DATA

```
49      0036        RAWADMAT EQU    $36
50      00C0        SAC      EQU    $C0
51      0180        SAP      EQU    $180
52      0011        TIME     EQU    $11
53      004C        TREF     EQU    $4C
54      0073        VE       EQU    $73
55      00AF        WGATEDC  EQU    $AF
                    *::END OF EQUATES
                    ***********************************************
                    *  GMP-4 LOT CONTROL/TRACEABILITY PARAMETERS  *
                    ***********************************************

56  C000                     ORG    CALDATA

                    * ------------------------------------------------------------
57  C000 10B0       PROMIDA  FDB    $10B0              (     $10B0) :0000: '      ' EPROM I.D. NUMBER
                    *-                                 :            ::EQU N=E ::

                    *-                                 :            ::PROTECT ::

                    * ------------------------------------------------------------
58  C002 FFFF       DATECODE FDB    $FFFF              (     $FFFF) :0002: '      ' EPROM DATE CODE
                    *-                                 :            ::EQU N=E ::
                    * ------------------------------------------------------------
59  C004 FFFF       SEQNUMB  FDB    $FFFF              (     $FFFF) :0004: '      ' PRODUCTION SEQUENCE
                    *-                                 :                   NUMBER
                    *-                                 :            ::EQU N-E ::

                    *-                                 :            ::NOPROTECT ::

                    **********************
                    *  CALIBRATION DATA  *
                    **********************

                    * ------------------------------------------------------------
60  C006 D20A       KKSUM    FDB    $D20A              (     $D20A) :0006: '      ' CHECK SUM $C008
                    *-                                 :                   THROUGH $FFFF
                    *-                                 :            ::EQU N=E ::

                    *-                                 :            ::PROTECT ::
                    * ------------------------------------------------------------
61  C008 58         KKPGMID  FCB    $58                (       $58) :0008: '      ' PROGRAM
                    *-                                 :                   IDENTIFICATION WORD -
                    *-                                 :                   $AA=BYPASS SUMCHECK
                    *-                                 :            ::EQU N=E ::          $58 FOR
                    *-                                 :                   1988 2.0L TURBO
                    *-                                 :            ::NOPROTECT ::

                    * ------------------------------------------------------------
62  C009 80         KNUMCYL  FCB    128                (         4) :0009: 'CYLS  ' NUMBER OF CYLINDERS
                    *-                                 :                   IN THE ENGINE
                    *-                                 :            ::EQU N=DTABLE(E,N,3,96,4,128,6,192,8,0)
```

DATA

```
                    ********************************
                    *    DIAGNOSTIC PARAMETERS     *
                    ********************************

                    * GENERAL PARAMETERS FOR DIAGNOSTICS
                    * ----------------------------------------------------------------------
 95  C035 FF        KKMASK1  FCB    $FF        (      $FF) :0035: '      ' MASK FOR MALFFLG1;
                                                                  BIT=0 DISABLES MALF
                    *-                         :                  RECOGNITION
                    *-                         :          ::EQU N=E ::
                    *-                         :
                    * ----------------------------------------------------------------------
 96  C036 FD        KKMASK2  FCB    $FD        (      $FD) :0036: '      ' MASK FOR MALFFLG2
                    *-                         :
                    *-                         :          ::EQU N=E ::
                    * ----------------------------------------------------------------------
 97  C037 FD        KKMASK3  FCB    $FD        (      $FD) :0037: '      ' MASK FOR MALFFLG3
                    *-                         :
                    *-                         :          ::EQU N=E ::
                    * ----------------------------------------------------------------------
 98  C038 32        KKNOMALF FCB    50         (       50) :0038: '      ' NO. OF SUCCESSIVE
                                                                  POWER UPS WITH NO MALFS,N.D.
                    *-                         :
                    *-                         :          ::EQU N=E ::
                    * ----------------------------------------------------------------------
 99  C039 0A        KMCNT1   FCB    10         (        1) :0039: 'SEC   ' MALFUNCTION LOGGING
                    *-                         :                  FILTER CONSTANT 1
                    *-                         :          ::EQU N=E*10 ::
                    * ----------------------------------------------------------------------
100  C03A 14        KMCNT2   FCB    20         (        2) :003A: 'SEC   ' MALFUNCTION LOGGING
                    *-                         :                  FILTER CONSTANT 2
                    *-                         :          ::EQU N=E*10 ::
                    * ----------------------------------------------------------------------
101  C03B 64        KMCNT3   FCB    100        (       10) :003B: 'SEC   ' MALFUNCTION LOGGING
                    *-                         :                  FILTER CONSTANT 3
                    *-                         :          ::EQU N=E*10 ::
                    * ----------------------------------------------------------------------
102  C03C 78        KMCNT4   FCB    120        (       12) :003C: 'SEC   ' MALFUNCTION LOGGING
                    *-                         :                  FILTER CONSTANT 4
                    *-                         :          ::EQU N=E*10 ::

                    *            MALF 13 PARAMETERS
                    * ----------------------------------------------------------------------
103  C03D 00C8      KK02MPT1 FDB    200        (       20) :003D: 'SEC   ' TIMER FOR MALF 13
                    *-                         :                  ENABLE LOGIC
                    *-                         :          ::EQU N=E*10 ::
                    * ----------------------------------------------------------------------
104  C03F 04B0      KK02DFT1 FDB    1200       (      120) :003F: 'SEC   ' TIMER THRESHOLD FOR
                    *-                         :                  MALF 13 DISABLE LOGIC
                    *-                         :          ::EQU N=E*10 ::
                    * ----------------------------------------------------------------------
105  C041 0BB8      KK02IDT1 FDB    3000       (      300) :0041: 'SEC   ' TIMER THRESHOLD FOR
                    *-                         :                  MALF 13 DISABLE LOGIC
```

```
00031500                        *-                              ::EQU N=E*10 ::

00031700                        *****THE FOLLOWING PARAMETERS MUST BE IN ORDER**********
00031800                        * ------------------------------------------------------------------
00031900  106  C043 A0          KKO2MAP  FCB    160             (      70) :0043: 'KPA    ' MAP THRESHOLD FOR
00032000                        *-                                         MALF 13 ENABLE LOGIC
00032100                        *-                              ::TBL4,1 ::
00032200                        * ------------------------------------------------------------------
00032300  107  C044 40          KKO2RPM  FCB    64              (    1600) :0044: 'RPM    ' RPM THRESHOLD FOR
00032400                        *-                                         MALF 13 ENABLE LOGIC
00032500                        *-                              ::EQU N=E/25 ::
00032600                        *****THE PRECEDING PARAMETERS MUST BE IN ORDER**********
00032700                        * ------------------------------------------------------------------
00032800  108  C045 4F          KKO2LOW  FCB    79              (    0.35) :0045: 'VOLTS  ' O2 SENSOR LOW LIMIT
00032900                        *-                              ::EQU N=E*226 ::
00033000                        * ------------------------------------------------------------------
00033100  109  C046 7C          KKO2HIGH FCB    124             (    0.55) :0046: 'VOLTS  ' O2 SENSOR HIGH LIMIT
00033200                        *-                              ::EQU N=E*226 ::
00033300                        * ------------------------------------------------------------------
00033400  110  C047 10          KKO2LOD  FCB    16              (    6.3) :0047: '%       ' THROTTLE POSITION
00033500                        *-                                         LIMIT
00033600                        *-                              ::EQU N=E*2.56 ::
00033700                        * ------------------------------------------------------------------
00033800  111  C048 1E          KKO2OLTM FCB    30              (      3) :0048: 'SEC    ' TIME LIMIT
00033900                        *-                              ::EQU N=E*10 ::

00034100                        *          MALF 13/24 PARAMETERS
00034200                        * ------------------------------------------------------------------
00034300  112  C049 A7          KKDIAGWM FCB    167             (     85) :0049: 'DEG C  ' COOLANT THRESHOLD
00034400                        *-                              ::EQU N=(E+40)*256/192 ::

00034600                        *          MALF 14 PARAMETERS
00034700                        * ------------------------------------------------------------------
00034800  113  C04A 03          KKETMPTH FCB    3               (      6) :004A: 'SEC    ' TIME SINCE RUN ENABL
00034900                        *-                              ::EQU N=E/2 ::
00035000                        * ------------------------------------------------------------------
00035100  114  C04B E9          KKCTMPHI FCB    233             (    135) :004B: 'DEG C  ' COOLANT HIGH LIMIT
00035200                        *-                              ::EQU N=(E+40)*256/192 ::

00035400                        *          MALF 15 PARAMETERS
00035500                        * ------------------------------------------------------------------
00035600  115  C04C 04          KKETMPL  FCB    4               (    -37) :004C: 'DEG C  ' COOLANT LOW LIMIT
00035700                        *-                              ::EQU N=(E+40)*256/192 ::
00035800                        * ------------------------------------------------------------------
00035900  116  C04D 3C          KKETMPTL FCB    60              (    120) :004D: 'SEC    ' TIME SINCE RUN ENABL
00036000                        *-                              ::EQU N=E/2 ::

00036200                        *          MALF 14/15 PARAMETERS
00036300                        * ------------------------------------------------------------------
00036400  117  C04E 90          KKTCDF   FCB    144             (     68) :004E: 'DEG C  ' DEFAULT COOLANT
00036500                        *-                                         READING
00036600                        *-                              ::EQU N=(E+40)*256/192 ::
```

```
00036800                          *          MALF 21 PARAMETERS
00036900                          * ------------------------------------------------------------
00037000  118  C04F BF            KKTA21   FCB    191          (     191) :004F: 'AD CNTS'THROTTLE POSITION
00037100                          *-                                       :          LIMIT
00037200                          *-                                       :       ::EQU N=E ::
00037300                          * ------------------------------------------------------------
00037400  119  C050 34            KKRM21A  FCB    52           (    1300) :0050: 'RPM    ' ENGINE SPEED LIMIT
00037500                          *-                                       :       ::EQU N=E/25 ::
00037600                          * ------------------------------------------------------------
00037700  120  C051 64            KK21TIM  FCB    100          (      10) :0051: 'SEC    ' TIME LIMIT
00037800                          *-                                       :       ::EQU N=E*10 ::
00037900                          * ------------------------------------------------------------
00038000  121  C052 50            KKPM21   FCB    80           (    70.5) :0052: 'KPA    ' MAP LIMIT
00038100                          *-                                       :       ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E-
00038200                          *-                                       :              10.24 ::
00038300                          *-                                       :       ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E-
00038400                          *-                                       :              28.06 ::

00038600                          *          MALF 22 PARAMETERS
00038700                          * ------------------------------------------------------------
00038800  122  C053 0A            KKTA22   FCB    10           (      10) :0053: 'AD CNTS'  THROTTLE POSITION
00038900                          *-                                       :          LIMIT
00039000                          *-                                       :       ::EQU N=E ::

00039200                          *          MALF 24 PARAMETERS
00039300                          * ------------------------------------------------------------
00039400  123  C054 03            KKVSPDK  FCB    3            (       3) :0054: 'MPH    ' VEHICLE SPEED LIMIT
00039500                          *-                                       :       ::EQU N=E ::
00039600                          * ------------------------------------------------------------
00039700  124  C055 58            KKVRPMLA FCB    88           (    2200) :0055: 'RPM    ' ENGINE SPEED LOWER
00039800                          *-                                       :          LIMIT
00039900                          *-                                       :       ::EQU N=E/25 ::
00040000                          * ------------------------------------------------------------
00040100  125  C056 B0            KKVRPMHA FCB    176          (    4400) :0056: 'RPM    ' ENGINE SPEED UPPER
00040200                          *-                                       :          LIMIT
00040300                          *-                                       :       ::EQU N=E/25 ::
00040400                          * ------------------------------------------------------------
00040500  126  C057 35            KK24MAP  FCB    53           (      30) :0057: 'KPA    ' MAP LOAD LIMIT
00040600                          *-                                       :       ::EQU N=E*2.71-28.06 ::
00040700                          * ------------------------------------------------------------
00040800  127  C058 03            KKVST    FCB    3            (       3) :0058: 'SEC    ' TIME LIMIT
00040900                          *-                                       :       ::EQU N=E ::

00041100                          *          MALF 23 PARAMETERS
00041200                          * ------------------------------------------------------------
00041300  128  C059 FD            KKETMPLO FCB    253          (     -35) :0059: 'DEG C ' MAT LOW LIMIT
00041400                          *-                                       :       ::TBL3,ADMA!!K ::
00041500                          * ------------------------------------------------------------
00041600  129  C05A 14            KKETCTLO FCB    20           (     -25) :005A: 'DEG C ' COOLDEG THRESHOLD
00041700                          *-                                       :       ::EQU N=(E+40)*256/192 ::
00041800                          * ------------------------------------------------------------
```

```
130  C05B 81      KKMATDF  FCB   129        (     49) :005B: 'DEG C ' DEFAULT VALUE FOR MAT
                  *-                         :         ::TBL3,ADMAT1K ::
                  * ----------------------------------------------------------------
131  C05C 0064    KK23BSTM FDB   100        (      5) :005C: 'SEC   ' BOOST TIME THRESHOLD
                  *-                         :               FOR MALF 23
                  *-                         :         ::EQU N=E*20 ::
                  * ----------------------------------------------------------------
132  C05E FB      KKETMTLO FCB   251        (    -30) :005E: 'DEG C ' RAWADMT THRESHOLD
                  *-                         :         ::TBL3,ADMAT1K ::
                  * ----------------------------------------------------------------
133  C05F 93      KKETCTH  FCB   147        (     70) :005F: 'DEG C ' COLD THRESH FOR
                  *-                         :               DEFAULT MAT SIMULATION
                  *-                         :         ::EQU N=(E+40)*256/192 ::

                  *          MALF 25 PARAMETERS
                  * ----------------------------------------------------------------
134  C060 10      KKETMPHI FCB   16         (    135) :0060: 'DEG C ' MAT HIGH LIMIT
                  *-                         :         ::TBL3,ADMAT1K ::

                  *;**********************************************
                  *;*  MALF 32 PARAMETERS (DISABLE SOLENOID SYSTEM) *
                  *;**********************************************

                  * ----------------------------------------------------------------
135  C061 14      KKEGRTIM FCB   20         (     20) :0061: 'SEC   ' 1 SEC RESOLUTION,
                  *-                         :               DIAG. CYC
                  *-                         :         ::EQU N=E ::
                  * ----------------------------------------------------------------
136  C062 A0      KKEGRLLV FCB   160        (     30) :0062: 'KPA   ' LOW LOAD DISABLE
                  *-                         :               (NVACLD)
                  *-                         :         ::TBL4,0 ::
                  * ----------------------------------------------------------------
137  C063 D0      KKEGRHLV FCB   208        (     15) :0063: 'KPA   ' HIGH LOAD DISABLE
                  *-                         :               (NVACLD)
                  *-                         :         ::TBL4,0 ::
                  * ----------------------------------------------------------------
138  C064 10      KKEGRLLT FCB   16         (    6.3) :0064: '%     ' LOW TPS DISABLE
                  *-                         :         ::TBL4,3 ::
                  * ----------------------------------------------------------------
139  C065 50      KKEGRHLT FCB   80         (   31.3) :0065: '%     ' HIGH TPS DISABLE
                  *-                         :         ::TBL4,3 ::
                  * ----------------------------------------------------------------
140  C066 32      KKEGRDLT FCB   50         (      5) :0066: 'SEC   ' EGR M32 DELAY TIMER
                  *-                         :         ::EQU N=E*10 ::
                  * ----------------------------------------------------------------
141  C067 02      KKEGRDFA FCB   2          (      2) :0067: 'N     ' IS FAIL COUNTER
                  *-                         :               GREATER THAN TH
                  *-                         :         ::EQU N=E ::
                  * ----------------------------------------------------------------
142  C068 07      KKEGRTDL FCB   7          (    2.7) :0068: '%     ' TPS CHANGE TO
                  *-                         :               DISALLOW DIAGNOS
                  *-                         :         ::EQU N=E*2.56 ::
```

DATA

```
                        * -----------------------------------------------------------
143  C069 00            KKEGRSPK FCB    0            (        0) :0069: 'DEG    ' EGR DIAGNOSTIC SPARK
                        *-                           :                  RETARD
                        *-                           :           ::EQU N=E*256/90 ::
                        * -----------------------------------------------------------
144  C06A 25            KK32TIME FCB    37           (      3.7) :006A: 'SEC    ' EGR M32 TIME
                        *-                           :                  INTEGRATOR TEST
                        *-                           :           ::EQU N=E*10 ::
                        * -----------------------------------------------------------
145  C06B 06            KK32DL   FCB    6            (        6) :006B: 'N      ' INT COUNT CHANGE FOR
                        *-                           :                  EGR FAULT
                        *-                           :           ::EQU N=E ::
                        * -----------------------------------------------------------
146  C06C 03            KKINTCH  FCB    3            (        3) :006C: 'N      ' MAX INT CHANGE
                        *-                           :                  ALLOWED TO START
                        *-                           :           ::EQU N=E ::
                        * -----------------------------------------------------------
147  C06D 32            KKEGRMPH FCB    50           (       50) :006D: 'MPH    ' VEHICLE SPEED
                        *-                           :                  THRESHOLD TO E
                        *-                           :           ::EQU N=E ::
                        * -----------------------------------------------------------
148  C06E 01            KKEGRDEC FCB    1            (        1) :006E: 'N      ' FAIL COUNTER
                        *-                           :                  DECREMENT RATE
                        *-                           :           ::EQU N=E ::
                        * -----------------------------------------------------------
149  C06F A5            KKMEGRDC FCB    165          (     64.4) :006F: '%      ' MIN EGRDC FOR M32 TO
                        *-                           :                  BE RUN
                        *-                           :           ::EQU N=E*2.56 ::

                        *            MALF 33 PARAMETERS
                        * -----------------------------------------------------------
150  C070 04            KKTA33   FCB    4            (      1.6) :0070: '%      ' THROTTLE POSITION
                        *-                           :                  LIMIT
                        *-                           :           ::EQU N=E*2.56 ::
                        *********THE FOLLOWING TWO PARAMETERS MUST BE IN ORDER ********
                        * -----------------------------------------------------------
151  C071 56            KKPM33   FCB    86           (       75) :0071: 'KPA    ' MAP LIMIT
                        *-                           :           ::IF(LAND(KAFOPT3,$20).NE.O)N=1.28*E
                        *-                           :                  10.24 ::
                        *-                           :           ::IF(LAND(KAFOPT3,$20).EQ.O)N=2.71*E-
                        *-                           :                  28.06 ::
                        * -----------------------------------------------------------
152  C072 63            KKPMAC33 FCB    99           (       85) :0072: 'KPA    ' MAP LIMIT WITH A/C ON
                        *-                           :           ::IF(LAND(KAFOPT3,$20).NE.O)N-1.28*E
                        *-                           :                  10.24 ::
                        *-                           :           ::IF(LAND(KAFOPT3,$20).EQ.O)N=2.71*E-
                        *-                           :                  28.06 ::
                        *********THE PRECEDING TWO PARAMETERS MUST BE IN ORDER ********
                        * -----------------------------------------------------------
153  C073 30            KK33TIM  FCB    48           (      4.8) :0073: 'SEC    ' TIME LIMIT
                        *-                           :           ::EQU N=E*10 ::
                        * -----------------------------------------------------------
```

```
154  C074 0F        KKM33CNT FCB     15              (      1.5) :0074: 'SEC     ' HIGH MAP TIME
                                                                        THRESHOLD
                *-                                       :
                *-                                       :              ::EQU N=E*10 ::

                *               MALF 34 PARAMETERS
                *---------------------------------------------------------------
155  C075 07        KKPM34   FCB     7               (     13.5) :0075: 'KPA     ' MAP LIMIT
                                                         :              ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E
                *-                                       :                  10.24 ::
                *-                                       :              ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E-
                *-                                       :                  28.06 ::
                *-
                *---------------------------------------------------------------
156  C076 30        KKES34A  FCB     48              (     1200) :0076: 'RPM     ' ENGINE SPEED LIMIT
                *-                                       :              ::EQU N=E/25 ::
                *---------------------------------------------------------------
157  C077 02        KK34TIM  FCB     2               (     0.02) :0077: 'SEC     ' TIME LIMIT
                *-                                       :              ::EQU N=E*80 ::
                *---------------------------------------------------------------
158  C078 33        KKTA34   FCB     51              (       20) :0078: '%       ' THROTTLE POSITION
                *-                                       :                  LIMIT
                *-                                       :              ::EQU N=E*2.56 ::
                *---------------------------------------------------------------
159  C079 62        KKPMDF   FCB     98              (     84.6) :0079: 'KPA     ' DEFAULT MAP READING
                                                                        FOR ENGINE NOT RUNNING
                *-                                       :              ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E-
                *-                                       :                  10.24 ::
                *-                                       :              ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E
                *-                                       :                  28.06 ::
                *-

                *               MALF 33/34 PARAMETERS
                *-                                   MAP DEFAULT = (KKA * NTPSID) + F69(NTRPMX)
                *-                                   RANGE OF KKA IS 0-2
                *---------------------------------------------------------------
160  C07A 31        KKA      FCB     49              (     0.38) :007A: 'COEF    ' MAP DEFAULT A COEF
                *-                                       :              ::EQU N=E*128 ::
                *---------------------------------------------------------------
161  C07B D5        KK2ATM33 FCB     213             (    174.4) :007B: 'KPA     ' 2 ATMS MAP THRESHOLD
                *-                                       :              ::EQU N=1.28*E-10.24 ::
                *---------------------------------------------------------------
162  C07C 10        KKPMACON FCB     16              (     12.5) :007C: 'KPA     ' A/C LOAD ADJUSTMENT
                                                                        TO MAP DEFAULT COMPUTATION
                *-                                       :              ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E
                *-                                       :                  ::
                *-                                       :              ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E
                *-                                       :                  ::
                *---------------------------------------------------------------
163  C07D 0A        KKDRMAP  FCB     10              (        8) :007D: 'KPA     ' P/N OFF DELTA MAP
                                                                        DEFAULT VALUE
                *-                                       :              ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E
                *-                                       :                  ::
                *-                                       :              ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E
                *-                                       :                  ::
```

DATA

```
                   * -------------------------------------------------------------
164  C07E 40       KDMPINTR FCB    64                (         4) :007E: 'FACTOR' FACTOR FOR DECREASING
                   *-                                :                C/L INT DELAY
                   *-                                :            ::IF(E.EQ.0)N=0 ::
                   *-                                :                DURING DEFAULT MAP OPERATION
                   *-                                :            ::IF(E.NE.0)N=255/E ::

                   ***************************************
                   *                                     *
                   * F69                                 *
                   *     TABLE OF OFFSET TERMS TO GET    *
                   *     MAP DEFAULT VALUE (KKB) AS      *
                   *     F(RPM).                         *
                   *                                     *
                   ***************************************
                                                                  ::PROTECT ::
                   *-                                :            ::TBL2D,5,2,TBL7,1,4,'COUNTS' ::
                   *-                                :
                   * -------------------------------------------------------------
165  C07F 04       F69      FCB    4                 (         4) :007F: '        ' USE 5 VALUE TABLE
                   *-                                :            ::EQU N=E ::
                   *-                                :            ::NOPROTECT ::
                   * -------------------------------------------------------------
166  C080 4A                FCB    74                (        74) :0080: 'COUNTS'      0    RPM-SPEED
                   *-                                :            ::EQU N=E ::
167  C081 3A                FCB    58                (        58) :0081: 'COUNTS'   1600
168  C082 2A                FCB    42                (        42) :0082: 'COUNTS'   3200
169  C083 36                FCB    54                (        54) :0083: 'COUNTS'   4800
170  C084 2A                FCB    42                (        42) :0084: 'COUNTS'   6400

                   ***********************************************
                   *                                             *
                   * F78 TABLE                                   *
                   *     TABLE OF NTPSLD TERMS TO GET            *
                   *     TPS DEFAULT VALUE AS A F(RPM)           *
                   *                                             *
                   *     TABLE VALUE = % FULL THROTTLE * 2.56    *
                   *                                             *
                   ***********************************************
                                                     :            ::TBL2D,6,TBL27,1,'%' ::
                   *-
                   * -------------------------------------------------------------
171  C085 00       F78A     FCB    0                 (         0) :0085: '%        '  1000   RPM-SPEED
                   *-                                :            ::EQU N=E*2.56 ::
172  C086 30                FCB    48                (      18.8) :0086: '%        '  1800
173  C087 47                FCB    71                (      27.7) :0087: '%        '  2600
174  C088 54                FCB    84                (        33) :0088: '%        '  3400
175  C089 5C                FCB    92                (        36) :0089: '%        '  4200
176  C08A 61                FCB    97                (        38) :008A: '%        '  5000

                   *             MALF 35 PARAMETERS
                   * -------------------------------------------------------------
```

DATA

```
177  C08B 05      KK35DLTB FCB     5                 (       63) :008B: 'RPM     ' MALF 35 RPM DELTA
                  *-                                 :           ::EQU N=E/12.5 ::
                  * -------------------------------------------------------------------------
178  C08C 5A      KK35MXMP FCB     90                (       90) :008C: 'STEPS  ' MALF 35 MAXIMUM MOTOR
                  *-                                 :                   POSITION
                  *-                                 :           ::EQU N=E ::
                  * -------------------------------------------------------------------------
179  C08D 12      KKIADIAG FCB     18                (      225) :008D: 'RPM     ' IAC RPM MALF 35
                  *-                                 :                   DIAGNOSTIC ERROR THRESHOLD
                  *-                                 :           ::EQU N=E/12.5 ::
                  * -------------------------------------------------------------------------
180  C08E 60      KK35TIME FCB     96                (     19.2) :008E: 'SEC     ' IAC MALF 35
                  *-                                 :                   DIAGNOSTIC TIME THRESHOLD
                  *-                                 :           ::EQU N=E*5 ::

                  *            MALF 42 PARAMETERS
                  * -------------------------------------------------------------------------
181  C08F 1A      KK42RMA  FCB     26                (      650) :008F: 'RPM     ' ENGINE SPEED LIMIT
                  *-                                 :           ::EQU N=E/25 ::
                  * -------------------------------------------------------------------------
182  C090 09      KK42ACT  FCB     9                 (        9) :0090: 'CNTS    ' NUMBER OF ESTFBCTR
                  *-                                 :                   COUNTS FOR A MALF 42A
                  *-                                 :           ::EQU N=E ::
                  *      A SPARK COUNTER WILL BE INCREMENTED ONCE PER REFERENCE
                  *      PULSE IF THERE IS ACTIVITY ON THE EST FEEDBACK LINE.
                  *      BEFORE EST IS ENABLED AT START-UP  THERE SHOULD
                  *      BE NO PULSES ON THE  EST MONITOR .  IF MORE THAN
                  *      KK42ACT  COUNTS OCCUR BETWEEN INITIALIZATION AND
                  *      THE MALF 42A LOGIC THEN MALF 42 WILL BE FLAGGED AND
                  *      AND EST WON'T BE ENABLED.

                  * -------------------------------------------------------------------------
183  C091 08      KK42PLWD FCB     8                 (   0.0005) :0091: 'SEC     ' SPARK PULSE WIDTH
                  *-                                 :                   THRESHOLD
                  *-                                 :           ::EQU N=E*16384 ::
                  *      THE EST FEEDBACK SIGNAL GOES INTO A PULSE INTEGRATOR
                  *      IN THE ECU CHIP.  THIS MEANS THAT AS LONG AS THE SIGNAL
                  *      IS HIGH , THE PA2CTR REGISTER INCREMENTS AT A 16KHZ RATE.
                  *      WHEN THE SIGNAL GOES LOW, THE COUNTER STOPS.  TO
                  *      TO DISCRIMINATE BETWEEN NOISE AND A REAL EST PULSE THE
                  *      PA2CTR IS READ AFTER EVERY REFERENCE PULSE AND THE
                  *      DIFFERENCE IS CALCULATED BETWEEN THE CURRENT  AND THE OLD
                  *      VALUE.  THIS DIFFERENCE MUST BE GREATER THAN KK42PLWD
                  *      IN ORDER FOR THE PULSE COUNTER  (ESTFBCTR) TO INCREMENT.

                  *            MALF 43 PARAMETERS
                  * -------------------------------------------------------------------------
184  C092 FF      KKESCP   FCB     255               (     3.98) :0092: 'SEC     ' PULSE ACCUMULATOR
                  *-                                 :                   LIMIT
                  *-                                 :           ::EQU N=E*64 ::
                  * -------------------------------------------------------------------------
185  C093 17      KKRTDF   FCB     23                (        4) :0093: 'DEG     ' ESC FAILURE DEFAULT
```

```
                                                                 RETARD(256 = 45 DEG)
                         *-                            :    ::EQU N=E*256/45 ::
                         *-                            :
                         * -------------------------------------------------------
186  C094 B5             KKM43ATH FCB    181           (        181) :0094: 'CTS    ' IF ESC A/D COUNTS >
                         *-                            :                         KKM43ATH,
                         *-                            THEN SET A MALF 43
                         *-                            :    ::EQU N=E ::
                         * -------------------------------------------------------
187  C095 48             KKM43ATL FCB    72            (         72) :0095: 'CTS    ' IF ESC A/D COUNTS <
                         *-                            :                         KKM43ATL,
                         *-                            THEN SET A MALF 43
                         *-                            :    ::EQU N=E ::
                         * -------------------------------------------------------
188  C096 19             KKM43ATM FCB    25            (          5) :0096: 'SEC    ' IF ESC LINE HIGH FOR
                         *-                            :                         THIS LONG SET M43
                         *-                            :    ::EQU N=E*5 ::

                         *           MALF 44/45 PARAMETERS
                         * -------------------------------------------------------
189  C097 32             KK45TIM  FCB    50            (         50) :0097: 'SEC    ' MALF 45  TIME
                         *-                            :                         THRESHOLD
                         *-                            :    ::EQU N=E ::
                         * -------------------------------------------------------
190  C098 2D             KKO2MIN  FCB    45            (        0.2) :0098: 'VOLTS ' O2 SENSOR LOW LIMIT
                         *-                            :    ::EQU N=E*226 ::
                         * -------------------------------------------------------
191  C099 A9             KKO2MAX  FCB    169           (      0.748) :0099: 'VOLTS ' O2 SENSOR HIGH LIMIT
                         *-                            :    ::EQU N=E*226 ::
                         * -------------------------------------------------------
192  C09A 10             KADO2AF  FCB    16            (      0.063) :009A: 'COEF   ' MINOR LOOP O2 SENSOR
                         *-                            :                         FILTER CONSTANT, (0-1)
                         *-                            :    ::EQU N=E*256 ::
                         *
                         *  THE ORDER OF THE FOLLOWING 2 PARAMETERS MUST BE PRESERVED
                         *
                         * -------------------------------------------------------
193  C09B 32             KK44TIMS FCB    50            (         50) :009B: 'SEC    ' MALF 44 SLOW
                         *-                            :                         INTEGRATOR RATE TIME THRESHOLD
                         *-                            :    ::EQU N=E ::
                         * -------------------------------------------------------
194  C09C 10             KK44TIMF FCB    16            (         16) :009C: 'SEC    ' MALF 44 FAST
                         *-                            :                         INTEGRATOR RATE TIME THRESHOLD
                         *-                            :    ::EQU N=E ::
                         *
                         *  THE ORDER OF THE PREVIOUS 2 PARAMETERS MUST BE PRESERVED
                         *

                         *           MALF 53 PARAMETERS
                         * -------------------------------------------------------
195  C09D 64             KK53TIM  FCB    100           (         10) :009D: 'SEC    ' TIME FOR MALF 53
                         *-                            :                         CONDITION BEFORE FLAGGING
                         *-                            :    ::EQU N=E*10 ::
                         *-
```

