## Section V Performance

## MAXIMUM RECOMMENDED CRUISE POWER SETTINGS



25.0 IN. HG (OR FULL THROTTLE) @ 2500 RPM CRUISE RICH MIXTURE 3400 LBS.

OF PEAK EGT

	OF FEAR EGI									
	PRESS. ALT	IOA	λ <b>T</b>	MAN. PRESS.	FUEL FLOW			R- EED		
	FEET	°C	°F	IN. HG	PPH	GPH	KIAS	KTAS		
, F)	SL	-3	27	25.0	102.1	17.0	172	164		
36°	2000	-6	21	25.0	105.6	17.6	172	169		
1	4000	-10	14	25.0	109.1	18.2	172	174		
(ISA	6000	-14	-7	24.1	106.1	17.7	169	. 175		
c (I	8000	-18	-1	22.3	97.7	16.3	162	173		
20°	10,000	-22	-8	20.6	90.2	15.0	155	170		
7	12,000	-26	-15	19.1	83.5	13.9	147	167		
ISA	14,000	-30	-22	17.7	78.3	13.1	140	163		
SI	16,000	_34	- 30	16.3	73.1	12.2	131	158		
	SL	18	64	25.0	98.1	16.4	167	165		
æ	2000	14	57	25.0	101.3	16.9	167	170		
(ISA)	4000	10	50	25.0	104.6	17.4	167	175		
STANDARD DAY	6000	6	43	24.1	101.8	17.0	164	176		
ū	8000	2	36	22.3	93.9	15.7	157	174		
불	10,000	2	28	20.6	86.9	14.5	150	171		
ğ	12,000	-6	21	19.1	80.8	13.5	142	167		
Æ	14,000	-10	14	17.1	76.0	12.7	134	163		
S	16,000	-14	6	16.3	71.2	11.9	125	157		
1	SL	38	100	25.0	94.1	15.7	163	166		
. F)	2000	34	93	25.0	97.2	16.2	163	171		
36°	4000	30	86	25.0	100.3	16.7	162	176		
+	6000	26	79	24.1	97.7	16.3	159	177		
(ISA	8000	22	72	22.3	90.3	15.1	152	174		
ပ	10,000	18	64	20.6	83.8	14.0	144	171		
20°	12,000	14	57	19.1	78.1	13.0	137	167		
+	14,000	10	50	17.7	73.9	12.3	129	162		
ISA	16,000	6	42	16.3	69.8	11.6	119	155		

NOTES:

- 1. Full throttle manifold pressure settings are approximate.
- 2. Shaded area represents operation with full throttle.
- Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

#### RECOMMENDED CRUISE POWER SETTINGS

20°C LEAN

BEECHCRAFT

Bonanza A36

25.0 IN. HG (OR FULL THROTTLE) @ 2500 RPM CRUISE LEAN MIXTURE 3400 LBS.

OF PEAK EGT

	PRESS. ALT	IOA	т	MAN. PRESS.			AIR- SPEED	
	FEET	°C	°F	IN. HG	PPH	GPH	KIAS	KTAS
F)	SL	-3	27	25.0	86.3	14.4	168	159
36°	2000	. –6	20	25.0	89.3	14.9	168	164
1	4000	-10	13	25.0	92.3	15.4	168	169
(ISA	6000	-14	6	24.1	89.8	15.0	164	170
c (i	8000	-18	-1	22.3	82.6	13.8	157	168
20° (	10,000	22	-8	20.6	76.0	12.7	150	165
-2	12,000	-26	-15	19.1	70.2	11.7	143	162
SA	14,000	-30	-23	17.7	65.5	10.9	135	158
92	16,000	-35	- 30	16.3	60.8	10.1	126	152
	SL	17	63	25.0	82.9	13.8	163	160
€	2000	14	56	25.0	85.6	14.3	163	165
3	4000	10	50	25.0	88.5	14.8	163	170
STANDARD DAY (ISA)	6000	- 6	42	24.1	86.1	14.4	159	171
	8000	2	35	22.3	79.3	13.2	152	169
AH	10,000	-2	28	20.6	73.3	12.2	145	166
9	12,000	-6	21	19.1	67.8	11.3	137	162
Ĭ.	14,000	-10	13	17.7	63.5	10.6	129	157
S	16,000	_ =15	6	16.3	59.1	9.9	120	150
F	SL	37	99	25.0	79.5	13.3	158	161
36°	2000	34	92	25.0	82.1	13.7	158	166
	4000	30	86	25.0	84.7	14.1	158	171
(ISA +	6000	26	79	24.1	82.5	13.8	154	172
S)	8000	22	71	22.3	76.2	12.7	147	169
ပ	10,000	18	64	20.6	70.5	11.8	140	165
20°	12,000	14	57	19.1	65.5	10.9	132	161
+	14,000	10	49	17.7	61.5	10.3	123	155
SA	16,000	- 5	42	16.3	57.5	9.6	113	146
_			11.12					-

