

**CRUISE THRUST LIMIT EPR VERSUS TOTAL AIR TEMPERATURE**

FLIGHT LEVEL	ISA SAT	AIR COND. EPR CORR.	TOTAL AIR TEMPERATURE (TAT) DEGREE CELSIUS														
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	
390	-56.5	POD OFF +.08	2.18	2.17	2.16	2.15	2.13	2.11	2.08	2.04	2.00						
		CTR ON -.07	2.24	2.23	2.22	2.21	2.19	2.17	2.14	2.10	2.06						
370	-56.5	POD OFF +.08	2.19	2.18	2.17	2.15	2.14	2.12	2.09	2.15	2.00						
		CTR ON -.07	2.24	2.23	2.22	2.21	2.19	2.17	2.14	2.10	2.06						
350	-54.3	POD OFF +.07		2.18	2.17	2.16	2.14	2.12	2.09	2.05	2.01	1.95					
		CTR ON -.07		2.23	2.22	2.21	2.19	2.17	2.14	2.10	2.06	2.01					
330	-50.4	POD OFF +.06		2.19	2.18	2.16	2.15	2.13	2.10	2.06	2.01	1.96	1.90				
		CTR ON -.06		2.23	2.22	2.21	2.19	2.17	2.14	2.10	2.06	2.01	1.94				
310	-46.4	POD OFF +.06			2.18	2.17	2.15	2.13	2.10	2.06	2.01	1.96	1.90	1.84	1.78	1.72	
		CTR ON -.06			2.22	2.21	2.19	2.17	2.14	2.10	2.06	2.01	1.94	1.89	1.83	1.76	
290	-42.4	POD OFF +.06				2.17	2.15	2.13	2.11	2.07	2.02	1.97	1.91	1.84	1.78	1.72	
		CTR ON -.06				2.21	2.19	2.17	2.14	2.10	2.06	2.01	1.94	1.89	1.83	1.76	

**ANTI-ICE BLEED CORRECTION**

ENGINE ONLY :        POD = -.08    CENTER = -.11  
 ENGINE AND WING : POD = -.16    CENTER = -.11

FLIGHT LEVEL	ISA TAT	ISA TAS	KIAS	MACH	CRUISE THRUST AVERAGE EPR VERSUS CRUISE MACH NUMBER																								
					-30.1	-29.5	-28.8	-28.1	-27.4	-30.1	-29.5	-28.8	-28.1	-27.4	-27.7	-27.0	-26.3	-25.6	-24.9	-23.3	-22.6	-21.9	-21.2	-20.4	-18.8	-18.1	-17.4	-16.6	-15.9
390	447	241	0.780									2.16	2.11	2.06	2.02	1.97													
	453	244	0.790									2.17	2.12	2.07	2.03	1.98													
	459	248	0.800									2.18	2.13	2.08	2.03	1.99													
	465	251	0.810									LIMIT	2.14	2.09	2.05	2.01													
	470	255	0.820										2.16	2.11	2.06	2.02													
370	447	252	0.780							2.17	2.12	2.08	2.04	2.00	1.96	1.92	1.89												
	453	256	0.790							2.18	2.13	2.08	2.04	2.00	1.97	1.93	1.90												
	459	260	0.800							2.19	2.14	2.09	2.05	2.01	1.98	1.94	1.91												
	465	263	0.810							LIMIT	2.15	2.11	2.07	2.03	1.99	1.95	1.92												
	470	267	0.820								2.17	2.12	2.08	2.04	2.00	1.97	1.93												
350	450	264	0.780			2.16	2.12	2.08	2.04	2.01	1.97	1.94	1.91	1.88	1.86	1.83													
	455	268	0.790			2.17	2.13	2.09	2.05	2.01	1.98	1.95	1.92	1.89	1.86	1.84													
	461	272	0.800			2.18	2.14	2.10	2.06	2.02	1.99	1.96	1.93	1.90	1.87	1.85													
	467	276	0.810			LIMIT	2.15	2.11	2.07	2.04	2.00	1.97	1.94	1.91	1.88	1.86													
	473	279	0.820				2.17	2.13	2.09	2.05	2.02	1.98	1.95	1.92	1.90	1.87													
330	454	277	0.780	2.11	2.08	2.04	2.01	1.98	1.95	1.92	1.89	1.87	1.84	1.82	1.80	1.79													
	459	281	0.790	2.12	2.08	2.05	2.02	1.98	1.95	1.93	1.90	1.87	1.85	1.83	1.81	1.80													
	465	285	0.800	2.13	2.09	2.06	2.03	1.99	1.96	1.94	1.91	1.88	1.86	1.84	1.82	1.80													
	471	288	0.810	2.14	2.10	2.07	2.04	2.01	1.98	1.95	1.92	1.90	1.87	1.85	1.83	1.82													
	477	292	0.820	2.16	2.12	2.09	2.05	2.02	1.99	1.96	1.93	1.91	1.88	1.86	1.85	1.83													
310	458	289	0.780	2.00	1.97	1.95	1.92	1.90	1.87	1.85	1.83	1.82	1.80	1.78	1.77	1.75													
	464	293	0.790	2.01	1.98	1.95	1.93	1.90	1.88	1.86	1.84	1.82	1.81	1.79	1.78	1.76													
	469	297	0.800	2.02	1.99	1.96	1.94	1.91	1.89	1.87	1.85	1.83	1.82	1.80	1.79	1.77													
	475	301	0.810	2.03	2.00	1.98	1.95	1.92	1.90	1.88	1.86	1.84	1.83	1.81	1.80	1.78													
	481	306	0.820	2.05	2.02	1.99	1.96	1.94	1.91	1.89	1.87	1.86	1.84	1.82	1.81	1.80													
290	462	302	0.780	1.92	1.89	1.87	1.86	1.84	1.82	1.80	1.79	1.77	1.76	1.75	1.73	1.72													
	468	306	0.790	1.93	1.90	1.88	1.86	1.85	1.83	1.81	1.80	1.78	1.77	1.76	1.74	1.73													
	474	311	0.800	1.94	1.91	1.89	1.87	1.85	1.84	1.82	1.81	1.79	1.78	1.77	1.76	1.74													
	479	315	0.810	1.95	1.92	1.90	1.88	1.86	1.85	1.83	1.82	1.81	1.79	1.78	1.77	1.75													
	485	319	0.820	1.96	1.94	1.92	1.90	1.88	1.86	1.85	1.83	1.82	1.81	1.79	1.78	1.77													
GROSS WEIGHT X 1,000 LBS			180	175	170	165	160	155	150	145	140	135	130	125	120														

