNDS

PRESS ALT.	ISA -36°F (-20°C)						STANDARD DAY (ISA)						ISA +36°F (+20°C)								
	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS
	FEET	°F	°C	IN HG	PPH	GPH	KTS	KTS	°F	°C	IN HG	PPH	GPH	KTS	KTS	°F	°C	IN HG	PPH	GPH	KTS
SL	26	-3	23.0	68.8	11.5	136	141	62	17	23.6	68.8	11.5	138	138	98	37	24.2	68.8	11.5	140	136
1000	23	-5	22.8	68.8	11.5	137	140	59	15	23.3	68.8	11.5	139	137	95	35	24.0	68.8	11.5	141	134
2000	19	-7	22.5	68.8	11.5	138	139	55	13	23.1	68.8	11.5	140	136	91	33	23.7	68.8	11.5	142	133
3000	15	-9	22.3	68.8	11.5	139	138	52	11	22.9	68.8	11.5	141	135	88	31	23.5	68.8	11.5	142	132
4000	12	-11	22.1	68.8	11.5	139	136	48	9	22.6	68.8	11.5	141	133	84	29	23.2	68.8	11.5	143	130
5000	8	-13	21.8	68.8	11.5	140	135	45	7	22.4	68.8	11.5	142	132	81	27	23.0	68.8	11.5	143	129
6000	5	-15	21.6	68.8	11.5	141	134	41	5	22.1	68.8	11.5	143	131	77	25	22.7	68.8	11.5	144	127
7000	1	-17	21.3	68.8	11.5	142	133	37	3	21.9	68.8	11.5	143	129	74	23	22.5	68.8	11.5	144	126
8000	-2	-19	21.1	68.8	11.5	142	131	34	1	21.6	68.8	11.5	144	128	70	21	21.9	67.5	11.3	143	122
9000	-6	-21	20.9	68.8	11.5	143	130	30	-1	21.0	67.8	11.3	143	125	66	19	21.0	65.6	10.9	140	118
10,000	-8	-23	20.1	68.0	11.3	142	127	27	-3	20.2	65.8	11.0	141	121	63	17	20.1	63.8	10.8	137	114
11,000	-13	-25	19.3	66.0	11.0	140	124	23	-5	19.3	63.9	10.7	138	117	59	15	19.3	62.0	10.3	133	109
12,000	-17	-27	18.5	63.9	10.7	138	119	19	-7	18.5	62.1	10.3	134	112	55	13	18.5	60.2	10.0	127	102
13,000	-20	-29	17.7	61.8	10.3	134	115	15	-9	17.7	60	10.0	129	106	...	...	...	...	...	...	...
14,000	-24	-31	16.9	59.7	10.0	129	109	11	-11	16.9	57.9	9.8	120	97	...	...	...	...	...	...	...
15,000	-28	-33	16.2	57.6	9.6	123	102	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16,000	-32	-36	15.6	55.6	9.3	112	92	...	...	...	...	...	...	...	...	...	...	...	...	...	...

NOTES:

1. Full throttle manifold pressure settings are approximate.
2. Shaded area represents operation with full throttle.

March, 1981

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BEECHCRAFT Bonanza A36
E-927 and after

Section V
Performance

CRUISE POWER SETTINGS

45% MAXIMUM CONTINUOUS POWER (OR FULL THROTTLE) 2100 RPM
3400 POUNDS

Section V
Performance

BEECHCRAFT Bonanza A36
E-927 and after

PRESS ALT.	ISA -36°F (-20°C)							STANDARD DAY (ISA)							ISA +36°F (+20°C)						
	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS	IOAT		MAN. PRESS.	FUEL FLOW		TAS	CAS
	FEET	°F	°C	IN HG	PPH	GPH	KTS	KTS	°F	°C	IN HG	PPH	GPH	KTS	KTS	°F	°C	IN HG	PPH	GPH	KTS
SL	25	-4	20.4	57.6	9.6	122	127	62	16	20.8	57.6	9.6	124	124	98	36	21.2	57.6	9.6	125	121
1000	22	-6	20.1	57.6	9.6	123	125	58	14	20.5	57.6	9.6	125	123	94	34	20.9	57.6	9.6	126	120
2000	18	-8	19.8	57.6	9.6	124	124	54	12	20.2	57.6	9.6	125	121	91	32	20.6	57.6	9.6	126	118
3000	15	-10	19.4	57.6	9.6	124	123	51	11	19.9	57.6	9.6	126	120	87	31	20.3	57.6	9.6	127	117
4000	11	-12	19.1	57.6	9.6	125	122	47	9	19.6	57.6	9.6	126	119	83	29	20.0	57.6	9.6	127	115
5000	8	-13	18.8	57.6	9.6	125	121	44	7	19.3	57.6	9.6	127	118	80	27	19.7	57.6	9.6	127	114
6000	4	-15	18.5	57.6	9.6	126	120	40	5	19.0	57.6	9.6	127	116	76	25	19.4	57.6	9.6	127	112
7000	1	-17	18.2	57.6	9.6	126	118	37	3	18.7	57.6	9.6	127	114	73	23	19.1	57.6	9.6	127	110
8000	-3	-19	17.9	57.6	9.6	127	117	33	1	18.4	57.6	9.6	127	113	69	21	18.8	57.6	9.6	126	108
9000	-6	-21	17.6	57.6	9.6	127	115	30	-1	18.1	57.6	9.6	127	111	66	19	18.5	57.6	9.6	125	106
10,000	-10	-23	17.3	57.6	9.6	127	114	26	-3	17.8	57.6	9.6	126	109	62	17	18.2	57.6	9.6	124	103
11,000	-14	-25	17.0	57.6	9.6	127	112	22	-5	17.4	57.6	9.6	125	106	58	15	17.9	57.6	9.6	122	100
12,000	-17	-27	16.7	57.6	9.6	127	110	19	-7	17.1	57.6	9.6	124	104	55	13	17.6	57.6	9.6	118	95
13,000	-21	-29	16.4	57.6	9.6	126	108	15	-9	16.8	57.6	9.6	122	100	---	---	---	---	---	---	---
14,000	-24	-31	16.1	57.6	9.6	125	105	11	-11	16.5	57.6	9.6	119	96	---	---	---	---	---	---	---
15,000	-28	-33	15.7	57.6	9.6	123	102	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16,000	-32	-36	15.4	55.8	9.3	113	92	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:

1. Full throttle manifold pressure settings are approximate.
2. Shaded area represents operation with full throttle.