NOTES:

- 1. Full throttle manifold pressure settings are approximate.
- 2. Shaded area represents operation with full throttle.
- Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

## RECOMMENDED CRUISE POWER SETTINGS



23.0 IN. HG (OR FULL THROTTLE) @ 2300 RPM CRUISE RICH MIXTURE 3400 LBS

OF PEAK EGT

		,							
	PRESS.			MAN.	FU			IR-	
	ALT			PRESS.	FLOW		SPEED		
	FEET	°C	°F	IN. HG	PPH	GPH	KIAS	KTAS	
Ē	SL	-3	27	23.0	81.6	13.6	158	150	
36°	2000	-7	20	23.0	84.2	14.0	158	154	
- 1	4000	-11	13	23.0	86.9	14.5	158	159	
(ISA	6000	-14	6	23.0	89.7	15.0	158	164	
) ၁	8000	-18	-1	22.4	89.0	14.8	156	166	
20°	10,000	-22	-8	20.7	82.7	13.8	148	163	
-2	12,000	-26	-16	19.2	77.1	12.9	141	160	
ISA	14,000	-31	-23	17.8	73.2	12.2	133	155	
22	16,000	35_	-30_	16.4	69.2	11.5	124	150	
	SL	17	63	23.0	79.0	13.2	153	150	
(ISA)	2000	13	56	23.0	81.4	13.6	153	155	
8	4000	9	49	23.0	83.9	14.0	153	160	
DAY	6000	6	42	23.0	86.5	14.4	153	165	
	8000	2	35	22.4	85.8	14.3	150	167	
Ä	10,000	-2	28	20.7	0.08	13.3	143	163	
2	12,000	-6	.20	19.2	75.1	12.5	135	159	
STANDARD	14,000	-11	13	17.8	71.5	11.9	127	154	
ည	16,000	15_	6	16.4	67.9	11.3	117	147	
)	SL	37	99	23.0	76.5	12.8	148	151	
. F)	2000	33	92	23.0	78.7	13.1	148	155	
36°	4000	29	85	23.0	81.0	13.5	148	160	
+	6000	26	78	23.0	83.4	13.9	148	165	
(ISA	8000	22	71	22.4	82.8	13.8	145	167	
ပ	10,000	18	64	20.7	77.3	12.9	138	163	
20°	12,000	14	56	19.2	73.0	12.2	130	158	
+	14,000	9	49	17.8	69.8	11.6	121	152	
SA	16,000	5	41	16.4	66.6	11.1	109	142	
		Contraction Contraction Contraction	Commission of the Commission o	and the second s		American American	and the second of the second of		

- 1. Full throttle manifold pressure settings are approximate.
- 2. Shaded area represents operation with full throttle.
- 3. Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

