



# FLIGHT CREW OPERATING MANUAL

## CRUISE TABLE CF6-80C2D1F ENGINES

### .84 MACH CRUISE

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

| 3 ENGINES OPERATING<br>ISA °C<br>TEMPERATURE |                                           |                                           |                                           | ONE A/C PACK PER OPERATING ENGINE<br>ICE PROTECTION OFF |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |  | 3 ENGINES OPERATING<br>ISA °C<br>TEMPERATURE |  |  |  |
|----------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|---------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|--|----------------------------------------------|--|--|--|
| PR ALT<br>STD SAT<br>TAS                     | GROSS WEIGHT (1000 KG)                    |                                           |                                           |                                                         |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |  |                                              |  |  |  |
|                                              | 140                                       | 150                                       | 160                                       | 170                                                     | 180                                       | 190                                       | 200                                       | 210                                       | 220                                       | 230                                       | 240                                       | 250                                       | 260                                       | 270                                       | 280                                       | 290                                       |  |                                              |  |  |  |
| 43,000<br>-56.5<br>482                       | 90.1<br>593<br>94.9<br>1596<br>239<br>-26 | 91.5<br>609<br>95.6<br>1691<br>239<br>-26 | 93.1<br>627<br>96.3<br>1806<br>239<br>-26 | 95.4<br>649<br>97.3<br>1956<br>239<br>-26               | 98.6<br>680<br>98.6<br>2161<br>239<br>-26 |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |  |                                              |  |  |  |
| 41,000<br>-56.5<br>482                       | 88.5<br>575<br>94.1<br>1635<br>250<br>-26 | 89.7<br>588<br>94.6<br>1714<br>250<br>-26 | 90.9<br>602<br>95.2<br>1803<br>250<br>-26 | 92.2<br>617<br>95.9<br>1906<br>250<br>-26               | 93.9<br>634<br>96.7<br>2033<br>250<br>-26 | 96.2<br>657<br>97.7<br>2195<br>250<br>-26 |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |  |                                              |  |  |  |
| 39,000<br>-56.5<br>482                       | 87.2<br>560<br>93.5<br>1694<br>262<br>-26 | 88.1<br>571<br>93.9<br>1762<br>262<br>-26 | 89.1<br>582<br>94.4<br>1837<br>262<br>-26 | 90.2<br>594<br>94.9<br>1920<br>262<br>-26               | 91.4<br>607<br>95.5<br>2014<br>262<br>-26 | 92.6<br>621<br>96.1<br>2122<br>262<br>-26 | 94.2<br>638<br>96.8<br>2256<br>262<br>-26 | 96.4<br>659<br>97.8<br>2422<br>262<br>-26 |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |  |                                              |  |  |  |
