

TABLE VII-2

JETSTAR DIMENSIONAL, MASS, AND FLIGHT CONDITION PARAMETERS

| F/C # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| H(FT) | SL | SL | SL | SL | 20 K | 20 K | 20 K | 40 K | 40 K | 40 K |
| M(-) | .200 | .230 | .400 | .525 | .350 | .550 | .750 | .500 | .650 | .800 |
| VTO(FPS) | 224. | 257. | 447. | 586. | 363. | 570. | 778. | 484. | 629. | 774. |
| VTO(KTAS) | 133. | 152. | 265. | 347. | 215. | 338. | 461. | 287. | 373. | 459. |
| VTO(KCAS) | 132. | 152. | 265. | 347. | 158. | 252. | 348. | 146. | 193. | 243. |
| W(LBS) | 23905. | 38205. | 38205. | 38205. | 38205. | 38205. | 38205. | 38205. | 38205. | 38205. |
| C.G.(MGC) | .250 | .250 | .250 | .250 | .250 | .250 | .250 | .250 | .250 | .250 |
| IX (SLUG-FT SQ) | 42275. | 118779. | 118779. | 118779. | 118779. | 118779. | 118779. | 118779. | 118779. | 118779. |
| IY (SLUG-FT SQ) | 126106. | 135876. | 135876. | 135876. | 135876. | 135876. | 135876. | 135876. | 135876. | 135876. |
| IZ (SLUG-FT SQ) | 160113. | 243518. | 243518. | 243513. | 243518. | 243518. | 243519. | 243518. | 243518. | 243518. |
| IXZ(SLUG-FT SQ) | 5470. | 5061. | 5061. | 5061. | 5061. | 5061. | 5061. | 5061. | 5061. | 5061. |
| EPSILCN(DEG) | -2.65 | -2.32 | -2.32 | -2.32 | -2.32 | -2.32 | -2.32 | -2.32 | -2.32 | -2.32 |
| Q(PSE) | 59.4 | 78.4 | 237. | 408. | 83.5 | 206. | 383. | 69.0 | 117. | 177. |
| QC(PSE) | 60.0 | 79.4 | 247. | 437. | 86.0 | 222. | 440. | 73.4 | 129. | 207. |
| ALPHA(DEG) | 6.50 | 11.2 | 4.00 | 2.70 | 9.90 | 4.50 | 2.60 | 11.4 | 7.00 | 4.20 |
| GAMMA(DEG) | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| LXP(FT) | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| LZP(FT) | -2.40 | -2.40 | -2.40 | -2.40 | -2.40 | -2.40 | -2.40 | -2.40 | -2.40 | -2.40 |
| LTH(DEG) | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| X1(DEG) | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| LTH(FT) | -.820 | -.820 | -.820 | -.820 | -.820 | -.820 | -.820 | -.820 | -.820 | -.820 |

TABLE VII-3
JETSTAR LONGITUDINAL DIMENSIONAL DERIVATIVES
(BODY AXIS SYSTEM)