DATA

```
                           *********************************
                           *  A/C CLUTCH ENABLE PARAMETERS *
                           *********************************

                           * ---------------------------------------------------------------------
196  C09E FF               KACTIM1  FCB     255                (     25.5) :009E: 'SEC    ' DELAY TIME FOR HIGH
                           *-                                  :                RPM A/C DISABLE
                           *-                                  :           ::EQU N=E*10 ::
                           * ---------------------------------------------------------------------
197  C09F FF               KACTIM2  FCB     255                (     25.5) :009F: 'SEC    ' DURABILITY DELAY FOR
                           *-                                  :                HIGH RPM A/C ENGAGEMENT
                           *-                                  :           ::EQU N=E*10 ::
                           * ---------------------------------------------------------------------
198  C0A0 FF               KRPMDUR  FCB     255                (     6375) :00A0: 'RPM    ' DURABILITY RPM THRESH
                           *-                                  :                FOR HI RPM A/C ENGAGE
                           *-                                  :           ::EQU N=E/25 ::
                           * ---------------------------------------------------------------------
199  C0A1 FE               KACDISTH FCB     254                (     99.2) :00A1: '%      ' THROTTLE POSITION
                           *-                                  :                THRESHOLD
                           *-                                  :           ::EQU N=E*2.56 ::
                           * ---------------------------------------------------------------------
200  C0A2 EE               KACDISTL FCB     238                (       93) :00A2: '%      ' THROTTLE POSITION
                           *-                                  :                THRESHOLD
                           *-                                  :           ::EQU N=E*2.56 ::
                           * ---------------------------------------------------------------------
201  C0A3 CF               KACTEML  FCB     207                (      115) :00A3: 'DEG C  ' HOT A/C DISABLE TEMP
                           *-                                  :                THRESH, LOWER
                           *-                                  :           ::EQU N=(E+40)*256/192 ::
                           * ---------------------------------------------------------------------
202  C0A4 D5               KACTEMH  FCB     213                (      120) :00A4: 'DEG C  ' HOT A/C DISABLE TEMP
                           *-                                  :                THRESH, HIGHER
                           *-                                  :           ::EQU N=(E+40)*256/192 ::
                           * ---------------------------------------------------------------------
203  C0A5 00               KACLMPHL FCB     0                  (        0) :00A5: 'MPH    ' A/C LAUNCH MPH
                           *-                                  :                THRESHHOLD, LOWER VALUE
                           *-                                  :           ::EQU N=E*3.2 ::
                           * ---------------------------------------------------------------------
204  C0A6 00               KACLMPHH FCB     0                  (        0) :00A6: 'MPH    ' A/C LAUNCH MPH
                           *-                                  :                THRESHHOLD, HIGHER VALUE
                           *-                                  :           ::EQU N=E*3.2 ::
                           * ---------------------------------------------------------------------
205  C0A7 FF               KACLTPSL FCB     255                (     99.6) :00A7: '%      ' A/C LAUNCH TPS
                           *-                                  :                THRESHHOLD, LOWER VALUE
                           *-                                  :           ::EQU N=E*2.56 ::
                           * ---------------------------------------------------------------------
206  C0A8 FF               KACLTPSH FCB     255                (     99.6) :00A8: '%      ' A/C LAUNCH TPS
                           *-                                  :                THRESHHOLD, HIGHER VALUE
                           *-                                  :           ::EQU N=E*2.56 ::
                           * ---------------------------------------------------------------------
207  C0A9 03               KACSUDLY FCB     3                  (        3) :00A9: 'SEC    ' A/C START UP ENGAGE
                           *-                                  :                DELAY
                           *-                                  :           ::EQU N=E ::
```

```
::P0188B GMCM MACRO CROSS-ASSEMBLER RELEASE 4.04  DATASET: GMCM
        SECURE LIBRARY PROGRAM AND LEVEL: P0188BAB01
DATA
00078400                        * ------------------------------------------------------------
00078500  208  COAA 04          KACTIMER FCB    4               (      0.4) :00AA: 'SEC    ' A/C DELAY TIME
00078600                        *-                              :           ::EQU N=E*10 ::
00078800                        ********THE FOLLOWING TWO PARAMETERS MUST BE IN ORDER**********
00078900                        * ------------------------------------------------------------
00079000  209  COAB FF          KACRPML  FCB    $FF             (    $18E7) :00AB: 'RPM    ' RPM THRESHOLD PAIR
00079100                        *-                              :                 FOR A/C CLUTCH
00079200                        *-                              :           ::EQU N=E/25 ::          A/C CLUTCH
00079300                        *-                              :                 DISABLED WHEN THRESHOLD
00079400                        *-                              :                 EXCEEDED
00079500                        * ------------------------------------------------------------
00079600  210  COAC FF          KACRPMH  FCB    $FF             (    $18E7) :00AC: 'RPM    ' RPM THRESHOLD PAIR
00079700                        *-                              :                 FOR A/C CLUTCH
00079800                        *-                              :           ::EQU N=E/25 ::          A/C CLUTCH
00079900                        *-                              :                 DISABLED WHEN THRESHOLD
00080000                        *-                              :                 EXCEEDED
00080100                        ********THE PRECEDING TWO PARAMETERS MUST BE IN ORDER**********
00080300                        *********************************
00080400                        *   FAN CONTROL PARAMETERS      *
00080500                        *********************************
00080700                        *
00080800                        *  THE ORDER OF THE FOLLOWING 4 PARAMETERS MUST BE PRESERVED
00080900                        *
00081000                        * ------------------------------------------------------------
00081100  211  COAD 60          KFANVSLK FCB    96              (      30) :00AD: 'MPH    ' FAN ENABLE MPH
00081200                        *-                              :                 THRESHOLD, LOWER VALUE
00081300                        *-                              :           ::EQU N=E*3.2 ::
00081400                        * ------------------------------------------------------------
00081500  212  COAE BB          KFANCLTH FCB    187             (     100) :00AE: 'DEG    ' FAN ENABLE TEMP
00081600                        *-                              :                 THRESHOLD, HIGHER VALUE
00081700                        *-                              :           ::EQU N=(E+40)*256/192 ::
00081800                        * ------------------------------------------------------------
00081900  213  COAF 70          KFANVSHK FCB    112             (      35) :00AF: 'MPH    ' FAN ENABLE MPH
00082000                        *-                              :                 THRESHOLD, HIGHER VALUE
00082100                        *-                              :           ::EQU N=E*3.2 ::
00082200                        * ------------------------------------------------------------
00082300  214  COBO B8          KFANCLTL FCB    184             (      98) :00BO: 'DEG    ' FAN ENABLE TEMP
00082400                        *-                              :                 THRESHOLD, LOWER VALUE
00082500                        *-                              :           ::EQU N=(E+40)*256/192 ::
00082600                        *
00082700                        *  THE ORDER OF THE PRECEDING 4 PARAMETERS MUST BE PRESERVED
00082800                        *
00083000                        *
00083100                        *  THE ORDER OF THE FOLLOWING 2 PARAMETERS MUST BE PRESERVED
00083200                        *
00083300                        * ------------------------------------------------------------
00083400  215  COB1 CO          KFANCTHL FCB    192             (     104) :00B1: 'DEG C  ' HOT FAN ENABLE TEMP
```

```
                                                                      THRESH, LOWER
                              *-                            :       ::EQU N=(E+40)*256/192 ::
                              *-                            :
                              *------------------------------------------------------------------
216  C0B2 C7                  KFANCTHH FCB     199          (     109) :00B2: 'DEG C ' HOT FAN ENABLE TEMP
                              *-                            :              THRESH, HIGHER
                              *-                            :       ::EQU N=(E+40)*256/192 ::
                              *
                              *  THE ORDER OF THE PRECEDING 2 PARAMETERS MUST BE PRESERVED
                              *

                              *
                              *  THE ORDER OF THE FOLLOWING 4 PARAMETERS MUST BE PRESERVED
                              *

                              *------------------------------------------------------------------
217  C0B3 00                  KFANCTCL FCB     0            (     -40) :00B3: 'DEG C ' COLD FAN ENABLE TEMP
                              *-                            :              THRESH, COOLANT, LOW
                              *-                            :       ::EQU N=(E+40)*256/192 ::
                              *------------------------------------------------------------------
218  C0B4 00                  KFANCTCH FCB     0            (     -40) :00B4: 'DEG C ' COLD FAN ENABLE TEMP
                              *-                            :              THRESH, COOLANT, HIGH
                              *-                            :       ::EQU N=(E+40)*256/192 ::
                              *------------------------------------------------------------------
219  C0B5 FF                  KFANMTCL FCB     255          (     -40) :00B5: 'DEG C ' COLD FAN ENABLE TEMP
                              *-                            :              THRESH, MAT, LOW
                              *-                            :       ::TBL3,ADMATIK ::
                              *------------------------------------------------------------------
220  C0B6 FF                  KFANMTCH FCB     255          (     -40) :00B6: 'DEG C ' COLD FAN ENABLE TEMP
                              *-                            :              THRESH, MAT, HIGH
                              *-                            :       ::TBL3,ADMATIK ::

                              *
                              *  THE ORDER OF THE PREVIOUS 4 PARAMETERS MUST BE PRESERVED
                              *
                              *------------------------------------------------------------------
221  C0B7 06                  KFANDS1  FCB     6            (       6) :00B7: 'STEPS ' FAN ANTICIPATE MOTOR
                              *-                            :              POSITION OFFSET
                              *-                            :       ::EQU N=E ::
                              *------------------------------------------------------------------
222  C0B8 01                  KFANDS2  FCB     1            (       1) :00B8: 'STEPS ' FAN ANTICIPATE MODE
                              *-                            :              DECAY DELTA
                              *-                            :       ::EQU N=E ::
                              *------------------------------------------------------------------
223  C0B9 09                  KFANCLC1 FCB     9            (       2) :00B9: 'SEC   ' 1ST TIME DECAY RATE
                              *-                            :              FOR FAN ANTICIPATE RECOVERY
                              *-                            :       ::EQU N=E*5-1 ::
                              *------------------------------------------------------------------
224  C0BA 04                  KFANCLC2 FCB     4            (       1) :00BA: 'SEC   ' DECAY RATE FOR FAN
                              *-                            :              ANTICIPATE RECOVERY (NOT 1ST)
                              *-                            :       ::EQU N=E*5-1 ::
                              *------------------------------------------------------------------
225  C0BB 0A                  KFANTIM1 FCB     10           (       1) :00BB: 'SEC   ' FAN ON DELAY AFTER
```

```
::P0188B GMCM MACRO CROSS-ASSEMBLER RELEASE 4.04  DATASET: [illegible]      [illegible]
         SECURE LIBRARY PROGRAM AND LEVEL: P0188BAB01
DATA

                              *-                                  :              FAN ON CONDITIONS MET
                              *-                                  :          ::EQU N=E+10 ::


                              *#############################################
                              *     F83 TABLE                               #
                              *                                             #
                              *  FAN ON TIMER ADJUSTMENT VS.  ADMAT1K'      #
                              *                                             #
                              *   TABLE VALUE =  SECONDS * 80               #
                              *                                             #
                              *#############################################
                                                                            ::PROTECT ::
                              *-                                  :         ::TBL2D,5,2,TBL43,1,4,'SEC' ::
                              *-
                              * -----------------------------------------------------------
       226  C0BC 04           F83      FCB    4                   (       4) :00BC: '        ' USE 5 VALUE TABLE
                              *-                                  :         ::EQU N=E ::
                              *-                                  :         ::NOPROTECT ::
                              * -----------------------------------------------------------
       227  C0BD 08                    FCB    8                   (     0.1) :00BD: 'SEC     '  COLD  DEG C-TEMP
                              *-                                  :         ::EQU N=E+80 ::
       228  C0BE 08                    FCB    8                   (     0.1) :00BE: 'SEC     '  23.5
       229  C0BF 06                    FCB    6                   (    0.07) :00BF: 'SEC     '  49.3
       230  C0C0 06                    FCB    6                   (    0.07) :00C0: 'SEC     '  80.0
       231  C0C1 06                    FCB    6                   (    0.07) :00C1: 'SEC     '  HOT


                              *#############################################
                              *     F84 TABLE                               #
                              *                                             #
                              *  FAN ON TIMER ADJUSTMENT V.S. ADMAT1K'      #
                              *                                             #
                              *   TABLE VALUE = SECONDS * 80                #
                              *                                             #
                              *#############################################
                                                                            ::PROTECT ::
                              *-                                  :         ::TBL2D,5,2,TBL43,1,4,'SEC' ::
                              *-
                              * -----------------------------------------------------------
       232  C0C2 04           F84      FCB    4                   (       4) :00C2: '        ' USE 5 VALUE TABLE
                              *-                                  :         ::EQU N=E ::
                              *-                                  :         ::NOPROTECT ::
                              * -----------------------------------------------------------
       233  C0C3 00                    FCB    0                   (       0) :00C3: 'SEC     '  COLD  DEG C-TEMP
                              *-                                  :         ::EQU N=E+80 ::
       234  C0C4 04                    FCB    4                   (    0.05) :00C4: 'SEC     '  23.5
       235  C0C5 08                    FCB    8                   (     0.1) :00C5: 'SEC     '  49.3
       236  C0C6 0C                    FCB    12                  (    0.15) :00C6: 'SEC     '  80.0
       237  C0C7 0F                    FCB    15                  (    0.19) :00C7: 'SEC     '  HOT
```

```
                                  *                            (    89.7) :00C8: 'KPA    ' MAP THRESHOLD FOR
  238  C0C8 D7                    KMAPINC   FCB    215          :              INCREMENTING FAN TIMER
                                  *-                            :      ::EQU N=2.71*E-28.06 ::
                                  *-
                                  *                            (    40) :00C9: 'KPA    ' MAP THRESHOLD FOR
  239  C0C9 50                    KMAPDEC   FCB    80           :              DECREMENTING FAN TIMER
                                  *-                            :      ::EQU N=2.71*E-28.06 ::
                                  *-
                                  *                            (   480) :00CA: 'SEC    ' MAX TIME FOR FAN ON
  240  C0CA 9600                  KMAXTIME  FDB    38400        :              AFTER IGN. OFF
                                  *-                            :      ::EQU N=E*80 ::
                                  *-
                                  *                            (    20) :00CC: 'SEC    ' MIN TIME FOR FAN ON
  241  C0CC 0640                  KMINTIME  FDB    1600         :              AFTER IGN. OFF
                                  *-                            :      ::EQU N=E*80 ::
                                  *-
                                  *                            (    60) :00CE: 'SEC    ' DELAY BEFORE FAN IS
  242  C0CE 0258                  KFANTIM2  FDB    600          :              TURNED OFF IF A/C WAS ON
                                  *-                            :      ::EQU N=E*10 ::
                                  *-
```

```
         SECURE LIBRARY PROGRAM AND LEVEL: P0188BAB01
DATA
00095600                        ********************************************************
00095700                        *   TRANSMISSION LOCKUP PARAMETERS AND TABLES           *
00095800                        ********************************************************

00096000  243        CODO       LCCPAR   EQU    *

00096200                        * ---------------------------------------------------------------------
00096300  244  CODO 8C           KTCCTMPL FCB    140             (      65) :OODO: 'DEG C ' TCC LOWER TEMPERATURE
00096400                        *-                              :             LIMIT
00096500                        *-                              :        ::EQU N=(E+40)*256/192 ::
00096600                        * ---------------------------------------------------------------------
00096700  245  COD1 05           KCOASTHZ FCB    5               (       2) :OOD1: '%     ' TCC HYSTERESIS FOR
00096800                        *-                              :             KCOAST1 AND KCOAST2
00096900                        *-                              :      ::EQU N=E*2.56 ::
00097000                        * ---------------------------------------------------------------------
00097100  246  COD2 50           KRSCSTK  FCB    80              (      25) :OOD2: 'MPH   ' TCC ROAD SPEED COAST
00097200                        *-                              :             LEVEL
00097300                        *-                              :      ::EQU N=E*3.2 ::
00097400                        * ---------------------------------------------------------------------
00097500  247  COD3 OA           KCOAST1A FCB    10              (       4) :OOD3: '%     ' TCC LOW-MPH COAST
00097600                        *-                              :             LOAD LIMIT
00097700                        *-                              :      ::EQU N=E*2.56 ::
00097800                        * ---------------------------------------------------------------------
00097900  248  COD4 OA           KCOAST2A FCB    10              (       4) :OOD4: '%     ' TCC HIGH-MPH COAST
00098000                        *-                              :             LOAD LIMIT
00098100                        *-                              :      ::EQU N=E*2.56 ::
00098200                        * ---------------------------------------------------------------------
00098300  249  COD5 FF           KREL1A   FCB    255             (    99.6) :OOD5: ' %     ' TCC NEGATIVE DELTA
00098400                        *-                              :             THROTTLE POS. UNLOCK LIMIT
00098500                        *-                              :      ::EQU N=E*2.56 ::
00098600                        * ---------------------------------------------------------------------
00098700  250  COD6 15           KREL2A   FCB    21              (     8.2) :OOD6: ' %     ' TCC POSITIVE DELTA
00098800                        *-                              :             THROTTLE POS. UNLOCK LIMIT
00098900                        *-                              :      ::EQU N=E*2.56 ::
00099000                        * ---------------------------------------------------------------------
00099100  251  COD7 19           KLCKDLYT FCB    25              (     2.5) :OOD7: 'SEC   ' TCC DELAY BEFORE LOCK
00099200                        *-                              :             ENABLED AFTER COND. MET
00099300                        *-                              :      ::EQU N=E*10 ::
00099400                        * ---------------------------------------------------------------------
00099500  252  COD8 00           KLKDLYT2 FCB    0               (       0) :OOD8: 'SEC   ' TCC COAST RELEASE
00099600                        *-                              :             LOCK DELAY TIME LOW ROAD SPEED
00099700                        *-                              :      ::EQU N=E*10 ::
00099800                        * ---------------------------------------------------------------------
00099900  253  COD9 00           KLKDLYT3 FCB    0               (       0) :OOD9: 'SEC   ' TCC COAST RELEASE
00100000                        *-                              :             LOCK DELAY TIME III ROAD SPEED
00100100                        *-                              :      ::EQU N=E*10 ::
00100200                        *
00100300                        * N.B. THE ORDER OF THE FOLLOWING 2 PARAMETERS MUST BE PRESERVED
00100400                        *
00100500                        * ---------------------------------------------------------------------
00100600  254  CODA 86           KRSHNTHK FCB    134             (      42) :OODA: 'MPH   ' TCC ROAD SPEED UPPER
00100700                        *-                              :             LIMIT FOR LOCK,3RD GEAR
```

DATA

```
                          *-                              :                            ,0) ::
                          * ----------------------------------------------------------------
 63  C00A 0A97            KRPMUP   FDB    2711            (      725.2) :000A: 'RPM    ' # OF 65 KHZ COUNTS =
                          *-                              :                   STARTUP RPM-SPARK
                          *-                              :             ::IF(E.EQ.0)N=E ::
                          *-                              :             ::IF(E.NE.0)N=65536*120/(E*KNUMCYL)
                          *-                              :                   ::
                          * ----------------------------------------------------------------
 64  C00C 15F1            KFUELUP  FDB    5617            (        350) :000C: 'RPM    ' # OF 65 KHZ COUNTS =
                          *-                              :                   STARTUP RPM-FUEL
                          *-                              :             ::IF(E.EQ.0)N=E ::
                          *-                              :             ::IF(E.NE.0)N=65536*120/(E*KNUMCYL)
                          *-                              :                   ::

                          ***********************
                          *    EST PARAMETERS    *
                          ***********************
                          * ----------------------------------------------------------------
 65  C00E 00              KREFANGL FCB    0               (          0) :000E: 'DEG    ' SPARK REFERENCE ANGLE
                          *-                              :             ::EQU N=E*256/90 ::
                          * ----------------------------------------------------------------
 66  C00F E8              KRPMXHI  FCB    232             (       5800) :000F: 'RPM    ' F1 TABLE EXTENSION HI
                          *-                              :                   RPM BREAKPOINT
                          *-                              :             ::EQU N=E/25 ::
                          * ----------------------------------------------------------------
 67  C010 5F              KADVSLHI FCB    95              (       10.4) :0010: 'DEG/K ' (DEG/THOUSAND RPM) HI
                          *-                              :                   RPM ADVANCE SLOPE
                          *-                              :             ::EQU N=E*65536/7200 ::
                          * ----------------------------------------------------------------
 68  C011 D0              KFILTMP1 FCB    208             (      0.813) :0011: 'COEF   ' MAP FILTER
                          *-                              :                   COEFFICIENT, ENGINE RUNNING (0
                          *-                              :                   -1)
                          *-                              :             ::EQU N=E*256 ::
                          * ----------------------------------------------------------------
 69  C012 3A              KFILTMP2 FCB    58              (      0.227) :0012: 'COEF   ' MAP FILTER
                          *-                              :                   COEFFICIENT, ENG NOT RUNNING,
                          *-                              :                   (0-1)
                          *-                              :             ::EQU N=E*256 ::
                          * ----------------------------------------------------------------
 70  C013 F8              KFILTMPH FCB    248             (       0.97) :0013: 'COEF   ' LAG FILTER
                          *-                              :                   COEFFICIENT FOR NMPH, N.D. (0-
                          *-                              :                   1)
                          *-                              :             ::EQU N=E*256 ::
                          * ----------------------------------------------------------------
 71  C014 A0              KFILTRPM FCB    160             (      0.625) :0014: 'COEF   ' RPM FILTER TIME
                          *-                              :                   CONSTANT, N.D. (0-1)
                          *-                              :             ::EQU N=E*256 ::
                          * ----------------------------------------------------------------
 72  C015 02              KFTES125 FCB    2               (      0.008) :0015: 'COEF   ' RPM FILTER TIME
                          *-                              :                   CONSTANT, N.D. (0-1)
                          *-                              :             ::EQU N=E*256 ::
```

```
                                    * -------------------------------------------------------------------
        73  C016 000D               KTIMELAG FDB     13                 (      198) :0016: 'USEC    ' TIME DOMAIN
                                    *-                                  :                  CORRECTION TO SPARK
                                    *-                                  :            ::EQU N=E/15.26 ::

                                    ****************************************************
                                    *                                                  *
                                    *   6X REFERENCE PULSE LOGIC CALIBRATION PARAMETERS  *
                                    *                                                  *
                                    ****************************************************

                                    * -------------------------------------------------------------------
        74  C018 00FF               K6XRPMEN FDB     255                (     3855) :0018: 'RPM     ' LOWER HYST VALUE
                                    *-                                  :                  BELOW WHICH 6X IS ENABLED
                                    *-                                  :            ::IF(E.EQ.0)N=0 ::
                                    *-                                  :            ::IF(E.NE.0)N=65536*15/E ::
                                    * -------------------------------------------------------------------
        75  C01A 00EB               K6XRPMDS FDB     235                (     4183) :001A: 'RPM     ' UPPER HYST VALUE
                                    *-                                  :                  ABOVE WHICH 6X IS DISABLED
                                    *-                                  :            ::IF(E.EQ.0)N=0 ::
                                    *-                                  :            ::IF(E.NE.0)N=65536*15/E ::
                                    * -------------------------------------------------------------------
        76  C01C 0010               K6XSYNCH FDB     16                 (       16) :001C: 'CNTS    ' B-COUNT WINDOW IN
                                    *-                                  :                  WHICH 6X &2X ARE IN SYNCH
                                    *-                                  :            ::EQU N=E ::                   ONE B
                                    *-                                  :                  COUNT = 15.26 MICROSECONDS

                                    * -------------------------------------------------------------------
        77  C01E 00AB               KMAXADV2 FDB     171                (       60) :001E: 'DEG     ' MAX ADVANCE RELATIVE
                                    *-                                  :                  TO REFERENCE (2'S COMPL)
                                    *-                                  :            ::IF(E.GE.90)N(2)=255 ::
                                    *-                                  :            ::IF(E.LT.90)N(2)=E*256/90 ::
                                    *-                                  :            ::IF(E.LE.-90)N(2)=-255 ::
                                    * -------------------------------------------------------------------
        78  C020 0017               KDIAGADV FDB     23                 (        8) :0020: 'DEG     ' DIAG MODE FORCED
                                    *-                                  :                  ADVANCE (2'S COMPLEMENT)
                                    *-                                  :            ::EQU N(2)=(E-KREFANGL)*256/90 ::
                                    * -------------------------------------------------------------------
        79  C022 005B               KESCDADV FDB     91                 (       32) :0022: 'DEG     ' ESC DIAGNOSTIC
                                    *-                                  :                  ADVANCE DEGREES
                                    *-                                  :            ::EQU N=(E-KREFANGL)*256/90 ::
                                    **********THE FOLLOWING PARAMETERS MUST BE IN ORDER**************
                                    * -------------------------------------------------------------------
        80  C024 2A                 KDIARPML FCB     42                 (     1050) :0024: 'RPM     ' RPM THRESHOLD TO EXIT
                                    *-                                  :                  ESC DIAGNOSTIC MODE
                                    *-                                  :            ::EQU N=E/25 ::
                                    * -------------------------------------------------------------------
        81  C025 30                 KDIARPMH FCB     48                 (     1200) :0025: 'RPM     ' RPM THRESHOLD TO
                                    *-                                  :                  ENTER ESC DIAGNOSTIC MODE
                                    *-                                  :            ::EQU N=E/25 ::
                                    **********THE PRECEDING PARAMETERS MUST BE IN ORDER**************
                                    * -------------------------------------------------------------------
```

SECURE LIBRARY PROGRAM AND LEVEL: P0188BAB01

DATA

```
00020900    82  C026 000A    KMAXRTD2 FDB    10          (    3.5) :0026: 'DEG    ' MAX RETARD RELATIVE
00021000                     *-                                          TO REFERENCE (2'S COMPL)
00021100                     *-                                      ::IF(E.GE.90)N(2)=255 ::
00021200                     *-                                      ::IF(E.LT.90)N(2)=E*256/90 ::
00021300                     *-                                      ::IF(E.LE.-90)N(2)=-255 ::
00021400                     * ------------------------------------------------------------------
00021500    83  C028 E0     KTIMOUT  FCB    224         (    2.8) :0028: 'SEC    ' RE-CRANK NO START
00021600                     *-                                          TIME VALUE
00021700                     *-                                      ::EQU N=E*80 ::
00021800                     * ------------------------------------------------------------------
00021900    84  C029 08     KERUNCTR FCB    8           (      8) :0029: '       ' # OF SUCC. LOW
00022000                     *-                                          REFPERS TO ALLOW ENG. RUN-
00022100                     *-                                          SPARK
00022200                     *-                                      ::EQU N=E ::
00022300                     * ------------------------------------------------------------------
00022400    85  C02A 0C     KRUNFCTR FCB    12          (     12) :002A: '       ' # OF SUCC. LOW
00022500                     *-                                          REFPERS TO ALLOW ENG. RUN-FUEL
00022600                     *-                                      ::EQU N=E ::
00022700                     * ------------------------------------------------------------------
00022800    86  C02B 09     KF4TPS1  FCB    9           (    3.5) :002B: '%      ' F4 TBL CLOSED THROT
00022900                     *-                                          THRSHHLD, UPPER OF HYST. PAIR
00023000                     *-                                      ::EQU N=E*2.56 ::
00023100                     * ------------------------------------------------------------------
00023200    87  C02C 06     KF4TPS2  FCB    6           (    2.3) :002C: '%      ' F4 TBL CLOSED THROT
00023300                     *-                                          THRSHHLD, LOWER OF HYST. PAIR
00023400                     *-                                      ::EQU N=E*2.56 ::
00023500                     * ------------------------------------------------------------------
00023600    88  C02D 00     KF4CNTR  FCB    0           (      0) :002D: 'SEC    ' F4 FLAG THROTTLE
00023700                     *-                                          OPENING DELAY
00023800                     *-                                      ::EQU N=E*80 ::
00023900                     * ------------------------------------------------------------------
00024000    89  C02E 00     KF4TCTH  FCB    0           (    -40) :002E: 'DEG C ' TEMP ABOVE WHICH EGR
00024100                     *-                                          TIP-IN DELAY USED
00024200                     *-                                      ::EQU N=(E+40)*256/192 ::
00024300                     * ------------------------------------------------------------------
00024400    90  C02F 0044   KPSDADV  FDB    68          (    24) :002F: 'DEG    ' P.S. MODE FORCED
00024500                     *-                                          ADVANCE, 2'S COMPLEMENT
00024600                     *-                                      ::EQU N(2)=(E-KREFANGL)*256/90 ::
00024700                     * ------------------------------------------------------------------
00024800    91  C031 93     KPSTEMP  FCB    147         (    70) :0031: 'DEG C ' COOLANT TEMP.
00024900                     *-                                          THRESHOLD FOR P.S. SPARK
00025000                     *-                                      ::EQU N=(E+40)*256/192 ::
00025100                     * ------------------------------------------------------------------
00025200    92  C032 CA     KADBARO  FCB    202         (    85) :0032: 'KPA    ' * 243 = 100 KPA
00025300                     *-                                          DEFAULT BARO A/D COUNTS
00025400                     *-                                      ::EQU N=2.71*E-28.06 ::
00025500                     * ------------------------------------------------------------------
00025600    93  C033 B8     KBARSPDA FCB    184         (  4600) :0033: 'RPM    ' BARO UPDATE RPM
00025700                     *-                                          THRESHHOLD
00025800                     *-                                      ::EQU N=E/25 ::
00025900                     * ------------------------------------------------------------------
00026000    94  C034 62     KAD2BARO FCB    98          (  84.6) :0034: 'KPA    ' DEFAULT BARO A/D
```

```
                    *-                                    :          ::EQU N=E*3.2 ::
                    * -----------------------------------------------------------------
255  CODB 80        KRSHNTLK FCB    128                   (       40) :OODB: 'MPH    ' TCC ROAD SPEED LOWER
                                                                              LIMIT FOR UNLOCK,3RD GEAR
                    *-                                    :
                    *-                                    :          ::EQU N=E*3.2 ::
                    *
                    * N.B. THE ORDER OF THE PREVIOUS 2 PARAMETERS MUST BE PRESERVED
                    *

                    ************************************
                    *  F42  TABLE' (3RD GEAR,UPPER)    *
                    *   LOAD LIMIT VS. NMPH            *
                    *                                  *
                    * TABLE VALUE = % FULL LOAD * 2.56 *
                    ************************************

                    *-                                    :          ::TBL2D,11,TBL35,5,'%' ::
                    * -----------------------------------------------------------------
256  CODC 54        F42C2      FCB     84                 (       33) :OODC: '%       '   20    MPH-SPEED
                    *-                                    :          ::TBL4,3 ::
257  CODD 5F                   FCB     95                 (       37) :OODD: '%       '   25
258  CODE 66                   FCB     102                (       40) :OODE: '%       '   30
259  CODF 6E                   FCB     110                (       43) :OODF: '%       '   35
260  COEO 7B                   FCB     123                (       48) :OOEO: '%       '   40
261  COE1 9C                   FCB     156                (       61) :OOE1: '%       '   45
262  COE2 BF                   FCB     191                (     74.6) :OOE2: '%       '   50
263  COE3 C4                   FCB     196                (     76.6) :OOE3: '%       '   55
264  COE4 C9                   FCB     201                (     78.5) :OOE4: '%       '   60
265  COE5 CF                   FCB     207                (       81) :OOE5: '%       '   65
266  COE6 D4                   FCB     212                (       83) :OOE6: '%       '   70

                    ************************************
                    *  F43  TABLE  (3RD GEAR,LOWER)    *
                    *   LOAD LIMIT VS. NMPH            *
                    *                                  *
                    * TABLE VALUE = % FULL LOAD * 2.56 *
                    ************************************

                    *-                                    :          ::TBL2D,11,TBL35,5,'%' ::
                    * -----------------------------------------------------------------
267  COE7 2C        F43C2      FCB     44                 (       17) :OOE7: '%       '   20    MPH-SPEED
                    *-                                    :          ::TBL4,3 ::
268  COE8 33                   FCB     51                 (       20) :OOE8: '%       '   25
269  COE9 3D                   FCB     61                 (       24) :OOE9: '%       '   30
270  COEA 45                   FCB     69                 (       27) :OOEA: '%       '   35
271  COEB 4D                   FCB     77                 (       30) :OOEB: '%       '   40
272  COEC 54                   FCB     84                 (       33) :OOEC: '%       '   45
273  COED 5F                   FCB     95                 (       37) :OOED: '%       '   50
274  COEE 66                   FCB     102                (       40) :OOEE: '%       '   55
275  COEF 6E                   FCB     110                (       43) :OOEF: '%       '   60
276  COFO 78                   FCB     120                (       47) :OOFO: '%       '   65
```

DATA

```
277  COF1 80                     FCB     128             (       50) :00F1: '%        '    70


                  *************************************
                  *   ROAD SPEED ALGORITHM PARAMETERS *
                  *************************************

                  * ------------------------------------------------------------------
278  COF2 00      KSPDDIV  FCB '   $0              (      $1) :00F2: 'DIVISOR' IP PULSE DIVISOR
                  *-                                :          ::EQU N= DTABLE(E,N,1,$00,6,$80,7,$40
                  *-                                :                ,8,$C0,9,$20,10,$A0,11,$60) ::
                  *         THE FREQUENCY OF THE SIGNAL FROM THE MAGNETIC SENSOR IS
                  *         DIVIDED BY THIS VALUE AND THE RESULTING SIGNAL IS
                  *         SENT OUT OF THE ECM FOR USE BY THE INSTRUMENT PANEL.
                  * ------------------------------------------------------------------
279  COF3 08      KVEHMOVE FCB     8               (     0.8) :00F3: 'SEC     ' SECONDS BEFORE
                  *-                                :                VEHICLE NOT MOVING BIT SET
                  *-                                :          ::EQU N=E*10 ::
                  * ------------------------------------------------------------------
280  COF4 0730    KSPDSEN  FDB     1840            (    4007) :00F4: 'PU/MI  ' ROAD SPEED SENSOR
                  *-                                :                CONSTANT
                  *-                                :          ::IF(E.EQ.0)N=E ::
                  *-                                :          ::IF(E.NE.0)N=7372800/E ::
                  ****************************
                  *   DIAGNOSTIC PARAMETERS  *
                  ****************************
                  * ------------------------------------------------------------------
281  COF6 39      KEGRBIAS FCB     57              (       20) :00F6: 'DEG    ' BIAS FOR EGR ADV CORR
                  *-                                :                (TABLE F4)
                  *-                                :          ::EQU N=E*256/90 ::
                  * ------------------------------------------------------------------
282  COF7 39      KCTBIAS  FCB     57              (       20) :00F7: 'DEG    ' BIAS FOR BASE COOL
                  *-                                :                ADV CORR (TABLE F2)
                  *-                                :          ::EQU N=E*256/90 ::
                  * ------------------------------------------------------------------
283  COF8 39      KBSTBIAS FCB     57              (       20) :00F8: 'DEG    ' BIAS FOR BOOST
                  *-                                :                ADVANCE CORRECTION (TABLE F3)
                  *-                                :          ::EQU N=E*256/90 ::

                  *****************
                  * ESC PARAMETERS *
                  *****************

                  * ------------------------------------------------------------------
284  COF9 00      KRPMKNOB FCB     0               (        0) :00F9: 'RPM    ' CUTOFF FOR ESC RETARD
                  *-                                :                INCREASE
                  *-                                :          ::EQU N=E/12.5 ::
                  * ------------------------------------------------------------------
285  COFA 48      KRETARDM FCB     72              (     12.7) :00FA: 'DEG    ' MAXIMUM ALLOWABLE
                  *-                                :                RETARD (256= 45 DEG)
```

DATA

```
                              *-                           :   ::EQU N=E*256/45 ::
                              * ----------------------------------------------------
 286  C0FB 5D                 KESCOOL  FCB    93           (      30) :00FB: 'DEG C ' ESC COOLANT CUTOFF
                              *-                           :   ::EQU N=(E+40)*256/192 ::
                              * ----------------------------------------------------
 287  C0FC 02                 KESCDLY  FCB    2            (       2) :00FC: 'SEC   ' CRANK TO RUN TRANS
                              *-                           :              DELAY FOR ESC (KNOCK)
                              *-                           :   ::EQU N=E ::
                              * ----------------------------------------------------
 288  C0FD BD                 KESCMAP  FCB    189          (      80) :00FD: 'KPA   ' ESC RECOVERY RATE MAP
                              *-                           :              THRESHOLD
                              *-                           :   ::EQU N=2.71*E-28.06 ::
                              * ----------------------------------------------------
 289  C0FE 66                 KESCMREC FCB    102          (     199) :00FE: '%/SEC ' ESC FAST RECOVERY
                              *-                           :              RATE
                              *-                           :   ::EQU N=E*256/500 ::
                              * ----------------------------------------------------
 290  C0FF 08                 KBKRTPS  FCB    8            (       3) :00FF: '%     ' BURST KNOCK CONTROL
                              *-                           :              THROTTLE CHANGE THRESHOLD
                              *-                           :   ::EQU N=E*2.56 ::
                              * ----------------------------------------------------
 291  C100 00                 KBKRTD1  FCB    0            (       0) :0100: 'DEG   ' BURST KNOCK RETARD
                              *-                           :              CONTROL(256= 45 DEG)
                              *-                           :   ::EQU N=E*256/45 ::
                              * ----------------------------------------------------
 292  C101 03                 KBKRTIM  FCB    3            (     0.3) :0101: 'SEC   ' BURST KNOCK CONTROL
                              *-                           :              TIMER
                              *-                           :   ::EQU N=E*10 ::
                              * ----------------------------------------------------
 293  C102 00                 KF2ENA   FCB    0            (     -40) :0102: 'DEG C ' F2 LOOK UP THRESHOLD,
                              *-                           :              COOLDEG UNITS
                              *-                           :   ::EQU N=(E+40)*256/192 ::
                              * ----------------------------------------------------
 294  C103 04                 KSATM1   FCB    4            (    0.05) :0103: 'SEC   ' TIME DELTA BETWEEN
                              *-                           :              DECAY STEPS FOR
                              *-                           :   ::EQU N=E*80 ::                    SPARK
                              *-                           :              ADVANCE EXPONENTIAL DECAY
                              * ----------------------------------------------------
 295  C104 F2                 KSADM    FCB    242          (    0.95) :0104: 'FACTOR' MULTIPLYING FACTOR
                              *-                           :              FOR SPARK
                              *-                           :   ::EQU N=E*255 ::                ADVANCE
                              *-                           :              EXPONENTIAL DECAY
                              ***********************************************************
                              *  F5  TABLE     SPARK ADVANCE ADDED WHEN PREMIUM         *
                              *                FUEL IS BEING USED                       *
                              *                                                         *
                              *     TABLE VALUE = DEGREES * 256/45                      *
                              *                                                         *
                              ***********************************************************

                              *-                           :   ::TBL2D,12,TBL39,1,'DEG' ::
                              * ----------------------------------------------------
```

