



FLIGHT CREW OPERATING MANUAL

CRUISE TABLE CF6-80C2D1F ENGINES

LONG RANGE CRUISE SPEED

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

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	GROSS WEIGHT (1000 KG)																				
	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290					
43,000 -56.5	89.8	91.2	92.9	95.2	98.4																
	588	605	623	647	677																
	94.6	95.4	96.2	97.2	98.5																
	1563	1664	1781	1935	2142																
	.832	.834	.835	.837	.837																
	236	237	237	238	238																
41,000 -56.5	88.1	89.3	90.6	92.0	93.6	95.9	99.1														
	569	582	597	613	631	654	684														
	93.8	94.4	95.0	95.7	96.5	97.5	98.7														
	1593	1676	1771	1877	2007	2173	2400														
	.830	.832	.833	.835	.836	.837	.838														
	247	247	248	248	249	249	249														
39,000 -56.5	86.5	87.6	88.7	89.8	91.1	92.4	94.0	96.1													
	552	564	576	589	603	618	635	657													
	93.1	93.6	94.1	94.7	95.3	95.9	96.7	97.6													
	1638	1716	1792	1881	1981	2091	2229	2399													
	.827	.830	.831	.832	.834	.835	.836	.837													
	257	258	259	259	260	260	260	261													
37,000 -56.5	84.9	86.1	87.2	88.1	89.1	90.2	91.3	92.5	94.0	95.9	98.4										
	532	547	559	570	581	593	606	619	635	654	678										
	92.3	92.9	93.4	93.8	94.3	94.8	95.4	96.0	96.7	97.5	98.5										
	1665	1758	1839	1914	1996	2088	2189	2301	2439	2606	2822										
	.814	.824	.829	.830	.831	.833	.834	.835	.836	.837	.837										
	265	269	270	271	271	272	272	272	273	273	273										
35,000 -54.3	83.2	84.8	86.0	87.0	87.9	88.8	89.7	90.7	91.7	92.8	94.1	95.8	97.8								
	515	534	549	560	571	581	591	602	614	626	640	657	678								
	89.9	92.6	93.2	93.6	94.0	94.4	94.9	95.4	95.9	96.4	97.0	97.7	98.7								
	1665	1791	1894	1978	2056	2130	2215	2308	2410	2521	2656	2817	3012								
	.782	.809	.822	.827	.830	.830	.832	.833	.834	.835	.836	.837	.837								
	265	275	280	282	283	283	284	284	285	285	285	286	286								
33,000 -50.4	81.4	83.3	84.9	86.1	87.2	88.0	88.9	89.7	90.5	91.4	92.4	93.3	94.4	96.0	98.4						
	505	523	539	555	567	578	587	596	606	617	627	639	651	667	691						
	89.3	90.4	93.0	93.7	94.2	94.6	95.0	95.3	95.8	96.2	96.7	97.1	97.7	98.4	99.4						
	1638	1788	1921	2033	2128	2211	2290	2365	2453	2546	2648	2758	2885	3056	3306						
	.737	.771	.798	.815	.824	.828	.830	.830	.832	.833	.834	.835	.835	.836	.837						
	260	273	284	290	294	295	296	296	297	297	298	298	298	299	299						
31,000 -46.4	79.8	81.5	83.2	84.8	86.2	87.3	88.1	88.9	89.7	90.4	91.2	92.0	92.8	93.8	95.1	96.8					
	496	512	528	544	560	573	584	593	602	611	620	629	639	651	665	683					
	88.9	89.8	90.7	91.7	92.4	92.9	93.4	93.8	94.2	94.6	95.0	95.4	95.8	96.2	96.6	97.0					
	1621	1756	1902	2045	2177	2281	2370	2453	2532	2608	2696	2789	2890	3009	3172	3376					
	.700	.727	.757	.785	.808	.819	.825	.828	.830	.831	.833	.833	.834	.835	.836	.836					
	257	268	280	291	300	305	308	309	310	310	310	311	311	312	312	312					
29,000 -42.5	78.2	79.9	81.5	83.1	84.7	86.0	87.2	88.2	88.9	89.7	90.4	91.0	91.8	92.6	93.5	94.6					
	487	503	518	533	549	563	577	590	599	607	616	624	632	641	653	666					
	88.6	89.4	90.2	91.1	92.0	92.9	93.4	93.8	94.2	94.6	95.0	95.4	95.8	96.2	96.6	97.0					
	1609	1744	1880	2021	2174	2310	2433	2542	2627	2710	2791	2867	2953	3053	3181	3325					
	.668	.692	.716	.742	.770	.793	.811	.821	.825	.828	.830	.830	.831	.832	.833	.834					
	255	265	275	286	298	308	315	320	321	323	323	323	324	324	325	325					