#### RECOMMENDED CRUISE POWER SETTINGS

20°C LEAN

BEECHCRAFT

Bonanza A36

23.0 IN. HG (OR FULL THROTTLE) @ 2300 RPM CRUISE LEAN MIXTURE 3400 LBS

OF PEAK EGT

OF PEAK EG!								
	PRESS. ALT	, 104	<b>\</b> Τ	MAN. PRESS.	FUEL FLOW		AIR- SPEED	
	FEET	°C	۰F	IN. HG	PPH	GPH	KIAS	KTAS
E	SL	-3	26	23.0	67.6	11.3	152	144
9e.	2000	-7	20	23.0	69.7	11.6	152	149
8.	4000	-11	13	23.0	72.1	12.0	153	154
	6000	-15	6	23.0	74.4	12.4	153	158
(ISA	8000	-18	-1	22.4	73.8	12.3	150	160
ုပ	10,000	-23	-9	20.7	- 68.4	11.4	143	157
.20°	12,000	-27	-16	19.2	63.8	10.6	135	153
	14,000	-31	-23	17.8	60.0	10.0	127	148
ISA	16,000	-35	-31	16.4	56.3	9.4	117	141
	SL	17	62	23.0	65.4	10.9	147	145
₹	2000	13	56	23.0	67.4	11.2	147	149
₹	4000	9	49	23.0	69.4	11.6	148	154
¥	6000	5	42	23.0	71.7	12.0	148	159
STANDARD DAY (ISA)	8000	2	35	22.4	71.1	11.9	145	160
=	10,000	-3	27	20.7	66.2	11.0	137	157
l è	12,000	-7	20	19.2	61.8	10.3	129	152
₹	-14,000	-11	13	17.8	58.5	9.8	120	146
S	16,000	15	5	16.4	55.3	9.2	109	137
	SL	37	98	23.0	63.2	10.5	142	145
) E	2000	33	92	23.0	65.1	10.9	143	149
36°	4000	29	85	23.0	67.1	11.2	143	154
+	6000	25	78	23.0	69.0	11.5	142	158
(ISA	8000	22	71	22.4	68.5	11.4	140	160
10	10,000	17	63	_ 20.7	64.0	10.7	132	156
20°	12,000	13	56	19.2	60.0	10.0	123	151
+ 2	14,000	9	48	17.8	57.1	9.5	113	142
ISA	16,000	-	-	_	1 -		1 =	=
5	0.00				- 5-1		10000	
	processor with the contract of	A COUNTY OF THE PARTY OF THE PA	Carlo Commence Control	C. C. Control of the	A CONTRACTOR OF THE PARTY OF TH	Carrier money and banks	The State of the S	TO STATE OF THE PARTY OF THE PA

- NOTES: 1. Full throttle manifold pressure settings are approximate.
  - 2. Shaded area represents operation with full throttle.
  - 3. Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

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# RECOMMENDED CRUISE POWER SETTINGS

20°C RICH

25.0 IN. HG (OR FULL THROTTLE) @ 2100 RPM CRUISE RICH MIXTURE 3400 LBS

OF PEAK EGT

	PRESS. ALT	10.	. —	MAN. PRESS.	FU		AIR- SPEED	
	FEET			IN. HG	FLOW -		KIAS KTAS	
		°C				GPH	155	148
F)	SL	-3	27	25.0	79.5	13.3		1
36°	2000	-7	20	25.0	82.6	13.8	156	153
1	4000	-11	13	25.0	85.8	14.3	157	158
(ISA	6000	-15	6	24.3	85.1	14.2	154	159
Ö	8000	-19	-1	22.5	79.5	13.3	147	157
ů	10,000	-23	-9	20.8	74.9	12.5	140	153
20°	12,000	-27	16	19.3	70.9	11.8	132	149
SA.	14,000	-31	-23	17.9	68.2	11.4	123	144
<u>s</u>	16,000	-35	-31	16.5	65.6	10.9	112	135
	SL	17	63	25.0	77.0	12.8	150	148
SA	2000	13	56	25.0	79.9	13.3	151	153
=	4000	9	49	25.0	82.9	13.8	152	158
¥	6000	5	42	24.3	82.3	13.7	149	160
_	8000	1	35	22.5	77.1	12.9	142	157
AH	10,000	-3	27	20.8	72.9	12.2	134	153
9	12,000	-7	20	19.3	69.5	11.6	126	148
STANDARD DAY (ISA)	14,000	-11	12	17.9	67.2	11.2	116	141
Ġ	16,000	-15	5	16.5	64.9	10.8	101	127
$\overline{}$	SL	37	99	25.0	74.9	12.5	146	148
· F	2000	33	92	25.0	77.3	12.9	146	153
36°	4000	29	85	25.0	80.1	13.4	146	158
+	6000	25	78	24.3	79.5	13.3	143	160
(ISA	8000	21	71	22.5	74.9	12.5	136	156
ပ	10,000	17	63	20.8	71.0	11.8	128	152
20°	12,000	13	56	19.3	68.1	11.4	119	145
+	14,000	- 9	48	17.9	66.1	11.0	107	135
ISA .	16,000	_	$\dot{-}$			=	_	