DATA

```
296  C105 00        F5        FCB   0      (    0) :0105: 'DEG     '    80     KPA-MAP
                    *-                     :       ::EQU N=E*256/45 ::
297  C106 08                  FCB   11     (    2) :0106: 'DEG     '    90
298  C107 11                  FCB   17     (    3) :0107: 'DEG     '   100
299  C108 17                  FCB   23     (    4) :0108: 'DEG     '   110
300  C109 1D                  FCB   29     (  5.1) :0109: 'DEG     '   120
301  C10A 22                  FCB   34     (    6) :010A: 'DEG     '   130
302  C10B 22                  FCB   34     (    6) :010B: 'DEG     '   140
303  C10C 22                  FCB   34     (    6) :010C: 'DEG     '   150
304  C10D 22                  FCB   34     (    6) :010D: 'DEG     '   160
305  C10E 22                  FCB   34     (    6) :010E: 'DEG     '   170
306  C10F 22                  FCB   34     (    6) :010F: 'DEG     '   180
307  C110 22                  FCB   34     (    6) :0110: 'DEG     '   190

                    * -----------------------------------------------------------
308  C111 AD        KFUELTMP  FCB   173    (   90) :0111: 'DEGC    ' TEMPERATURE ABOVE
                    *-                     :              WHICH FUEL TYPE CAN
                    *-                     :       ::EQU N=(E+40)*256/192 ::        BE
                    *-                     :              DETERMINED
                    * -----------------------------------------------------------
309  C112 A3        KFUELMAP  FCB   163    (  135) :0112: 'KPA     ' MAP ABOVE WHICH FUEL
                    *-                     :              TYPE CAN BE
                    *-                     :       ::EQU N=E*1.28-10.24 ::
                    *-                     :              DETERMINED
                    * -----------------------------------------------------------
310  C113 70        KFUELRLO  FCB   112    ( 2800) :0113: 'RPM     ' RPM ABOVE WHICH FUEL
                    *-                     :              TYPE CAN BE
                    *-                     :       ::EQU N=E/25 ::
                    *-                     :              DETERMINED
                    * -----------------------------------------------------------
311  C114 C0        KFUELRHI  FCB   192    ( 4800) :0114: 'RPM     ' RPM ABOVE WHICH FUEL
                    *-                     :              TYPE CAN BE
                    *-                     :       ::EQU N=E/25 ::
                    *-                     :              DETERMINED
                    * -----------------------------------------------------------
312  C115 22        KFUELRTD  FCB   34     (    6) :0115: 'DEG     ' LIMIT FOR NOCKRTD IN
                    *-                     :              FUEL TYPE LOGIC
                    *-                     :       ::EQU N=E*256/45 ::
                    * -----------------------------------------------------------
313  C116 0A        KFUELCT1  FCB   10     (    1) :0116: 'SEC     ' TIMER LIMIT IN FUEL
                    *-                     :              TYPE LOGIC
                    *-                     :       ::EQU N=E*10 ::
                    * -----------------------------------------------------------
314  C117 08        KFUELCT2  FCB   8      (  0.8) :0117: 'SEC     ' TIMER LIMIT IN FUEL
                    *-                     :              TYPE LOGIC
                    *-                     :       ::EQU N=E*10 ::

                    ************************************************
                    *    F59 TABLE                                 *
                    *          OFFSET TO MAP A/D READING FOR BARO  *
                    *          ADJUSTMENT VS. RPM AND TPS          *
                    *
```

DATA

```
00121300                         *          TABLE VALUE = KPA * 2.71                           *
00121400                         ****************************************************
00121600                         *-                                     :       ::TBL3D,4,6,TBL22,7,6,TBL20,4,'KPA'
00121700                         *-                                     :            ::
00121800                         *-                                     :       ::PROTECT ::
00121900                         * ------------------------------------------------------------------
00122000   315  C118 10          F59A      FCB      16                  (        16) :0118: '        ' R MIN:   R = RPM
00122100                         *-                                     :                 (NTRPMX)
00122200                         *-                                     :       ::EQU N=E ::
00122300                         * ------------------------------------------------------------------
00122400   316  C119 30                    FCB      48                  (        48) :0119: '        ' Q MIN:   Q = NTPSLD
00122500                         * ------------------------------------------------------------------
00122600   317  C11A 06                    FCB      6                   (         6) :011A: '        ' R NUM
00122700                         *-                                     :       ::NOPROTECT ::
00122900                         *
00123000                         *    1200 RPM
00123100                         *
00123200                         * ----------------------------------------- SPEED      1200 RPM
00123300   318  C11B FF                    FCB      255                 (        94) :011B: 'KPA   '  37.5     %-THROTPOS
00123400                         *-                                     :       ::EQU N=E*2.71 ::
00123500   319  C11C FF                    FCB      255                 (        94) :011C: 'KPA   '  50.0
00123600   320  C11D FF                    FCB      255                 (        94) :011D: 'KPA   '  62.5
00123700   321  C11E FF                    FCB      255                 (        94) :011E: 'KPA   '  75.0
00123800   322  C11F FF                    FCB      255                 (        94) :011F: 'KPA   '  87.5
00123900   323  C120 FF                    FCB      255                 (        94) :0120: 'KPA   ' 100.0
00124100                         * ----------------------------------------- SPEED      2400 RPM         %-THROTPOS
00124200   324  C121 FF                    FCB      255                 (        94) :0121: 'KPA   '  37.5
00124300   325  C122 FF                    FCB      255                 (        94) :0122: 'KPA   '  50.0
00124400   326  C123 FF                    FCB      255                 (        94) :0123: 'KPA   '  62.5
00124500   327  C124 FF                    FCB      255                 (        94) :0124: 'KPA   '  75.0
00124600   328  C125 FF                    FCB      255                 (        94) :0125: 'KPA   '  87.5
00124700   329  C126 FF                    FCB      255                 (        94) :0126: 'KPA   ' 100.0
00124900                         * ----------------------------------------- SPEED      3600 RPM         %-THROTPOS
00125000   330  C127 FF                    FCB      255                 (        94) :0127: 'KPA   '  37.5
00125100   331  C128 FF                    FCB      255                 (        94) :0128: 'KPA   '  50.0
00125200   332  C129 FF                    FCB      255                 (        94) :0129: 'KPA   '  62.5
00125300   333  C12A FF                    FCB      255                 (        94) :012A: 'KPA   '  75.0
00125400   334  C12B FF                    FCB      255                 (        94) :012B: 'KPA   '  87.5
00125500   335  C12C FF                    FCB      255                 (        94) :012C: 'KPA   ' 100.0
00125700                         * ----------------------------------------- SPEED      4800 RPM         %-THROTPOS
00125800   336  C12D FF                    FCB      255                 (        94) :012D: 'KPA   '  37.5
00125900   337  C12E FF                    FCB      255                 (        94) :012E: 'KPA   '  50.0
00126000   338  C12F FF                    FCB      255                 (        94) :012F: 'KPA   '  62.5
00126100   339  C130 FF                    FCB      255                 (        94) :0130: 'KPA   '  75.0
00126200   340  C131 FF                    FCB      255                 (        94) :0131: 'KPA   '  87.5
00126300   341  C132 FF                    FCB      255                 (        94) :0132: 'KPA   ' 100.0
```

DATA

```
00126500                            *------------------------------------------------------------
00126600   342  C133 FE             KMAXOFF  FCB    254              (     93.7) :0133: 'KPA    ' MAXIMUM MAP OFFSET
00126700                            *-                               :                            FOR BARO ADJUSTMENT
00126800                            *-                               :                ::EQU N=E*2.71 ::

00127000                            *********************************************
00127100                            *   F11P TABLE                              *
00127200                            *      ALTITUDE COMPENSATION FACTOR VS NBARO *
00127300                            *      USED FOR MAP OFFSET TO COMPUTE BARO  *
00127400                            *                                           *
00127500                            *        TABLE VALUE = FACTOR * 128         *
00127600                            *********************************************
                                                                     :                ::TBL2D,4,TBL8,1,'FACTR' ::
00127800                            *-
00127900                            *------------------------------------------------------------
00128000   343  C134 60             F11P     FCB    96               (     0.75) :0134: 'FACTR '    75    KPA-BARO
00128100                            *-                               :                ::EQU N=E*128 ::
00128200   344  C135 6D                      FCB    109              (     0.85) :0135: 'FACTR '    85
00128300   345  C136 7A                      FCB    122              (     0.95) :0136: 'FACTR '    95
00128400   346  C137 86                      FCB    134              (     1.05) :0137: 'FACTR '   105

00128600                            *------------------------------------------------------------
00128700   347  C138 75             KMPGMULT FCB    117              (    0.914) :0138: 'FACT   ' EMPIRICALLY DERIVED
00128800                            *-                               :                          MULTIPLIER TO BE USED
00128900                            *-                               :                ::EQU N=E*128 ::  TO MULTIPLY
00129000                            *-                               :                          ACCUMULATED FUEL SO THAT MPG
00129100                            *-                               :                          CALC IS OK

00129300                            *------------------------------------------------------------
00129400   348  C139 2580           KESCNOP  FDB    9600             (      120) :0139: 'SEC    ' ESC NOT OPERATIONAL
00129500                            *-                               :                          TIMER CONSTANT
00129600                            *-                               :                ::EQU N=E*80 ::
00129700                            *------------------------------------------------------------
00129800   349  C13B 14             KFUELCT3 FCB    20               (        2) :013B: 'SEC    ' TIMER LIMIT IN FUEL
00129900                            *-                               :                          TYPE LOGIC
00130000                            *-                               :                ::EQU N=E*10 ::
00130100   350       C13B           ESTPARB  EQU    *-1
```

```
                              **DATASHFT**BLOCK ID**
                              ***********************************************
                              ***********************************************
                              **  MANUAL SHIFT LIGHT CALIBRATION PARAMETERS  **
                              ***********************************************
                              ***********************************************

                              * ----------------------------------------------------------------
  351  C13C 00                KTPSHYSM FCB    0              (        0) :013C: '%       ' TPS HYSTERESIS FOR
                                                                                      MINIMUM TPS FOR SHIFT LITE ON
                              *-                              :        ::EQU N=E*256/100 ::
                              *-                              :
                              * ----------------------------------------------------------------
  352  C13D 00                KRPMHYSM FCB    0              (        0) :013D: 'RPM     ' RPM HYSTERESIS FOR
                                                                                      MIN RPM FOR SHIFT LITE ON
                              *-                              :
                              *-                              :        ::EQU N=E/25 ::
                              * ----------------------------------------------------------------
  353  C13E FF                KRPMAX   FCB    255            (     6375) :013E: 'RPM     ' RPM ABOVE WHICH LIGHT
                                                                                      IS ALWAYS TURNED ON
                              *-                              :
                              *-                              :        ::EQU N=E/25 ::

                              * ----------------------------------------------------------------
  354  C13F 0000              KSHFMPHL FDB    0              (        0) :013F: 'MPH     ' MPH BELOW WHICH LIGHT
                                                                                      IS ALWAYS TURNED OFF
                              *-                              :
                              *-                              :        ::EQU N=E*256 ::


                              *!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
                              * NOTE:  THE FOLLOWING 74 BYTES OF SHIFT LIGHT CALIBRATIONS MUST BE   !
                              *        KEPT TOGETHER IN THE SAME ORDER!                             !
                              *!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!


                              ***********************
                              * 1ST GEAR PARAMETERS *
                              ***********************

                              ******************************************************************
                              *    F47G1ST TABLE                                               *
                              *  TPS THRESHOLD FOR SHIFTLIGHT ON DETERMINATION -- 1ST GEAR     *
                              *  (A TPS ABOVE THIS THRESHOLD WILL FORCE THE SHIFT LIGHT OFF UNLESS *
                              *   RPM EXCEEDS KRPMAX)                                          *
                              *                                                                *
                              *  TABLE VALUE = % * 256/100                                     *
                              ******************************************************************
                              *-                              :        ::TBL2D,11,TBL22,6,2,'%'  ::
                              * ----------------------------------------------------------------
  355  C141 00                F47G1ST  FCB    0              (        0) :0141: '%       '  1000    RPM-SPEED
                              *-                              :        ::EQU N=E*256/100 ::
  356  C142 00                         FCB    0              (        0) :0142: '%       '  1400
  357  C143 00                         FCB    0              (        0) :0143: '%       '  1800
```

```
358  C144 00                   FCB     0          (        0) :0144: '%         '  2200
359  C145 00                   FCB     0          (        0) :0145: '%         '  2600
360  C146 00                   FCB     0          (        0) :0146: '%         '  3000
361  C147 00                   FCB     0          (        0) :0147: '%         '  3400
362  C148 00                   FCB     0          (        0) :0148: '%         '  3800
363  C149 00                   FCB     0          (        0) :0149: '%         '  4200
364  C14A 00                   FCB     0          (        0) :014A: '%         '  4600
365  C14B 00                   FCB     0          (        0) :014B: '%         '  5000

                     * -------------------------------------------------------
366  C14C C8         KNVRAT1H FCB    200          (      200) :014C: 'RPM/MPH' UPPER N/V RATIO
                     *-                           :            WINDOW VALUE, 1ST GEAR
                     *-                           :          ::EQU N=E ::

                     * -------------------------------------------------------
367  C14D AA         KNVRAT1L FCB    170          (      170) :014D: 'RPM/MPH' LOWER N/V RATIO
                     *-                           :            WINDOW VALUE, 1ST GEAR
                     *-                           :          ::EQU N=E ::

                     * -------------------------------------------------------
368  C14E FF         KRPMIN1  FCB    255          (     6375) :014E: 'RPM     ' MINIMUM RPM FOR LIGHT
                     *-                           :            ON, 1ST GEAR
                     *-                           :          ::EQU N=E/25 ::

                     * -------------------------------------------------------
369  C14F FF         KTPSNLT1 FCB    255          (     99.6) :014F: '%       ' MINIMUM TPS FOR LIGHT
                     *-                           :            ON, 1ST GEAR
                     *-                           :          ::EQU N=E*256/100 ::

                     * -------------------------------------------------------
370  C150 00         KGRDLY1  FCB    0            (        0) :0150: 'SEC     ' LIGHT ON DELAY TIME,
                     *-                           :            1ST GEAR
                     *-                           :          ::EQU N=E*10 ::

                     * -------------------------------------------------------
371  C151 00         KTPSHYS1 FCB    0            (        0) :0151: '%       ' TPS HYSTERESIS FOR
                     *-                           :            LIGHT ON, 1ST GEAR
                     *-                           :          ::EQU N=E*256/100 ::

                     * -------------------------------------------------------
372  C152 00         KLITDLY1 FCB    0            (        0) :0152: 'SEC     ' LIGHT ON DELAY TIME,
                     *-                           :            1ST GEAR
                     *-                           :          ::EQU N=E*10 ::

                     ************************
                     * 2ND GEAR PARAMETERS *
                     ************************

                     ****************************************************************
                     *    F47G2ND TABLE                                             *
                     *  TPS THRESHOLD FOR SHIFTLIGHT ON DETERMINATION -- 2ND GEAR   *
                     *  (A TPS ABOVE THIS THRESHOLD WILL FORCE THE SHIFT LIGHT OFF UNLESS  *
```

```
                                *   RPM EXCEEDS KRPMAX)                                      *
                                *                                                            *
                                *  TABLE VALUE = % * 256/100                                 *
                                **************************************************************
                                *-                          :              ::TBL2D,11,TBL22,6,2,'%' ::
                                * ----------------------------------------------------
373  C153 00                    F47G2ND  FCB    0           (        0) :0153: '%        '  1000    RPM-SPEED
                                *-                          :              ::EQU N=E*256/100 ::
374  C154 00                             FCB    0           (        0) :0154: '%        '  1400
375  C155 00                             FCB    0           (        0) :0155: '%        '  1800
376  C156 00                             FCB    0           (        0) :0156: '%        '  2200
377  C157 00                             FCB    0           (        0) :0157: '%        '  2600
378  C158 00                             FCB    0           (        0) :0158: '%        '  3000
379  C159 00                             FCB    0           (        0) :0159: '%        '  3400
380  C15A 00                             FCB    0           (        0) :015A: '%        '  3800
381  C15B 00                             FCB    0           (        0) :015B: '%        '  4200
382  C15C 00                             FCB    0           (        0) :015C: '%        '  4600
383  C15D 00                             FCB    0           (        0) :015D: '%        '  5000

                                * ----------------------------------------------------
384  C15E 7A                    KNVRAT2H FCB    122         (      122) :015E: 'RPM/MPH' UPPER N/V RATIO
                                *-                          :                  WINDOW VALUE, 2ND GEAR
                                *-                          :              ::EQU N=E ::

                                * ----------------------------------------------------
385  C15F 6A                    KNVRAT2L FCB    106         (      106) :015F: 'RPM/MPH' LOWER N/V RATIO
                                *-                          :                  WINDOW VALUE, 2ND GEAR
                                *-                          :              ::EQU N=E ::

                                * ----------------------------------------------------
386  C160 FF                    KRPMIN2  FCB    255         (     6375) :0160: 'RPM    ' MINIMUM RPM FOR LIGHT
                                *-                          :                  ON, 2ND GEAR
                                *-                          :              ::EQU N=E/25 ::

                                * ----------------------------------------------------
387  C161 FF                    KTPSNLT2 FCB    255         (     99.6) :0161: '%      ' MINIMUM TPS FOR LIGHT
                                *-                          :                  ON, 2ND GEAR
                                *-                          :              ::EQU N=E*256/100 ::

                                * ----------------------------------------------------
388  C162 00                    KGRDLY2  FCB    0           (        0) :0162: 'SEC    ' LIGHT ON DELAY TIME,
                                *-                          :                  2ND GEAR
                                *-                          :              ::EQU N=E*10 ::

                                * ----------------------------------------------------
389  C163 00                    KTPSHYS2 FCB    0           (        0) :0163: '%      ' TPS HYSTERESIS FOR
                                *-                          :                  LIGHT ON, 2ND GEAR
                                *-                          :              ::EQU N=E*256/100 ::

                                * ----------------------------------------------------
390  C164 00                    KLITDLY2 FCB    0           (        0) :0164: 'SEC    ' LIGHT ON DELAY TIME,
                                *-                          :                  2ND GEAR
```

```
00145400                       *-                                        :           ::EQU N=E*10 ::

00145600                       ***********************
00145700                       * 3RD GEAR PARAMETERS *
00145800                       ***********************

00146000                       ***************************************************************
00146100                       *    F47G3RD TABLE                                              *
00146200                       *  TPS THRESHOLD FOR SHIFTLIGHT ON DETERMINATION -- 3RD GEAR    *
00146300                       *  (A TPS ABOVE THIS THRESHOLD WILL FORCE THE SHIFT LIGHT OFF UNLESS *
00146400                       *   RPM EXCEEDS KRPMAX)                                         *
00146500                       *                                                               *
00146600                       *  TABLE VALUE = % * 256/100                                    *
00146700                       ***************************************************************
00146800                       *-                                        :           ::TBL2D,11,TBL22,6,2,'%' ::
00146900                       * ---------------------------------------------------------------
00147000    391  C165 00       F47G3RD  FCB    0                         (         0) :0165: '%       '  1000    RPM-SPEED
00147100                       *-                                                    ::EQU N=E*256/100 ::
00147200    392  C166 00                FCB    0                         (         0) :0166: '%       '  1400
00147300    393  C167 00                FCB    0                         (         0) :0167: '%       '  1800
00147400    394  C168 00                FCB    0                         (         0) :0168: '%       '  2200
00147500    395  C169 00                FCB    0                         (         0) :0169: '%       '  2600
00147600    396  C16A 00                FCB    0                         (         0) :016A: '%       '  3000
00147700    397  C16B 00                FCB    0                         (         0) :016B: '%       '  3400
00147800    398  C16C 00                FCB    0                         (         0) :016C: '%       '  3800
00147900    399  C16D 00                FCB    0                         (         0) :016D: '%       '  4200
00148000    400  C16E 00                FCB    0                         (         0) :016E: '%       '  4600
00148100    401  C16F 00                FCB    0                         (         0) :016F: '%       '  5000

00148300                       * ---------------------------------------------------------------
00148400    402  C170 4A       KNVRAT3H FCB    74                        (        74) :0170: 'RPM/MPH' UPPER N/V RATIO
00148500                       *-                                        :                  WINDOW VALUE, 3RD GEAR
00148600                       *-                                        :           ::EQU N=E ::

00148800                       * ---------------------------------------------------------------
00148900    403  C171 42       KNVRAT3L FCB    66                        (        66) :0171: 'RPM/MPH' LOWER N/V RATIO
00149000                       *-                                        :                  WINDOW VALUE, 3RD GEAR
00149100                       *-                                        :           ::EQU N=E ::

00149300                       * ---------------------------------------------------------------
00149400    404  C172 FF       KRPMIN3  FCB    255                       (      6375) :0172: 'RPM     ' MINIMUM RPM FOR LIGHT
00149500                       *-                                        :                  ON, 3RD GEAR
00149600                       *-                                        :           ::EQU N=E/25 ::

00149800                       * ---------------------------------------------------------------
00149900    405  C173 FF       KTPSNLT3 FCB    255                       (      99.6) :0173: '%       ' MINIMUM TPS FOR LIGHT
00150000                       *-                                        :                  ON, 3RD GEAR
00150100                       *-                                        :           ::EQU N=E*256/100 ::

00150300                       * ---------------------------------------------------------------
00150400    406  C174 C0       KGRDLY3  FCB    0                         (         0) :0174: 'SEC     ' LIGHT ON DELAY TIME,
00150500                       *-                                        :                  3RD GEAR
```

```
                              *-                                   :              ::EQU N=E*10 ::

                              * ---------------------------------------------------------------
 407  C175 00                 KTPSHYS3 FCB    0                    (          0) :0175: '%      ' TPS HYSTERESIS FOR
                              *-                                   :                  LIGHT ON, 3RD GEAR
                              *-                                   :              ::EQU N=E*256/100 ::

                              * ---------------------------------------------------------------
 408  C176 00                 KLITDLY3 FCB    0                    (          0) :0176: 'SEC    ' LIGHT ON DELAY TIME,
                              *-                                   :                  3RD GEAR
                              *-                                   :              ::EQU N=E*10 ::

                              ************************
                              * 4TH GEAR PARAMETERS *
                              ************************

                              ****************************************************************
                              *    F47G4TH TABLE                                             *
                              *  TPS THRESHOLD FOR SHIFTLIGHT ON DETERMINATION -- 4TH GEAR   *
                              *  (A TPS ABOVE THIS THRESHOLD WILL FORCE THE SHIFT LIGHT OFF UNLESS  *
                              *   RPM EXCEEDS KRPMAX)                                        *
                              *                                                              *
                              *  TABLE VALUE = % * 256/100                                   *
                              ****************************************************************
                              *-                                   :              ::TBL2D,11,TBL22,6,2,'%' ::
                              * ---------------------------------------------------------------
 409  C177 00                 F47G4TH  FCB    0                    (          0) :0177: '%      '  1000    RPM SPEED
                              *-                                   :              ::EQU N=E*256/100 ::
 410  C178 00                          FCB    0                    (          0) :0178: '%      '  1400
 411  C179 00                          FCB    0                    (          0) :0179: '%      '  1800
 412  C17A 00                          FCB    0                    (          0) :017A: '%      '  2200
 413  C17B 00                          FCB    0                    (          0) :017B: '%      '  2600
 414  C17C 00                          FCB    0                    (          0) :017C: '%      '  3000
 415  C17D 00                          FCB    0                    (          0) :017D: '%      '  3400
 416  C17E 00                          FCB    0                    (          0) :017E: '%      '  3800
 417  C17F 00                          FCB    0                    (          0) :017F: '%      '  4200
 418  C180 00                          FCB    0                    (          0) :0180: '%      '  4600
 419  C181 00                          FCB    0                    (          0) :0181: '%      '  5000

                              * ---------------------------------------------------------------
 420  C182 35                 KNVRAT4H FCB    53                   (         53) :0182: 'RPM/MPH' UPPER N/V RATIO
                              *-                                   :                  WINDOW VALUE, 4TH GEAR
                              *-                                   :              ::EQU N=E ::

                              * ---------------------------------------------------------------
 421  C183 2A                 KNVRAT4L FCB    42                   (         42) :0183: 'RPM/MPH' LOWER N/V RATIO
                              *-                                   :                  WINDOW VALUE, 4TH GEAR
                              *-                                   :              ::EQU N=E ::

                              * ---------------------------------------------------------------
 422  C184 FF                 KRPMIN4  FCB    255                  (       6375) :0184: 'RPM    ' MINIMUM RPM FOR LIGHT
                              *-                                   :                  ON, 4TH GEAR
```

```
                            :               ::EQU N=E/25 ::
                 *-

                 * -----------------------------------------
423  C185 FF     KTPSNLT4 FCB    255        (      99.6) :0185: '%        ' MINIMUM TPS FOR LIGHT
                                                                 ON, 4TH GEAR
                 *-                         :               ::EQU N=E*256/100 ::
                 *-                         :

                 * -----------------------------------------
424  C186 00     KGRDLY4  FCB    0          (         0) :0186: 'SEC      ' LIGHT ON DELAY TIME,
                                                                 4TH GEAR
                 *-                         :               ::EQU N=E*10 ::
                 *-                         :

                 * -----------------------------------------
425  C187 00     KTPSHYS4 FCB    0          (         0) :0187: '%        ' TPS HYSTERESIS FOR
                                                                 LIGHT ON, 4TH GEAR
                 *-                         :               ::EQU N=E*256/100 ::
                 *-                         :

                 * -----------------------------------------
426  C188 00     KLITDLY4 FCB    0          (         0) :0188: 'SEC      ' LIGHT ON DELAY TIME,
                                                                 4TH GEAR
                 *-                         :               ::EQU N=E*10 ::
                 *-                         :

                 *************************
                 * 5TH GEAR PARAMETERS *
                 *************************
                 * -----------------------------------------
427  C189 2A     KNVRAT5H FCB    42         (        42) :0189: 'RPM/MPH' UPPER N/V RATIO
                                                                 WINDOW VALUE, 5TH GEAR
                 *-                         :               ::EQU N=E ::
                 *-                         :

                 * -----------------------------------------
428  C18A 20     KNVRAT5L FCB    32         (        32) :018A: 'RPM/MPH' LOWER N/V RATIO
                                                                 WINDOW VALUE, 5TH GEAR
                 *-                         :               ::EQU N=E ::
                 *-                         :


                 *!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
                 * NOTE:  THE PREVIOUS 74 BYTES OF SHIFT LIGHT CALIBRATIONS MUST BE       !
                 *          KEPT TOGETHER IN THE SAME ORDER!                              !
                 *!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!


                 ***************************************************************************
                 *    F48 TABLE                                                            *
                 *       BARO CORRECTION FACTOR FOR SHIFTLIGHT TPS THRESHOLD               *
                 *                                                                         *
                 *           TABLE VALUE = FACTOR * 128                                    *
                 *                                                                         *
                 ***************************************************************************
```

DATASHFT

```
00160600                         *-                                          ::TBL2D,4,TBL8,1,'FACTR' ::
00160700                         * ------------------------------------------------------------------
00160800    429  C18B 80         F48      FCB      128           (       1) :018B: 'FACTR '     75      KPA-BARO
00160900                         *-                              :          ::EQU N=E+128 ::
00161000    430  C18C 80                  FCB      128           (       1) :018C: 'FACTR '     85
00161100    431  C18D 80                  FCB      128           (       1) :018D: 'FACTR '     95
00161200    432  C18E 80                  FCB      128           (       1) :018E: 'FACTR '    105
```

SECURE LIBRARY PROGRAM AND LEVEL: PO188BABO1

DATAEST

```
                      *+DATAEST ++BLOCK ID++

                      ********************************
                      *   EST PARAMETERS AND TABLES  *
                      ********************************

                      *##############################################
                      *      F1 TABLE       SAMAIN                  #
                      *    MAIN SPARK ADVANCE VS. MAP AND RPM       #
                      *##############################################

                      *-                          :   ::TBL3D,14,17,TBL45,1,TBL46,5,'DEG'
                      *-                          :   ::
                      *-                          :   ::PROTECT ::
                      * ------------------------------------------------------------
433  C18F 00          F1C       FCB    0          (         0)*:018F: '          ' R MIN; R = NTRPMP
                      *-                          :   ::EQU N=E ::
                      * ------------------------------------------------------------
434  C190 00                    FCB    0          (         0)*:0190: '          ' Q MIN; Q = NMAPLD
                      *-                          :   ::EQU N=E ::
                      * ------------------------------------------------------------
435  C191 11                    FCB    17         (        17) :0191: '          ' R NUM
                      *-                          :   ::EQU N=E ::
                      *-                          :   ::NOPROTECT ::

                      *  TABLE VALUE= DEG. * 256/90
                      *  600 RPM

                      * --------------------------------------- SPEED      600 RPM
436  C192 44                    FCB    68         (        24) :0192: 'DEG     ' 20 30    KPA-MAP 2AIM
                      *-                          :   ::EQU N=E*256/90 ::
437  C193 44                    FCB    68         (        24) :0193: 'DEG     ' 25 40
438  C194 44                    FCB    68         (        24) :0194: 'DEG     ' 30 50
439  C195 44                    FCB    68         (        24) :0195: 'DEG     ' 35 60
440  C196 44                    FCB    68         (        24) :0196: 'DEG     ' 40 70
441  C197 39                    FCB    57         (        20) :0197: 'DEG     ' 45 80
442  C198 1C                    FCB    28         (        10) :0198: 'DEG     ' 50 90
443  C199 11                    FCB    17         (         6) :0199: 'DEG     ' 55 100
444  C19A 11                    FCB    17         (         6) :019A: 'DEG     ' 60 110
445  C19B 11                    FCB    17         (         6) :019B: 'DEG     ' 65 120
446  C19C 11                    FCB    17         (         6) :019C: 'DEG     ' 70 130
447  C19D 11                    FCB    17         (         6) :019D: 'DEG     ' 75 140
448  C19E 11                    FCB    17         (         6) :019E: 'DEG     ' 80 150
449  C19F 11                    FCB    17         (         6) :019F: 'DEG     ' 85 160
450  C1A0 11                    FCB    17         (         6) :01A0: 'DEG     ' 90 170
451  C1A1 11                    FCB    17         (         6) :01A1: 'DEG     ' 95 180
452  C1A2 11                    FCB    17         (         6) :01A2: 'DEG     ' 100 190

                      * --------------------------------------- SPEED      800 RPM
453  C1A3 44                    FCB    68         (        24) :01A3: 'DEG     ' 20 30    KPA-MAP 2AIM
454  C1A4 44                    FCB    68         (        24) :01A4: 'DEG     ' 25 40
```

[illegible]