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

%N ₁	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
FF/ENG	20	21	23	25	27	29	31	33	35	37	38	40	41	42	44	45

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

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



FLIGHT CREW OPERATING MANUAL

CRUISE TABLE CF6-80C2D1F ENGINES

LONG RANGE CRUISE SPEED

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

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	GROSS WEIGHT (1000 KG)															
	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290
27,000 -38.5	76.7	78.3	79.9	81.5	82.9	84.4	85.8	87.0	88.0	88.9	89.6	90.3	91.0	91.6	92.4	93.3
	477	494	510	524	538	552	566	580	592	604	612	620	628	636	645	656
	88.3	89.1	89.8	90.6	91.4	92.2	93.0	94.9	95.4	95.9	96.2	96.5	96.8	97.1	97.5	97.9
	1603	1732	1866	2003	2142	2289	2442	2577	2697	2806	2893	2977	3060	3142	3246	3365
	639	661	683	705	727	752	778	798	812	821	825	828	830	830	831	832
25,000 -34.5	75.2	76.8	78.4	79.9	81.3	82.7	84.0	85.4	86.7	87.8	88.7	89.6	90.2	90.9	91.6	92.3
	469	484	500	515	529	542	555	568	581	594	606	616	625	633	641	650
	88.1	88.9	89.6	90.3	91.0	91.7	92.4	93.2	93.9	94.6	95.0	95.5	95.8	96.1	96.4	96.7
	1610	1731	1860	1994	2131	2270	2409	2563	2714	2851	2971	3081	3171	3262	3360	3460
	615	633	653	674	694	714	734	758	781	799	812	821	824	827	829	830
23,000 -30.6	73.7	75.4	77.0	78.4	79.8	81.2	82.5	83.7	85.0	86.2	87.4	88.5	89.4	90.1	90.9	91.6
	461	476	491	506	520	534	547	559	571	583	595	607	619	629	638	646
	87.9	88.7	89.4	90.0	90.7	91.3	92.0	92.7	93.3	94.0	94.7	95.3	95.8	96.2	96.5	96.9
	1623	1743	1864	1993	2125	2263	2403	2543	2687	2843	2995	3133	3258	3371	3480	3584
	592	610	627	645	663	682	701	719	739	761	781	798	810	819	823	826
21,000 -26.6	72.1	73.8	75.5	77.0	78.4	79.7	81.0	82.2	83.4	84.5	85.7	86.9	88.0	89.0	89.6	90.1
	454	468	483	497	511	524	537	550	562	573	584	596	607	618	626	632
	87.7	88.4	89.2	89.9	90.5	91.1	91.7	92.3	92.9	93.5	94.1	94.8	95.4	96.0	96.3	96.5
	1634	1756	1878	1999	2124	2256	2392	2532	2673	2814	2960	3118	3273	3413	3501	3572
	570	587	605	620	637	653	670	688	705	722	740	760	779	794	798	798
19,000 -22.6	70.6	72.3	74.0	75.5	76.9	78.2	79.5	80.7	81.9	83.0	84.1	85.2	86.2	87.3	88.3	88.8
	448	461	475	489	502	515	528	541	553	564	575	585	596	607	616	620
	87.5	88.2	88.9	89.6	90.3	90.9	91.4	92.0	92.6	93.1	93.7	94.2	94.8	95.4	96.0	96.2
