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L       CM ENTRY DIGITAL AUTOPILOT                                                    USER=S PAGE NO.   8      E6 S3

P0200   THIS SECTION CALCULATES THE ANGULAR BODY RATES EACH .1 SEC.  THE ANGULAR RATES ARE THOSE ALONG THE BODY AXES
R0202   XB, YB, ZB, AND ARE NORMALLY DESIGNATED  P, Q, R.        REQUIREMENT'  TEMPORARY ERASE. JETEM, JETEM +1

R0204           SINCE RESTARTS ZERO THE JET OUTPUT CHANNELS, NO ATTEMPT IS MADE TO RESTART THE  ENTRY DAPS. THAT IS,
R0206   THE 0.1 SEC DAPS WILL MISS A CYCLE, AND WILL PICK UP AT THE NEXT 0.1 SEC UPDATE. MOST OF THE TIME THE 2 SEC
R0208   ROLL SYSTEM WILL MISS ONLY 0.1 SEC OF CONTROL. HOWEVER IF THE RESTART OCCURS AFTER THE  SECTION TIMETST HAS
R0210   STARTED, THEN THE ROLL SYSTEM WILL MISS ONE CYCLE.
R0211   THIS IS NECESSARY  UNDER THE GROUNDRULE THAT NO JET COMMANDS SHALL BE LESS THAN 14 MS.

 0213   REF  35  LAST 1039   E6,1661                          EBANK= AOG
 0214                        15,2556                          BANK   15
 0215   REF   3  LAST 1036   15,2000                          SETLOC ETRYDAP
 02151                       15,2556                          BANK

 0216   REF   3 LAST 1036 TO 1037'     6     66*              COUNT  15/DAPEN

 0218   REF   5  LAST 1034   15,2556  3 1663 0  BODYRATE CA     AMG          THESE ARE 2S COMPL NOS, BUT USE ANYWAY.
 0219   REF   3  LAST  970   15,2557  0 4767 0            TC     SPCOS
 0220   REF   2  LAST  110   15,2560  55=511 1            TS     COSM

 0221   REF  36  LAST 1041   15,2561  3 1661 1            CA     AOG          C(AOG) = AOG/180
 0222   REF   3  LAST  970   15,2562  0 4770 0            TC     SPSIN        SINO
 0223   REF   2  LAST  110   15,2563  55=512 1            TS     SINO         SINO = SIN(AOG)

 0224                        15,2564  0 0006 1            EXTEND
 0225   REF   3  LAST 1041   15,2565  7 1511 1            MP     COSM
 0226   REF   2  LAST  110   15,2566  55=514 1            TS     SINOCOSM     SO CM

 0227   REF  37  LAST 1041   15,2567  3 1661 1            CA     AOG
 0228   REF   4  LAST 1041   15,2570  0 4767 0            TC     SPCOS        COSO
 0229   REF   2  LAST  110   15,2571  55=513 0            TS     COSO

 0230                        15,2572  0 0006 1            EXTEND
 0231   REF   4  LAST 1041   15,2573  7 1511 1            MP     COSM
 0232   REF   1              15,2574  55=515 0            TS     COSOCOSM     CO CM

R0233   PITCHDOT'     Q TCDU/180 = IDOT TCDU/180 COSO COSM + MDOT TCDU/180 SINO

 0234   REF   3  LAST 1034   15,2575  4 1677 1            CS     -DELAMG
 0235                        15,2576  0 0006 1            EXTEND
 0236   REF   3  LAST 1041   15,2577  7 1512 1            MP     SINO
 0237   REF   9  LAST 1039   15,2600  53=721 0            DXCH   JETEM        2 LOCS
 0238   REF   3  LAST 1034   15,2601  4 1676 0            CS     -DELAIG
 0239                        15,2602  0 0006 1            EXTEND
 0240   REF   2  LAST 1041   15,2603  7 1515 0            MP     COSOCOSM
 0241   REF  10  LAST 1041   15,2604  21=721 0            DAS    JETEM
 0242   REF  11  LAST 1041   15,2605  3 1720 0            CA     JETEM
 0243   REF   3  LAST 1035   15,2606  57=707 0            XCH    QLDELQ
 0244   REF   1              15,2607  0 2550 0            TC     RATEAVG
 0245   REF   2  LAST  109   15,2610  55=702 1            TS     QREL         PITCHDOT = Q TCDU/180
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