DATAEST

```
00166500   455  C1A5 44          FCB   68          (   24) :01A5: 'DEG   ' 30 50
00166600   456  C1A6 44          FCB   68          (   24) :01A6: 'DEG   ' 35 60
00166700   457  C1A7 44          FCB   68          (   24) :01A7: 'DEG   ' 40 70
00166800   458  C1A8 39          FCB   57          (   20) :01A8: 'DEG   ' 45 80
00166900   459  C1A9 1C          FCB   28          (   10) :01A9: 'DEG   ' 50 90
00167000   460  C1AA 1C          FCB   28          (   10) :01AA: 'DEG   ' 55 100
00167100   461  C1AB 1C          FCB   28          (   10) :01AB: 'DEG   ' 60 110
00167200   462  C1AC 1C          FCB   28          (   10) :01AC: 'DEG   ' 65 120
00167300   463  C1AD 1C          FCB   28          (   10) :01AD: 'DEG   ' 70 130
00167400   464  C1AE 1C          FCB   28          (   10) :01AE: 'DEG   ' 75 140
00167500   465  C1AF 1C          FCB   28          (   10) :01AF: 'DEG   ' 80 150
00167600   466  C1B0 1C          FCB   28          (   10) :01B0: 'DEG   ' 85 160
00167700   467  C1B1 1C          FCB   28          (   10) :01B1: 'DEG   ' 90 170
00167800   468  C1B2 1C          FCB   28          (   10) :01B2: 'DEG   ' 95 180
00167900   469  C1B3 1C          FCB   28          (   10) :01B3: 'DEG   ' 100 190

00168100                 * ------------------------------------- SPEED      1000 RPM
00168200   470  C1B4 44          FCB   68          (   24) :01B4: 'DEG   ' 20 30     KPA-MAP 2ATM
00168300   471  C1B5 44          FCB   68          (   24) :01B5: 'DEG   ' 25 40
00168400   472  C1B6 44          FCB   68          (   24) :01B6: 'DEG   ' 30 50
00168500   473  C1B7 44          FCB   68          (   24) :01B7: 'DEG   ' 35 60
00168600   474  C1B8 44          FCB   68          (   24) :01B8: 'DEG   ' 40 70
00168700   475  C1B9 39          FCB   57          (   20) :01B9: 'DEG   ' 45 80
00168800   476  C1BA 28          FCB   40          (   14) :01BA: 'DEG   ' 50 90
00168900   477  C1BB 22          FCB   34          (   12) :01BB: 'DEG   ' 55 100
00169000   478  C1BC 1C          FCB   28          (   10) :01BC: 'DEG   ' 60 110
00169100   479  C1BD 1C          FCB   28          (   10) :01BD: 'DEG   ' 65 120
00169200   480  C1BE 1C          FCB   28          (   10) :01BE: 'DEG   ' 70 130
00169300   481  C1BF 1C          FCB   28          (   10) :01BF: 'DEG   ' 75 140
00169400   482  C1C0 1C          FCB   28          (   10) :01C0: 'DEG   ' 80 150
00169500   483  C1C1 1C          FCB   28          (   10) :01C1: 'DEG   ' 85 160
00169600   484  C1C2 1C          FCB   28          (   10) :01C2: 'DEG   ' 90 170
00169700   485  C1C3 1C          FCB   28          (   10) :01C3: 'DEG   ' 95 180
00169800   486  C1C4 1C          FCB   28          (   10) :01C4: 'DEG   ' 100 190

00170000                 * ------------------------------------- SPEED      1200 RPM
00170100   487  C1C5 44          FCB   68          (   24) :01C5: 'DEG   ' 20 30     KPA-MAP 2ATM
00170200   488  C1C6 44          FCB   68          (   24) :01C6: 'DEG   ' 25 40
00170300   489  C1C7 4D          FCB   77          (   27) :01C7: 'DEG   ' 30 50
00170400   490  C1C8 55          FCB   85          (   30) :01C8: 'DEG   ' 35 60
00170500   491  C1C9 55          FCB   85          (   30) :01C9: 'DEG   ' 40 70
00170600   492  C1CA 4D          FCB   77          (   27) :01CA: 'DEG   ' 45 80
00170700   493  C1CB 3F          FCB   63          (   22) :01CB: 'DEG   ' 50 90
00170800   494  C1CC 36          FCB   54          (   19) :01CC: 'DEG   ' 55 100
00170900   495  C1CD 28          FCB   40          (   14) :01CD: 'DEG   ' 60 110
00171000   496  C1CE 1C          FCB   28          (   10) :01CE: 'DEG   ' 65 120
00171100   497  C1CF 1C          FCB   28          (   10) :01CF: 'DEG   ' 70 130
00171200   498  C1D0 1C          FCB   28          (   10) :01D0: 'DEG   ' 75 140
00171300   499  C1D1 1C          FCB   28          (   10) :01D1: 'DEG   ' 80 150
00171400   500  C1D2 1C          FCB   28          (   10) :01D2: 'DEG   ' 85 160
00171500   501  C1D3 1C          FCB   28          (   10) :01D3: 'DEG   ' 90 170
00171600   502  C1D4 1C          FCB   28          (   10) :01D4: 'DEG   ' 95 180
```

```
::PO1888 GMCM MACRO CROSS-ASSEMBLER RELEASE 4.04  DATASET: LI3MAN [illegible]
         SECURE LIBRARY PROGRAM AND LEVEL: PO188BAB01
DATAEST

00171700  503  C1D5 1C          FCB   28      (   10) :01D5: 'DEG   ' 100 190

00171900                  * -------------------------------- SPEED      1400 RPM
00172000  504  C1D6 44          FCB   68      (   24) :01D6: 'DEG   ' 20 30    KPA-MAP 2A1M
00172100  505  C1D7 4D          FCB   77      (   27) :01D7: 'DEG   ' 25 40
00172200  506  C1D8 55          FCB   85      (   30) :01D8: 'DEG   ' 30 50
00172300  507  C1D9 5B          FCB   91      (   32) :01D9: 'DEG   ' 35 60
00172400  508  C1DA 5B          FCB   91      (   32) :01DA: 'DEG   ' 40 70
00172500  509  C1DB 50          FCB   80      (   28) :01DB: 'DEG   ' 45 80
00172600  510  C1DC 44          FCB   68      (   24) :01DC: 'DEG   ' 50 90
00172700  511  C1DD 3C          FCB   60      (   21) :01DD: 'DEG   ' 55 100
00172800  512  C1DE 33          FCB   51      (   18) :01DE: 'DEG   ' 60 110
00172900  513  C1DF 28          FCB   40      (   14) :01DF: 'DEG   ' 65 120
00173000  514  C1E0 1C          FCB   28      (   10) :01E0: 'DEG   ' 70 130
00173100  515  C1E1 1C          FCB   28      (   10) :01E1: 'DEG   ' 75 140
00173200  516  C1E2 1C          FCB   28      (   10) :01E2: 'DEG   ' 80 150
00173300  517  C1E3 1C          FCB   28      (   10) :01E3: 'DEG   ' 85 160
00173400  518  C1E4 1C          FCB   28      (   10) :01E4: 'DEG   ' 90 170
00173500  519  C1E5 1C          FCB   28      (   10) :01E5: 'DEG   ' 95 180
00173600  520  C1E6 1C          FCB   28      (   10) :01E6: 'DEG   ' 100 190

00173800                  * -------------------------------- SPEED      1600 RPM
00173900  521  C1E7 55          FCB   85      (   30) :01E7: 'DEG   ' 20 30    KPA-MAP 2A1M
00174000  522  C1E8 64          FCB   100     (   35) :01E8: 'DEG   ' 25 40
00174100  523  C1E9 64          FCB   100     (   35) :01E9: 'DEG   ' 30 50
00174200  524  C1EA 61          FCB   97      (   34) :01EA: 'DEG   ' 35 60
00174300  525  C1EB 5B          FCB   91      (   32) :01EB: 'DEG   ' 40 70
00174400  526  C1EC 50          FCB   80      (   28) :01EC: 'DEG   ' 45 80
00174500  527  C1ED 47          FCB   71      (   25) :01ED: 'DEG   ' 50 90
00174600  528  C1EE 41          FCB   65      (   23) :01EE: 'DEG   ' 55 100
00174700  529  C1EF 33          FCB   51      (   18) :01EF: 'DEG   ' 60 110
00174800  530  C1F0 28          FCB   40      (   14) :01F0: 'DEG   ' 65 120
00174900  531  C1F1 22          FCB   34      (   12) :01F1: 'DEG   ' 70 130
00175000  532  C1F2 1C          FCB   28      (   10) :01F2: 'DEG   ' 75 140
00175100  533  C1F3 1C          FCB   28      (   10) :01F3: 'DEG   ' 80 150
00175200  534  C1F4 1C          FCB   28      (   10) :01F4: 'DEG   ' 85 160
00175300  535  C1F5 1C          FCB   28      (   10) :01F5: 'DEG   ' 90 170
00175400  536  C1F6 1C          FCB   28      (   10) :01F6: 'DEG   ' 95 180
00175500  537  C1F7 1C          FCB   28      (   10) :01F7: 'DEG   ' 100 190

00175700                  * -------------------------------- SPEED      2000 RPM
00175800  538  C1F8 72          FCB   114     (   40) :01F8: 'DEG   ' 20 30    KPA-MAP 2A1M
00175900  539  C1F9 72          FCB   114     (   40) :01F9: 'DEG   ' 25 40
00176000  540  C1FA 72          FCB   114     (   40) :01FA: 'DEG   ' 30 50
00176100  541  C1FB 6C          FCB   108     (   38) :01FB: 'DEG   ' 35 60
00176200  542  C1FC 66          FCB   102     (   36) :01FC: 'DEG   ' 40 70
00176300  543  C1FD 50          FCB   80      (   28) :01FD: 'DEG   ' 45 80
00176400  544  C1FE 47          FCB   71      (   25) :01FE: 'DEG   ' 50 90
00176500  545  C1FF 41          FCB   65      (   23) :01FF: 'DEG   ' 55 100
00176600  546  C200 3C          FCB   60      (   21) :0200: 'DEG   ' 60 110
00176700  547  C201 33          FCB   51      (   18) :0201: 'DEG   ' 65 120
00176800  548  C202 28          FCB   40      (   14) :0202: 'DEG   ' 70 130
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00176900   549  C203 22          FCB     34        (    12) :0203: 'DEG    ' 75 140
00177000   550  C204 22          FCB     34        (    12) :0204: 'DEG    ' 80 150
00177100   551  C205 22          FCB     34        (    12) :0205: 'DEG    ' 85 160
00177200   552  C206 22          FCB     34        (    12) :0206: 'DEG    ' 90 170
00177300   553  C207 22          FCB     34        (    12) :0207: 'DEG    ' 95 180
00177400   554  C208 22          FCB     34        (    12) :0208: 'DEG    ' 100 190

00177600                  * -------------------------------- SPEED      2400 RPM
00177700   555  C209 72          FCB     114       (    40) :0209: 'DEG    ' 20 30    KPA-MAP 2ATM
00177800   556  C20A 80          FCB     128       (    45) :020A: 'DEG    ' 25 40
00177900   557  C20B 80          FCB     128       (    45) :020B: 'DEG    ' 30 50
00178000   558  C20C 77          FCB     119       (    42) :020C: 'DEG    ' 35 60
00178100   559  C20D 6C          FCB     108       (    38) :020D: 'DEG    ' 40 70
00178200   560  C20E 58          FCB     88        (    31) :020E: 'DEG    ' 45 80
00178300   561  C20F 4A          FCB     74        (    26) :020F: 'DEG    ' 50 90
00178400   562  C210 41          FCB     65        (    23) :0210: 'DEG    ' 55 100
00178500   563  C211 3C          FCB     60        (    21) :0211: 'DEG    ' 60 110
00178600   564  C212 39          FCB     57        (    20) :0212: 'DEG    ' 65 120
00178700   565  C213 30          FCB     48        (    17) :0213: 'DEG    ' 70 130
00178800   566  C214 2B          FCB     43        (    15) :0214: 'DEG    ' 75 140
00178900   567  C215 2B          FCB     43        (    15) :0215: 'DEG    ' 80 150
00179000   568  C216 2B          FCB     43        (    15) :0216: 'DEG    ' 85 160
00179100   569  C217 2B          FCB     43        (    15) :0217: 'DEG    ' 90 170
00179200   570  C218 2B          FCB     43        (    15) :0218: 'DEG    ' 95 180
00179300   571  C219 2B          FCB     43        (    15) :0219: 'DEG    ' 100 190

00179600                  * -------------------------------- SPEED      2800 RPM
00179700   572  C21A 72          FCB     114       (    40) :021A: 'DEG    ' 20 30    KPA-MAP 2ATM
00179800   573  C21B 7A          FCB     122       (    43) :021B: 'DEG    ' 25 40
00179900   574  C21C 7A          FCB     122       (    43) :021C: 'DEG    ' 30 50
00180000   575  C21D 72          FCB     114       (    40) :021D: 'DEG    ' 35 60
00180100   576  C21E 72          FCB     114       (    40) :021E: 'DEG    ' 40 70
00180200   577  C21F 5E          FCB     94        (    33) :021F: 'DEG    ' 45 80
00180300   578  C220 4D          FCB     77        (    27) :0220: 'DEG    ' 50 90
00180400   579  C221 41          FCB     65        (    23) :0221: 'DEG    ' 55 100
00180500   580  C222 3C          FCB     60        (    21) :0222: 'DEG    ' 60 110
00180600   581  C223 39          FCB     57        (    20) :0223: 'DEG    ' 65 120
00180700   582  C224 36          FCB     54        (    19) :0224: 'DEG    ' 70 130
00180800   583  C225 36          FCB     54        (    19) :0225: 'DEG    ' 75 140
00180900   584  C226 2E          FCB     46        (    16) :0226: 'DEG    ' 80 150
00181000   585  C227 2B          FCB     43        (    15) :0227: 'DEG    ' 85 160
00181100   586  C228 2B          FCB     43        (    15) :0228: 'DEG    ' 90 170
00181200   587  C229 2B          FCB     43        (    15) :0229: 'DEG    ' 95 180
00181300   588  C22A 2B          FCB     43        (    15) :022A: 'DEG    ' 100 190

00181600                  * -------------------------------- SPEED      3200 RPM
00181700   589  C22B 72          FCB     114       (    40) :022B: 'DEG    ' 20 30    KPA-MAP 2ATM
00181800   590  C22C 7A          FCB     122       (    43) :022C: 'DEG    ' 25 40
00181900   591  C22D 7A          FCB     122       (    43) :022D: 'DEG    ' 30 50
00182000   592  C22E 72          FCB     114       (    40) :022E: 'DEG    ' 35 60
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DATAEST

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00182100   593  C22F 72        FCB   114        (   40) :022F: 'DEG  ' 40 70
00182200   594  C230 64        FCB   100        (   35) :0230: 'DEG  ' 45 80
00182300   595  C231 50        FCB   80         (   28) :0231: 'DEG  ' 50 90
00182400   596  C232 47        FCB   71         (   25) :0232: 'DEG  ' 55 100
00182500   597  C233 3F        FCB   63         (   22) :0233: 'DEG  ' 60 110
00182600   598  C234 39        FCB   57         (   20) :0234: 'DEG  ' 65 120
00182700   599  C235 36        FCB   54         (   19) :0235: 'DEG  ' 70 130
00182800   600  C236 39        FCB   57         (   20) :0236: 'DEG  ' 75 140
00182900   601  C237 2E        FCB   46         (   16) :0237: 'DEG  ' 80 150
00183000   602  C238 28        FCB   40         (   14) :0238: 'DEG  ' 85 160
00183100   603  C239 28        FCB   40         (   14) :0239: 'DEG  ' 90 170
00183200   604  C23A 28        FCB   40         (   14) :023A: 'DEG  ' 95 180
00183300   605  C23B 28        FCB   40         (   14) :023B: 'DEG  ' 100 190

00183600                  * -------------------------------- SPEED      3600 RPM
00183700   606  C23C 6C        FCB   108        (   38) :023C: 'DEG  ' 20 30     KPA-MAP 2AIM
00183800   607  C23D 7D        FCB   125        (   44) :023D: 'DEG  ' 25 40
00183900   608  C23E 7D        FCB   125        (   44) :023E: 'DEG  ' 30 50
00184000   609  C23F 7A        FCB   122        (   43) :023F: 'DEG  ' 35 60
00184100   610  C240 72        FCB   114        (   40) :0240: 'DEG  ' 40 70
00184200   611  C241 66        FCB   102        (   36) :0241: 'DEG  ' 45 80
00184300   612  C242 55        FCB   85         (   30) :0242: 'DEG  ' 50 90
00184400   613  C243 47        FCB   71         (   25) :0243: 'DEG  ' 55 100
00184500   614  C244 41        FCB   65         (   23) :0244: 'DEG  ' 60 110
00184600   615  C245 3F        FCB   63         (   22) :0245: 'DEG  ' 65 120
00184700   616  C246 3C        FCB   60         (   21) :0246: 'DEG  ' 70 130
00184800   617  C247 39        FCB   57         (   20) :0247: 'DEG  ' 75 140
00184900   618  C248 2E        FCB   46         (   16) :0248: 'DEG  ' 80 150
00185000   619  C249 28        FCB   40         (   14) :0249: 'DEG  ' 85 160
00185100   620  C24A 25        FCB   37         (   13) :024A: 'DEG  ' 90 170
00185200   621  C24B 25        FCB   37         (   13) :024B: 'DEG  ' 95 180
00185300   622  C24C 25        FCB   37         (   13) :024C: 'DEG  ' 100 190

00185600                  * -------------------------------- SPEED      4000 RPM
00185700   623  C24D 6C        FCB   108        (   38) :024D: 'DEG  ' 20 30     KPA-MAP 2AIM
00185800   624  C24E 7D        FCB   125        (   44) :024E: 'DEG  ' 25 40
00185900   625  C24F 83        FCB   131        (   46) :024F: 'DEG  ' 30 50
00186000   626  C250 83        FCB   131        (   46) :0250: 'DEG  ' 35 60
00186100   627  C251 72        FCB   114        (   40) :0251: 'DEG  ' 40 70
00186200   628  C252 66        FCB   102        (   36) :0252: 'DEG  ' 45 80
00186300   629  C253 55        FCB   85         (   30) :0253: 'DEG  ' 50 90
00186400   630  C254 4A        FCB   74         (   26) :0254: 'DEG  ' 55 100
00186500   631  C255 41        FCB   65         (   23) :0255: 'DEG  ' 60 110
00186600   632  C256 3F        FCB   63         (   22) :0256: 'DEG  ' 65 120
00186700   633  C257 39        FCB   57         (   20) :0257: 'DEG  ' 70 130
00186800   634  C258 33        FCB   51         (   18) :0258: 'DEG  ' 75 140
00186900   635  C259 2B        FCB   43         (   15) :0259: 'DEG  ' 80 150
00187000   636  C25A 28        FCB   40         (   14) :025A: 'DEG  ' 85 160
00187100   637  C25B 25        FCB   37         (   13) :025B: 'DEG  ' 90 170
00187200   638  C25C 25        FCB   37         (   13) :025C: 'DEG  ' 95 180
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00187300   639   C25D 25                  FCB     37            (        13) :025D: 'DEG     ' 100 190

00187600                         *----------------------------------------- SPEED      4400 RPM        KPA-MAP 2AIM
00187700   640   C25E 6C                  FCB     108           (        38) :025E: 'DEG     ' 20 30
00187800   641   C25F 7D                  FCB     125           (        44) :025F: 'DEG     ' 25 40
00187900   642   C260 83                  FCB     131           (        46) :0260: 'DEG     ' 30 50
00188000   643   C261 83                  FCB     131           (        46) :0261: 'DEG     ' 35 60
00188100   644   C262 72                  FCB     114           (        40) :0262: 'DEG     ' 40 70
00188200   645   C263 66                  FCB     102           (        36) :0263: 'DEG     ' 45 80
00188300   646   C264 55                  FCB     85            (        30) :0264: 'DEG     ' 50 90
00188400   647   C265 4A                  FCB     74            (        26) :0265: 'DEG     ' 55 100
00188500   648   C266 41                  FCB     65            (        23) :0266: 'DEG     ' 60 110
00188600   649   C267 39                  FCB     57            (        20) :0267: 'DEG     ' 65 120
00188700   650   C268 39                  FCB     57            (        20) :0268: 'DEG     ' 70 130
00188800   651   C269 30                  FCB     48            (        17) :0269: 'DEG     ' 75 140
00188900   652   C26A 2B                  FCB     43            (        15) :026A: 'DEG     ' 80 150
00189000   653   C26B 28                  FCB     40            (        14) :026B: 'DEG     ' 85 160
00189100   654   C26C 28                  FCB     40            (        14) :026C: 'DEG     ' 90 170
00189200   655   C26D 28                  FCB     40            (        14) :026D: 'DEG     ' 95 180
00189300   656   C26E 28                  FCB     40            (        14) :026E: 'DEG     ' 100 190

00189600                         *----------------------------------------- SPEED      4800 RPM        KPA-MAP 2AIM
00189700   657   C26F 6C                  FCB     108           (        38) :026F: 'DEG     ' 20 30
00189800   658   C270 7D                  FCB     125           (        44) :0270: 'DEG     ' 25 40
00189900   659   C271 83                  FCB     131           (        46) :0271: 'DEG     ' 30 50
00190000   660   C272 83                  FCB     131           (        46) :0272: 'DEG     ' 35 60
00190100   661   C273 72                  FCB     114           (        40) :0273: 'DEG     ' 40 70
00190200   662   C274 66                  FCB     102           (        36) :0274: 'DEG     ' 45 80
00190300   663   C275 55                  FCB     85            (        30) :0275: 'DEG     ' 50 90
00190400   664   C276 4A                  FCB     74            (        26) :0276: 'DEG     ' 55 100
00190500   665   C277 41                  FCB     65            (        23) :0277: 'DEG     ' 60 110
00190600   666   C278 39                  FCB     57            (        20) :0278: 'DEG     ' 65 120
00190700   667   C279 39                  FCB     57            (        20) :0279: 'DEG     ' 70 130
00190800   668   C27A 30                  FCB     48            (        17) :027A: 'DEG     ' 75 140
00190900   669   C27B 30                  FCB     48            (        17) :027B: 'DEG     ' 80 150
00191000   670   C27C 30                  FCB     48            (        17) :027C: 'DEG     ' 85 160
00191100   671   C27D 30                  FCB     48            (        17) :027D: 'DEG     ' 90 170
00191200   672   C27E 30                  FCB     48            (        17) :027E: 'DEG     ' 95 180
00191300   673   C27F 30                  FCB     48            (        17) :027F: 'DEG     ' 100 190


00191500                         *#################################################################
00191600                         *  F2 TABLE       SATCP                 CF.KCTBIAS                #
00191700                         *  BASE COOLANT ADVANCE CORRECTION VS. LOAD AND COOLANT           #
00191800                         *#################################################################

00192000                         *-                                      :  ::TBL3DL,15,5,TBL13,3,TBL4,9,2,'DEG'
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::PO188B GMCM MACRO CROSS ASSEMBLER RELEASE 4.04  DATASET:
        SECURE LIBRARY PROGRAM AND LEVEL: PO188BAB01
DATAEST

00192100                             *-                                 :                  ::
00192200                             * -----------------------------------------------------------------
00192300  674  C280 00               F2E     FCB    0                   (          0) :0280: '        ' LOAD SELECTOR
                                                                                        (0=NVACLD, 1=NMAPLD)
00192400                             *-                                 :           ::EQU N=E ::
00192500                             *-                                 :           ::PROTECT ::
00192600                             *-
00192700                             * -----------------------------------------------------------------
00192800  675  C281 20                       FCB    32                  (         32) :0281: '        ' R MIN; R = COOLDEG
00192900                             *-                                 :           ::EQU N=E ::
00193000                             * -----------------------------------------------------------------
00193100  676  C282 40                       FCB    64                  (         64) :0282: '        ' Q MIN; Q = LOAD
00193200                             *-                                 :           ::EQU N=E ::
00193300                             * -----------------------------------------------------------------
00193400  677  C283 05                       FCB    5                   (          5) :0283: '        ' R NUM
00193500                             *-                                 :           ::EQU N=E ::
00193600                             *-                                 :           ::NOPROTECT ::

00193800                             * -16 DEG. C                       VAC                MAP

00194000                             * ------------------------------------------ COOLTEMP     -16 DEG C
00194100  678  C284 50                       FCB    80                  (          8) :0284: 'DEG     '    40      KPA-VAC
00194200                             *-                                 :           ::EQU N=(E+KCTBIAS)*256/90 ::
00194300  679  C285 50                       FCB    80                  (          8) :0285: 'DEG     '    30
00194400  680  C286 47                       FCB    71                  (          5) :0286: 'DEG     '    20
00194500  681  C287 39                       FCB    57                  (          0) :0287: 'DEG     '    10
00194600  682  C288 39                       FCB    57                  (          0) :0288: 'DEG     '    0

00194900                             * ------------------------------------------ COOLTEMP     -4 DEG C
00195000  683  C289 50                       FCB    80                  (          8) :0289: 'DEG     '    40      KPA-VAC
00195100  684  C28A 50                       FCB    80                  (          8) :028A: 'DEG     '    30
00195200  685  C28B 39                       FCB    57                  (          0) :028B: 'DEG     '    20
00195300  686  C28C 39                       FCB    57                  (          0) :028C: 'DEG     '    10
00195400  687  C28D 39                       FCB    57                  (          0) :028D: 'DEG     '    0

00195700                             * ------------------------------------------ COOLTEMP     8 DEG C
00195800  688  C28E 50                       FCB    80                  (          8) :028E: 'DEG     '    40      KPA-VAC
00195900  689  C28F 50                       FCB    80                  (          8) :028F: 'DEG     '    30
00196000  690  C290 39                       FCB    57                  (          0) :0290: 'DEG     '    20
00196100  691  C291 39                       FCB    57                  (          0) :0291: 'DEG     '    10
00196200  692  C292 39                       FCB    57                  (          0) :0292: 'DEG     '    0

00196500                             * ------------------------------------------ COOLTEMP     20 DEG C
00196600  693  C293 50                       FCB    80                  (          8) :0293: 'DEG     '    40      KPA-VAC
00196700  694  C294 50                       FCB    80                  (          8) :0294: 'DEG     '    30
00196800  695  C295 39                       FCB    57                  (          0) :0295: 'DEG     '    20
00196900  696  C296 39                       FCB    57                  (          0) :0296: 'DEG     '    10
00197000  697  C297 39                       FCB    57                  (          0) :0297: 'DEG     '    0
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00197300                                  * ------------------------------------------ COOLTEMP     32 DEG C
00197400   698  C298 47              FCB    71                (        5) :0298: 'DEG    '    40     KPA VAC
00197500   699  C299 40              FCB    64                (      2.5) :0299: 'DEG    '    30
00197600   700  C29A 39              FCB    57                (        0) :029A: 'DEG    '    20
00197700   701  C29B 39              FCB    57                (        0) :029B: 'DEG    '    10
00197800   702  C29C 39              FCB    57                (        0) :029C: 'DEG    '     0

00198100                                  * ------------------------------------------ COOLTEMP     44 DEG C
00198200   703  C29D 39              FCB    57                (        0) :029D: 'DEG    '    40     KPA-VAC
00198300   704  C29E 39              FCB    57                (        0) :029E: 'DEG    '    30
00198400   705  C29F 39              FCB    57                (        0) :029F: 'DEG    '    20
00198500   706  C2A0 39              FCB    57                (        0) :02A0: 'DEG    '    10
00198600   707  C2A1 39              FCB    57                (        0) :02A1: 'DEG    '     0

00198900                                  * ------------------------------------------ COOLTEMP     56 DEG C
00199000   708  C2A2 39              FCB    57                (        0) :02A2: 'DEG    '    40     KPA-VAC
00199100   709  C2A3 39              FCB    57                (        0) :02A3: 'DEG    '    30
00199200   710  C2A4 39              FCB    57                (        0) :02A4: 'DEG    '    20
00199300   711  C2A5 39              FCB    57                (        0) :02A5: 'DEG    '    10
00199400   712  C2A6 39              FCB    57                (        0) :02A6: 'DEG    '     0

00199700                                  * ------------------------------------------ COOLTEMP     68 DEG C
00199800   713  C2A7 39              FCB    57                (        0) :02A7: 'DEG    '    40     KPA-VAC
00199900   714  C2A8 39              FCB    57                (        0) :02A8: 'DEG    '    30
00200000   715  C2A9 39              FCB    57                (        0) :02A9: 'DEG    '    20
00200100   716  C2AA 39              FCB    57                (        0) :02AA: 'DEG    '    10
00200200   717  C2AB 39              FCB    57                (        0) :02AB: 'DEG    '     0

00200500                                  * ------------------------------------------ COOLTEMP     80 DEG C
00200600   718  C2AC 39              FCB    57                (        0) :02AC: 'DEG    '    40     KPA-VAC
00200700   719  C2AD 39              FCB    57                (        0) :02AD: 'DEG    '    30
00200800   720  C2AE 39              FCB    57                (        0) :02AE: 'DEG    '    20
00200900   721  C2AF 39              FCB    57                (        0) :C2AF: 'DEG    '    10
00201000   722  C2B0 39              FCB    57                (        0) :02B0: 'DEG    '     0

00201300                                  * ------------------------------------------ COOLTEMP     92 DEG C
00201400   723  C2B1 39              FCB    57                (        0) :02B1: 'DEG    '    40     KPA-VAC
00201500   724  C2B2 39              FCB    57                (        0) :02B2: 'DEG    '    30
00201600   725  C2B3 39              FCB    57                (        0) :02B3: 'DEG    '    20
00201700   726  C2B4 39              FCB    57                (        0) :02B4: 'DEG    '    10
00201800   727  C2B5 39              FCB    57                (        0) :02B5: 'DEG    '     0

00202100                                  * ------------------------------------------ COOLTEMP    104 DEG C
00202200   728  C2B6 39              FCB    57                (        0) :02B6: 'DEG    '    40     KPA-VAC
00202300   729  C2B7 39              FCB    57                (        0) :02B7: 'DEG    '    30
00202400   730  C2B8 39              FCB    57                (        0) :02B8: 'DEG    '    20
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```
DATAEST
00202500   731  C2B9 39            FCB    57               (        0) :02B9: 'DEG     '      10
00202600   732  C2BA 39            FCB    57               (        0) :02BA: 'DEG     '       0

00202900                    * ------------------------------------ COOLTEMP    116 DEG C
00203000   733  C2BB 39            FCB    57               (        0) :02BB: 'DEG     '      40    KPA-VAC
00203100   734  C2BC 39            FCB    57               (        0) :02BC: 'DEG     '      30
00203200   735  C2BD 39            FCB    57               (        0) :02BD: 'DEG     '      20
00203300   736  C2BE 39            FCB    57               (        0) :02BE: 'DEG     '      10
00203400   737  C2BF 39            FCB    57               (        0) :02BF: 'DEG     '       0

00203700                    * ------------------------------------ COOLTEMP    128 DEG C
00203800   738  C2C0 39            FCB    57               (        0) :02C0: 'DEG     '      40    KPA-VAC
00203900   739  C2C1 39            FCB    57               (        0) :02C1: 'DEG     '      30
00204000   740  C2C2 39            FCB    57               (        0) :02C2: 'DEG     '      20
00204100   741  C2C3 39            FCB    57               (        0) :02C3: 'DEG     '      10
00204200   742  C2C4 39            FCB    57               (        0) :02C4: 'DEG     '       0

00204500                    * ------------------------------------ COOLTEMP    140 DEG C
00204600   743  C2C5 39            FCB    57               (        0) :02C5: 'DEG     '      40    KPA-VAC
00204700   744  C2C6 39            FCB    57               (        0) :02C6: 'DEG     '      30
00204800   745  C2C7 39            FCB    57               (        0) :02C7: 'DEG     '      20
00204900   746  C2C8 39            FCB    57               (        0) :02C8: 'DEG     '      10
00205000   747  C2C9 39            FCB    57               (        0) :02C9: 'DEG     '       0

00205300                    * ------------------------------------ COOLTEMP    152 DEG C
00205400   748  C2CA 39            FCB    57               (        0) :02CA: 'DEG     '      40    KPA-VAC
00205500   749  C2CB 39            FCB    57               (        0) :02CB: 'DEG     '      30
00205600   750  C2CC 39            FCB    57               (        0) :02CC: 'DEG     '      20
00205700   751  C2CD 39            FCB    57               (        0) :02CD: 'DEG     '      10
00205800   752  C2CE 39            FCB    57               (        0) :02CE: 'DEG     '       0

00206000                    *##############################################
00206100                    *      F3  TABLE                        CF. KBSTBIAS          #
00206200                    *   SPARK ADVANCE ADJUSTMENT VS ADMAT1K' AND BSTPRESS          #
00206300                    *                                                              #
00206400                    *   TABLE VALUE = DEG * 256/90                                 #
00206500                    *                                                              #
00206600                    *##############################################
00206700                    *-                                  :        ::PROTECT ::
00206800                    *-                                  :        ::TBL3D,5,9,TBL43,1,4,TBL44,1,'DEG'
00206900                    *-                                  :                ::
00207000                    * ----------------------------------------------------------
00207100   753  C2CF 00     F3     FCB     0               (        0)*:02CF:        ' R MIN; R=ADMAT1K'
00207200                    *-                                  :        ::EQU N=E ::
00207300                    * ----------------------------------------------------------
00207400   754  C2D0 00            FCB     0               (        0)*:02D0: '      ' Q MIN; Q=BSTPRESS
00207500                    *-                                  :        ::EQU N=E ::
00207600                    * ----------------------------------------------------------
```

```
00207700   755  C2D1 09          FCB    9           (      9) :02D1: '        ' R NUM
00207800                    *-                       :         ::EQU N=E ::
00207900                    *-                       :         ::NOPROTECT ::

00208100                    * TABLE VALUE = (DEG. + BIAS) * 256/90
00208200                    *  VERY COLD
00208300                    * ------------------------------------- TEMP      COLD DEG C
00208400   756  C2D2 39          FCB    57          (      0) :02D2: 'DEG     '   0.0   KPA-BOOST
00208500                    *-                       :         ::EQU N=(E+KBSTBIAS)*256/90 ::
00208600   757  C2D3 39          FCB    57          (      0) :02D3: 'DEG     '  12.5
00208700   758  C2D4 36          FCB    54          (     -1) :02D4: 'DEG     '  25.0
00208800   759  C2D5 34          FCB    52          (   -1.7) :02D5: 'DEG     '  37.5
00208900   760  C2D6 32          FCB    50          (   -2.4) :02D6: 'DEG     '  50.0
00209000   761  C2D7 30          FCB    48          (     -3) :02D7: 'DEG     '  62.5
00209100   762  C2D8 30          FCB    48          (     -3) :02D8: 'DEG     '  75.0
00209200   763  C2D9 30          FCB    48          (     -3) :02D9: 'DEG     '  87.5
00209300   764  C2DA 30          FCB    48          (     -3) :02DA: 'DEG     ' 100.0

00209500                    * ------------------------------------- TEMP      23.5 DEG C
00209600   765  C2DB 39          FCB    57          (      0) :02DB: 'DEG     '   0.0   KPA-BOOST
00209700   766  C2DC 39          FCB    57          (      0) :02DC: 'DEG     '  12.5
00209800   767  C2DD 36          FCB    54          (     -1) :02DD: 'DEG     '  25.0
00209900   768  C2DE 34          FCB    52          (   -1.7) :02DE: 'DEG     '  37.5
00210000   769  C2DF 32          FCB    50          (   -2.4) :02DF: 'DEG     '  50.0
00210100   770  C2E0 30          FCB    48          (     -3) :02E0: 'DEG     '  62.5
00210200   771  C2E1 30          FCB    48          (     -3) :02E1: 'DEG     '  75.0
00210300   772  C2E2 30          FCB    48          (     -3) :02E2: 'DEG     '  87.5
00210400   773  C2E3 30          FCB    48          (     -3) :02E3: 'DEG     ' 100.0

00210600                    * ------------------------------------- TEMP      49.3 DEG C
00210700   774  C2E4 39          FCB    57          (      0) :02E4: 'DEG     '   0.0   KPA-BOOST
00210800   775  C2E5 39          FCB    57          (      0) :02E5: 'DEG     '  12.5
00210900   776  C2E6 36          FCB    54          (     -1) :02E6: 'DEG     '  25.0
00211000   777  C2E7 34          FCB    52          (   -1.7) :02E7: 'DEG     '  37.5
00211100   778  C2E8 32          FCB    50          (   -2.4) :02E8: 'DEG     '  50.0
00211200   779  C2E9 30          FCB    48          (     -3) :02E9: 'DEG     '  62.5
00211300   780  C2EA 30          FCB    48          (     -3) :02EA: 'DEG     '  75.0
00211400   781  C2EB 30          FCB    48          (     -3) :02EB: 'DEG     '  87.5
00211500   782  C2EC 30          FCB    48          (     -3) :02EC: 'DEG     ' 100.0

00211700                    * ------------------------------------- TEMP      80.0 DEG C
00211800   783  C2ED 39          FCB    57          (      0) :02ED: 'DEG     '   0.0   KPA-BOOST
00211900   784  C2EE 39          FCB    57          (      0) :02EE: 'DEG     '  12.5
00212000   785  C2EF 36          FCB    54          (     -1) :02EF: 'DEG     '  25.0
00212100   786  C2F0 34          FCB    52          (   -1.7) :02F0: 'DEG     '  37.5
00212200   787  C2F1 32          FCB    50          (   -2.4) :02F1: 'DEG     '  50.0
00212300   788  C2F2 30          FCB    48          (     -3) :02F2: 'DEG     '  62.5
00212400   789  C2F3 30          FCB    48          (     -3) :02F3: 'DEG     '  75.0
00212500   790  C2F4 30          FCB    48          (     -3) :02F4: 'DEG     '  87.5
00212600   791  C2F5 30          FCB    48          (     -3) :02F5: 'DEG     ' 100.0

00212800                    * ------------------------------------- TEMP      HOT DEG C
```

```
DATAEST
00212900   792  C2F6 39            FCB    57        (      0) :02F6: 'DEG    '   0.0    KPA-BOOST
00213000   793  C2F7 39            FCB    57        (      0) :02F7: 'DEG    '  12.5
00213100   794  C2F8 36            FCB    54        (     -1) :02F8: 'DEG    '  25.0
00213200   795  C2F9 34            FCB    52        (   -1.7) :02F9: 'DEG    '  37.5
00213300   796  C2FA 32            FCB    50        (   -2.4) :02FA: 'DEG    '  50.0
00213400   797  C2FB 30            FCB    48        (     -3) :02FB: 'DEG    '  62.5
00213500   798  C2FC 30            FCB    48        (     -3) :02FC: 'DEG    '  75.0
00213600   799  C2FD 30            FCB    48        (     -3) :02FD: 'DEG    '  87.5
00213700   800  C2FE 30            FCB    48        (     -3) :02FE: 'DEG    ' 100.0

00214000                 *##############################################
00214100                 *  F4  TABLE     SAEGR          CF.KEGRBIAS    #
00214200                 *  EGR SPARK ADVANCE VS. %EGR                  #
00214300                 *##############################################
                                                        :  ::TBL2D,17,TBL38,1,'DEG' ::
00214500                 *-
00214600                 *  ----------------------------------------------------
00214700   801  C2FF 39  F4D       FCB    57        (      0) :02FF: 'DEG    '   0       %-EGR
00214800                 *-                             :  ::EQU N=(E+KEGRBIAS)*256/90 ::
00214900   802  C300 39            FCB    57        (      0) :0300: 'DEG    '   1.6
00215000   803  C301 39            FCB    57        (      0) :0301: 'DEG    '   3.2
00215100   804  C302 39            FCB    57        (      0) :0302: 'DEG    '   4.8
00215200   805  C303 39            FCB    57        (      0) :0303: 'DEG    '   6.4
00215300   806  C304 39            FCB    57        (      0) :0304: 'DEG    '   8.0
00215400   807  C305 39            FCB    57        (      0) :0305: 'DEG    '   9.6
00215500   808  C306 39            FCB    57        (      0) :0306: 'DEG    '  11.2
00215600   809  C307 39            FCB    57        (      0) :0307: 'DEG    '  12.8
00215700   810  C308 39            FCB    57        (      0) :0308: 'DEG    '  14.4
00215800   811  C309 39            FCB    57        (      0) :0309: 'DEG    '  16.0
00215900   812  C30A 39            FCB    57        (      0) :030A: 'DEG    '  17.6
00216000   813  C30B 39            FCB    57        (      0) :030B: 'DEG    '  19.2
00216100   814  C30C 39            FCB    57        (      0) :030C: 'DEG    '  20.8
00216200   815  C30D 39            FCB    57        (      0) :030D: 'DEG    '  22.4
00216300   816  C30E 39            FCB    57        (      0) :030E: 'DEG    '  24.0
00216400   817  C30F 39            FCB    57        (      0) :030F: 'DEG    '  25.6

00216600                 ***********************************************
00216700                 *   F80 TABLE                                 *
00216800                 *                                             *
00216900                 *     POWER ENRICHMENT CONTRIBUTION TO SPARK ADVANCE  *
00217000                 *     DEGREES ADVANCE  VS.  NTRPMX            *
00217100                 ***********************************************
                                                        :  ::TBL2D,5,2,TBL7,1,4,'DEG' ::
00217300                 *-                             :  ::PROTECT ::
00217400                 *-                             :
00217500                 *  ----------------------------------------------------
00217600   818  C310 04  F80       FCB    4         (      4) :0310: '       ' USE 5 VALUE TABLE
00217700                 *-                             :  ::EQU N=E ::
00217800                 *-                             :  ::NOPROTECT ::

00218000                 *  ----------------------------------------------------
```

```
DATAEST
00218100  819  C311 00              FCB     0        (        0) :0311: 'DEG     '      0    RPM-SPEED
00218200                      *-                     :          ::EQU N=E*256/90 ::
00218300  820  C312 07              FCB     7        (      2.5) :0312: 'DEG     '   1600
00218400  821  C313 0E              FCB     14       (        5) :0313: 'DEG     '   3200
00218500  822  C314 0E              FCB     14       (        5) :0314: 'DEG     '   4800
00218600  823  C315 0E              FCB     14       (        5) :0315: 'DEG     '   6400

00218800                      *##############################################
00218900                      *       F46 TABLE                             #
00219000                      *    INITIAL SPARK ADVANCE TO BE RAMPED OUT   #
00219100                      *         VERSUS COOLANT TEMPERATURE          #
00219200                      *   TABLE VALUE = DEGREES ADVANCE * 256/90    #
00219300                      *                                             #
00219400                      *##############################################
00219500                      *-                     :          ::TBL2D,5,TBL13,1,2,'DEG' ::
00219600                      *------------------------------------------------------------
00219700  824  C316 39        F46   FCB     57       (       20) :0316: 'DEG     '    -40  DEG C-COOLTEMP
00219800                      *-                     :          ::EQU N=E*256/90 ::
00219900  825  C317 30              FCB     48       (       17) :0317: 'DEG     '    -16
00220000  826  C318 17              FCB     23       (        8) :0318: 'DEG     '      8
00220100  827  C319 06              FCB     6        (        2) :0319: 'DEG     '     32
00220200  828  C31A 00              FCB     0        (        0) :031A: 'DEG     '     56

00220400                      ******************
00220500                      * ESC TABLES     *
00220600                      ******************

00220800                      **************************************
00220900                      * F6 TABLE                           *
00221000                      * ESC ATTACK RATE VS. RPM (NTRPMX)   *
00221100                      **************************************
00221200                      *
00221300                      *  TABLE VALUE ATTACK RATE IN DEGREES/MSEC  / .0225
00221400                      *-                     :          ::TBL2D,5,2,TBL7,1,4,'DEG/MS' ::
00221500                      *-                     :          ::PROTECT ::
00221600                      *------------------------------------------------------------
00221700  829  C31B 04        F6B   FCB     4        (        4) :031B: '        ' USE 5 VALUE TABLE
00221800                      *-                     :          ::EQU N=E ::
00221900                      *-                     :          ::NOPROTECT ::
00222000                      *------------------------------------------------------------
00222100  830  C31C 08              FCB     8        (     0.18) :031C: 'DEG/MS'      0    RPM-SPEED
00222200                      *-                     :          ::EQU N=E/.0225 ::
00222300  831  C31D 08              FCB     8        (     0.18) :031D: 'DEG/MS'   1600
00222400  832  C31E 05              FCB     5        (     0.11) :031E: 'DEG/MS'   3200
00222500  833  C31F 08              FCB     8        (     0.18) :031F: 'DEG/MS'   4800
00222600  834  C320 08              FCB     8        (     0.18) :0320: 'DEG/MS'   6400

00222800                      ******************************************
00222900                      * F7 TABLE                               *
00223000                      * ESC % RECOVERY RATE VS RPM (NTRPMX)    *
00223100                      ******************************************
00223200                      *
```

```
DATAEST
                                 *  TABLE VALUE:PER CENT RECOVERY PER SECOND * 256/500
                                 *-                                     :        ::TBL2D,5,2,TBL7,1,4,'%/SEC' ::
                                 *-                                     :        ::PROTECT ::
                                 * -------------------------------------------------------------------------
         835  C321 04            F78       FCB    4                     (      4) :0321: '        ' USE 5 VALUE TABLE
                                 *-                                     :        ::EQU N=E ::
                                 *-                                     :        ::NOPROTECT ::
                                 * -------------------------------------------------------------------------
         836  C322 08                      FCB    8                     (     16) :0322: '%/SEC '      0    RPM-SPEED
                                 *-                                     :        ::EQU N=E+256/500 ::
         837  C323 08                      FCB    8                     (     16) :0323: '%/SEC '   1600
         838  C324 08                      FCB    8                     (     16) :0324: '%/SEC '   3200
         839  C325 08                      FCB    8                     (     16) :0325: '%/SEC '   4800
         840  C326 08                      FCB    8                     (     16) :0326: '%/SEC '   6400
```

```
00224700                        ++DATATBI ++BLOCK ID++

00224900                        ************************************
00225000                        * AIR FUEL PARAMETERS               *
00225100                        ************************************

00225300                        * ---------------------------------------------------------------------
00225400  841  C327 9A          KRAFTDM  FCB    154                (      0.6) :0327: 'FACTOR' CRANK-TO-RUN A/F
00225500                        *-                                  :                  BLEND DECAY MULTIPLIER
00225600                        *-                                  :              ::EQU N=E*256 ::
00225700                        * ---------------------------------------------------------------------
00225800  842  C328 90          KDISFS   FCB    144                (      4.5) :0328: 'GL/HR ' SINGLE INJECTOR FLOW
00225900                        *-                                  :                  RATE IN GALLONS/HOUR
00226000                        *-                                  :              ::EQU N=E*32 ::
00226100                        * ---------------------------------------------------------------------
00226200  843  C329 15          KCAFTI   FCB    21                 (      2.1) :0329: 'RATIO ' INITIAL CRANK A/F
00226300                        *-                                  :                  DELTA
00226400                        *-                                  :              ::EQU N=E*10 ::
00226500                        * ---------------------------------------------------------------------
00226600  844  C32A 05          KCFTM    FCB    5                  (      1.2) :032A: 'SEC   ' CRANK A/F DECAY DELTA
00226700                        *-                                  :                  TIME
00226800                        *-                                  :              ::EQU N=E*5-1 ::
00226900                        * ---------------------------------------------------------------------
00227000  845  C32B 08          KCFTM1   FCB    8                  (        8) :032B: '      ' # OF REF PULSES
00227100                        *-                                  :                  BEFORE CRANK FUEL DECAY