- 1. Full throttle manifold pressure settings are approximate.
- 2. Shaded area represents operation with full throttle.
- 3. Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

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**RECOMMENDED CRUISE POWER SETTINGS** 

20°C LEAN

25.0 IN. HG (OR FULL THROTTLE) @ 2100 RPM CRUISE LEAN MIXTURE 3400 LBS

OF PEAK EGT

	PRESS. ALT	10/	ΑT	MAN. PRESS.	FUEL FLOW		AIR- SPEED	
	FEET	°C	°F	IN. HG	PPH	GPH		KTAS
E	SL	-3	26	25.0	63.8	10.6	148	140
36°	2000	-7	19	25.0	66.4	11.1	149	145
"	4000	-11	12	25.0	68.9	11.5	149	150
(ISA	6000	-15	5	24.3	68.3	11.4	147	152
	8000	- 19	-2	22.5	63.9	10.7	139	148
ပ	10,000	-23	-9	20.8	60.1	10.0	132	144
-20°	12,000	-27	-17	19.3	56.7	9.5	123	139
¥	14,000	-31	-24	17.9	54.5	9.1	113	132
ISA	16,000	-35	-32	16.5	52.2	8.7	95	114
	SL	17	62	25.0	61.9	10.3	143	140
₹	2000	13	55	25.0	64.2	10.7	143	145
(ISA)	4000	9	48	25.0	66.6	11.1	144	150
DAY	6000	5	41	24.3	66.1	11.0	141	152
1 0	8000	1	34	22.5	61.9	10.3	134	148-
	10,000	-3	27	20.8	58.5	9.8	126	143
₫	12,000	-7	19	19.3	55.6	9.3	116	136
STANDARD	14,000	-11	12	17.9	53.5	8.9	103	125
S	16,000			_				
	SL	37	98	25.0	60.1	10.0	138	140
l Œ	2000	33	91	25.0	62.1	10.4	138	145
36°	4000	29	84	25.0	64.4	10.7	139	150
+	6000	25	77	24.3	63.9	10.7	136	151
(ISA	8000	21	70	22.5	60.2	10.0	128	147
5	10,000	17	63	20.8	56.8	9.5	119	141
20° (	12,000	13	55	19.3	54.5	9.1	108	131
+	14,000	-	1 -	-	=	-	1 =	-
ISA +	16,000				_	-	_	

NOTES:

- 1. Full throttle manifold pressure settings are approximate.
- 2. Shaded area represents operation with full throttle.
- 3. Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

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## RECOMMENDED CRUISE POWER SETTINGS