**CRUISE THRUST LIMIT WEIGHT VERSUS FL - MACH & ISA AND, OPTIMUM WEIGHT FOR FLIGHT LEVEL (OPT W/FL)**

**CRUISE MANEUVER CAPABILITY WEIGHT**

FLIGHT LEVEL	ISA DEV	ISA - 5	ISA	ISA + 5	ISA + 10	ISA + 15	ISA + 20	OPT W/FL	FLIGHT LEVEL	CRUISE MACH	G MANEUVER CAPABILITY & EQUIVALENT BANK ANGLE						
											1.30G 40 deg	1.35G 42 deg	1.40G 44 deg	1.45G 46 deg	1.50G 48 deg	1.55G 50 deg	1.60G 51 deg
390	SAT	-61.5	-56.5	-51.5	-46.5	-41.5	-36.5		390	LRC	138000	133000	128000	123000	119000	115000	112000
	LRC	140200	138800	136500	134000	130000	125100	119600		M.790	138000	133000	128000	123000	119000	115000	112000
	M.790	140600	139200	136900	134400	130300	125000	119600		M.800	138000	133000	128000	123000	119000	115000	112000
	M.800	139500	138100	135600	132800	128400	123000	119600		M.820	132000	128000	123000	119000	115000	111000	108000
	M.820	136100	134500	131600	128600	123800	117800	117500		M.840	123000	118000	114000	110000	106000	103000	100000
370	SAT	-61.5	-56.5	-51.5	-46.5	-41.5	-36.5		370	LRC	151000	146000	141000	136000	131000	127000	122000
	LRC	154300	152700	150000	147300	142800	137100	131700		M.790	151000	146000	141000	136000	131000	127000	123000
	M.790	154800	153100	150400	147600	142900	136900	131700		M.800	151000	146000	141000	136000	131000	127000	123000
	M.800	153500	151900	149000	145900	141000	134700	131700		M.820	146000	141000	135000	131000	126000	122000	118000
	M.820	149700	147800	144600	141200	135800	128900	129400		M.840	135000	130000	125000	121000	117000	113000	110000
350	SAT	-59.3	-54.3	-49.3	-44.3	-39.3	-34.3		350	LRC	167000	161000	155000	150000	144000	140000	135000
	LRC	169500	167500	164600	161400	156200	149600	144900		M.790	167000	161000	155000	150000	144000	140000	135000
	M.790	170000	168000	165000	161900	156400	149300	144900		M.800	167000	161000	155000	150000	144000	140000	135000
	M.800	168700	166700	163400	159900	154200	146800	144900		M.820	161000	155000	149000	144000	139000	135000	131000
	M.820	164500	162100	158500	154700	148400	140400	142400		M.840	149000	143000	138000	133000	129000	125000	121000
330	SAT	-55.4	-50.4	-45.4	-40.4	-35.4	-30.4		330	LRC	183000	176000	170000	164000	159000	153000	148000
	LRC	185000	182400	178400	174000	167100	158800	159300		M.790	183000	176000	170000	164000	159000	153000	149000
	M.790	185600	182900	178800	174300	167100	158100	159300		M.800	183000	176000	170000	164000	159000	153000	149000
	M.800	184100	181300	176700	171900	164500	155100	159300		M.820	176000	170000	164000	158000	153000	148000	143000
	M.820	179200	176100	171200	165900	157700	147600	156500		M.840	163000	157000	151000	146000	142000	137000	133000
310	SAT	-51.4	-46.4	-41.4	-36.4	-31.4	-26.4		310	LRC	201000	193000	186000	180000	174000	167000	162000
	LRC	200800	197400	191300	184900	175600	164700	174700		M.790	201000	193000	186000	180000	174000	168000	163000
	M.790	201400	197800	191700	185000												