00227200                        *-                                  :              ::EQU N=E ::
00227300                        * ---------------------------------------------------------------------
00227400  846  C32C 0A          KCFTM2   FCB    10                 (       10) :032C: '      ' # OF REF PULSES
00227500                        *-                                  :                  BETWEEN CRANK DECAY LOOPS
00227600                        *-                                  :              ::EQU N=E ::
00227700                        * ---------------------------------------------------------------------
00227800  847  C32D E5          KCAFDM   FCB    229                (     89.4) :032D: '%     ' CRANK A/F TIME OUT
00227900                        *-                                  :                  DECAY MULTIPLIER
00228000                        *-                                  :              ::EQU N=E*2.56 ::
00228100                        * ---------------------------------------------------------------------
00228200  848  C32E 66          K3       FCB    102                (       63) :032E: '% TPS ' THROTTLE HIGH -
00228300                        *-                                  :                  THROTTLE LOW
00228400                        *-                                  : NIPSID = K3*(ADTHRO1-K4); K4 IS INITIAL CONDITION
00228500                        *-                                  :              ::IF(E.EQ.0)N=E ::
00228600                        *-                                  :              ::IF(E.NE.0)N=6400/E ::
00228700                        * ---------------------------------------------------------------------
00228800  849  C32F 4D          K4       FCB    77                 (       77) :032F: 'CTS   ' INITIAL BASE THROTTLE
00228900                        *-                                  :                  POSITION IN A/D COUNTS
00229000                        *-                                  :              ::EQU N=E ::
00229100                        * ---------------------------------------------------------------------
00229200  850  C330 0F          KTAOFF   FCB    15                 (     0.06) :0330: 'COEF  ' LOW THROTTLE POSITION
00229300                        *-                                  :                  FILTER COEFFICIENT, N.D.
00229400                        *-                                  :              ::EQU N=E*256 ::
00229500                        * ---------------------------------------------------------------------
00229600  851  C331 71          KO2FFO   FCB    113                (      0.5) :0331: 'VOLTS ' O2 FILTERS'
```

```
                                                                 INITIALIZATION VALUE,VOLTS *
                    *-                                  :        226
                    *-                                  :     ::EQU N=E*226 ::
                    *-                                  :
                    * ----------------------------------------------------------
 852  C332 B8       KAFOPT1  FCB    %10111000           (%10111000) :0332: 'N     ' AIR FUEL OPTION FLAG
                                                        :        WORD 1
                    *-                                  :     ::EQU N=E ::
                    *-
                    *          BIT    DESCRIPTION
                    *           0       1 = BPW MOD; O = EGR MOD SELECTED
                    *           1       1 = NOT USED
                    *           2       1 = NOT USED
                    *           3       1 = OPTIONAL EXPONENTIAL CRANK A/F TIMEOUT SELECTED
                    *           4       1 = NOT USED
                    *           5       1 = CALCULATE MPG FOR HUD DISPLAY
                    *           6       X = NOT USED
                    *           7       1 = MANUAL SHIFT LOGIC; O = AUTOMATIC TCC LOGIC

                    * ----------------------------------------------------------
 853  C333 EO       KAFOPT2  FCB    %11100000           (%11100000) :0333: 'N     ' AIR FUEL OPTION FLAG
                    *-                                  :        WORD 2
                    *-                                  :     ::EQU N=E ::
                    *          BIT    DESCRIPTION
                    *           0       1 = NOT USED
                    *           1       O = 6.25 MS IAC OUTPUT; 1 = 3.125 MS IAC OUTPUT
                    *           2       1 = A/C V5 FAN DISCRETE OPTION SELECTED
                    *           3       1 = MAT OPTION FOR V5 COOLING FAN LOGIC (COLD)
                    *           4       1 = MAT TRANSIENT FUEL FILTER TEMP THRESHOLD
                    *           5       1 = INVMAT OPTION
                    *           6       1 = IAC LEARN DURING P/S LOAD
                    *           7       1 = MAP READ SYNCH. WITH EVERY 2X REF PULSE

                    * ----------------------------------------------------------
 854  C334 6D       KAFOPT3  FCB    %01101101           (%01101101) :0334: 'N     ' AIR FUEL OPTION FLAG
                    *-                                  :        WORD 3
                    *-                                  :     ::EQU N=E ::
                    *          BIT    DESCRIPTION
                    *           0       1 = ESC OPTION SELECTED
                    *           1       1 = INITIALIZE ISWWAC OPTION
                    *           2       1 = EVRV EGR CALCULATION OPTION
                    *           3       1 = LIMIT BOOST DURING 1ST ACCEL OPTION
                    *           4       1 = USE FILTERED THROTTLE IN DECEL ENLEAN LOGIC
                    *           5       1 = 2 ATM MAP OPTION
                    *           6       1 = MAGNETIC SPEED SENSOR
                    *           7       1 = NOT USED

                    * ----------------------------------------------------------
 855  C335 CO       KSYNRPMH FCB    192                 (      4800) :0335: 'RPM    ' HI RPM HYST VALUE FOR
                    *-                                  :        SYNC MAP ENABLE
                    *-                                  :     ::EQU N=E/25 ::
                    * ----------------------------------------------------------
 856  C336 B8       KSYNRPML FCB    184                 (      4600) :0336: 'RPM    ' LO RPM HYST VALUE FOR
                    *-                                  :        SYNC MAP ENABLE
```

```
                         *-                              ::EQU N=E/25 ::

                         * ----------------------------------------
857  C337 FF             KAEPMDTA FCB    255    (   79.7) :0337: 'KPA    ' AE DELTA MAP
                                                          THRESHOLD FOR TRANS.FUEL MODE
                         *-                              ::EQU N=E*3.2 ::
                         *-
                         * ----------------------------------------
858  C338 0B             KAEPMTH  FCB    11     (    3.4) :0338: 'KPA    ' AE DELTA MAP
                                                          THRESHOLD, NMAPLD UNITS
                         *-                              ::EQU N=E*3.2 ::
                         *-
                         * ----------------------------------------
859  C339 00             KAEPMTPS FCB    0      (      0) :0339: '%      ' AE TPS THRESHOLD FOR
                                                          DOUBLING DELTA MAP THRESHOLD
                         *-                              ::TBL4,3 ::
                         *-
                         * ----------------------------------------
860  C33A FF             KAETATR  FCB    255    (    100) :033A: '%      ' AE THROTTLE THRESHOLD
                                                          FOR MAP CONTRIB.
                         *-                              ::TBL4,3 ::
                         *-
                         * ----------------------------------------
861  C33B 05             KAETATH  FCB    5      (      2) :033B: '%      ' AE DELTA THROTTLE
                                                          THRESHOLD, NTPSLD UNITS
                         *-                              ::EQU N=E*2.56 ::
                         *-
                         * ----------------------------------------
862  C33C 00             KAEISCN  FCB    0      (      0) :033C: 'MSEC   ' AE IDLE AIR CONTROL
                                                          CONTRIBUTION, MSEC*16.384
                         *-                              ::EQU N=E*16.384 ::
                         *-
                         * ----------------------------------------
863  C33D 8C             KTFFTT   FCB    140    (     65) :033D: 'DEG C  ' TRANSIENT FUEL FILTER
                                                          TEMP THRESHOLD (CLT)
                         *-                              ::EQU N=(E+40)*256/192 ::
                         *-
                         * ----------------------------------------
864  C33E C0             KTFFTTM  FCB    192    (   23.5) :033E: 'DEG C  ' TRANSIENT FUEL FILTER
                                                          TEMP THRESHOLD (MAT)
                         *-                              ::TBL3,ADMAT1K ::
                         *-
                         *
                         *  THE ORDER OF THE FOLLOWING TWO PARAMETERS MUST BE PRESERVED
                         *
                         * ----------------------------------------
865  C33F A0             KFILTTAC FCB    160    (  0.625) :033F: 'COEF   ' COLD THROTTLE ANGLE
                                                          FILTER COEFFICIENT, N.D.
                         *-                              ::EQU N=E*256 ::
                         *-
                         * ----------------------------------------
866  C340 12             KFILTPMC FCB    18     (   0.07) :0340: 'COEF   ' COLD MAN. PRESSURE
                                                          FILTER COEFFICIENT, N.D.
                         *-                              ::EQU N=E*256 ::
                         *-
                         *
                         *  THE ORDER OF THE PRECEEDING TWO PARAMETERS MUST BE PRESERVED
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                          *  THE ORDER OF THE FOLLOWING TWO PARAMETERS MUST BE PRESERVED
                          *
                          * ---------------------------------------------------------------
867  C341 AO              KFILTTAH FCB    160              (    0.625) :0341: 'COEF   ' HOT THROTTLE ANGLE
                          *-                               :                 FILTER COEFFICIENT, N.D.
                          *-                               :           ::EQU N=E*256 ::
                          * ---------------------------------------------------------------
868  C342 30              KFILTPMH FCB    48               (    0.188) :0342: 'COEF   ' HOT MAN. PRESSURE
                          *-                               :                 FILTER COEFFICIENT, N.D.
                          *-                               :           ::EQU N=E*256 ::
                          *
                          *
                          *  THE ORDER OF THE PRECEEDING TWO PARAMETERS MUST BE PRESERVED
                          *

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                          *  THE ORDER OF THE FOLLOWING TWO PARAMETERS MUST BE PRESERVED
                          *
                          * ---------------------------------------------------------------
869  C343 AO              KFIDETAC FCB    160              (    0.625) :0343: 'COEF   ' COLD THROT ANGLE FILT
                          *-                               :                 COEF (DECEL ENLEAN)
                          *-                               :           ::EQU N=E*256 ::
                          * ---------------------------------------------------------------
870  C344 19              KFIDEPMC FCB    25               (    0.098) :0344: 'COEF   ' COLD MAN. PRESS FILT
                          *-                               :                 COEF (DECEL ENLEAN)
                          *-                               :           ::EQU N=E*256 ::
                          *
                          *  THE ORDER OF THE PRECEEDING TWO PARAMETERS MUST BE PRESERVED
                          *

                          *
                          *  THE ORDER OF THE FOLLOWING TWO PARAMETERS MUST BE PRESERVED
                          *
                          * ---------------------------------------------------------------
871  C345 AO              KFIDETAH FCB    160              (    0.625) :0345: 'COEF   ' HOT THROT ANGLE FILT
                          *-                               :                 COEF (DECEL ENLEAN)
                          *-                               :           ::EQU N=E*256 ::
                          * ---------------------------------------------------------------
872  C346 30              KFIDEPMH FCB    48               (    0.188) :0346: 'COEF   ' HOT MAN. PRESS FILT
                          *-                               :                 COEF (DECEL ENLEAN)
                          *-                               :           ::EQU N=E*256 ::
                          *
                          *  THE ORDER OF THE PRECEEDING TWO PARAMETERS MUST BE PRESERVED
                          *

                          * ---------------------------------------------------------------
873  C347 AD              KADSUCT  FCB    173              (       90) :0347: 'DEG C  ' START-UP COOLANT
                          *-                               :                 THRESHOLD, COOLDEG UNITS
                          *-                               :           ::EQU N=(E+40)*256/192 ::

                          *
                          *  THE ORDER OF THE FOLLOWING TWO PARAMETERS MUST BE PRESERVED
                          *
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                          * ------------------------------------------------------------
874  C348 OF              KT2A     FCB    15                  (       30) :0348: 'SEC     ' COLD C/L TIMER VALUE,
                          *-                                  :                     SEC/2
                          *-                                  :              ::EQU N=E/2 ::
                          * ------------------------------------------------------------
875  C349 05              KT1A     FCB    5                   (       10) :0349: 'SEC     ' HOT C/L TIMER VALUE,
                          *-                                  :                     SEC/2
                          *-                                  :              ::EQU N=E/2 ::
                          *
                          *  THE ORDER OF THE PRECEEDING TWO PARAMETERS MUST BE PRESERVED
                          *

                          * ------------------------------------------------------------
876  C34A 59              KCLTC    FCB    89                  (       27) :034A: 'DEG C   ' TEMPERATURE THRESHOLD
                          *-                                  :                     FOR C/L DETERMINATION
                          *-                                  :              ::EQU N=(E+40)*256/192 ::
                          * ------------------------------------------------------------
877  C34B 32              KO2ATIME FCB    50                  (       10) :034B: 'SEC     ' O2 SENSOR NOT READY
                          *-                                  :                     TIMER LIMIT, SEC*5
                          *-                                  :              ::EQU N=E*5 ::
                          * ------------------------------------------------------------
878  C34C A0              KLCTCLL  FCB    160                 (       80) :034C: 'DEG C   ' LC STORE ENABLE LOW
                          *-                                  :                     COOLANT LEVEL,COOLDEG UNITS
                          *-                                  :              ::EQU N=(E+40)*256/192 ::
                          * ------------------------------------------------------------
879  C34D 80              KLCESTHU FCB    128                 (     3200) :034D: 'RPM     ' LC STORE ENABLE
                          *-                                  :                     ENGINE SPEED UPPER THRESHOLD
                          *-                                  :              ::EQU N=E/25 ::
                          * ------------------------------------------------------------
880  C34E 32              KBLMCNT  FCB    50                  (      2.5) :034E: 'SEC     ' FREQUENCY OF BLOCK
                          *-                                  :                     LEARN UPDATE
                          *-                                  :              ::EQU N=E*20 ::

                          ****THE FOLLOWING TWO PARAMETERS MUST BE IN ORDER******
                          * ------------------------------------------------------------
881  C34F 7C              KBLMMINS FCB    124                 (     0.97) :034F: 'MULT    ' LOWER LIMIT FOR
                          *-                                  :                     INITIAL BLM'S
                          *-                                  :              ::EQU N=E*128 ::
                          * ------------------------------------------------------------
882  C350 8A              KBLMMAXS FCB    138                 (     1.08) :0350: 'MULT    ' UPPER LIMIT FOR
                          *-                                  :                     INITIAL BLM'S
                          *-                                  :              ::EQU N=E*128 ::
                          ****THE PRECEDING TWO PARAMETERS MUST BE IN ORDER******

                          * ------------------------------------------------------------
883  C351 03              KLCITTH  FCB    3                   (        3) :0351: 'UNITS   ' C/L INTEGRATOR WINDOW
                          *-                                  :                     VALUE
                          *-                                  :              ::EQU N=E ::
                          * ------------------------------------------------------------
884  C352 20              KRPMOFFH FCB    32                  (      400) :0352: 'RPM     ' HIGH HYST VALUE FOR
                          *-                                  :                     LOW RPM INT RESET
                          *-                                  :              ::EQU N=E/12.5 ::
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                         * ---------------------------------------------------------------
885  C353 18   KRPMOFFL FCB    24          (      300) :0353: 'RPM    ' LOW HYST VALUE FOR
                                          :                    LOW RPM INT RESET
                         *-               :            ::EQU N=E/12.5 ::
                         *-               :
                         * ---------------------------------------------------------------
886  C354 99   KINTICTH FCB    153         (       75) :0354: 'DEGC   ' LOW RPM RESET LOGIC
                                          :                    COOLANT THRESHOLD
                         *-               :            ::EQU N=(E+40)*256/192 ::
                         *-               :
                         * ---------------------------------------------------------------
887  C355 96   KBLMMAX  FCB    150         (     1.17) :0355: 'VALUE  ' MAXIMUM ALLOWABLE BLM
                                          :                    , VALUE*128
                         *-               :            ::EQU N=E*128 ::
                         *-               :
                         * ---------------------------------------------------------------
888  C356 69   KBLMMIN  FCB    105         (     0.82) :0356: 'VALUE  ' MINIMUM ALLOWABLE BLM
                                          :                    , VALUE*128
                         *-               :            ::EQU N=E*128 ::
                         *-               :
                         * ---------------------------------------------------------------
889  C357 71   KCLOXTH  FCB    113         (      0.5) :0357: 'VOLTS  ' O2 SENSOR RICH-LEAN
                                          :                    THRESHOLD, O2 A/D UNITS
                         *-               :            ::EQU N=E*226 ::
                         *-               :
                         * ---------------------------------------------------------------
890  C358 87   KO2AMAX  FCB    135         (    0.597) :0358: 'VOLTS  ' C/L TO O/L UPPER O2
                                          :                    THRESHOLD, O2 A/D UNITS
                         *-               :            ::EQU N=E*226 ::
                         *-               :
                         * ---------------------------------------------------------------
891  C359 44   KO2AMIN  FCB    68          (      0.3) :0359: 'VOLTS  ' C/L TO O/L LOWER O2
                                          :                    THRESHOLD, O2 A/D UNITS
                         *-               :            ::EQU N=E*226 ::
                         *-               :
                         * ---------------------------------------------------------------
892  C35A 50   KCLITMI  FCB    80          (       80) :035A: 'UNITS  ' CLOSED LOOP MINIMUM
                                          :                    INTEGRATOR VALUE
                         *-               :            ::EQU N=E ::
                         *-               :
                         * ---------------------------------------------------------------
893  C35B DA   KCLITMX  FCB    218         (      218) :035B: 'UNITS  ' CLOSED LOOP MAXIMUM
                                          :                    INTEGRATOR VALUE
                         *-               :            ::EQU N=E ::
                         *-               :
                         * ---------------------------------------------------------------
894  C35C E0   KPROPVAC FCB    224         (       10) :035C: 'KPA    ' VACUUM THRESHOLD FOR
                                          :                    PROPORTIONAL STEP SELECT
                         *-               :            ::TBL4,0 ::
                         *-               :
                         * ---------------------------------------------------------------
895  C35D 02   KCLPROP  FCB    2           (        2) :035D: 'UNITS  ' LOW VACUUM
                                          :                    PROPORTIONAL STEP
                         *-               :            ::EQU N=E ::
                         *-               :
                         * ---------------------------------------------------------------
896  C35E FF   KPCDUR   FCB    255         (     6.38) :035E: 'SEC    ' C/L PROPORTIONAL TERM
                                          :                    DURATION
                         *-               :            ::EQU N=E*40 ::
                         *-               :
                         * ---------------------------------------------------------------
897  C35F 03   KDETATH  FCB    3           (        1) :035F: '%      ' DECEL ENLEANMENT
                                          :                    DELTA THROT ANGLE THRES.
                         *-               :            ::EQU N=E*2.56 ::
                         *-
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                                   *--------------------------------------------------------------
898  C360 06                       KDEPMTH   FCB    6                  (      2) :0360: 'KPA    ' DECEL ENLEANMENT
                                                                                   DELTA PRESSURE THRESHOLD
                                   *-                                 :
                                   *-                                 :        ::EQU N=E*3.2 ::
                                   *--------------------------------------------------------------
899  C361 A0                       KAFTCTH   FCB    160                (     80) :0361: 'DEG C  ' AIR/FUEL COOLANT
                                                                                   THRESHOLD, COOLDEG UNITS
                                   *-                                 :
                                   *-                                 :        ::EQU N=(E+40)*256/192 ::
                                   *--------------------------------------------------------------
900  C362 D0                       KAFCFTA   FCB    208                (   81.3) :0362: '%      ' CLEAR FLOOD THROTTLE
                                                                                   LIMIT, NIPSLD UNITS
                                   *-                                 :
                                   *-                                 :        ::TBL4,3 ::
                                   *--------------------------------------------------------------
901  C363 C8                       KAFCF     FCB    200                (     20) :0363: 'RATIO  ' CLEAR FLOOD A/F RATIO
                                                                                   10*(A/F RATIO)
                                   *-                                 :
                                   *-                                 :        ::EQU N=E*10 ::

                                   *--------------------------------------------------------------
902  C364 4F                       KAFTCLOW  FCB    79                 (     19) :0364: 'DEGC   ' LOW THRESHOLD FOR A/F
                                   *-                                 :        ::EQU N=(E+40)*256/192 ::
                                   *--------------------------------------------------------------
903  C365 5E                       KAFTCHI   FCB    94                 (   30.5) :0365: 'DEGC   ' HI THRESHOLD FOR A/F
                                   *-                                 :        ::EQU N=(E+40)*256/192 ::
                                   *--------------------------------------------------------------
904  C366 87                       KMAXLEAN  FCB    135                (   13.5) :0366: 'RATIO  ' MAX LEAN A/F
                                   *-                                 :        ::EQU N=E*10 ::
                                   *--------------------------------------------------------------
905  C367 F0                       KAFDM     FCB    240                (   93.8) :0367: '%      ' A/F TIME OUT DECAY
                                                                                   MULTIPLIER, PERCENT
                                   *-                                 :
                                   *-                                 :        ::EQU N=E*2.56 ::

                                   *******HYSTERESIS PAIR**********
                                   *--------------------------------------------------------------
906  C368 0046                     KAPLH     FDB    70                 (   1.07) :0368: 'MSEC   ' MIN BASE PULSE
                                                                                   HYSTERESIS VALUE, MSEC*65.536
                                   *-                                 :
                                   *-                                 :        ::EQU N=E*65.536 ::
                                   *--------------------------------------------------------------
907  C36A 0034                     KAPLL     FDB    52                 (    0.8) :036A: 'MSEC   ' MIN BASE PULSE, MSEC*
                                                                                   65.536
                                   *-                                 :
                                   *-                                 :        ::EQU N=E*65.536 ::
                                   *******HYSTERESIS PAIR**********

                                   *--------------------------------------------------------------
908  C36C 0189                     KAPMAX    FDB    393                (      6) :036C: 'MSEC   ' MAX ASYNCHRONOUS
                                                                                   PULSE, MSEC*65.536
                                   *-                                 :
                                   *-                                 :        ::EQU N=E*65.536 ::
                                   *--------------------------------------------------------------
909  C36E 0034                     KAPMIN    FDB    52                 (    0.8) :036E: 'MSEC   ' MIN ASYNCHRONOUS
                                                                                   PULSE, MSEC*65.536
                                   *-                                 :
                                   *-                                 :        ::EQU N=E*65.536 ::
                                   *--------------------------------------------------------------
910  C370 50                       KDFCOSPH  FCB    80                 (   2000) :0370: 'RPM    ' DECEL FUEL CUT-OFF
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                                  *-                               :                 UPPER RPM LIMIT, NIRPMX UNITS
                                  *-                               :            ::EQU N=E/25 ::
                                  * ---------------------------------------------------------------
911  C371 38                      KDFCOSPL FCB    56               (       1400) :0371: 'RPM    ' DECEL FUEL CUT-OFF
                                  *-                               :                 LOWER RPM LIMIT, NIRPMX UNITS
                                  *-                               :            ::EQU N=E/25 ::
                                  * ---------------------------------------------------------------
912  C372 43                      KDFCOMAP FCB    67               (         35) :0372: 'KPA    ' DECEL FUEL CUT-OFF
                                  *-                               :                 MAP THRESHOLD, A/D COUNTS
                                  *-                               :            ::EQU N=E*2.71104-28.06 ::
                                  * ---------------------------------------------------------------
913  C373 80                      KDFCOG   FCB    128              (         50) :0373: '%      ' DECEL FUEL CUT-OFF
                                  *-                               :                 MULTIPLIER STEP VALUE, % *
                                  *-                               :                 2.56
                                  *-                               :            ::EQU N=E*2.56 ::
                                  * ---------------------------------------------------------------
914  C374 01                      KFILO2CT FCB    1                (      0.004) :0374: 'COEF   ' O2 FILTER COEFFICIENT
                                  *-                               :                 , 0-1, (CL THROT)
                                  *-                               :            ::EQU N=E*256 ::
                                  * ---------------------------------------------------------------
915  C375 14                      KFILO2OT FCB    20               (       0.08) :0375: 'COEF   ' O2 FILTER COEFFICIENT
                                  *-                               :                 , 0-1, (OPEN THROT)
                                  *-                               :            ::EQU N=E*256 ::

                                  ****THE FOLLOWING TWO PARAMETERS MUST BE IN ORDER******
                                  * ---------------------------------------------------------------
916  C376 20                      KCNTRC   FCB    32               (       0.82) :0376: 'SEC    ' INT SLOW TRIM LOOP
                                  *-                               :                 TIME, (CLOSED THROTTLE)
                                  *-                               :            ::EQU N=E*40-1 ::
                                  * ---------------------------------------------------------------
917  C377 04                      KCNTRO   FCB    4                (       0.13) :0377: 'SEC    ' INT SLOW TRIM LOOP
                                  *-                               :                 TIME, (OPEN THROTTLE)
                                  *-                               :            ::EQU N=E*40-1 ::
                                  ****THE PRECEDING TWO PARAMETERS MUST BE IN ORDER******

                                  * ---------------------------------------------------------------
918  C378 87                      KO2FILHC FCB    135              (      0.597) :0378: 'VOLTS ' O2 THRESHOLD FOR SLOW
                                  *-                               :                 TRIM (CLOSED THROT)
                                  *-                               :            ::EQU N=E*226 ::
                                  * ---------------------------------------------------------------
919  C379 45                      KO2FILLC FCB    69               (      0.305) :0379: 'VOLTS ' O2 THRESHOLD FOR SLOW
                                  *-                               :                 TRIM (CLOSED THROT)
                                  *-                               :            ::EQU N=E*226 ::
                                  * ---------------------------------------------------------------
920  C37A 50                      KLCRPM1  FCB    80               (       1000) :037A: 'RPM    ' RPM THRESHOLD ABOV
                                  *-                               :                 WHICH LEARN IS DISABLED, CELL 1
                                  *-                               :            ::EQU N=E/12.5 ::
                                  * ---------------------------------------------------------------
921  C37B 23                      KDFCOSLK FCB    35               (         35) :037B: 'MPH    ' SPEED BELOW WHICH
                                  *-                               :                 DFCO IS DISABLED
                                  *-                               :            ::EQU N=E ::
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                        * ------------------------------------------------------------
922  C37C 70            KPEMAP42 FCB     112           (      95.5) :037C: 'KPA    ' MAP THRESHOLD FOR PE
                                                                         WHEN MALF 42 EXISTS
                        *-                              :            ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E-
                        *-                              :                10.24 ::
                        *-                              :            ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*I
                        *-                              :                28.06 ::
                        *-
                        * ------------------------------------------------------------
923  C37D 40            KPERPM42 FCB     64            (      1600) :037D: 'RPM    ' RPM THRESHOLD FOR PE
                                                                         WHEN MALF 42 EXISTS
                        *-                              :            ::EQU N=E/25 ::
                        *-
                        ****THE FOLLOWING TWO PARAMETERS MUST BE IN ORDER******
                        * ------------------------------------------------------------
924  C37E 80            KPERPM   FCB     128           (      3200) :037E: 'RPM    ' POWER ENRICHMENT RPM
                                                                         THRESHOLD (LO MPH)
                        *-                              :            ::EQU N=E/25 ::
                        *-
                        * ------------------------------------------------------------
925  C37F 70            KPERPM1  FCB     112           (      2800) :037F: 'RPM    ' POWER ENRICHMENT RPM
                                                                         THRESHOLD (HI MPH)
                        *-                              :            ::EQU N=E/25 ::
                        *-
                        ****THE PRECEDING TWO PARAMETERS MUST BE IN ORDER******

                        * ------------------------------------------------------------
926  C380 20            KTPSHYS  FCB     32            (      12.5) :0380: '%      ' THROTTLE HYSTERESIS
                                                                         FOR POWER ENRICHMENT
                        *-                              :            ::EQU N=E*2.56 ::
                        *-
                        * ------------------------------------------------------------
927  C381 0B            KPEMAPHY FCB     11            (       8.6) :0381: 'KPA    ' POWER ENRICHMENT MAP
                                                                         HYSTERESIS
                        *-                              :            ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E
                        *-                              :                ::
                        *-                              :            ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*I
                        *-                              :                ::
                        *-
                        * ------------------------------------------------------------
928  C382 6F            KPEMAP3  FCB     111           (        95) :0382: 'KPA    ' POWER ENRICHMENT
                                                                         THRESHOLD
                        *-                              :            ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E
                        *-                              :                10.24 ::
                        *-                              :            ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E
                        *-                              :                28.05 ::
                        *-
                        * ------------------------------------------------------------
929  C383 E0            KLCVACO  FCB     224           (        10) :0383: 'KPA    ' VAC LOD ABOV WHICH
                                                                         BLK LEARN IS DISABLED, CELL 0
                        *-                              :            ::TBL4,0 ::
                        *-
                        * ------------------------------------------------------------
930  C384 60            KLCLDLO  FCB     96            (        50) :0384: 'KPA    ' MAP LOD BELO WHICH
                                                                         BLK LEARN IS DISABLED, CELL 0
                        *-                              :            ::TBL4,1 ::
                        *-
                        * ------------------------------------------------------------
931  C385 08            KPWEGR   FCB     8             (         8) :0385: 'UNITS ' EGR ON PROPORTIONAL
                                                                         STEP
                        *-
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                                  *-                       :           ::EQU N=E ::
                                  * ------------------------------------------------
932  C386 03        KPWOEGR  FCB    3             (         3) :0386: 'UNITS ' EGR OFF PROPORTIONAL
                                                  :                        STEP
                                  *-              :           ::EQU N=E ::
                                  *-              :
                                  * ------------------------------------------------
933  C387 A0        KPETPS   FCB    160           (      62.5) :0387: '%      ' POWER ENRICHMENT TPS
                                  *-              :                        LOAD THRESHOLD
                                  *-              :           ::EQU N=E*2.56 ::
                                  * ------------------------------------------------
934  C388 05        KDFCOTP  FCB    5             (         2) :0388: '%      ' THROTTLE THRESHOLD
                                                  :                        FOR DECEL FUEL CUTOFF
                                  *-              :           ::EQU N=E*2.56 ::
                                  *-              :
                                  * ------------------------------------------------
935  C389 FF        KQASRPMD FCB    255           (      6375) :0389: 'RPM    ' RPM ABOVE WHICH QUASI
                                  *-              :                        -ASYNCH FUEL NOT USED
                                  *-              :           ::EQU N=E/25 ::
                                  * ------------------------------------------------
936  C38A 0121      KFRPMLOW FDB    289           (      6803) :038A: 'RPM    ' HI RPM FUEL CUTOFF
                                  *-              :                        THRESHOLD LOW LIMIT
                                  *-              :           ::IF(E.EQ.O)N=E ::
                                  *-              :           ::IF(E.NE.O)N=65536*120/(E*KNUMCYL)
                                  *-              :                        ::
                                  * ------------------------------------------------
937  C38C 0121      KFRPMHI  FDB    289           (      6803) :038C: 'RPM    ' HI RPM FUEL CUTOFF
                                  *-              :                        THRESHOLD HI LIMIT
                                  *-              :           ::IF(E.EQ.O)N=0 ::
                                  *-              :           ::IF(E.NE.O)N=65536*120/(E*KNUMCYL)
                                  *-              :                        ::
                                  * ------------------------------------------------
938  C38E 02        KREFMAXL FCB    2             (         2) :038E: 'UNITS ' NO OF REF. PULSES
                                  *-              :                        THAT 2*BPW INJ. WILL
                                  *-              CONTINUE DURING ASY/SYN TRANSISTION (LOW).
                                  *-              :           ::EQU N=E ::
                                  * ------------------------------------------------
939  C38F 00        KREFMAXH FCB    0             (         0) :038F: 'UNITS ' NO OF REF. PULSES
                                  *-              :                        THAT 2*BPW INJ. WILL
                                  *-              CONTINUE DURING ASY/SYN TRANSISTION (HIGH).
                                  *-              :           ::EQU N=E ::
                                  * ------------------------------------------------
940  C390 19        KQSYNMPH FCB    25            (       7.8) :0390: 'MPH    ' QUASI-ASYNCH MPH
                                  *-              :                        THRESHOLD
                                  *-              :           ::EQU N=E*3.2 ::
                                  * ------------------------------------------------
941  C391 10        KFRPMTIM FCB    16            (       0.2) :0391: 'SEC    ' HIGH RPM FUEL CUTOFF
                                  *-              :                        TIME THRESHOLD ENABLE
                                  *-              :           ::EQU N=E*80 ::
                                  * ------------------------------------------------
942  C392 93        KAFSTCN  FCB    147           (      14.7) :0392: 'RATIO ' STOICH. AIR FUEL
                                  *-              :                        RATIO
                                  *-              :           ::EQU N=E*10 ::
                                  * ------------------------------------------------
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943  C393 A3      KPEMAP1  FCB     163        (      135) :0393: 'KPA     ' PRIMARY P.E. MAP
                  *-                          :                 THRESHOLD
                  *-                          :            ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E-
                  *-                          :                 10.24 ::
                  *-                          :            ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E
                  *-                          :                 28.05 ::
                  * ---------------------------------------------------------------------
944  C394 5C      KPEMAP2  FCB     92         (       80) :0394: 'KPA     ' SECONDARY P.E. MAP
                  *-                          :                 THRESHOLD
                  *-                          :            ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E-
                  *-                          :                 10.24 ::
                  *-                          :            ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E
                  *-                          :                 28.05 ::
                  * ---------------------------------------------------------------------
945  C395 FF      KPEATPS  FCB     255        (     99.6) :0395: '%       ' SECONDARY POWER
                  *-                          :                 ENRICHMENT TPS LOAD THRESHOLD
                  *-                          :            ::EQU N=E*2.56 ::
                  * ---------------------------------------------------------------------
946  C396 D3      KPETCTH  FCB     211        (      118) :0396: 'DEG C ' PE COOLANT THRESHOLD
                  *-                          :            ::EQU N=(E+40)*256/192 ::

                  * ---------------------------------------------------------------------
947  C397 2D      KPEMPH   FCB     45         (       45) :0397: 'MPH     ' THRESHOLD TO USE
                  *-                          :                 KPEPRM1 FOR P.E. MODE THRESH
                  *-                          :            ::EQU N=E ::
                  * ---------------------------------------------------------------------
948  C398 FF      KPEHMPH  FCB     255        (      255) :0398: 'MPH     ' THRESHOLD TO CK TO
                  *-                          :                 CLEAR PEHMPHCT
                  *-                          :            ::EQU N=E ::
                  * ---------------------------------------------------------------------
949  C399 FFFF    KPEMPHTM FDB     65535      (  1638.38) :0399: 'SEC     ' PE MPH TIME DELAY
                  *-                          :                 BEFORE DECREASING AFPE
                  *-                          :            ::EQU N=E*40 ::
                  * ---------------------------------------------------------------------
950  C39B FF      KPEMAP4  FCB     255        (      207) :039B: 'KPA     ' PE THRESHOLD WHEN
                  *-                          :                 'KPEHMPH' MPH FOR 'KPEMPHTM'
                  *-                          :            ::IF(LAND(KAFOPT3,$20).NE.0)N=1.28*E
                  *-                          :                 10.24 ::
                  *-                          :            ::IF(LAND(KAFOPT3,$20).EQ.0)N=2.71*E
                  *-                          :                 28.05 ::
                  * ---------------------------------------------------------------------
951  C39C FF      KPEAFDLT FCB     255        (     25.5) :039C: 'RATIO ' PE AIRFUEL HIGH MPH
                  *-                          :                 DELTA
                  *-                          :            ::EQU N=E*10 ::
                  * ---------------------------------------------------------------------
952  C39D 7A      KAFPE    FCB     122        (     12.2) :039D: 'RATIO ' POWER ENRICHMENT AIR
                  *-                          :                 FUEL RATIO
                  *-                          :            ::EQU N=E*10 ::
                  * ---------------------------------------------------------------------
953  C39E 7E      KINTDLTC FCB     126        (     54.5) :039E: 'DEG C ' THRESHOLD FOR USE
                  *-                          :                 WITH F25 TABLE & KINTDLTA
                  *-                          :            ::EQU N=(E+40)*256/192 ::
```

