



FLIGHT CREW OPERATING MANUAL

CRUISE TABLE CF6-80C2D1F ENGINES

.83 MACH CRUISE

KEY	
REQUIRED %N ₁	
EGT (DEG C)	
% N ₂	
FUEL FLOW/ENGINE (KG/HR)	
INDICATED AIRSPEED (KT)	
TAT (DEG C)	

3 ENGINES OPERATING
ISA °C
TEMPERATURE

ONE A/C PACK PER OPERATING ENGINE
ICE PROTECTION OFF

3 ENGINES OPERATING
ISA °C
TEMPERATURE

PR ALT STD SAT TAS	GROSS WEIGHT (1000 KG)															
	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290
43,000 -56.5 476	89.7 587 94.6 1555 235 -27	91.1 603 95.3 1648 235 -27	92.7 620 96.0 1760 235 -27	94.9 643 97.0 1905 235 -27	98.0 673 98.3 2104 235 -27											
41,000 -56.5 476	88.0 569 93.8 1593 247 -27	89.2 582 94.3 1670 247 -27	90.4 595 94.9 1757 247 -27	91.8 611 95.6 1857 247 -27	93.4 628 96.3 1981 247 -27	95.6 650 97.3 2139 247 -27	98.7 679 98.5 2356 247 -27									
39,000 -56.5 476	86.7 553 93.2 1650 258 -27	87.6 564 93.6 1716 258 -27	88.7 576 94.1 1789 258 -27	89.8 588 94.6 1871 258 -27	90.9 601 95.2 1963 258 -27	92.2 615 95.8 2068 258 -27	93.7 632 96.5 2198 258 -27	95.8 652 97.4 2360 258 -27	98.7 679 98.5 2579 258 -27							
37,000 -56.5 476	85.5 541 92.7 1721 271 -27	86.3 550 93.1 1781 271 -27	87.2 560 93.4 1844 271 -27	88.1 570 93.8 1914 271 -27	89.1 580 94.3 1990 271 -27	90.1 592 94.8 2074 271 -27	91.1 604 95.3 2168 271 -27	92.3 617 95.8 2275 271 -27	93.7 632 96.5 2406 271 -27	95.6 650 97.3 2565 271 -27	98.0 673 98.3 2771 271 -27					
35,000 -54.3 478	84.9 537 92.8 1817 283 -24	85.6 545 93.1 1871 283 -24	86.4 553 93.4 1930 283 -24	87.1 562 93.7 1992 283 -24	88.0 571 94.0 2057 283 -24	88.8 581 94.4 2129 283 -24	89.7 591 94.8 2207 283 -24	90.6 601 95.3 2293 283 -24	91.6 612 95.8 2387 283 -24	92.6 624 96.3 2493 283 -24	93.8 637 96.8 2621 283 -24	95.5 653 97.6 2773 283 -24	97.5 673 98.4 2961 283 -24			
33,000 -50.4 483	84.8 541 93.2 1939 296 -20	85.4 548 93.5 1989 296 -20	86.0 555 93.8 2042 296 -20	86.7 563 94.1 2099 296 -20	87.4 571 94.4 2159 296 -20	88.1 579 94.7 2223 296 -20	88.9 587 95.0 2291 296 -20	89.7 596 95.3 2364 296 -20	90.5 605 95.7 2443 296 -20	91.3 615 96.1 2530 296 -20	92.2 625 96.5 2624 296 -20	93.2 636 97.0 2728 296 -20	94.2 648 97.5 2850 296 -20	95.7 663 98.2 3010 296 -20	98.0 686 99.2 3250 296 -20	
31,000 -46.4 487	84.8 548 92.0 2079 310 -15	85.3 553 92.2 2122 310 -15	85.9 559 94.2 2171 310 -15	86.5 565 94.5 2223 310 -15	87.1 572 94.7 2278 310 -15	87.7 579 95.0 2336 310 -15	88.3 587 95.3 2399 310 -15	89.0 594 95.6 2463 310 -15	89.7 602 95.8 2533 310 -15	90.4 610 96.2 2606 310 -15	91.1 619 96.5 2686 310 -15	91.9 628 96.9 2772 310 -15	92.7 637 97.3 2865 310 -15	93.7 648 97.7 2977 310 -15	94.9 662 98.3 3134 310 -15	96.5 679 99.1 3326 310 -15

ISA DEV. CORRECTION: INCREASE/DECREASE PER 5°C ABOVE/BELOW STD SAT

%N ₁	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0
FF/ENG	28	28	29	30	31	32	33	33	34	35	36	38	39	41	43	46
TAS	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

FOR ENGINE ICE PROTECTION ON: INCREASE FUEL FLOW BY 2.0%

FOR ENGINE AND AIRFRAME ICE PROTECTION ON: INCREASE FUEL FLOW BY 4.0%



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.83 MACH CRUISE

KEY
REQUIRED %N ₁
EGT (DEG C)
% N ₂
FUEL FLOW/ENGINE (KG/HR)
INDICATED AIRSPEED (KT)
TAT (DEG C)

3 ENGINES OPERATING ISA °C TEMPERATURE			ONE A/C PACK PER OPERATING ENGINE ICE PROTECTION OFF														3 ENGINES OPERATING ISA °C TEMPERATURE		
PR ALT STD SAT TAS	GROSS WEIGHT (1000 KG)																		
	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290			
29,000 -42.5 491	84.8	85.3	85.8	86.3	86.8	87.4	87.9	88.5	89.1	89.7	90.4	91.0	91.7	92.5	93.4	94.4			
	557	560	564	569	575	581	588	595	601	609	616	623	631	640	651	663			
	92.5	92.7	92.9	94.9	95.2	95.4	95.6	95.9	96.1	96.4	96.7	96.9	97.3	97.6	98.1	98.6			
	2240	2281	2325	2371	2422	2476	2533	2593	2656	2722	2791	2865	2945	3037	3156	3291			
	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323			
	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11			
27,000 -38.5 495	85.0	85.4	85.8	86.3	86.8	87.2	87.7	88.2	88.7	89.3	89.8	90.4	91.0	91.6	92.4	93.2			
	566	569	572	576	580	585	591	596	603	609	615	622	628	636	645	654			
	93.1	93.3	93.4	93.6	93.9	95.2	95.5	95.7	95.9	96.1	96.4	96.6	96.8	97.1	97.5	97.9			
	2418	2457	2497	2541	2586	2635	2688	2743	2801	2862	2926	2992	3062	3141	3240	3350			
	337	337	337	337	337	337	337	337	337	337	337	337	337	337	337	337			
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
25,000 -34.5 500	85.2	85.6	86.0	86.3	86.7	87.2	87.6	88.0	88.5	89.0	89.4	89.9	90.4	91.0	91.6	92.3			
	575	578	581	584	587	591	595	600	605	611	616	622	628	634	642	650			
	93.7	93.8	94.0	94.2	94.3	94.5	94.7	94.9	95.1	95.3	95.5	95.7	95.9	96.2	96.4	96.7			
	2621	2656	2694	2734	2776	2821	2867	2918	2972	3028	3087	3148	3213	3283	3368	3460			
	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351			
	-2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			

ISA DEV. CORRECTION: INCREASE/DECREASE PER 5°C ABOVE/BELOW STD SAT

%N ₁	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0
FF/ENG	28	28	29	30	31	32	33	33	34	35	36	38	39	41	43	46
TAS	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

FOR ENGINE ICE PROTECTION ON: INCREASE FUEL FLOW BY 2.0%

FOR ENGINE AND AIRFRAME ICE PROTECTION ON: INCREASE FUEL FLOW BY 4.0%