	1651	1769	1890	2015	2135	2259	2389	2523	2661	2803	2944	3087	3233	3393	3530	3596
	550	566	582	599	613	628	643	659	674	690	706	722	738	756	770	770
17,000 -18.7	69.2	70.8	72.4	74.0	75.4	76.8	78.1	79.3	80.4	81.5	82.6	83.7	84.7	85.7	86.7	87.5
	442	456	469	482	494	507	519	531	543	555	566	577	587	597	606	614
	87.3	88.0	88.7	89.4	90.1	90.7	91.3	91.8	92.3	92.8	93.3	93.8	94.4	94.9	95.5	95.9
	1675	1788	1905	2027	2151	2275	2397	2523	2657	2792	2932	3074	3217	3362	3511	3625
	532	547	561	577	592	606	619	633	647	661	676	690	705	719	734	742
15,000 -14.7	67.8	69.4	70.9	72.5	73.9	75.3	76.6	77.8	79.0	80.1	81.2	82.2	83.2	84.2	85.2	86.1
	438	450	463	475	487	499	511	522	534	545	556	567	578	588	598	607
	87.2	87.8	88.5	89.2	89.8	90.5	91.1	91.6	92.1	92.6	93.1	93.6	94.1	94.5	95.0	95.5
	1705	1814	1928	2045	2166	2290	2417	2539	2664	2793	2927	3064	3205	3349	3498	3647
	515	529	543	557	571	585	599	611	623	636	649	662	675	689	702	716
13,000 -10.8	66.5	68.1	69.6	71.0	72.4	73.8	75.1	76.4	77.6	78.7	79.8	80.8	81.8	82.7	83.7	84.7
	435	446	458	469	481	492	504	515	526	537	547	558	568	578	589	599
	87.1	87.7	88.4	89.0	89.6	90.2	90.8	91.4	91.9	92.4	92.9	93.4	93.8	94.3	94.7	95.2
	1736	1842	1952	2066	2182	2302	2426	2552	2679	2802	2928	3059	3195	3334	3479	3628
	501	513	526	539	551	564	577	590	602	614	625	637	649	661	673	686
11,000 -6.8	65.1	66.8	68.2	69.7	71.0	72.3	73.6	74.9	76.1	77.3	78.4	79.4	80.4	81.3	82.3	83.2
	433	444	454	465	476	486	497	508	518	529	539	549	559	569	579	589
	87.1	87.7	88.3	88.8	89.4	90.0	90.6	91.2	91.7	92.2	92.7	93.2	93.6	94.1	94.5	94.9
	1762	1875	1982	2092	2205	2321	2440	2563	2689	2817	2943	3068	3195	3328	3469	3612
	485	499	511	522	534	546	557	569	581	593	605	615	625	636	647	659
9,000 -2.8	63.5	65.1	66.6	68.1	69.5	70.9	72.3	73.7	75.0	76.3	77.6	78.9	80.1	81.3	82.5	83.7
	425	435	445	455	465	475	485	495	505	515	525	535	545	555	565	575
	86.5	87.1	87.7	88.3	88.9	89.5	90.1	90.7	91.3	91.9	92.5	93.1	93.7	94.3	94.9	95.5
	1795	1905	2015	2125	2235	2345	2455	2565	2675	2785	2895	3005	3115	3225	3335	3445
	495	505	515	525	535	545	555	565	575	585	595	605	615	625	635	645

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

%N ₁	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
FF/ENG	20	21	23	25	27	29	31	33	35	37	38	40	41	42	44	45

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

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