

PERFORMANCE CHARTS

MAXIMUM RECOMMENDED CRUISE POWER SETTINGS

20°C RICH

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

OF PEAK EGT

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

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

OF PEAK EGT

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

- 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.

RECOMMENDED CRUISE POWER SETTINGS

20°C RICH

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

OF PEAK EGT

	PRESS. ALT	IOAT		MAN. PRESS.	FUEL FLOW		AIR-SPEED	
	FEET	°C	°F	IN. HG	PPH	GPH	KIAS	KTAS
ISA - 20° C (ISA - 36° F)	SL	-3	27	23.0	81.6	13.6	158	150
	2000	-7	20	23.0	84.2	14.0	158	154
	4000	-11	13	23.0	86.9	14.5	158	159
	6000	-14	6	23.0	89.7	15.0	158	164
	8000	-18	-1	22.4	89.0	14.8	156	166
	10,000	-22	-8	20.7	82.7	13.8	148	163
	12,000	-26	-16	19.2	77.1	12.9	141	160
	14,000	-31	-23	17.8	73.2	12.2	133	155
16,000	-35	-30	16.4	69.2	11.5	124	150	
STANDARD DAY (ISA)	SL	17	63	23.0	79.0	13.2	153	150
	2000	13	56	23.0	81.4	13.6	153	155
	4000	9	49	23.0	83.9	14.0	153	160
	6000	6	42	23.0	86.5	14.4	153	165
	8000	2	35	22.4	85.8	14.3	150	167
	10,000	-2	28	20.7	80.0	13.3	143	163
	12,000	-6	20	19.2	75.1	12.5	135	159
	14,000	-11	13	17.8	71.5	11.9	127	154
16,000	-15	6	16.4	67.9	11.3	117	147	
ISA + 20° C (ISA + 36° F)	SL	37	99	23.0	76.5	12.8	148	151
	2000	33	92	23.0	78.7	13.1	148	155
	4000	29	85	23.0	81.0	13.5	148	160
	6000	26	78	23.0	83.4	13.9	148	165
	8000	22	71	22.4	82.8	13.8	145	167
	10,000	18	64	20.7	77.3	12.9	138	163
	12,000	14	56	19.2	73.0	12.2	130	158
	14,000	9	49	17.8	69.8	11.6	121	152
16,000	5	41	16.4	66.6	11.1	109	142	

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.

RECOMMENDED CRUISE POWER SETTINGS

20°C LEAN

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

OF PEAK EGT

	PRESS. ALT	IOAT		MAN. PRESS.	FUEL FLOW		AIR-SPEED	
	FEET	°C	°F	IN. HG	PPH	GPH	KIAS	KTAS
ISA - 20° C (ISA - 36° F)	SL	-3	26	23.0	67.6	11.3	152	144
	2000	-7	20	23.0	69.7	11.6	152	149
	4000	-11	13	23.0	72.1	12.0	153	154
	6000	-15	6	23.0	74.4	12.4	153	158
	8000	-18	-1	22.4	73.8	12.3	150	160
	10,000	-23	-9	20.7	68.4	11.4	143	157
	12,000	-27	-16	19.2	63.8	10.6	135	153
	14,000	-31	-23	17.8	60.0	10.0	127	148
16,000	-35	-31	16.4	56.3	9.4	117	141	
STANDARD DAY (ISA)	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
	8000	2	35	22.4	71.1	11.9	145	160
	10,000	-3	27	20.7	66.2	11.0	137	157
	12,000	-7	20	19.2	61.8	10.3	129	152
	14,000	-11	13	17.8	58.5	9.8	120	146
16,000	-15	5	16.4	55.3	9.2	109	137	
ISA + 20° C (ISA + 36° F)	SL	37	98	23.0	63.2	10.5	142	145
	2000	33	92	23.0	65.1	10.9	143	149
	4000	29	85	23.0	67.1	11.2	143	154
	6000	25	78	23.0	69.0	11.5	142	158
	8000	22	71	22.4	68.5	11.4	140	160
	10,000	17	63	20.7	64.0	10.7	132	156
	12,000	13	56	19.2	60.0	10.0	123	151
	14,000	9	48	17.8	57.1	9.5	113	142
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.