SECURE LIBRARY PROGRAM AND LEVEL: [illegible]

DATATBI

```
00281200                         *                                   (      0.2) :039F: 'SEC     ' DELTA THAT CAN BE
00281300   954  C39F 08          KINTDLTA FCB     8                                      ADDED TO F25 LOOKUP FOR INIDLY
00281400                         *-                                  :               ::EQU N=E+40 ::
00281500                         *-                                  :
```

```
00281700                   ****************************************
00281800                   * WASTE GATE CALIBRATION PARAMETERS    *
00281900                   ****************************************

00282100                   ****THE FOLLOWING TWO PARAMETERS MUST BE IN ORDER******
00282200                   * ----------------------------------------------------------------
00282300   955  C3A0 5A    KFMPHLOW FCB     90              (        90) :03A0: 'MPH   ' LOWER MPH LIMIT OF
                                                                                HYST PAIR FOR
00282400                   *-                               :        ::EQU N=E ::                 !!! MPH
00282500                   *-                               :                   BOOST DISABLE
00282600                   *-                               :
00282700                   * ----------------------------------------------------------------
00282800   956  C3A1 78    KFMPHHI  FCB     120             (       120) :03A1: 'MPH   ' UPPER MPH LIMIT OF
00282900                   *-                               :                   HYST PAIR FOR
00283000                   *-                               :        ::EQU N=E ::                 !!! MPH
00283100                   *-                               :                   BOOST DISABLE
00283200                   ****THE PRECEDING TWO PARAMETERS MUST BE IN ORDER******

00283400                   * ----------------------------------------------------------------
00283500   957  C3A2 50    KWGMAPTM FCB     80              (         1) :03A2: 'SEC   ' HIGH LOAD FUEL
00283600                   *-                               :                   SHUTOFF TIME THRESHOLD
00283700                   *-                               :        ::EQU N=E*80 ::
00283800                   * ----------------------------------------------------------------
00283900   958  C3A3 E2    KWGMAPH  FCB     226             (     184.6) :03A3: 'KPA   ' MAP THRESHOLD
00284000                   *-                               :                   ENABLING FUEL SHUTOFF MODE
00284100                   *-                               :        ::EQU N=1.28*E-10.24 ::
00284200                   * ----------------------------------------------------------------
00284300   959  C3A4 8F    KWGMAPL  FCB     143             (       120) :03A4: 'KPA   ' MAP THRESHOLD
00284400                   *-                               :                   DISABLING FUEL SHUTOFF MODE
00284500                   *-                               :        ::EQU N=1.28*E-10.24 ::
00284600                   * ----------------------------------------------------------------
00284700   960  C3A5 5D    KGDCTMPL FCB     93              (        30) :03A5: 'DEG C ' WASTEGATE LOW COOLANT
00284800                   *-                               :                   THRESHOLD
00284900                   *-                               :        ::EQU N=(E+40)*256/192 ::
00285000                   * ----------------------------------------------------------------
00285100   961  C3A6 CF    KGDCTMPH FCB     207             (       145) :03A6: 'DEG C ' WASTEGATE HIGH
00285200                   *-                               :                   COOLANT THRESHOLD
00285300                   *-                               :        ::EQU N=(E+40)*256/192 ::
00285400                   * ----------------------------------------------------------------
00285500   962  C3A7 0A    KGDCTIM1 FCB     10              (         1) :03A7: 'SEC   ' BOOST RED. DECREMENT
00285600                   *-                               :                   TIME INTERVAL
00285700                   *-                               :        ::EQU N=E*10 ::
00285800                   * ----------------------------------------------------------------
00285900   963  C3A8 0A    KGDCTIM2 FCB     10              (         1) :03A8: 'SEC   ' BOOST RED. INCREMENT
00286000                   *-                               :                   TIME INTERVAL
00286100                   *-                               :        ::EQU N=E*10 ::
00286200                   * ----------------------------------------------------------------
00286300   964  C3A9 28    KGDCTIM3 FCB     40              (         4) :03A9: 'SEC   ' DELAY TIME TO START
00286400                   *-                               :                   BOOST REDUCTION
00286500                   *-                               :        ::EQU N=E*10 ::
00286600                   * ----------------------------------------------------------------
00286700   965  C3AA 2D    KGEKCENA FCB     45              (       7.9) :03AA: 'DEG   ' BOOST REDUCTION
                                                                                RETARD. ENABLE THRESHOLD
00286800                   *-                               :
```

```
                                 *-                                   :            ::EQU N=E*256/45 ::
                                 * -----------------------------------------------------------------
966  C3AB 16                     KGEKCDIS FCB    22                   (      3.9) :03AB: 'DEG    ' BOOST RED. RETARD
                                 *-                                   :                 DISABLE THRESHOLD
                                 *-                                   :            ::EQU N=E*256/45 ::
                                 * -----------------------------------------------------------------
967  C3AC 04                     KBSTDLT1 FCB    4                    (        3) :03AC: 'KPA    ' DESIRED BOOST
                                 *-                                   :                 PRESSURE REDUCTION DELTA
                                 *-                                   :            ::EQU N=E*1.28 ::
                                 * -----------------------------------------------------------------
968  C3AD 02                     KBSTDLT2 FCB    '2                   (      1.6) :03AD: 'KPA    ' DESIRED BOOST
                                 *-                                   :                 PRESSURE REDUCTION DELTA
                                 *-                                   :            ::EQU N=E*1.28 ::
                                 * -----------------------------------------------------------------
969  C3AE 06                     KWGMPHL  FCB    6                    (        2) :03AE: 'MPH    ' BRAKE TORQUE VEHICLE
                                 *-                                   :                 SPEED THRESHOLD
                                 *-                                   :            ::EQU N=E*3.2 ::
                                 * -----------------------------------------------------------------
970  C3AF 50                     KGDCTIM6 FCB    80                   (        8) :03AF: 'SEC    ' BRAKE TORQUE TIME
                                 *-                                   :                 LIMIT
                                 *-                                   :            ::EQU N=E*10 ::
                                 * -----------------------------------------------------------------
971  C3B0 07D0                   KGDCTIM7 FDB    2000                 (      100) :03B0: 'SEC    ' INHIBIT OVERBOOST
                                 *-                                   :                 TIME THRESHOLD
                                 *-                                   :            ::EQU N=E*20 ::
                                 * -----------------------------------------------------------------
972  C3B2 00                     KWGCLTIM FCB    0                    (        0) :03B2: 'SEC    ' TIME THRESHOLD FOR
                                 *-                                   :                 WASTE GATE CLOSED LOOP
                                 *-                                   :            ::EQU N=E*10 ::
                                 * -----------------------------------------------------------------
973  C3B3 20                     KCLBSTEH FCB    32                   (       25) :03B3: 'KPA    ' CLOSED LOOP BOOST
                                 *-                                   :                 MODE THRESHOLD
                                 *-                                   :            ::EQU N=E*1.28 ::
                                 * -----------------------------------------------------------------
974  C3B4 07                     KCLBSTEL FCB    7                    (      5.5) :03B4: 'KPA    ' CLOSED LOOP BOOST
                                 *-                                   :                 MODE THRESHOLD
                                 *-                                   :            ::EQU N=E*1.28 ::
                                 * -----------------------------------------------------------------
975  C3B5 01                     KBSTERDB FCB    1                    (        1) :03B5: 'KPA    ' BOOST ERROR DEADBAND
                                 *-                                   :            ::EQU N=E*1.28 ::
                                 * -----------------------------------------------------------------
976  C3B6 01                     KDCTIM8N FCB    1                    (      0.1) :03B6: 'SEC    ' CLOSED LOOP UPDATE
                                 *-                                   :                 RATE TIME, HIGH BOOST
                                 *-                                   :            ::EQU N=E*10 ::
                                 * -----------------------------------------------------------------
977  C3B7 01                     KDCTIM8P FCB    1                    (      0.1) :03B7: 'SEC    ' CLOSED LOOP UPDATE
                                 *-                                   :                 RATE TIME, LOW BOOST
                                 *-                                   :            ::EQU N=E*10 ::
                                 * -----------------------------------------------------------------
978  C3B8 04                     KDCSTEN  FCB    4                    (      1.6) :03B8: '%      ' NEGATIVE C/L STEP
                                 *-                                   :                 ADJUSTMENT TO WASTEGATE D.C
                                 *-                                   :            ::EQU N=E*2.56 ::
```

```
                                  * -----------------------------------------------------
979  C3B9 05       KDCSTEP  FCB    5               (        2) :03B9: '%      ' POSITIVE C/L STEP
                                  *-                :                ADJUSTMENT TO WASTEGATE D.C.
                                  *-                :      ::EQU N=E*2.56 ::
                                  * -----------------------------------------------------
980  C3BA 64       KWGRPMEN FCB    100             (     2500) :03BA: 'RPM    ' THRESHOLD FOR CLOSED
                                  *-                :                LOOP TURBO BOOST
                                  *-                :      ::EQU N=E/25 ::
                                  * -----------------------------------------------------
981  C3BB 0C       KWGDRPMP FCB    12              (      300) :03BB: 'RPM    ' POSITIVE DELTA RPM
                                  *-                :                THRESH TO STEP UP THE BOOST
                                  *-                :      ::EQU N=E/25 ::
                                  * -----------------------------------------------------
982  C3BC 0C       KWGDRPMN FCB    12              (      300) :03BC: 'RPM    ' NEGATIVE DELTA RPM
                                  *-                :                THRESH TO STEP UP THE BOOST
                                  *-                :      ::EQU N=E/25 ::
                                  * -----------------------------------------------------
983  C3BD 0B       KWGDTPS  FCB    11              (      4.3) :03BD: '%      ' DELTA TPS THERSHHOLD
                                  *-                :                TO STEP UP THE BOOST
                                  *-                :      ::EQU N=E*2.56 ::
                                  * -----------------------------------------------------
984  C3BE 00       KWGDCLOW FCB    0               (        0) :03BE: '%      ' STARTING BOOST LEVEL
                                  *-                :      ::EQU N-E*2.56 ::

                                  *#####################################################
                                  *     F70 TABLE                                      #
                                  *    DESIRED BOOST PRESSURE BASE VS NTRPMX AND NTPSLD #
                                  *                                                    #
                                  *    TABLE VALUE = KPA * 1.28                        #
                                  *                                                    #
                                  *#####################################################
                                  *-                :      ::PROTECT ::
                                  *-                :      ::TBL3D,6,6,TBL7,7,2,TBL20,4,1,'KPA'
                                  *-                :      ::
                                  * -----------------------------------------------------
985  C3BF 30       F70B     FCB    48              (       48) :03BF: '       ' R MIN; R=NTRPMX
                                  *-                :      ::EQU N=E ::
                                  * -----------------------------------------------------
986  C3C0 30                FCB    48              (       48) :03C0: '       ' Q MIN; Q=NTPSLD
                                  *-                :      ::EQU N=E ::
                                  * -----------------------------------------------------
987  C3C1 06                FCB    6               (        6) :03C1: '       ' R NUM
                                  *-                :      ::EQU N=E ::
                                  *-                :      ::NOPROTECT ::

                                  *TABLE VALUE = KPA * 1.28
                                  *  2400 RPM
                                  * ------------------------------------ SPEED       2400 RPM
988  C3C2 26                FCB    38              (       30) :03C2: 'KPA    '  37.5        %-THROTPOS
                                  *-                :      ::EQU N=E*1.28 ::
989  C3C3 33                FCB    51              (       40) :03C3: 'KPA    '  50.0
990  C3C4 39                FCB    57              (     44.5) :03C4: 'KPA    '  62.5
```

```
DATATBI
                                                                     (  55) :03C5: 'KPA  '  75.0
00297300   991   C3C5 46                      FCB    70              (  65) :03C6: 'KPA  '  87.5
00297400   992   C3C6 53                      FCB    83              (  65) :03C7: 'KPA  ' 100.0
00297500   993   C3C7 53                      FCB    83
                                 * ---------------------------------------- SPEED     3200 RPM
00297700                                                             (  30) :03C8: 'KPA  '  37.5      %-THROTPOS
00297800   994   C3C8 26                      FCB    38              :        ::EQU N=E+1.28 ::
00297900                         *-                                  (  40) :03C9: 'KPA  '  50.0
00298000   995   C3C9 33                      FCB    51              (  44.5) :03CA: 'KPA  '  62.5
00298100   996   C3CA 39                      FCB    57              (  55) :03CB: 'KPA  '  75.0
00298200   997   C3CB 46                      FCB    70              (  65) :03CC: 'KPA  '  87.5
00298300   998   C3CC 53                      FCB    83              (  65) :03CD: 'KPA  ' 100.0
00298400   999   C3CD 53                      FCB    83
                                 * ---------------------------------------- SPEED     4000 RPM
00298600                                                             (  30) :03CE: 'KPA  '  37.5      %-THROTPOS
00298700   1000  C3CE 26                      FCB    38              :        ::EQU N=E+1.28 ::
00298800                         *-                                  (  40) :03CF: 'KPA  '  50.0
00298900   1001  C3CF 33                      FCB    51              (  44.5) :03D0: 'KPA  '  62.5
00299000   1002  C3D0 39                      FCB    57              (  55) :03D1: 'KPA  '  75.0
00299100   1003  C3D1 46                      FCB    70              (  65) :03D2: 'KPA  '  87.5
00299200   1004  C3D2 53                      FCB    83              (  65) :03D3: 'KPA  ' 100.0
00299300   1005  C3D3 53                      FCB    83
                                 * ---------------------------------------- SPEED     4800 RPM
00299500                                                             (  30) :03D4: 'KPA  '  37.5      %-THROTPOS
00299600   1006  C3D4 26                      FCB    38              :        ::EQU N=E+1.28 ::
00299700                         *-                                  (  40) :03D5: 'KPA  '  50.0
00299800   1007  C3D5 33                      FCB    51              (  44.5) :03D6: 'KPA  '  62.5
00299900   1008  C3D6 39                      FCB    57              (  55) :03D7: 'KPA  '  75.0
00300000   1009  C3D7 46                      FCB    70              (  65) :03D8: 'KPA  '  87.5
00300100   1010  C3D8 53                      FCB    83              (  65) :03D9: 'KPA  ' 100.0
00300200   1011  C3D9 53                      FCB    83
                                 * ---------------------------------------- SPEED     5600 RPM
00300400                                                             (  30) :03DA: 'KPA  '  37.5      % THROTPOS
00300500   1012  C3DA 26                      FCB    38              :        ::EQU N=E+1.28 ::
00300600                         *-                                  (  40) :03DB: 'KPA  '  50.0
00300700   1013  C3DB 33                      FCB    51              (  44.5) :03DC: 'KPA  '  62.5
00300800   1014  C3DC 39                      FCB    57              (  55) :03DD: 'KPA  '  75.0
00300900   1015  C3DD 46                      FCB    70              (  65) :03DE: 'KPA  '  87.5
00301000   1016  C3DE 53                      FCB    83              (  65) :03DF: 'KPA  ' 100.0
00301100   1017  C3DF 53                      FCB    83
                                 * ---------------------------------------- SPEED     6400 RPM
00301300                                                             (  30) :03E0: 'KPA  '  37.5      %-THROTPOS
00301400   1018  C3E0 26                      FCB    38              :        ::EQU N=E+1.28 ::
00301500                         *-                                  (  40) :03E1: 'KPA  '  50.0
00301600   1019  C3E1 33                      FCB    51              (  44.5) :03E2: 'KPA  '  62.5
00301700   1020  C3E2 39                      FCB    57              (  55) :03E3: 'KPA  '  75.0
00301800   1021  C3E3 46                      FCB    70              (  65) :03E4: 'KPA  '  87.5
00301900   1022  C3E4 53                      FCB    83              (  65) :03E5: 'KPA  ' 100.0
00302000   1023  C3E5 53                      FCB    83

00302200                         ************************************************************
00302300                         *    F71                                                    *
00302400                         *    INITIALIZATION VALUE OF WASTEGATE DUTY CYCLE VS. NTPSID *
```

```
                                                         ...SET, LIBMAN
      ...RE LIBRARY PROGRAM AND LEVEL: P0188BAB01
DATATBI
00302500                        *   TABLE VALUE = PERCENT * 2.56                                           *
00302600                        ************************************************************************
00302800                        *-                                :        ::PROTECT ::
00302900                        *-                                :        ::TBL2D,9,2,TBL20,1,1,'%' ::
00303000                        * ------------------------------------------------------------------
00303100  1024  C3E6 08         F71     FCB     8                 (        8) :03E6: '        ' USE 9 VALUE TABLE
00303200                        *-                                :        ::EQU N=E ::
00303300                        *-                                :        ::NOPROTECT ::
00303400                        * ------------------------------------------------------------------
00303500  1025  C3E7 61                 FCB     97                (       38) :03E7: '%       '  00.0        %-THROTPOS
00303600                        *-                                :        ::EQU N=E*2.56 ::
00303700  1026  C3E8 61                 FCB     97                (       38) :03E8: '%       '  12.5
00303800  1027  C3E9 61                 FCB     97                (       38) :03E9: '%       '  25.0
00303900  1028  C3EA 61                 FCB     97                (       38) :03EA: '%       '  37.5
00304000  1029  C3EB 7A                 FCB     122               (     47.7) :03EB: '%       '  50.0
00304100  1030  C3EC 8D                 FCB     141               (       55) :03EC: '%       '  62.5
00304200  1031  C3ED A6                 FCB     166               (       65) :03ED: '%       '  75.0
00304300  1032  C3EE B8                 FCB     184               (       72) :03EE: '%       '  87.5
00304400  1033  C3EF B8                 FCB     184               (       72) :03EF: '%       ' 100.0
```

```
      SECURE LIBRARY PROGRAM AND LEVEL: P01888AB01
DATATBIT

00304500                        *+DATATBIT++BLOCK ID++

00304700                        *#######################################
00304800                        *     F23 TABLE                        #
00304900                        *    TRANSPORT LAG VS MAP(NMAPLD)      #
00305000                        *                                      #
00305100                        *   TABLE VALUE = SEC. * 40            #
00305200                        *                                      #
00305300                        *#######################################
00305400                        *-                    :          ::PROTECT ::
00305500                        *-                    :          ::TBL2D,9,2,TBL9,5,2,'SEC' ::
00305600                        * --------------------------------------------------------------
00305700  1034  C3F0 08       F23     FCB    8      (      8) :03F0: '      ' USE 9 VALUE TABLE
00305800                        *-                    :          ::EQU N=E ::
00305900                        *-                    :          ::NOPROTECT ::
00306000                        * --------------------------------------------------------------
00306100  1035  C3F1 0E               FCB    14     (   0.35) :03F1: 'SEC   '    20    KPA-MAP
00306200                        *-                    :          ::EQU N=E+40 ::
00306300  1036  C3F2 0E               FCB    14     (   0.35) :03F2: 'SEC   '    30
00306400  1037  C3F3 0E               FCB    14     (   0.35) :03F3: 'SEC   '    40
00306500  1038  C3F4 0E               FCB    14     (   0.35) :03F4: 'SEC   '    50
00306600  1039  C3F5 0C               FCB    12     (    0.3) :03F5: 'SEC   '    60
00306700  1040  C3F6 0A               FCB    10     (   0.25) :03F6: 'SEC   '    70
00306800  1041  C3F7 09               FCB    9      (   0.22) :03F7: 'SEC   '    80
00306900  1042  C3F8 08               FCB    8      (    0.2) :03F8: 'SEC   '    90
00307000  1043  C3F9 07               FCB    7      (   0.17) :03F9: 'SEC   '    100

00307300                        *#######################################
00307400                        *     F24 TABLE                        #
00307500                        *    TRANSPORT LAG VS RPM(NTRPMX+2)    #
00307600                        *                                      #
00307700                        *   TABLE VALUE = SEC. * 40            #
00307800                        *                                      #
00307900                        *#######################################
00308000                        *-                    :          ::PROTECT ::
00308100                        *-                    :          ::TBL2D,9,2,TBL7,1,'SEC' ::
00308200                        * --------------------------------------------------------------
00308300  1044  C3FA 08       F24     FCB    8      (      8) :03FA: '      ' USE 9 VALUE TABLE
00308400                        *-                    :          ::EQU N=E ::
00308500                        *-                    :          ::NOPROTECT ::
00308600                        * --------------------------------------------------------------
00308700  1045  C3FB 0E               FCB    14     (   0.35) :03FB: 'SEC   '    0     RPM SPEED
00308800                        *-                    :          ::EQU N=E+40 ::
00308900  1046  C3FC 0E               FCB    14     (   0.35) :03FC: 'SEC   '    400
00309000  1047  C3FD 0E               FCB    14     (   0.35) :03FD: 'SEC   '    800
00309100  1048  C3FE 0E               FCB    14     (   0.35) :03FE: 'SEC   '    1200
00309200  1049  C3FF 0C               FCB    12     (    0.3) :03FF: 'SEC   '    1600
00309300  1050  C400 0A               FCB    10     (   0.25) :0400: 'SEC   '    2000
00309400  1051  C401 08               FCB    8      (    0.2) :0401: 'SEC   '    2400
00309500  1052  C402 07               FCB    7      (   0.17) :0402: 'SEC   '    2800
00309600  1053  C403 07               FCB    7      (   0.17) :0403: 'SEC   '    3200
```