| 37,000<br>-56.5<br>482                       | 86.0<br>547<br>93.0<br>1769<br>274<br>-26 | 86.8<br>556<br>93.4<br>1829<br>274<br>-26 | 87.7<br>566<br>93.7<br>1894<br>274<br>-26 | 88.6<br>576<br>94.1<br>1965<br>274<br>-26               | 89.5<br>587<br>94.6<br>2043<br>274<br>-26 | 90.5<br>598<br>95.1<br>2129<br>274<br>-26 | 91.6<br>610<br>95.6<br>2224<br>274<br>-26 | 92.7<br>623<br>96.1<br>2335<br>274<br>-26 | 94.2<br>638<br>96.8<br>2469<br>274<br>-26 | 96.1<br>657<br>97.7<br>2633<br>274<br>-26 |                                           |                                           |                                           |                                           |                                           |                                           |  |                                              |  |  |  |
| 35,000<br>-54.3<br>484                       | 85.4<br>544<br>93.1<br>1869<br>287<br>-23 | 86.1<br>552<br>93.4<br>1924<br>287<br>-23 | 86.9<br>560<br>93.7<br>1983<br>287<br>-23 | 87.6<br>569<br>94.0<br>2045<br>287<br>-23               | 88.4<br>578<br>94.3<br>2113<br>287<br>-23 | 89.3<br>587<br>95.1<br>2186<br>287<br>-23 | 90.1<br>597<br>95.6<br>2265<br>287<br>-23 | 91.0<br>607<br>96.1<br>2353<br>287<br>-23 | 92.0<br>618<br>96.6<br>2449<br>287<br>-23 | 93.1<br>630<br>97.2<br>2559<br>287<br>-23 | 94.4<br>644<br>97.9<br>2691<br>287<br>-23 | 96.0<br>660<br>98.8<br>2847<br>287<br>-23 | 98.1<br>680<br>99.9<br>3041<br>287<br>-23 |                                           |                                           |                                           |  |                                              |  |  |  |
| 33,000<br>-50.4<br>489                       | 85.3<br>548<br>93.5<br>1995<br>300<br>-19 | 85.9<br>555<br>93.8<br>2046<br>300<br>-19 | 86.6<br>562<br>94.1<br>2099<br>300<br>-19 | 87.2<br>570<br>94.4<br>2157<br>300<br>-19               | 87.9<br>578<br>94.6<br>2218<br>300<br>-19 | 88.6<br>586<br>95.0<br>2283<br>300<br>-19 | 89.4<br>594<br>95.3<br>2352<br>300<br>-19 | 90.1<br>603<br>95.6<br>2427<br>300<br>-19 | 90.9<br>612<br>96.0<br>2508<br>300<br>-19 | 91.8<br>621<br>96.4<br>2596<br>300<br>-19 | 92.7<br>632<br>96.9<br>2693<br>300<br>-19 | 93.6<br>642<br>97.3<br>2800<br>300<br>-19 | 94.7<br>654<br>97.8<br>2926<br>300<br>-19 | 96.3<br>670<br>98.5<br>3091<br>300<br>-19 | 98.7<br>694<br>99.6<br>3342<br>300<br>-19 |                                           |  |                                              |  |  |  |
| 31,000<br>-46.4<br>493                       | 85.3<br>554<br>92.3<br>2138<br>314<br>-14 | 85.9<br>559<br>94.3<br>2184<br>314<br>-14 | 86.4<br>566<br>94.5<br>2233<br>314<br>-14 | 87.0<br>572<br>94.8<br>2286<br>314<br>-14               | 87.6<br>579<br>95.0<br>2342<br>314<br>-14 | 88.2<br>586<br>95.3<br>2402<br>314<br>-14 | 88.8<br>594<br>95.6<br>2464<br>314<br>-14 | 89.5<br>601<br>95.8<br>2530<br>314<br>-14 | 90.2<br>609<br>96.1<br>2601<br>314<br>-14 | 90.9<br>617<br>96.5<br>2677<br>314<br>-14 | 91.6<br>626<br>96.8<br>2758<br>314<br>-14 | 92.4<br>634<br>97.2<br>2846<br>314<br>-14 | 93.2<br>643<br>97.6<br>2941<br>314<br>-14 | 94.1<br>654<br>98.1<br>3056<br>314<br>-14 | 95.4<br>669<br>98.7<br>3222<br>314<br>-14 | 97.2<br>687<br>99.4<br>3423<br>314<br>-14 |  |                                              |  |  |  |