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	IOAT		MAN. PRESS.	FUEL FLOW		AIR- SPEED	
		°C	°F		IN. HG	PPH	GPH	KIAS
ISA -20° C (ISA - 36° F)	SL	-3	27	25.0	79.5	13.3	155	148
	2000	-7	20	25.0	82.6	13.8	156	153
	4000	-11	13	25.0	85.8	14.3	157	158
	6000	-15	6	24.3	85.1	14.2	154	159
	8000	-19	-1	22.5	79.5	13.3	147	157
	10,000	-23	-9	20.8	74.9	12.5	140	153
	12,000	-27	-16	19.3	70.9	11.8	132	149
	14,000	-31	-23	17.9	68.2	11.4	123	144
	16,000	-35	-31	16.5	65.6	10.9	112	135
STANDARD DAY (ISA)	SL	17	63	25.0	77.0	12.8	150	148
	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
	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
	16,000	-15	5	16.5	64.9	10.8	101	127
ISA + 20° C (ISA + 36° F)	SL	37	99	25.0	74.9	12.5	146	148
	2000	33	92	25.0	77.3	12.9	146	153
	4000	29	85	25.0	80.1	13.4	146	158
	6000	25	78	24.3	79.5	13.3	143	160
	8000	21	71	22.5	74.9	12.5	136	156
	10,000	17	63	20.8	71.0	11.8	128	152
	12,000	13	56	19.3	68.1	11.4	119	145
	14,000	9	48	17.9	66.1	11.0	107	135
	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.

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

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. ALT	IOAT		MAN. PRESS.	FUEL FLOW		AIR- SPEED	
		FEET	°C		°F	IN. HG	PPH	GPH
ISA - 20° C (ISA - 36° F)	SL	-4	26	21.0	66.0	11.0	135	128
	2000	-7	19	21.0	67.5	11.3	137	134
	4000	-11	12	21.0	69.3	11.6	138	139
	6000	-15	5	21.0	71.1	11.9	139	144
	8000	-19	-2	21.0	73.4	12.2	140	149
	10,000	-23	-9	20.8	74.9	12.5	140	153
	12,000	-27	-16	19.3	70.9	11.8	132	149
	14,000	-31	-23	17.9	68.2	11.4	123	144
	16,000	-35	-31	16.5	65.6	10.9	112	135
STANDARD DAY (ISA)	SL	17	62	21.0	65.2	10.9	130	127
	2000	13	55	21.0	66.3	11.1	131	133
	4000	9	48	21.0	67.9	11.3	133	138
	6000	5	41	21.0	69.7	11.6	134	144
	8000	1	34	21.0	71.5	11.9	135	149
	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
	16,000	-15	5	16.5	64.9	10.8	101	127
ISA + 20° C (ISA + 36° F)	SL	36	98	21.0	64.5	10.8	124	126
	2000	33	91	21.0	65.5	10.9	126	132
	4000	29	84	21.0	66.6	11.1	127	137
	6000	25	77	21.0	68.3	11.4	128	143
	8000	21	70	21.0	70.0	11.7	129	148
	10,000	17	63	20.8	71.0	11.8	128	152
	12,000	13	56	19.3	68.1	11.4	119	145
	14,000	9	48	17.9	66.1	11.0	107	135
	16,000	—	—	—	—	—	—	—

- NOTES:
1. Fuel 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.

ECONOMY CRUISE POWER SETTINGS

20°C LEAN21.0 IN. HG (OR FULL THROTTLE) @ 2100 RPM
CRUISE LEAN MIXTURE
3400 LBS

OF PEAK EGT

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

FUEL SYSTEM ADJUSTMENT - IO-550-B

Manifold Pressure	Fuel Flow (PPH)	Fuel Flow (GPH / 5.87 lbs/gal)	Metered Pressure
30.0	147-162	25.0-27.6	16.8-19.6
29.5	145-159	24.7-27.1	16.6-19.0
29.0	143-157	24.4-26.7	16.4-18.6
28.5	140-155	23.9-26.4	15.8-18.4
28.0	138-152	23.5-25.9	15.5-17.7
27.5	136-150	23.2-25.5	15.2-17.4
27.0	134-148	22.8-25.2	14.8-17.0
26.5	132-146	22.5-24.9	14.6-16.8
26.0	129-143	21.9-24.4	14.2-16.4
25.5	127-141	21.6-24.0	13.9-16.0
25.0	125-139	21.3-23.7	13.6-15.7
24.5	123-137	21.0-23.3	13.2-15.4
24.0	121-134	20.6-22.8	13.0-14.8
23.5	118-132	20.1-22.5	12.6-14.6
23.0	116-130	19.8-22.1	12.4-14.3
22.5	114-128	19.4-21.8	12.0-14.0
22.0	112-126	19.1-21.5	11.8-13.8

Note: Fuel system adjustments are to be made at 2700 R.P.M. and full throttle .
 Engine is to be at normal operating temperatures .
 Engine idle speed for set up is to be 600 R.P.M. , idle pump pressure
 is to be set to 9-11 psi with correct mixture rise (50 R.P.M.) .