DATATBI

```
00309800                    *##################################################
00309900                    *     F25 TABLE                                    #
00310000                    *     INTEGRATOR DELAY VS RPM (RPMFILT)            #
00310100                    *                                                  #
00310200                    *   TABLE VALUE = SEC. * 40                        #
00310300                    *                                                  #
00310400                    *##################################################
00310500                    *-                                  ::PROTECT ::
00310600                    *-                                  ::TBL2D,9,2,TBL22,1,'SEC' ::
00310700                    *-----------------------------------------------------
00310800 1054  C404 08     F25C    FCB     8           (      8) :0404: '      ' USE 9 VALUE TABLE
00310900                    *-                                  ::EQU N=E ::
00311000                    *-                                  ::NOPROTECT ::
00311100                    *-----------------------------------------------------
00311200 1055  C405 0C             FCB     12          (    0.3) :0405: 'SEC    '     0     RPM-SPEED
00311300                    *-                                  ::EQU N=E*40 ::
00311400 1056  C406 0C             FCB     12          (    0.3) :0406: 'SEC    '   200
00311500 1057  C407 0C             FCB     12          (    0.3) :0407: 'SEC    '   400
00311600 1058  C408 0C             FCB     12          (    0.3) :0408: 'SEC    '   600
00311700 1059  C409 0C             FCB     12          (    0.3) :0409: 'SEC    '   800
00311800 1060  C40A 0A             FCB     10          (   0.25) :040A: 'SEC    '  1000
00311900 1061  C40B 03             FCB     3           (   0.07) :040B: 'SEC    '  1200
00312000 1062  C40C 03             FCB     3           (   0.07) :040C: 'SEC    '  1400
00312100 1063  C40D 03             FCB     3           (   0.07) :040D: 'SEC    '  1600

00312300                    *##################################################
00312400                    *    F28 TABLE      BASE PULSE CONSTANT VS DESIRED EGR #
00312500                    *    CONSTANT = 1461.5 * (EGR FACTOR)(LITERS/CYL)/(INJECTOR RATE) #
00312600                    *    INJECTOR RATE IS  IN GM PER SEC                #
00312700                    *##################################################
00312800                    *-                                  ::TBL2D,17,TBL38,1,'CONST' ::
00312900                    *-----------------------------------------------------
00313000 1064  C40E 67     F28A    FCB     103         (  0.0705) :040E: 'CONST '     0     %-EGR
00313100                    *-                                  ::EQU N=E*1461.5 ::
00313200 1065  C40F 65             FCB     101         (   0.069) :040F: 'CONST '   1.6
00313300 1066  C410 64             FCB     100         (  0.0684) :0410: 'CONST '   3.2
00313400 1067  C411 62             FCB     98          (   0.067) :0411: 'CONST '   4.8
00313500 1068  C412 60             FCB     96          (   0.066) :0412: 'CONST '   6.4
00313600 1069  C413 5E             FCB     94          (   0.064) :0413: 'CONST '   8.0
00313700 1070  C414 5D             FCB     93          (  0.0636) :0414: 'CONST '   9.6
00313800 1071  C415 5B             FCB     91          (   0.062) :0415: 'CONST '  11.2
00313900 1072  C416 59             FCB     89          (   0.061) :0416: 'CONST '  12.8
00314000 1073  C417 58             FCB     88          (    0.06) :0417: 'CONST '  14.4
00314100 1074  C418 56             FCB     86          (   0.059) :0418: 'CONST '  16.0
00314200 1075  C419 54             FCB     84          (  0.0575) :0419: 'CONST '  17.6
00314300 1076  C41A 52             FCB     82          (   0.056) :041A: 'CONST '  19.2
```

```
1077  C41B 51                  FCB    81          (     0.0554) :041B: 'CONST '  20.8
1078  C41C 4F                  FCB    79          (      0.054) :041C: 'CONST '  22.4
1079  C41D 4D                  FCB    77          (      0.053) :041D: 'CONST '  24.0
1080  C41E 4A                  FCB    74          (     0.0506) :041E: 'CONST '  25.6

                   *#####################################################################
                   *     F29  TABLE                                                     #
                   *   BASE PULSE VOLUMETRIC EFFICIENCY VS RPM AND MAP                  #
                   *                                                                    #
                   *#####################################################################
                                                   :        ::PROTECT ::
                   *-                              :        ::TBL3D,9,9,TBL7,3,TBN9,5,2,'%' ::
                   *-
                   * -----------------------------------------------------------------
1081  C41F 20      F29C     FCB    32          (         32) :041F: '       ' R MIN: R = RPM
                                               :                 (NTRPMX)
                   *-                          :        ::EQU N=E ::
                   *-
                   * -----------------------------------------------------------------
1082  C420 00               FCB    0           (          0)*:0420: '       ' Q MIN: Q = MAP
                                               :                 (NMAPLD/2)
                   *-
                   * -----------------------------------------------------------------
1083  C421 09               FCB    9           (          9) :0421: '       ' R NUM
                                               :        ::NOPROTECT ::
                   *-

                   *   TABLE VALUE = PERCENT*2.56
                   *    800 RPM            **
                   * ------------------------------------------ SPEED      800 RPM
1084  C422 20               FCB    32          (       12.5) :0422: '%      '   20    KPA-MAP
                                               :        ::EQU N=E*2.56 ::
                   *-
1085  C423 20               FCB    32          (       12.5) :0423: '%      '   30
1086  C424 25               FCB    37          (       14.4) :0424: '%      '   40
1087  C425 35               FCB    53          (       20.7) :0425: '%      '   50
1088  C426 39               FCB    57          (       22.3) :0426: '%      '   60
1089  C427 49               FCB    73          (       28.5) :0427: '%      '   70
1090  C428 4F               FCB    79          (         31) :0428: '%      '   80
1091  C429 56               FCB    86          (       33.6) :0429: '%      '   90
1092  C42A 56               FCB    86          (       33.6) :042A: '%      '  100

                   * ------------------------------------------ SPEED     1200 RPM
1093  C42B 24               FCB    36          (         14) :042B: '%      '   20    KPA-MAP
                                               :        ::EQU N=E*2.56 ::
                   *-
1094  C42C 2B               FCB    43          (       16.8) :042C: '%      '   30
1095  C42D 32               FCB    50          (       19.5) :042D: '%      '   40
1096  C42E 41               FCB    65          (       25.4) :042E: '%      '   50
1097  C42F 46               FCB    70          (       27.3) :042F: '%      '   60
1098  C430 49               FCB    73          (       28.5) :0430: '%      '   70
1099  C431 4F               FCB    79          (         31) :0431: '%      '   80
1100  C432 52               FCB    82          (         32) :0432: '%      '   90
1101  C433 56               FCB    86          (       33.6) :0433: '%      '  100

                   * ------------------------------------------ SPEED     1600 RPM
1102  C434 28               FCB    40          (       15.6) :0434: '%      '   20    KPA-MAP
                                               :        ::EQU N=E*2.56 ::
                   *-
```

```
                                                                          30
00319600  1103  C435 2D         FCB   45      (  17.6) :0435: '%    ,     40
00319700  1104  C436 36         FCB   54      (    21) :0436: '%    ,     50
00319800  1105  C437 49         FCB   73      (  28.5) :0437: '%    ;     60
00319900  1106  C438 4A         FCB   74      (    29) :0438: '%    ;     70
00320000  1107  C439 4D         FCB   77      (    30) :0439: '%    ,     80
00320100  1108  C43A 51         FCB   81      (  31.6) :043A: '%    ;     90
00320200  1109  C43B 54         FCB   84      (    33) :043B: '%    ,    100
00320300  1110  C43C 59         FCB   89      (  34.8) :043C: '%
00320500              * ------------------------------- SPEED   2000 RPM ,  20   KPA-MAP
00320600  1111  C43D 2A         FCB .  42     (  16.4) :043D: '%    ::
00320700              *-                              :: EQU N=E*2.56,    30
00320800  1112  C43E 30         FCB   48      (  18.8) :043E: '%    ,     40
00320900  1113  C43F 3B         FCB   59      (    23) :043F: '%    ,     50
00321000  1114  C440 49         FCB   73      (  28.5) :0440: '%    ,     60
00321100  1115  C441 4C         FCB   76      (  29.7) :0441: '%    ,     70
00321200  1116  C442 54         FCB   84      (    33) :0442: '%    ,     80
00321300  1117  C443 5A         FCB   90      (    35) :0443: '%    ,     90
00321400  1118  C444 5B         FCB   91      (  35.5) :0444: '%    ,    100
00321500  1119  C445 5C         FCB   92      (    36) :0445: '%
00321700              * ------------------------------- SPEED   2400 RPM ,  20   KPA-MAP
00321800  1120  C446 30         FCB   48      (  18.8) :0446: '%    ::
00321900              *-                              :: EQU N=E*2.56,    30
00322000  1121  C447 36         FCB   54      (    21) :0447: '%    ,     40
00322100  1122  C448 4C         FCB   76      (  29.7) :0448: '%    ,     50
00322200  1123  C449 55         FCB   85      (  33.2) :0449: '%    ,     60
00322300  1124  C44A 5C         FCB   92      (    36) :044A: '%    ,     70
00322400  1125  C44B 60         FCB   96      (  37.5) :044B: '%    ,     80
00322500  1126  C44C 62         FCB   98      (  38.3) :044C: '%    ,     90
00322600  1127  C44D 64         FCB   100     (    39) :044D: '%    ,    100
00322700  1128  C44E 64         FCB   100     (    39) :044E: '%
00322900              * ------------------------------- SPEED   2800 RPM ,  20   KPA-MAP
00323000  1129  C44F 33         FCB   51      (    20) :044F: '%    ::
00323100              *-                              :: EQU N=E*2.56,    30
00323200  1130  C450 36         FCB   54      (    21) :0450: '%    ,     40
00323300  1131  C451 3F         FCB   63      (  24.6) :0451: '%    ,     50
00323400  1132  C452 48         FCB   72      (    28) :0452: '%    ,     60
00323500  1133  C453 4B         FCB   75      (  29.3) :0453: '%    ,     70
00323600  1134  C454 50         FCB   80      (  31.3) :0454: '%    ,     80
00323700  1135  C455 55         FCB   85      (  33.2) :0455: '%    ,     90
00323800  1136  C456 5C         FCB   92      (    36) :0456: '%    ,    100
00323900  1137  C457 64         FCB   100     (    39) :0457: '%
00324100              * ------------------------------- SPEED   3200 RPM ,  20   KPA-MAP
00324200  1138  C458 34         FCB   52      (  20.3) :0458: '%    ::
00324300              *-                              :: EQU N=E*2.56,    30
00324400  1139  C459 36         FCB   54      (    21) :0459: '%    ,     40
00324500  1140  C45A 39         FCB   57      (  22.3) :045A: '%    ,     50
00324600  1141  C45B 48         FCB   72      (    28) :045B: '%    ,     60
00324700  1142  C45C 49         FCB   73      (  28.5) :045C: '%
```

```
00324800  1143  C45D 50                 FCB    80                (     31.3) :045D: '%        '     70
00324900  1144  C45E 55                 FCB    85                (     33.2) :045E: '%        '     80
00325000  1145  C45F 5C                 FCB    92                (       36) :045F: '%        '     90
00325100  1146  C460 64                 FCB    100               (       39) :0460: '%        '    100

00325300                        * ------------------------------------- SPEED      3600 RPM
00325400  1147  C461 36                 FCB    54                (       21) :0461: '%        '     20      KPA MAP
00325500                        *-                               :          ::EQU N=E*2.56 ::
00325600  1148  C462 36                 FCB    54                (       21) :0462: '%        '     30
00325700  1149  C463 3B                 FCB    59                (       23) :0463: '%        '     40
00325800  1150  C464 55                 FCB    85                (     33.2) :0464: '%        '     50
00325900  1151  C465 55                 FCB    85                (     33.2) :0465: '%        '     60
00326000  1152  C466 55                 FCB    85                (     33.2) :0466: '%        '     70
00326100  1153  C467 55                 FCB    85                (     33.2) :0467: '%        '     80
00326200  1154  C468 5C                 FCB    92                (       36) :0468: '%        '     90
00326300  1155  C469 64                 FCB    100               (       39) :0469: '%        '    100

00326500                        * ------------------------------------- SPEED      4000 RPM
00326600  1156  C46A 36                 FCB    54                (       21) :046A: '%        '     20      KPA-MAP
00326700                        *-                               :          ::EQU N=E*2.56 ::
00326800  1157  C46B 36                 FCB    54                (       21) :046B: '%        '     30
00326900  1158  C46C 3B                 FCB    59                (       23) :046C: '%        '     40
00327000  1159  C46D 44                 FCB    68                (     26.6) :046D: '%        '     50
00327100  1160  C46E 55                 FCB    85                (     33.2) :046E: '%        '     60
00327200  1161  C46F 55                 FCB    85                (     33.2) :046F: '%        '     70
00327300  1162  C470 55                 FCB    85                (     33.2) :0470: '%        '     80
00327400  1163  C471 5C                 FCB    92                (       36) :0471: '%        '     90
00327500  1164  C472 64                 FCB    100               (       39) :0472: '%        '    100

00327700                        ****************************************************
00327800                        *  EXTENDED F29 TABLE                                *
00327900                        *    BASE PULSE VOLUMETRIC EFFICIENCY VS RPM & MAP   *
00328000                        *                                                    *
00328100                        *      THIS TABLE TO BE USED FOR CLOSED THROTTLE     *
00328200                        *                                                    *
00328300                        ****************************************************

00328500                        *-                               :          ::PROTECT ::
00328600                        *-                               :          ::TBL3D,6,9,TBL37,1,2,TBL9,5,2,'%' ::
00328700                        *
00328800  1165  C473 30         F29S    FCB    48                (       48) :0473: '        ' R MIN: R = RPM
                                                                                (FTRPM125)
00328900                        *-                               :          ::EQU N=E ::
00329000                        *-
00329100                        * ------------------------------------------------
00329200  1166  C474 00                 FCB    0                 (        0)*:0474: '        ' Q MIN: Q = MAP
                                                                                (NMAPLD/2)
00329300                        *-
00329400                        * ------------------------------------------------
00329500  1167  C475 09                 FCB    9                 (        9) :0475: '        ' R NUM
00329600                        *-                               :          ::NOPROTECT ::

00329800                        *   TABLE VALUE = PERCENT * 2.56
00329900                        *      600 RPM
```

```
00330000                        * ---------------------------------------------- SPEED        600 RPM
00330100  1168  C476 1A                  FCB    26          (     10) :0476: '%     '     20      KPA-MAP
00330200                        *-                                    ::EQU N=E*2.56 ::
00330300  1169  C477 1D                  FCB    29          (   11.3) :0477: '%     '     30
00330400  1170  C478 23                  FCB    35          (   13.7) :0478: '%     '     40
00330500  1171  C479 30                  FCB    48          (   18.8) :0479: '%     '     50
00330600  1172  C47A 3B                  FCB    59          (     23) :047A: '%     '     60
00330700  1173  C47B 49                  FCB    73          (   28.5) :047B: '%     '     70
00330800  1174  C47C 4F                  FCB    79          (     31) :047C: '%     '     80
00330900  1175  C47D 52                  FCB    82          (     32) :047D: '%     '     90
00331000  1176  C47E 56                  FCB    86          (   33.6) :047E: '%     '    100

00331200                        * ---------------------------------------------- SPEED        800 RPM
00331300  1177  C47F 20                  FCB    32          (   12.5) :047F: '%     '     20      KPA-MAP
00331400                        *-                                    ::EQU N=E*2.56 ::
00331500  1178  C480 20                  FCB    32          (   12.5) :0480: '%     '     30
00331600  1179  C481 25                  FCB    37          (   14.4) :0481: '%     '     40
00331700  1180  C482 35                  FCB    53          (   20.7) :0482: '%     '     50
00331800  1181  C483 39                  FCB    57          (   22.3) :0483: '%     '     60
00331900  1182  C484 49                  FCB    73          (   28.5) :0484: '%     '     70
00332000  1183  C485 4F                  FCB    79          (     31) :0485: '%     '     80
00332100  1184  C486 52                  FCB    82          (     32) :0486: '%     '     90
00332200  1185  C487 56                  FCB    86          (   33.6) :0487: '%     '    100

00332400                        * ---------------------------------------------- SPEED       1000 RPM
00332500  1186  C488 22                  FCB    34          (   13.3) :0488: '%     '     20      KPA-MAP
00332600                        *-                                    ::EQU N=E*2.56 ::
00332700  1187  C489 27                  FCB    39          (   15.2) :0489: '%     '     30
00332800  1188  C48A 2F                  FCB    47          (   18.4) :048A: '%     '     40
00332900  1189  C48B 3D                  FCB    61          (     24) :048B: '%     '     50
00333000  1190  C48C 43                  FCB    67          (     26) :048C: '%     '     60
00333100  1191  C48D 49                  FCB    73          (   28.5) :048D: '%     '     70
00333200  1192  C48E 4F                  FCB    79          (     31) :048E: '%     '     80
00333300  1193  C48F 52                  FCB    82          (     32) :048F: '%     '     90
00333400  1194  C490 56                  FCB    86          (   33.6) :0490: '%     '    100

00333600                        * ---------------------------------------------- SPEED       1200 RPM
00333700  1195  C491 24                  FCB    36          (     14) :0491: '%     '     20      KPA-MAP
00333800                        *-                                    ::EQU N=E*2.56 ::
00333900  1196  C492 28                  FCB    40          (   15.6) :0492: '%     '     30
00334000  1197  C493 32                  FCB    50          (   19.5) :0493: '%     '     40
00334100  1198  C494 41                  FCB    65          (   25.4) :0494: '%     '     50
00334200  1199  C495 46                  FCB    70          (   27.3) :0495: '%     '     60
00334300  1200  C496 49                  FCB    73          (   28.5) :0496: '%     '     70
00334400  1201  C497 4F                  FCB    79          (     31) :0497: '%     '     80
00334500  1202  C498 52                  FCB    82          (     32) :0498: '%     '     90
00334600  1203  C499 56                  FCB    86          (   33.6) :0499: '%     '    100

00334800                        * ---------------------------------------------- SPEED       1400 RPM
00334900  1204  C49A 24                  FCB    36          (     14) :049A: '%     '     20      KPA MAP
00335000                        *-                                    ::EQU N=E*2.56 ::
00335100  1205  C49B 29                  FCB    41          (     16) :049B: '%     '     30
```

```
00335200  1206  C49C 34            FCB    52          (    20.3) :049C: '%       '    40
00335300  1207  C49D 44            FCB    68          (    26.6) :049D: '%       '    50
00335400  1208  C49E 48            FCB    72          (      28) :049E: '%       '    60
00335500  1209  C49F 49            FCB    73          (    28.5) :049F: '%       '    70
00335600  1210  C4A0 50            FCB    80          (    31.3) :04A0: '%       '    80
00335700  1211  C4A1 53            FCB    83          (    32.4) :04A1: '%       '    90
00335800  1212  C4A2 57            FCB    87          (      34) :04A2: '%       '   100

00336000                    * ---------------------------------------- SPEED       1600 RPM
00336100  1213  C4A3 24            FCB    36          (      14) :04A3: '%       '    20    KPA-MAP
00336200                    *-
00336300  1214  C4A4 29            FCB    41          :           ::EQU N=E*2.56 ::
00336400  1215  C4A5 2E            FCB    46          (      16) :04A4: '%       '    30
00336500  1216  C4A6 45            FCB    69          (      18) :04A5: '%       '    40
00336600  1217  C4A7 4A            FCB    74          (      27) :04A6: '%       '    50
00336700  1218  C4A8 4D            FCB    77          (      29) :04A7: '%       '    60
00336800  1219  C4A9 51            FCB    81          (      30) :04A8: '%       '    70
00336900  1220  C4AA 54            FCB    84          (    31.6) :04A9: '%       '    80
00337000  1221  C4AB 59            FCB    89          (      33) :04AA: '%       '    90
                                                      (    34.8) :04AB: '%       '   100

00337200                    *##########################################
00337300                    *     F30 TABLE                           #
00337400                    *   BASE PULSE VOLUMETRIC EFFICIENCY VS RPM  #
00337500                    *                                         #
00337600                    *  TABLE VALUE = PERCENT*2.56             #
00337700                    *                                         #
00337800                    *##########################################
00337900                    *-                        :        ::PROTECT ::
00338000                    *-                        :        ::TBL2D,17,2,TBL7,1,'%' ::
00338100                    * ----------------------------------------------------------
00338200  1222  C4AC 10     F30    FCB    16          (      16) :04AC: '         ' USE 17 VALUE TABLE
00338300                    *-                        :        ::EQU N=E ::
00338400                    *-                        :        ::NOPROTECT ::
00338500                    * ----------------------------------------------------------
00338600  1223  C4AD 70            FCB    112         (    43.8) :04AD: '%       '     0    RPM-SPEED
00338700                    *-                        :        ::EQU N=E*2.56 ::
00338800  1224  C4AE 70            FCB    112         (    43.8) :04AE: '%       '   400
00338900  1225  C4AF 70            FCB    112         (    43.8) :04AF: '%       '   800
00339000  1226  C4B0 70            FCB    112         (    43.8) :04B0: '%       '  1200
00339100  1227  C4B1 70            FCB    112         (    43.8) :04B1: '%       '  1600
00339200  1228  C4B2 70            FCB    112         (    43.8) :04B2: '%       '  2000
00339300  1229  C4B3 70            FCB    112         (    43.8) :04B3: '%       '  2400
00339400  1230  C4B4 70            FCB    112         (    43.8) :04B4: '%       '  2800
00339500  1231  C4B5 6F            FCB    111         (    43.4) :04B5: '%       '  3200
00339600  1232  C4B6 76            FCB    118         (      46) :04B6: '%       '  3600
00339700  1233  C4B7 7A            FCB    122         (    47.7) :04B7: '%       '  4000
00339800  1234  C4B8 7C            FCB    124         (    48.4) :04B8: '%       '  4400
00339900  1235  C4B9 80            FCB    128         (      50) :04B9: '%       '  4800
00340000  1236  C4BA 7D            FCB    125         (      49) :04BA: '%       '  5200
00340100  1237  C4BB 70            FCB    112         (    43.8) :04BB: '%       '  5600
00340200  1238  C4BC 63            FCB    99          (    38.7) :04BC: '%       '  6000
00340300  1239  C4BD 51            FCB    81          (    31.6) :04BD: '%       '  6400
```

```
                         *##############################################
                         *     F31 TABLE                               #
                         *   BASE PULSE INVERSE COOLANT TERM VS COOLDEG #
                         *                                             #
                         *  TABLE VALUE = 50000./DEG. KELVIN           #
                         *                                             #
                         *##############################################
                         *-                                  :   ::PROTECT ::
                         *-                                  :   ::TBL2D,17,2,TBL13,1,'DEG K' ::
                         * ------------------------------------------------
1240  C4BE 10            F31C    FCB    16       (        16) :04BE: '        ' 17 VALUE TABLE
                         *-                                  :   ::EQU N=E ::
                         *-                                  :   ::NOPROTECT ::
                         * ------------------------------------------------
1241  C4BF 00                    FCB    0        (         0) :04BF: 'DEG K '   -40  DEG C-COOLTEMP
                         *-                                  :   ::IF(E.EQ.O)N=E ::
                         *-                                  :   ::IF(E.NE.O)N=50000/E ::
1242  C4C0 00                    FCB    0        (         0) :04C0: 'DEG K '   -28
1243  C4C1 00                    FCB    0        (         0) :04C1: 'DEG K '   -16
1244  C4C2 00                    FCB    0        (         0) :04C2: 'DEG K '    -4
1245  C4C3 00                    FCB    0        (         0) :04C3: 'DEG K '     8
1246  C4C4 00                    FCB    0        (         0) :04C4: 'DEG K '    20
1247  C4C5 00                    FCB    0        (         0) :04C5: 'DEG K '    32
1248  C4C6 00                    FCB    0        (         0) :04C6: 'DEG K '    44
1249  C4C7 00                    FCB    0        (         0) :04C7: 'DEG K '    56
1250  C4C8 00                    FCB    0        (         0) :04C8: 'DEG K '    68
1251  C4C9 00                    FCB    0        (         0) :04C9: 'DEG K '    80
1252  C4CA 00                    FCB    0        (         0) :04CA: 'DEG K '    92
1253  C4CB 00                    FCB    0        (         0) :04CB: 'DEG K '   104
1254  C4CC 00                    FCB    0        (         0) :04CC: 'DEG K '   116
1255  C4CD 00                    FCB    0        (         0) :04CD: 'DEG K '   128
1256  C4CE 00                    FCB    0        (         0) :04CE: 'DEG K '   140
1257  C4CF 00                    FCB    0        (         0) :04CF: 'DEG K '   152
```

```
                         *##############################################
                         *     F31M TABLE                              #
                         *                                             #
                         *   BASE PULSE INVERSE AIRTEMP TERM VS ADMAT  #
                         *                                             #
                         *  TABLE VALUE = 50000./DEG. KELVIN           #
                         *                                             #
                         *   ACSP SENSOR, 1K PULL-UP                   #
                         *                                             #
                         *##############################################
                         *-                                  :   ::PROTECT ::
                         *-                                  :   ::TBL2D,17,2,TBL14,1,'DEG K' ::
                         * ------------------------------------------------
1258  C4D0 10            F31M    FCB    16       (        16) :04D0: '        ' 17 VALUE TABLE
                         *-                                  :   ::EQU N=E ::
```

```
00345400                              *-                                   :    ::NOPROTECT ::
00345500                              * ---------------------------------------------------------------
00345600  1259  C4D1 9B                    FCB     155                 (      323) :04D1: 'DEG K '    HOT  DEG C-MATTEMP
00345700                              *-                                   :    ::IF(E.EQ.0)N=E ::
00345800                              *-                                   :    ::IF(E.NE.0)N=50000/E ::
00345900  1260  C4D2 9B                    FCB     155                 (      323) :04D2: 'DEG K '   136
00346000  1261  C4D3 9B                    FCB     155                 (      323) :04D3: 'DEG K '   107
00346100  1262  C4D4 9B                    FCB     155                 (      323) :04D4: 'DEG K '    91
00346200  1263  C4D5 9B                    FCB     155                 (      323) :04D5: 'DEG K '    80
00346300  1264  C4D6 9B                    FCB     155                 (      323) :04D6: 'DEG K '    71
00346400  1265  C4D7 9B                    FCB     155                 (      323) :04D7: 'DEG K '    63
00346500  1266  C4D8 9B                    FCB     155                 (      323) :04D8: 'DEG K '    56
00346600  1267  C4D9 9B                    FCB     155                 (      323) :04D9: 'DEG K '  49.3
00346700  1268  C4DA 9B                    FCB     155                 (      323) :04DA: 'DEG K '  43.3
00346800  1269  C4DB 9B                    FCB     155                 (      323) :04DB: 'DEG K '    37
00346900  1270  C4DC 9B                    FCB     155                 (      323) :04DC: 'DEG K '  30.5
00347000  1271  C4DD 9B                    FCB     155                 (      323) :04DD: 'DEG K '  23.5
00347100  1272  C4DE 9D                    FCB     157                 (      319) :04DE: 'DEG K '  15.5
00347200  1273  C4DF 9F                    FCB     159                 (      315) :04DF: 'DEG K '     6
00347300  1274  C4E0 A5                    FCB     165                 (      303) :04E0: 'DEG K '  -8.5
00347400  1275  C4E1 C0                    FCB     192                 (      260) :04E1: 'DEG K '  COLD

00347600                              *#################################################
00347700                              *      F33 TABLE                                  #
00347800                              *    VOLTAGE COMPENSATION VS BATTERY VOLTAGE (ADBAT)  #
00347900                              *                                                 #
00348000                              *   TABLE VALUE = FACTOR * 128                    #
00348100                              *                                                 #
00348200                              *#################################################

00348400                              *-                                   :    ::TBL2D,5,TBL11,4,'FACTOR' ::

00348600                              * ---------------------------------------------------------------
00348700  1276  C4E2 8B               F33C       FCB     139               (    1.086) :04E2: 'FACTOR'   4.8  VOLTS-BATTERY
00348800                              *-                                   :    ::EQU N=E*128 ::
00348900  1277  C4E3 89                          FCB     137               (     1.07) :04E3: 'FACTOR'   6.4
00349000  1278  C4E4 86                          FCB     134               (     1.05) :04E4: 'FACTOR'   8.0
00349100  1279  C4E5 83                          FCB     131               (     1.02) :04E5: 'FACTOR'   9.6
00349200  1280  C4E6 80                          FCB     128               (        1) :04E6: 'FACTOR'  11.2

00349400                              *#################################################
00349500                              *      F34 TABLE                                  #
00349600                              *    DE COOLANT FACTOR VS COOLANT TEMP (COOLDEGB)  #
00349700                              *                                                 #
00349800                              *   TABLE VALUE = FACTOR*32                       #
00349900                              *                                                 #
00350000                              *#################################################
00350100                              *-                                   :    ::TBL2D,13,TBL13,2,'FACTOR' ::
00350200                              * ---------------------------------------------------------------
00350300  1281  C4E7 00               F34B       FCB     0                 (        0) :04E7: 'FACTOR'   -28  DEG C-COOLTEMP
```

DATATBL.

```
                     *-                              :   ::EQU N=E*32 ::
1282  C4E8 00                          FCB     0     (     0) :04E8: 'FACTOR'   -16
1283  C4E9 10                          FCB    16     (   0.5) :04E9: 'FACTOR'    -4
1284  C4EA 10                          FCB    16     (   0.5) :04EA: 'FACTOR'     8
1285  C4EB 10                          FCB    16     (   0.5) :04EB: 'FACTOR'    20
1286  C4EC 20                          FCB    32     (     1) :04EC: 'FACTOR'    32
1287  C4ED 20                          FCB    32     (     1) :04ED: 'FACTOR'    44
1288  C4EE 18                          FCB    24     (  0.75) :04EE: 'FACTOR'    56
1289  C4EF 17                          FCB    23     (  0.72) :04EF: 'FACTOR'    68
1290  C4F0 28                          FCB    40     (  1.25) :04F0: 'FACTOR'    80
1291  C4F1 28                          FCB    40     (  1.25) :04F1: 'FACTOR'    92
1292  C4F2 28                          FCB    40     (  1.25) :04F2: 'FACTOR'   104
1293  C4F3 28                          FCB    40     (  1.25) :04F3: 'FACTOR'   116


                     *##############################################################
                     *      F35 TABLE                                              #
                     *    DE MAP CONTRIBUTION VS MAP CHANGE ABOVE THRESHOLD        #
                     *                                                             #
                     *   TABLE VALUE = PERCENT*2.56                                #
                     *                                                             #
                     *   N.B. VALUES IN THIS TABLE REPRESENT A PERCENT             #
                     *        REDUCTION OF BASE PULSE AND NOT A PERCENT            #
                     *        OF BASE PULSE.                                       #
                     *                                                             #
                     *##############################################################
                     *-                              :   ::PROTECT ::
                     *-                              :   ::TBL20,5,2,TBL9,1,2,'%' ::
                     * -----------------------------------------------------
1294  C4F4 04        F35B      FCB     4             (     4) :04F4: '        ' USE 5 VALUE TABLE
                     *-                              :   ::EQU N=E ::
                     *-                              :   ::NOPROTECT ::
                     * -----------------------------------------------------
1295  C4F5 08                  FCB     8             (     3) :04F5: '%       '    0    KPA-MAP
                     *-                              :   ::EQU N=E*2.56 ::
1296  C4F6 11                  FCB    17             (   6.6) :04F6: '%       '   10
1297  C4F7 20                  FCB    32             (  12.5) :04F7: '%       '   20
1298  C4F8 4A                  FCB    74             (    29) :04F8: '%       '   30
1299  C4F9 4A                  FCB    74             (    29) :04F9: '%       '   40

                     *##############################################################
                     *      F36 TABLE                                              #
                     *    DE THROTTLE CONTRIBUTION VS THROTTLE CHANGE              #
                     *                                                             #
                     *   TABLE VALUE = PERCENT*2.56                                #
                     *                                                             #
                     *   N.B. VALUES IN THIS TABLE REPRESENT A PERCENT             #
                     *        REDUCTION OF BASE PULSE AND NOT A PERCENT            #
                     *        OF BASE PULSE.                                       #
```