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

| %N <sub>1</sub> | 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 | 1.0 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| FF/ENG          | 29  | 29  | 30  | 31  | 32  | 33  | 33  | 34  | 35  | 36  | 37  | 39  | 40  | 42  | 44  | 47  |
| 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%



# FLIGHT CREW OPERATING MANUAL

## CRUISE TABLE CF6-80C2D1F ENGINES

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

### .84 MACH CRUISE

| 3 ENGINES OPERATING<br>ISA °C<br>TEMPERATURE |                        |      |      | ONE A/C PACK PER OPERATING ENGINE<br>ICE PROTECTION OFF |      |      |      |      |      |      |      |      |      |      |      |      |  | 3 ENGINES OPERATING<br>ISA °C<br>TEMPERATURE |  |  |  |
|----------------------------------------------|------------------------|------|------|---------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------------------------------------------|--|--|--|
| PR ALT<br>STD SAT<br>TAS                     | GROSS WEIGHT (1000 KG) |      |      |                                                         |      |      |      |      |      |      |      |      |      |      |      |      |  |                                              |  |  |  |
|                                              | 140                    | 150  | 160  | 170                                                     | 180  | 190  | 200  | 210  | 220  | 230  | 240  | 250  | 260  | 270  | 280  | 290  |  |                                              |  |  |  |
| <b>29,000</b><br>-42.5<br>497                | 85.4                   | 85.9 | 86.4 | 86.9                                                    | 87.4 | 87.9 | 88.5 | 89.0 | 89.6 | 90.2 | 90.9 | 91.5 | 92.2 | 92.9 | 93.9 | 94.9 |  |                                              |  |  |  |
|                                              | 563                    | 566  | 571  | 576                                                     | 582  | 589  | 595  | 602  | 608  | 615  | 623  | 630  | 638  | 647  | 658  | 670  |  |                                              |  |  |  |
|                                              | 92.8                   | 93.1 | 95.0 | 95.2                                                    | 95.5 | 95.7 | 95.9 | 96.2 | 96.4 | 96.7 | 97.0 | 97.3 | 97.6 | 97.9 | 98.4 | 98.9 |  |                                              |  |  |  |
|                                              | 2306                   | 2347 | 2392 | 2440                                                    | 2492 | 2546 | 2604 | 2665 | 2729 | 2795 | 2867 | 2942 | 3024 | 3118 | 3244 | 3385 |  |                                              |  |  |  |
|                                              | 328                    | 328  | 328  | 328                                                     | 328  | 328  | 328  | 328  | 328  | 328  | 328  | 328  | 328  | 328  | 328  | 328  |  |                                              |  |  |  |
|                                              | -10                    | -10  | -10  | -10                                                     | -10  | -10  | -10  | -10  | -10  | -10  | -10  | -10  | -10  | -10  | -10  | -10  |  |                                              |  |  |  |
| <b>27,000</b><br>-38.5<br>501                | 85.6                   | 86.0 | 86.4 | 86.9                                                    | 87.3 | 87.8 | 88.3 | 88.8 | 89.3 | 89.8 | 90.3 | 90.9 | 91.5 | 92.1 | 92.9 | 93.7 |  |                                              |  |  |  |
|                                              | 572                    | 575  | 578  | 582                                                     | 587  | 592  | 598  | 604  | 610  | 616  | 622  | 629  | 635  | 643  | 652  | 662  |  |                                              |  |  |  |
|                                              | 93.4                   | 93.6 | 93.8 | 94.0                                                    | 95.4 | 95.6 | 95.8 | 96.0 | 96.2 | 96.4 | 96.7 | 96.9 | 97.1 | 97.4 | 97.8 | 98.2 |  |                                              |  |  |  |
|                                              | 2491                   | 2529 | 2570 | 2614                                                    | 2661 | 2711 | 2765 | 2821 | 2880 | 2942 | 3006 | 3073 | 3145 | 3226 | 3331 | 3447 |  |                                              |  |  |  |
|                                              | 342                    | 342  | 342  | 342                                                     | 342  | 342  | 342  | 342  | 342  | 342  | 342  | 342  | 342  | 342  | 342  | 342  |  |                                              |  |  |  |
|                                              | -5                     | -5   | -5   | -5                                                      | -5   | -5   | -5   | -5   | -5   | -5   | -5   | -5   | -5   | -5   | -5   | -5   |  |                                              |  |  |  |
| <b>25,000</b><br>-34.5<br>506                | 85.8                   | 86.2 | 86.6 | 86.9                                                    | 87.3 | 87.7 | 88.2 | 88.6 | 89.0 | 89.5 | 90.0 | 90.5 | 91.0 | 91.5 | 92.2 | 92.9 |  |                                              |  |  |  |
|                                              | 581                    | 584  | 587  | 590                                                     | 594  | 597  | 602  | 607  | 612  | 618  | 623  | 629  | 635  | 642  | 649  | 657  |  |                                              |  |  |  |
|                                              | 94.0                   | 94.2 | 94.3 | 94.5                                                    | 94.7 | 94.8 | 95.0 | 95.2 | 95.4 | 95.6 | 95.8 | 96.0 | 96.2 | 96.5 | 96.7 | 97.1 |  |                                              |  |  |  |
|                                              | 2700                   | 2736 | 2774 | 2814                                                    | 2857 | 2902 | 2951 | 3003 | 3057 | 3114 | 3174 | 3237 | 3301 | 3373 | 3463 | 3560 |  |                                              |  |  |  |
|                                              | 356                    | 356  | 356  | 356                                                     | 356  | 356  | 356  | 356  | 356  | 356  | 356  | 356  | 356  | 356  | 356  | 356  |  |                                              |  |  |  |
|                                              | -1                     | -1   | -1   | -1                                                      | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   | -1   |  |                                              |  |  |  |

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

|                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| %N <sub>1</sub> | 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 | 1.0 |
| FF/ENG          | 29  | 29  | 30  | 31  | 32  | 33  | 33  | 34  | 35  | 36  | 37  | 39  | 40  | 42  | 44  | 47  |
| 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%