20°C RICH

21.0 IN. HG (OR FULL THROTTLE) @ 2100 RPM CRUISE RICH MIXTURE 3400 LBS

OF PEAK EGT

	PRESS.			MAN.	FU	Fi	AIR-	
	ALT	10/	AT .	PRESS.	FLO		SPEED	
	FEET	°C	°F	IN. HG	PPH	GPH	KIAS	KTAS
F)	SL	-4	26	21.0	66.0	11.0	135	128
36°	2000	-7	19	21.0	67.5	11.3	137	134
ï	4000	-11	12	21.0	69.3	11.6	138	139
(ISA	6000	-15	5	21.0	71.1	11.9	139	· 144
≅	8000	-19	-2	21.0	73.4	12.2	140	149
ပ	10,000	-23	-9	20.8	74.9	12.5	140	153
20°	12,000	-27	-16	19.3	70.9	11.8	132	149
- YSI	14,000	-31	-23	17.9	68.2	11.4	123	144
<u>S</u>	16,000	35_	-31_	16.5	65.6	10.9	112	135
	SL	17	62	21.0	65.2	10.9	130	127
(ISA)	2000	13	55	21.0	66.3	11.1	131	133
2	4000	9	48	21.0	67.9	11.3	133	138
DAY	6000	5	41	21.0	69.7	11.6	134	144
	8000	1	34	21.0	71.5	11.9	135	149
STANDARD	10,000	-3	27	20.8	72.9	12.2	134	153
₫	12,000	7	20	19.3	69.5	11.6	126	148
₹	14,000	-11	12	17.9	67.2	11.2	116	141
S.	16,000	_=15_	5	16.5	64.9	10.8	101	127
	SL	36	98	21.0	64.5	10.8	124	126
. F	2000	33	91	21.0	65.5	10.9	126	132
36°	4000	29	84	21.0	66.6	11.1	127	137
+	6000	25	77	21.0	68.3	11.4	128	143
(ISA	8000	21	70	21.0	70.0	11.7	129	148
D) 0	10,000	17	63	20.8	71.0	11.8	128	152
20° (	12,000	13	56	19.3	68.1	11.4	119	145
+2	14,000	9	48	17.9	66.1	11.0	107	135
SA .	16,000	-	- 1	3000000000	-			-
25								2

NOTES:

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- 1. Full throttle manifold pressure settings are approximate.
- 2. Shaded area represents operation with full throttle.
- 3. Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

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## **ECONOMY CRUISE POWER SETTINGS**

20°C LEA

**BEECHCRAFT** 

**Bonanza A36** 

21.0 IN. HG (OR FULL THROTTLE) @ 2100 RPM CRUISE LEAN MIXTURE 3400 LBS

OF PEAK EGT

	PRESS. ALT	IOA	IOAT		FUEL FLOW		AIR- SPEED	
	FEET	°C	°F	IN. HG	PPH	GPH	KIAS	KTAS
Ŀ	SL	-4	25	21.0	52.7	8.8	126	120
36°	2000	-8	18	21.0	54.0	9.0	128	125
	4000	-11	12	21.0	55.4	9.2	130	130
(ISA	6000	-15	5	21.0	56.9	9.5	131	136
	8000	-19	-2	21.0	58.9	9.8	132	141
ပ	10,000	-23	-9	20.8	60.1	10.0	132	144
-20°	12,000	-27	-17	19.3	56.7	9.5	123	139
A	14,000	-31	-24	17.9	54.5	9.1	113	132
ISA	16,000	-35	-32	16.5	52.2	8.7	95	114
	SL	16	61	21.0	51.8	8.6	120	118
(ISA)	2000	12	54	21.0	53.1	8.9	123	124
<u>w</u>	4000	9	48	21.0	54.4	9.1	124	129
\ \ <del>\</del>	6000	5	41	21.0	55.7	9.3	125	134
STANDARD DAY	8000	1	34	21.0	57.3	9.6	126	140
AB	10,000	-3	27	20.8	58.5	9.8	126	143
l ĝ	12,000	-7	19	19.3	55.6	9.3	116	137
\	14,000	-11	12	17.9	53.5	8.9	103	125
S	16,000							
<u>E</u>	SL	36	97	21.0	50.8	8.5	114	115
	2000	32	90	21.0	52.1	8.7	116	121
. 36°	4000	29	83	21.0	53.4	8.9	118	127
+	6000	25	77	21.0	54.7	9.1	119	132
(ISA	8000	21	70	21.0	55.9	9.3	120	137
0	10,000	17	63	20.8	56.8	9.5	119	141
20°	12,000	13	55	19.3	54.5	9.1	108	131
+	14,000	-	-	_	-	=	_	1
ISA	16,000		$\equiv$	=	_		_	_

- NOTES: 1. Full throttle manifold pressure settings are approximate.
  - 2. Shaded area represents operation with full throttle.
  - 3. Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

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