| F/C # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| H | SL | SL | SL | SL | 20 K | 20 K | 20 K | 40 K | 40 K | 40 K |
| V | .200 | .230 | .400 | .525 | .350 | .550 | .750 | .500 | .650 | .800 |
| XU * | -.0166 | -.00456 | -.0102 | -.0136 | -.00324 | -.00697 | -.0157 | -.00353 | -.00148 | -.211E-5 |
| ZU * | -.175 | -.103 | -.0593 | -.0305 | -.0804 | -.0436 | -.0212 | -.0614 | -.0408 | -.0348 |
| MU * | .00131 | .00175 | .000549 | .000727 | .00102 | .000815 | -.000473 | .000902 | .000747 | -.00425 |
| XW | .108 | .164 | .118 | .103 | .111 | .0918 | .0689 | .0858 | .0498 | .0266 |
| ZW | -1.01 | -.723 | -1.24 | -1.65 | -.565 | -.881 | -1.33 | -.354 | -.475 | -.655 |
| MW | -.00991 | -.00902 | -.0146 | -.0201 | -.00665 | -.0107 | -.0154 | -.00491 | -.00561 | -.00760 |
| ZWD | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| ZQ | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| MWD | -.000910 | -.000834 | -.000848 | -.000906 | -.000447 | -.000482 | -.000574 | -.000207 | -.000237 | -.000380 |
| MQ | -.546 | -.582 | -1.03 | -1.33 | -.439 | -.724 | -1.09 | -.279 | -.380 | -.504 |
| XDE | 1.97 | 2.78 | 3.02 | 3.51 | 2.62 | 2.96 | 3.34 | 2.49 | 2.66 | 2.54 |
| ZDE | -17.2 | -14.0 | -43.2 | -74.3 | -15.0 | -37.5 | -73.5 | -12.4 | -21.7 | -34.6 |
| MD E | -2.26 | -2.80 | -8.38 | -14.6 | -2.95 | -7.47 | -14.5 | -2.47 | -4.27 | -6.73 |
| XD TH | .00135 | .000842 | .000842 | .000342 | .000842 | .000842 | .000842 | .000842 | .000842 | .000842 |
| ZD TH | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| MD TH | -.650E-5 | -.604E-5 | -.604E-5 | -.604E-5 | -.604E-5 | -.604E-5 | -.604E-5 | -.604E-5 | -.604E-5 | -.604E-5 |
| | + | + | + | + | + | + | + | + | + | + |

TABLE VII-7

JETSTAR LATERAL-DIRECTIONAL DIMENSIONAL DERIVATIVES
(BODY AXIS SYSTEM)

| F/C # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| F | SL | SL | SL | SL | 20 K | 20 K | 20 K | 40 K | 40 K | 40 K |
| M | .200 | .230 | .400 | .525 | .350 | .550 | .750 | .500 | .650 | .800 |
| YV | -.140 | -.100 | -.175 | -.229 | -.0756 | -.119 | -.167 | -.0469 | -.0618 | -.0781 |
| YB | -31.2 | -25.8 | -78.0 | -134. | -27.5 | -67.8 | -130. | -22.7 | -38.9 | -60.5 |
| L3' | -4.05 | -3.42 | -5.27 | -7.28 | -3.23 | -4.43 | -4.93 | -2.75 | -2.93 | -2.27 |
| NB' | 1.34 | 1.10 | 3.30 | 5.47 | 1.21 | 2.99 | 5.63 | 1.02 | 1.75 | 2.66 |
| LP' | -1.85 | -.752 | -1.30 | -1.75 | -.582 | -.935 | -1.34 | -.380 | -.492 | -.635 |
| NP' | -.245 | -.173 | -.164 | -.187 | -.121 | -.119 | -.137 | -.0840 | -.0758 | -.0682 |
| LR' | .517 | .234 | .181 | .170 | .169 | .124 | .0868 | .105 | .0936 | .0551 |
| NR' | -.190 | -.172 | -.261 | -.333 | -.125 | -.178 | -.252 | -.0804 | -.0994 | -.120 |
| Y*CA | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| L'CA | 2.21 | 1.04 | 3.14 | 5.71 | 1.10 | 2.88 | 5.83 | .929 | 1.71 | 2.64 |
| N'CA | -.00557 | -.0864 | -.0767 | -.0524 | -.0770 | -.0759 | -.0624 | -.0716 | -.0831 | -.0720 |
| Y*CR | .0340 | .0244 | .0424 | .0557 | .0184 | .0289 | .0371 | .0114 | .0144 | .0162 |
| L'CR | 1.11 | .533 | 1.61 | 2.77 | .568 | 1.40 | 2.43 | .444 | .766 | 1.21 |
| N'CR | -.644 | -.580 | -1.81 | -3.12 | -.618 | -1.55 | -2.66 | -.511 | -.836 | -1.16 |