DATATBIT

```
                    *                                                                          #
                    *#########################################################################
                    *-                              :          ::PROTECT ::
                    *-                              :          ::TBL2D,5,2,TBL16,1,'%' ::
                    * ---------------------------------------------------------------
1300  C4FA 04       F36A    FCB    4                (       4) :04FA: '        ' USE 5 VALUE TABLE
                    *-                              :          ::EQU N=E ::
                    *-                              :          ::NOPROTECT ::
                    * ---------------------------------------------------------------
                            FCB  , 19               (     7.4) :04FB: '%       ' 00.00      %-4*DT
1301  C4FB 13       *-                              :          ::EQU N=E*2.56 ::
1302  C4FC 1D               FCB    29               (    11.3) :04FC: '%       ' 06.25
1303  C4FD 35               FCB    53               (    20.7) :04FD: '%       ' 12.50
1304  C4FE 35               FCB    53               (    20.7) :04FE: '%       ' 18.75
1305  C4FF 35               FCB    53               (    20.7) :04FF: '%       ' 25.00

                    *#####################################################
                    *      F39 TABLE                                     #
                    *     MAP MULTIPLIER FOR DECELERATION ENLEANMENT     #
                    *                                                    #
                    *    TABLE VALUE = FACTOR * 128                      #
                    *                                                    #
                    *#####################################################
                    *-                              :          ::TBL2DL,9,2,TBL4,1,2,'FACTOR' ::
                    * ---------------------------------------------------------------
1306  C500 01       F39     FCB    1                (       1) :0500: '        ' LOAD SELECTOR (01 =
                    *-                              :                  NMAPLD,
                    *-                              :          ::EQU N=E ::
                    *-                              :                  03 = NTPSLD)
                    *-                              :          ::PROTECT ::
                    * ---------------------------------------------------------------
                            FCB    8                (       8) :0501: 'FACTOR'   20     KPA-MAP
1307  C501 08       *-                              :          ::NOPROTECT ::
                            FCB    192              (     1.5) :0502: 'FACTOR'   30
1308  C502 C0       *-                              :          ::EQU N=E*128 ::
1309  C503 C0               FCB    192              (     1.5) :0503: 'FACTOR'   40
1310  C504 A0               FCB    160              (    1.25) :0504: 'FACTOR'   50
1311  C505 80               FCB    128              (       1) :0505: 'FACTOR'   60
1312  C506 80               FCB    128              (       1) :0506: 'FACTOR'   70
1313  C507 80               FCB    128              (       1) :0507: 'FACTOR'   80
1314  C508 80               FCB    128              (       1) :0508: 'FACTOR'   90
1315  C509 60               FCB    96               (    0.75) :0509: 'FACTOR'  100
                    * ---------------------------------------------------------------
1316  C50A 00               FCB    0                (       0) :050A: '        ' 100       100.0

                    *####################################################
                    *      F21 TABLE                                    #
                    *     AE - DELTA MAP CONTRIB. VS DELTA MAP          #
                    *                                                   #
                    *    TABLE VALUE = MSEC. * 16.384                   #
                    *                                                   #
```

```
                                *#########################################################
                                *-                                  :          ::PROTECT ::
                                *-                                  :          ::TBL2D,5,2,TBL9,1,2,'MSEC' ::
                                * -----------------------------------------------------------
1317  C50B 04           F21A     FCB     4                          (      4) :050B: '        ' USE 5 VALUE TABLE
                                *-                                  :          ::EQU N=E ::
                                *-                                  :          ::NOPROTECT ::
                                * -----------------------------------------------------------
1318  C50C 03                    FCB     3                          (    0.2) :050C: 'MSEC   '    0    KPA-MAP
                                *-                                  :          ::EQU N=E*16.384 ::
1319  C50D 04                    FCB     4                          (   0.24) :050D: 'MSEC   '    10
1320  C50E 05                    FCB     5                          (    0.3) :050E: 'MSEC   '    20
1321  C50F 06                    FCB     6                          (   0.37) :050F: 'MSEC   '    30
1322  C510 06                    FCB     6                          (   0.37) :0510: 'MSEC   '    40

                                *#########################################################
                                *       F22 TABLE                                        #
                                *     AE - DELTA THROTTLE CONTRIB. VS (8.*DELTA THROT)   #
                                *                                                        #
                                *     TABLE VALUE = MSEC. * 16.384                       #
                                *                                                        #
                                *#########################################################
                                *-                                  :          ::PROTECT ::
                                *-                                  :          ::TBL2D,5,2,TBL16,1,'MSEC' ::
                                * -----------------------------------------------------------
1323  C511 04           F22A     FCB     4                          (      4) :0511: '        ' USE 5 VALUE TABLE
                                *-                                  :          ::EQU N=E ::
                                *-                                  :          ::NOPROTECT ::
                                * -----------------------------------------------------------
1324  C512 05                    FCB     5                          (    0.3) :0512: 'MSEC   ' 00.00     %-4*DT
                                *-                                  :          ::EQU N=E*16.384 ::
1325  C513 10                    FCB     16                         (      1) :0513: 'MSEC   ' 06.25
1326  C514 13                    FCB     19                         (   1.16) :0514: 'MSEC   ' 12.50
1327  C515 13                    FCB     19                         (   1.16) :0515: 'MSEC   ' 18.75
1328  C516 13                    FCB     19                         (   1.16) :0516: 'MSEC   ' 25.00

                                *################################################################
                                *       F37 TABLE                                               #
                                *     AE TEMP CORRECTION FACTOR VS COOLANT TEMP (COOLDEGB)      #
                                *                                                               #
                                *     TABLE VALUE = FACTOR*32                                   #
                                *                                                               #
                                *################################################################
                                *-                                  :          ::TBL2D,13,TBL13,2,'FACTOR' ::
                                * ------------------------------------------------------------
1329  C517 10           F37B     FCB     16                         (    0.5) :0517: 'FACTOR'   -28  DEG C-COOLTEMP
                                *-                                             ::EQU N=E*32 ::
1330  C518 10                    FCB     16                         (    0.5) :0518: 'FACTOR'   -16
1331  C519 10                    FCB     16                         (    0.5) :0519: 'FACTOR'   -4
```

```
00365300   1332  C51A 13                FCB     19               (      0.6) :051A: 'FACTOR'      8
00365400   1333  C51B 13                FCB     19               (      0.6) :051B: 'FACTOR'     20
00365500   1334  C51C 10                FCB     16               (      0.5) :051C: 'FACTOR'     32
00365600   1335  C51D 10                FCB     16               (      0.5) :051D: 'FACTOR'     44
00365700   1336  C51E 10                FCB     16               (      0.5) :051E: 'FACTOR'     56
00365800   1337  C51F 10                FCB     16               (      0.5) :051F: 'FACTOR'     68
00365900   1338  C520 05                FCB     5                (     0.16) :0520: 'FACTOR'     80
00366000   1339  C521 05                FCB     5                (     0.16) :0521: 'FACTOR'     92
00366100   1340  C522 05                FCB     5                (     0.16) :0522: 'FACTOR'    104
00366200   1341  C523 05                FCB     5                (     0.16) :0523: 'FACTOR'    116

00366400                          *###############################################
00366500                          *      F38 TABLE                                #
00366600                          *    RPM MULTIPLIER FOR ACCELERATION ENRICHMENT #
00366700                          *                                               #
00366800                          *   TABLE VALUE = FACTOR * 128                  #
00366900                          *                                               #
00367000                          *###############################################
00367100                          *-                                   :        ::TBL2D,8,TBL7,2,'FACTOR' ::
00367200                          * ---------------------------------------------------
00367300   1342  C524 20          F38        FCB     32          (     0.25) :0524: 'FACTOR'    400    RPM-SPEED
00367400                          *-                                   :        ::EQU N=E*128 ::
00367500   1343  C525 40                     FCB     64          (      0.5) :0525: 'FACTOR'    800
00367600   1344  C526 60                     FCB     96          (     0.75) :0526: 'FACTOR'   1200
00367700   1345  C527 80                     FCB     128         (        1) :0527: 'FACTOR'   1600
00367800   1346  C528 A0                     FCB     160         (     1.25) :0528: 'FACTOR'   2000
00367900   1347  C529 A0                     FCB     160         (     1.25) :0529: 'FACTOR'   2400
00368000   1348  C52A A0                     FCB     160         (     1.25) :052A: 'FACTOR'   2800
00368100   1349  C52B A0                     FCB     160         (     1.25) :052B: 'FACTOR'   3200

00368400                          ******************************************************
00368500                          *    F50 TABLE                                       *
00368600                          *  BIASTEMP VS. COOLTSU                              *
00368700                          *                                                    *
00368800                          ******************************************************
00368900                          *-                                   :        ::TBL2D,11,1,TBL13,1,'DEG C' ::
00369000                          * ---------------------------------------------------
00369100   1350  C52C 57          F50        FCB     87          (       65) :052C: 'DEG C '    -40  DEG C-COOLTEMP
00369200                          *-                                   :        ::EQU N=E*256/192 ::
00369300   1351  C52D 47                     FCB     71          (       53) :052D: 'DEG C '    -28
00369400   1352  C52E 37                     FCB     55          (       41) :052E: 'DEG C '    -16
00369500   1353  C52F 27                     FCB     39          (       29) :052F: 'DEG C '     -4
00369600   1354  C530 00                     FCB     0           (        0) :0530: 'DEG C '      8
00369700   1355  C531 3F                     FCB     63          (       47) :0531: 'DEG C '     20
00369800   1356  C532 2F                     FCB     47          (       35) :0532: 'DEG C '     32
```

```
1357  C533 00              FCB   0           (      0) :0533: 'DEG C '    44
1358  C534 00              FCB   0           (      0) :0534: 'DEG C '    56
1359  C535 00              FCB   0           (      0) :0535: 'DEG C '    68
1360  C536 00              FCB   0           (      0) :0536: 'DEG C '    80

                    *##############################################################
                    *     F51 TABLE                                               #
                    *    AIR/FUEL TIME OUT VS COOLANT TEMP. (COOLDEGB)            #
                    *                                                             #
                    *   TABLE VALUE = AIRFUEL * 10                                #
                    *                                                             #
                    *##############################################################
                                                     :           ::TBL2D,13,TBL13,2,'RATIO' ::
                    *-
                    * ----------------------------------------------------------
1361  C537 41       F51C     FCB   65        (    6.5) :0537: 'RATIO '   -28  DEG C-COOLTEMP
                    *-                       :           ::EQU N=E*10 ::
1362  C538 41                FCB   65        (    6.5) :0538: 'RATIO '   -16
1363  C539 41                FCB   65        (    6.5) :0539: 'RATIO '    -4
1364  C53A 41                FCB   65        (    6.5) :053A: 'RATIO '     8
1365  C53B 23                FCB   35        (    3.5) :053B: 'RATIO '    20
1366  C53C 23                FCB   35        (    3.5) :053C: 'RATIO '    32
1367  C53D 23                FCB   35        (    3.5) :053D: 'RATIO '    44
1368  C53E 1E                FCB   30        (      3) :053E: 'RATIO '    56
1369  C53F 19                FCB   25        (    2.5) :053F: 'RATIO '    68
1370  C540 19                FCB   25        (    2.5) :0540: 'RATIO '    80
1371  C541 14                FCB   20        (      2) :0541: 'RATIO '    92
1372  C542 07                FCB   7         (    0.7) :0542: 'RATIO '   104
1373  C543 19                FCB   25        (    2.5) :0543: 'RATIO '   116

                    *##############################################################
                    *     F52 TABLE                                               #
                    *    A/F TIME OUT REDUCTION INTERVAL VS COOLANT (COOLDEGB)    #
                    *                                                             #
                    *   TABLE VALUE = (SEC * 5) - 1.0                             #
                    *                                                             #
                    *##############################################################
                                                     :           ::TBL2D,13,TBL13,2,'SEC' ::
                    *-
                    * ----------------------------------------------------------
1374  C544 13       F52C     FCB   19        (      4) :0544: 'SEC   '   -28  DEG C-COOLTEMP
                    *-                       :           ::EQU N=E*5-1 ::
1375  C545 11                FCB   17        (    3.6) :0545: 'SEC   '   -16
1376  C546 0F                FCB   15        (    3.2) :0546: 'SEC   '    -4
1377  C547 0F                FCB   15        (    3.2) :0547: 'SEC   '     8
1378  C548 0F                FCB   15        (    3.2) :0548: 'SEC   '    20
1379  C549 0A                FCB   10        (    2.2) :0549: 'SEC   '    32
1380  C54A 0F                FCB   15        (    3.2) :054A: 'SEC   '    44
1381  C54B 0F                FCB   15        (    3.2) :054B: 'SEC   '    56
1382  C54C 14                FCB   20        (    4.2) :054C: 'SEC   '    68
```

```
00374700  1383  C54D 14                FCB   20              (     4.2) :054D: 'SEC    '   80
00374800  1384  C54E 08                FCB   8               (     1.8) :054E: 'SEC    '   92
00374900  1385  C54F 11                FCB   17              (     3.6) :054F: 'SEC    '  104
00375000  1386  C550 0C                FCB   12              (     2.6) :0550: 'SEC    '  116

00375200                    *##################################################
00375300                    *    F54 TABLE                                    #
00375400                    *   CRANK AIR/FUEL VS COOLANT TEMPERATURE         #
00375500                    *                                                 #
00375600                    *   TABLE VALUE = AIR FUEL * 10                   #
00375700                    *                                                 #
00375800                    *##################################################
00375900                    *-                               :          ::TBL2D,13,TBL13,1,1,'RATIO' ::
00376000                    * -----------------------------------------------------------
00376100  1387  C551 1D     F54A     FCB   29              (     2.9) :0551: 'RATIO '   -40  DEG C-COOLTEMP
00376200                    *-                               :          ::EQU N=E*10 ::
00376300  1388  C552 20              FCB   32              (     3.2) :0552: 'RATIO '   -28
00376400  1389  C553 28              FCB   40              (       4) :0553: 'RATIO '   -16
00376500  1390  C554 33              FCB   51              (     5.1) :0554: 'RATIO '    -4
00376600  1391  C555 3C              FCB   60              (       6) :0555: 'RATIO '     8
00376700  1392  C556 46              FCB   70              (       7) :0556: 'RATIO '    20
00376800  1393  C557 50              FCB   80              (       8) :0557: 'RATIO '    32
00376900  1394  C558 5A              FCB   90              (       9) :0558: 'RATIO '    44
00377000  1395  C559 6E              FCB   110             (      11) :0559: 'RATIO '    56
00377100  1396  C55A 82              FCB   130             (      13) :055A: 'RATIO '    68
00377200  1397  C55B A1              FCB   161             (    16.1) :055B: 'RATIO '    80
00377300  1398  C55C A1              FCB   161             (    16.1) :055C: 'RATIO '    92
00377400  1399  C55D A1              FCB   161             (    16.1) :055D: 'RATIO '   104

00377600                    *##################################################
00377700                    *     F56 TABLE                                   #
00377800                    *    COLD ENGINE TEMP. DEPENDENT AIR/FUEL RATIO   #
00377900                    *    VS COOLANT TEMPERATURE AND (NMAPLD OR N2MAPLD) #
00378000                    *                                                 #
00378100                    *   TABLE VALUE = AIR FUEL * 10                   #
00378200                    *                                                 #
00378300                    *##################################################

00378500                    *-                               :          ::PROTECT ::
00378600                    *-                               :          ::TBL3D,10,9,TBL13,1,TBL40,1,'RATIO'
00378700                    *-                               :          ::
00378800                    * -----------------------------------------------------------
00378900  1400  C55E 00     F56A     FCB   0               (       0)*:055E: '      ' R MIN; R = COOLDEG
00379000                    *-                               :          ::EQU N=E ::
00379100                    * -----------------------------------------------------------
00379200  1401  C55F 00              FCB   0               (       0)*:055F: '      ' Q MIN; Q = NMAPLD OR
00379300                    *-                               :                 N2MAPLD
003794C0                    *-                               :          ::EQU N=E ;:
00379500                    * -----------------------------------------------------------
00379600  1402  C560 09              FCB   9               (       9) :0560: '      ' R NUM
```

```
                          *-                                     :             ::EQU N=E ::
                          *-                                     :             ::NOPROTECT ::

                          *TABLE VALUE = AIR/FUEL RATIO*10
                          *  -40  DEG C
                          * ----------------------------------------- COOLTEMP     -40 DEG C
1403  C561 6E                       FCB     110          (         11) :0561: 'RATIO ' 20 50 MAP 1A-MAP 2A
                          *-                                     :             ::EQU N=E*10 ::
1404  C562 6E                       FCB     110          (         11) :0562: 'RATIO ' 30 60
1405  C563 6E                       FCB     110          (         11) :0563: 'RATIO ' 40 70
1406  C564 6E                       FCB     110          (         11) :0564: 'RATIO ' 50 80
1407  C565 69                       FCB     105          (       10.5) :0565: 'RATIO ' 60 90
1408  C566 64                       FCB     100          (         10) :0566: 'RATIO ' 70 100
1409  C567 64                       FCB     100          (         10) :0567: 'RATIO ' 80 110
1410  C568 64                       FCB     100          (         10) :0568: 'RATIO ' 90 120
1411  C569 64                       FCB     100          (         10) :0569: 'RATIO ' 100 130

                          * ----------------------------------------- COOLTEMP     -28 DEG C
1412  C56A 6E                       FCB     110          (         11) :056A: 'RATIO ' 20 50 MAP 1A-MAP 2A
                          *-                                     :             ::EQU N=E*10 ::
1413  C56B 6E                       FCB     110          (         11) :056B: 'RATIO ' 30 60
1414  C56C 6E                       FCB     110          (         11) :056C: 'RATIO ' 40 70
1415  C56D 6E                       FCB     110          (         11) :056D: 'RATIO ' 50 80
1416  C56E 69                       FCB     105          (       10.5) :056E: 'RATIO ' 60 90
1417  C56F 64                       FCB     100          (         10) :056F: 'RATIO ' 70 100
1418  C570 64                       FCB     100          (         10) :0570: 'RATIO ' 80 110
1419  C571 64                       FCB     100          (         10) :0571: 'RATIO ' 90 120
1420  C572 64                       FCB     100          (         10) :0572: 'RATIO ' 100 130

                          * ----------------------------------------- COOLTEMP     -16 DEG C
1421  C573 6E                       FCB     110          (         11) :0573: 'RATIO ' 20 50 MAP 1A-MAP 2A
                          *-                                     :             ::EQU N=E*10 ::
1422  C574 6E                       FCB     110          (         11) :0574: 'RATIO ' 30 60
1423  C575 6E                       FCB     110          (         11) :0575: 'RATIO ' 40 70
1424  C576 6E                       FCB     110          (         11) :0576: 'RATIO ' 50 80
1425  C577 6E                       FCB     110          (         11) :0577: 'RATIO ' 60 90
1426  C578 6E                       FCB     110          (         11) :0578: 'RATIO ' 70 100
1427  C579 6E                       FCB     110          (         11) :0579: 'RATIO ' 80 110
1428  C57A 6E                       FCB     110          (         11) :057A: 'RATIO ' 90 120
1429  C57B 6E                       FCB     110          (         11) :057B: 'RATIO ' 100 130

                          * ----------------------------------------- COOLTEMP      -4 DEG C
1430  C57C 78                       FCB     120          (         12) :057C: 'RATIO ' 20 50 MAP 1A-MAP 2A
                          *-                                     :             ::EQU N=E*10 ::
1431  C57D 78                       FCB     120          (         12) :057D: 'RATIO ' 30 60
1432  C57E 78                       FCB     120          (         12) :057E: 'RATIO ' 40 70
1433  C57F 78                       FCB     120          (         12) :057F: 'RATIO ' 50 80
1434  C580 78                       FCB     120          (         12) :0580: 'RATIO ' 60 90
1435  C581 78                       FCB     120          (         12) :0581: 'RATIO ' 70 100
1436  C582 78                       FCB     120          (         12) :0582: 'RATIO ' 80 110
1437  C583 78                       FCB     120          (         12) :0583: 'RATIO ' 90 120
1438  C584 78                       FCB     120          (         12) :0584: 'RATIO ' 100 130
```

DATATBIT

```
00385000                            * ----------------------------------- COOLTEMP      8 DEG C
00385100  1439  C585 80                 FCB    128          (   12.8) :058!:  'RATIO ' 20 50 MAP 1A-MAP 2A
00385200                            *-                      :          ::EQU N=E+10 ::
00385300  1440  C586 80                 FCB    128          (   12.8) :0586:  'RATIO ' 30 60
00385400  1441  C587 80                 FCB    128          (   12.8) :0587:  'RATIO ' 40 70
00385500  1442  C588 80                 FCB    128          (   12.8) :0588:  'RATIO ' 50 80
00385600  1443  C589 80                 FCB    128          (   12.8) :0589:  'RATIO ' 60 90
00385700  1444  C58A 80                 FCB    128          (   12.8) :058A:  'RATIO ' 70 100
00385800  1445  C58B 7C                 FCB    124          (   12.4) :058B:  'RATIO ' 80 110
00385900  1446  C58C 7A                 FCB    122          (   12.2) :058C:  'RATIO ' 90 120
00386000  1447  C58D 7A                 FCB    122          (   12.2) :058D:  'RATIO ' 100 130

00386200                            * ----------------------------------- COOLTEMP     20 DEG C
00386300  1448  C58E 93                 FCB    147          (   14.7) :058E:  'RATIO ' 20 50 MAP 1A-MAP 2A
00386400                            *-                      :          ::EQU N=E+10 ::
00386500  1449  C58F 93                 FCB    147          (   14.7) :058F:  'RATIO ' 30 60
00386600  1450  C590 90                 FCB    144          (   14.4) :0590:  'RATIO ' 40 70
00386700  1451  C591 8A                 FCB    138          (   13.8) :0591:  'RATIO ' 50 80
00386800  1452  C592 8A                 FCB    138          (   13.8) :0592:  'RATIO ' 60 90
00386900  1453  C593 84                 FCB    132          (   13.2) :0593:  'RATIO ' 70 100
00387000  1454  C594 7C                 FCB    124          (   12.4) :0594:  'RATIO ' 80 110
00387100  1455  C595 7A                 FCB    122          (   12.2) :0595:  'RATIO ' 90 120
00387200  1456  C596 7A                 FCB    122          (   12.2) :0596:  'RATIO ' 100 130

00387400                            * ----------------------------------- COOLTEMP     32 DEG C
00387500  1457  C597 99                 FCB    153          (   15.3) :0597:  'RATIO ' 20 50 MAP 1A-MAP 2A
00387600                            *-                      :          ::EQU N=E+10 ::
00387700  1458  C598 99                 FCB    153          (   15.3) :0598:  'RATIO ' 30 60
00387800  1459  C599 96                 FCB    150          (     15) :0599:  'RATIO ' 40 70
00387900  1460  C59A 8C                 FCB    140          (     14) :059A:  'RATIO ' 50 80
00388000  1461  C59B 8A                 FCB    138          (   13.8) :059B:  'RATIO ' 60 90
00388100  1462  C59C 88                 FCB    136          (   13.6) :059C:  'RATIO ' 70 100
00388200  1463  C59D 7C                 FCB    124          (   12.4) :059D:  'RATIO ' 80 110
00388300  1464  C59E 7A                 FCB    122          (   12.2) :059E:  'RATIO ' 90 120
00388400  1465  C59F 7A                 FCB    122          (   12.2) :059F:  'RATIO ' 100 130

00388600                            * ----------------------------------- COOLTEMP     44 DEG C
00388700  1466  C5A0 99                 FCB    153          (   15.3) :05A0:  'RATIO ' 20 50 MAP 1A-MAP 2A
00388800                            *-                      :          ::EQU N=E+10 ::
00388900  1467  C5A1 99                 FCB    153          (   15.3) :05A1:  'RATIO ' 30 60
00389000  1468  C5A2 93                 FCB    147          (   14.7) :05A2:  'RATIO ' 40 70
00389100  1469  C5A3 8E                 FCB    142          (   14.2) :05A3:  'RATIO ' 50 80
00389200  1470  C5A4 8A                 FCB    138          (   13.8) :05A4:  'RATIO ' 60 90
00389300  1471  C5A5 88                 FCB    136          (   13.6) :05A5:  'RATIO ' 70 100
00389400  1472  C5A6 82                 FCB    130          (     13) :05A6:  'RATIO ' 80 110
00389500  1473  C5A7 7D                 FCB    125          (   12.5) :05A7:  'RATIO ' 90 120
00389600  1474  C5A8 7D                 FCB    125          (   12.5) :05A8:  'RATIO ' 100 130

00389800                            * ----------------------------------- COOLTEMP     56 DEG C
00389900  1475  C5A9 99                 FCB    153          (   15.3) :05A9:  'RATIO ' 20 50 MAP 1A-MAP 2A
00390000                            *-                      :          ::EQU N=E+10 ::
```

```
00390100  1476  C5AA 99        FCB   153      (    15.3) :05AA: 'RATIO '  30 60
00390200  1477  C5AB 93        FCB   147      (    14.7) :05AB: 'RATIO '  40 70
00390300  1478  C5AC 8E        FCB   142      (    14.2) :05AC: 'RATIO '  50 80
00390400  1479  C5AD 8A        FCB   138      (    13.8) :05AD: 'RATIO '  60 90
00390500  1480  C5AE 8A        FCB   138      (    13.8) :05AE: 'RATIO '  70 100
00390600  1481  C5AF 82        FCB   130      (      13) :05AF: 'RATIO '  80 110
00390700  1482  C5B0 7D        FCB   125      (    12.5) :05B0: 'RATIO '  90 120
00390800  1483  C5B1 7D        FCB   125      (    12.5) :05B1: 'RATIO '  100 130

00391000                 * ------------------------------------ COOLTEMP     68 DEG C
00391100  1484  C5B2 8A        FCB   138      (    13.8) :05B2: 'RATIO '  20 50 MAP 1A-MAP 2A
00391200                 *-                   :         ::EQU N=E*10 ::
00391300  1485  C5B3 8A        FCB   138      (    13.8) :05B3: 'RATIO '  30 60
00391400  1486  C5B4 8A        FCB   138      (    13.8) :05B4: 'RATIO '  40 70
00391500  1487  C5B5 8A        FCB   138      (    13.8) :05B5: 'RATIO '  50 80
00391600  1488  C5B6 8A        FCB   138      (    13.8) :05B6: 'RATIO '  60 90
00391700  1489  C5B7 8A        FCB   138      (    13.8) :05B7: 'RATIO '  70 100
00391800  1490  C5B8 87        FCB   135      (    13.5) :05B8: 'RATIO '  80 110
00391900  1491  C5B9 87        FCB   135      (    13.5) :05B9: 'RATIO '  90 120
00392000  1492  C5BA 87        FCB   135      (    13.5) :05BA: 'RATIO '  100 130

00392200                 *###############################################
00392300                 *     F57 TABLE                                #
00392400                 *    AIR/FUEL RATIO  VS  COOLANT TEMPERATURE   #
00392500                 *    FOR COLD ENGINE AND CLOSED THROTTLE       #
00392600                 *                                              #
00392700                 *   TABLE VALUE = AIR FUEL * 10                #
00392800                 *                                              #
00392900                 *###############################################
00393000                 *-                   :       ::TBL2D,10,1,TBL13,1,1,'RATIO' ::
00393100                 * ---------------------------------------------------
00393200  1493  C5BB 6E  F57   FCB   110      (      11) :05BB: 'RATIO '  -40  DEG C-COOLTEMP
00393300                 *-                   :         ::EQU N=E*10 ::
00393400  1494  C5BC 6E       FCB   110      (      11) :05BC: 'RATIO '  -28
00393500  1495  C5BD 6E       FCB   110      (      11) :05BD: 'RATIO '  -16
00393600  1496  C5BE 78       FCB   120      (      12) :05BE: 'RATIO '   -4
00393700  1497  C5BF 80       FCB   128      (    12.8) :05BF: 'RATIO '    8
00393800  1498  C5C0 87       FCB   135      (    13.5) :05C0: 'RATIO '   20
00393900  1499  C5C1 8D       FCB   141      (    14.1) :05C1: 'RATIO '   32
00394000  1500  C5C2 8D       FCB   141      (    14.1) :05C2: 'RATIO '   44
00394100  1501  C5C3 8E       FCB   142      (    14.2) :05C3: 'RATIO '   56
00394200  1502  C5C4 8E       FCB   142      (    14.2) :05C4: 'RATIO '   68

00394500                 ********************************************
00394600                 *   F60                                    *
00394700                 *   ALTITUDE FACTOR FOR ADJUSTING BPW AND EGR *
00394800                 *   VS. NBARO AND NMAPLD                   *
00394900                 *                                          *
00395000                 *   TABLE VALUE = MULTIPLIER * 128         *
00395100                 ********************************************
```

```
                            *-                      :         ::PROTECT ::
                            *-                      :         ::TBL3D,4,9,TBL8,1,1,TBL9,5,2,
                            *-                      :                'FACTOR' ::
                            * -----------------------------------------------------------
1503  C5C5 60               F60    FCB    96        (     96) :05C5: '      ' R MIN: R = BARO
                                                                     (NBARO)
                            *-                      :         ::EQU N=E ::
                            *-                      :
                            * -----------------------------------------------------------
1504  C5C6 00                      FCB    0         (      0)*:05C6: '      ' Q MIN: Q = MAP
                                                                     (NMAPLD)
                            *-                      :
                            * -----------------------------------------------------------
1505  C5C7 09                      FCB    9         (      9) :05C7: '      ' R NUM  (NUMBER OF
                            *-                      :                COLUMNS)
                            *-                      :         ::NOPROTECT ::

                            *  TABLE VALUE = FACTOR * 128
                            *     75 KPA
                            * ---------------------------------------- BARO       75 KPA
1506  C5C8 00                      FCB    0         (      0) :05C8: 'FACTOR'   20     KPA-MAP
                            *-                      :         ::EQU N=E*128 ::
1507  C5C9 00                      FCB    0         (      0) :05C9: 'FACTOR'   30
1508  C5CA 00                      FCB    0         (      0) :05CA: 'FACTOR'   40
1509  C5CB 00                      FCB    0         (      0) :05CB: 'FACTOR'   50
1510  C5CC 00                      FCB    0         (      0) :05CC: 'FACTOR'   60
1511  C5CD 00                      FCB    0         (      0) :05CD: 'FACTOR'   70
1512  C5CE 00                      FCB    0         (      0) :05CE: 'FACTOR'   80
1513  C5CF 00                      FCB    0         (      0) :05CF: 'FACTOR'   90
1514  C5D0 00                      FCB    0         (      0) :05D0: 'FACTOR'  100

                            * ---------------------------------------- BARO       85 KPA
1515  C5D1 80                      FCB    128       (      1) :05D1: 'FACTOR'   20     KPA-MAP
                            *-                      :         ::EQU N=E*128 ::
1516  C5D2 80                      FCB    128       (      1) :05D2: 'FACTOR'   30
1517  C5D3 80                      FCB    128       (      1) :05D3: 'FACTOR'   40
1518  C5D4 80                      FCB    128       (      1) :05D4: 'FACTOR'   50
1519  C5D5 80                      FCB    128       (      1) :05D5: 'FACTOR'   60
1520  C5D6 80                      FCB    128       (      1) :05D6: 'FACTOR'   70
1521  C5D7 80                      FCB    128       (      1) :05D7: 'FACTOR'   80
1522  C5D8 80                      FCB    128       (      1) :05D8: 'FACTOR'   90
1523  C5D9 80                      FCB    128       (      1) :05D9: 'FACTOR'  100

                            * ---------------------------------------- BARO       95 KPA
1524  C5DA 80                      FCB    128       (      1) :05DA: 'FACTOR'   20     KPA-MAP
                            *-                      :         ::EQU N=E*128 ::
1525  C5DB 80                      FCB    128       (      1) :05DB: 'FACTOR'   30
1526  C5DC 80                      FCB    128       (      1) :05DC: 'FACTOR'   40
1527  C5DD 80                      FCB    128       (      1) :05DD: 'FACTOR'   50
1528  C5DE 80                      FCB    128       (      1) :05DE: 'FACTOR'   60
1529  C5DF 80                      FCB    128       (      1) :05DF: 'FACTOR'   70
1530  C5E0 80                      FCB    128       (      1) :05E0: 'FACTOR'   80
1531  C5E1 80                      FCB    128       (      1) :05E1: 'FACTOR'   90
```

```
1532  C5E2 80                      FCB    128             (        1) :05E2: 'FACTOR'    100

                         * ---------------------------------------- BARO         105 KPA
1533  C5E3 80                      FCB    128             (        1) :05E3: 'FACTOR'     20    KPA-MAP
                                                          :         ::EQU N=E*128 ::
                         *-
1534  C5E4 80                      FCB    128             (        1) :05E4: 'FACTOR'     30
1535  C5E5 80                      FCB    128             (        1) :05E5: 'FACTOR'     40
1536  C5E6 80                      FCB    128             (        1) :05E6: 'FACTOR'     50
1537  C5E7 80                      FCB    128             (        1) :05E7: 'FACTOR'     60
1538  C5E8 80                      FCB    128             (        1) :05E8: 'FACTOR'     70
1539  C5E9 80                      FCB    128             (        1) :05E9: 'FACTOR'     80
1540  C5EA 80                      FCB    128             (        1) :05EA: 'FACTOR'     90
1541  C5EB 80                      FCB    128             (        1) :05EB: 'FACTOR'    100


                         *###########################################################
                         *     F61 TABLE                                            #
                         *                                                          #
                         *  POWER ENRICHMENT AIRFUEL RATIO V.S. NTRPMX              #
                         *                                                          #
                         *   TABLE VALUE = RATIO * 10                               #
                         *                                                          #
                         *###########################################################
                         *-                               :         ::PROTECT ::
                         *-                               :         ::TBL2D,9,2,TBL7,1,2,'RATIO' ::
                         * ---------------------------------------------------------------
1542  C5EC 08            F61       FCB    8               (        8) :05EC: '        ' USE 9 VALUE TABLE
                         *-                               :         ::EQU N=E ::
                         *-                               :         ::NOPROTECT ::
                         * ---------------------------------------------------------------
1543  C5ED 7A                      FCB    122             (     12.2) :05ED: 'RATIO '      0    RPM-SPEED
                         *-                               :         ::EQU N=E*10 ::
1544  C5EE 7A                      FCB    122             (     12.2) :05EE: 'RATIO '    800
1545  C5EF 7A                      FCB    122             (     12.2) :05EF: 'RATIO '   1600
1546  C5F0 7A                      FCB    122             (     12.2) :05F0: 'RATIO '   2400
1547  C5F1 7A                      FCB    122             (     12.2) :05F1: 'RATIO '   3200
1548  C5F2 7A                      FCB    122             (     12.2) :05F2: 'RATIO '   4000
1549  C5F3 7A                      FCB    122             (     12.2) :05F3: 'RATIO '   4800
1550  C5F4 7A                      FCB    122             (     12.2) :05F4: 'RATIO '   5600
1551  C5F5 7A                      FCB    122             (     12.2) :05F5: 'RATIO '   6400


                         ************************************************************
                         *    F63 TABLE                                             *
                         *             POWER ENRICHMENT THROTTLE CHANGE V.S. NBARO  *
                         *                                                          *
                         *        TABLE VALUE = PERCENT * 2.56                      *
                         *                                                          *
                         ************************************************************
```

DATATBIT

```
00405300                            *-                                      :     ::TBL2D,4,TBL8,1,'%' ::
00405400                            * ---------------------------------------------------------------
00405500   1552  C5F6 08            F63      FCB   8                        (        3) :05F6: '%     '     75    KPA BARO
00405600                            *-                                      :     ::EQU N=E*2.56 ::
00405700   1553  C5F7 FF                     FCB   255                      (     99.6) :05F7: '%     '     85
00405800   1554  C5F8 08                     FCB   8                        (        3) :05F8: '%     '     95
00405900   1555  C5F9 08                     FCB   8                        (        3) :05F9: '%     '    105

00406100                            *;*********************************************
00406200                            *;*    F64  TABLE                               *
00406300                            *;*       CRANK-TO-RUN A/F DECAY DELAY VS. COOLDEGB  *
00406400                            *                                               *
00406500                            *          TABLE VALUE = SEC*40                 *
00406600                            *;*********************************************
00406700                            *-                                      :     ::TBL2D,7,TBL13,2,2,'SEC' ::
00406800                            * ---------------------------------------------------------------
00406900   1556  C5FA 08            F64      FCB   8                        (      0.2) :05FA: 'SEC   '    -28  DEG C-COOLTEMP
00407000                            *-                                      :     ::EQU N=E*40 ::
00407100   1557  C5FB 20                     FCB   32                       (      0.8) :05FB: 'SEC   '     -4
00407200   1558  C5FC 02                     FCB   2                        (     0.05) :05FC: 'SEC   '     20
00407300   1559  C5FD 02                     FCB   2                        (     0.05) :05FD: 'SEC   '     44
00407400   1560  C5FE 06                     FCB   6                        (     0.15) :05FE: 'SEC   '     68
00407500   1561  C5FF 06                     FCB   6                        (     0.15) :05FF: 'SEC   '     92
00407600   1562  C600 00                     FCB   0                        (        0) :0600: 'SEC   '    116


00407800                            *##############################################
00407900                            *     F67 TABLE                               #
00408000                            *   HIGH THRESHHOLD FOR A/F SLOW TRIM LOGIC   #
00408100                            *                                          #
00408200                            *   TABLE VALUE = VOLTS * 226               #
00408300                            *                                          #
00408400                            *##############################################
00408500                            *-                                      :     ::PROTECT ::
00408600                            *-                                      :     ::TBL2D,5,2,TBL9,5,4,'VOLTS' ::
00408700                            * ---------------------------------------------------------------
00408800   1563  C601 04            F67      FCB   4                        (        4) :0601: '      ' USE 5 VALUE TABLE
00408900                            *-                                      :     ::EQU N=E ::
00409000                            *-                                      :     ::NOPROTECT ::
00409100                            * ---------------------------------------------------------------
00409200   1564  C602 87                     FCB   135                      (    0.597) :0602: 'VOLTS '     20    KPA MAP
00409300                            *-                                      :     ::EQU N=E*226 ::
00409400   1565  C603 87                     FCB   135                      (    0.597) :0603: 'VOLTS '     40
00409500   1566  C604 87                     FCB   135                      (    0.597) :0604: 'VOLTS '     60
00409600   1567  C605 87                     FCB   135                      (    0.597) :0605: 'VOLTS '     80
00409700   1568  C606 87                     FCB   135                      (    0.597) :0606: 'VOLTS '    100

00409900                            *##############################################
00410000                            *     F68 TABLE                               #
00410100                            *   LOW THRESHHOLD FOR A/F SLOW TRIM LOGIC    #
00410200                            *                                          #
```

DATATBL1

```
00410300                        *   TABLE VALUE = VOLTS * 226                    #
00410400                        *                                                #
00410500                        *################################################
00410600                        *-                          :          ::PROTECT ::
00410700                        *-                          :          ::TBL2D,5,2,TBL9,5,4,'VOLTS' ::
00410800                        *-------------------------------------------------
00410900  1569  C607 04        F68     FCB   4             (       4) :0607: '      ' USE 5 VALUE TABLE
00411000                        *-                          :          ::EQU N=E ::
00411100                        *-                          :          ::NOPROTECT ::
00411200                        *-------------------------------------------------
00411300  1570  C608 87                FCB   135           (   0.597) :0608: 'VOLTS '    20    KPA-MAP
00411400                        *-                          :          ::EQU N=E*226 ::
00411500  1571  C609 87                FCB   135           (   0.597) :0609: 'VOLTS '    40
00411600  1572  C60A 87                FCB   135           (   0.597) :060A: 'VOLTS '    60
00411700  1573  C60B 87                FCB   135           (   0.597) :060B: 'VOLTS '    80
00411800  1574  C60C 87                FCB   135           (   0.597) :060C: 'VOLTS '    100

00412000                        ************************************************
00412100                        *  F77 TABLE     BOOST MULTIPLIER              *
00412200                        *    BASE PULSE MULTIPLIER VS. MAP(2ATM)       *
00412300                        *                                              *
00412400                        *     TABLE VALUE = MULTIPLIER * 128           *
00412500                        *                                              *
00412600                        ************************************************

00412800                        *-                          :          ::TBL2D,11,TBL39,2,'FACTOR' ::
00412900                        *-------------------------------------------------
00413000  1575  C60D 80        F77A    FCB   128           (       1) :060D: 'FACTOR'    90    KPA-MAP
00413100                        *-                          :          ::EQU N=E*128 ::
00413200  1576  C60E 80                FCB   128           (       1) :060E: 'FACTOR'    100
00413300  1577  C60F 83                FCB   131           (    1.02) :060F: 'FACTOR'    110
00413400  1578  C610 88                FCB   136           (    1.06) :0610: 'FACTOR'    120
00413500  1579  C611 8D                FCB   141           (     1.1) :0611: 'FACTOR'    130
00413600  1580  C612 8D                FCB   141           (     1.1) :0612: 'FACTOR'    140
00413700  1581  C613 8D                FCB   141           (     1.1) :0613: 'FACTOR'    150
00413800  1582  C614 8D                FCB   141           (     1.1) :0614: 'FACTOR'    160
00413900  1583  C615 8D                FCB   141           (     1.1) :0615: 'FACTOR'    170
00414000  1584  C616 8D                FCB   141           (     1.1) :0616: 'FACTOR'    180
00414100  1585  C617 93                FCB   147           (    1.15) :0617: 'FACTOR'    190

00414300                        *################################################
00414400                        *     F92 TABLE          FUEL BIAS               #
00414500                        *                                                #
00414600                        *     FUEL INJECTOR OFFSET VS. BATTERY VOLTAGE   #
00414700                        *                                                #
00414800                        *     TABLE VALUE = MSEC * 32.768                #
00414900                        *                                                #
00415000                        *################################################
00415100                        *-                          :          ::PROTECT ::
00415200                        *-                          :          ::TBL2D,17,2,TBL11,1,'MSEC' ::
00415300                        *-------------------------------------------------
```

DATATBIT

```
00415400  1586  C618 10     F92    FCB   16      (     16) :0618: '       ' USE 17 VALUE TABLE
00415500                    *-                   :         ::EQU N=E ::
00415600                    *-                   :         ::NOPROTECT ::
00415700                    * -------------------------------------------------------------------
00415800  1587  C619 11            FCB   17      (   0.52) :0619: 'MSEC   '   0.0  VOLTS-BATTERY
00415900                    *-                   :         ::EQU N=E*32.768 ::
00416000  1588  C61A 11            FCB   17      (   0.52) :061A: 'MSEC   '   1.6
00416100  1589  C61B 11            FCB   17      (   0.52) :061B: 'MSEC   '   3.2
00416200  1590  C61C 1F            FCB   31      (   0.95) :061C: 'MSEC   '   4.8
00416300  1591  C61D 1F            FCB   31      (   0.95) :061D: 'MSEC   '   6.4
00416400  1592  C61E 1F            FCB   31      (   0.95) :061E: 'MSEC   '   8.0
00416500  1593  C61F 18            FCB   24      (   0.73) :061F: 'MSEC   '   9.6
00416600  1594  C620 15            FCB   21      (   0.64) :0620: 'MSEC   '  11.2
00416700  1595  C621 13            FCB   19      (   0.58) :0621: 'MSEC   '  12.8
00416800  1596  C622 11            FCB   17      (   0.52) :0622: 'MSEC   '  14.4
00416900  1597  C623 11            FCB   17      (   0.52) :0623: 'MSEC   '  16.0
00417000  1598  C624 11            FCB   17      (   0.52) :0624: 'MSEC   '  17.6
00417100  1599  C625 11            FCB   17      (   0.52) :0625: 'MSEC   '  19.2
00417200  1600  C626 11            FCB   17      (   0.52) :0626: 'MSEC   '  20.8
00417300  1601  C627 11            FCB   17      (   0.52) :0627: 'MSEC   '  22.4
00417400  1602  C628 11            FCB   17      (   0.52) :0628: 'MSEC   '  24.0
00417500  1603  C629 11            FCB   17      (   0.52) :0629: 'MSEC   '  25.5

00417700                    *#################################################
00417800                    *    F94 TABLE                  FUEL BIAS        #
00417900                    *                                                #
00418000                    *    FUEL INJECTOR OFFSET VS. BASE PULSE WIDTH   #
00418100                    *                                                #
00418200                    *    TABLE VALUE = MSEC * 65.536                 #
00418300                    *                                                #
00418400                    *#################################################

                                                           ::TBL2D,!5,TBL47,3,'MSEC' ::
00418600                    *-                   :
00418700                    * -------------------------------------------------------------------
00418800  1604  C62A 00     F94    FCB   0       (      0) :062A: 'MSEC   ' 0.488   MSEC-BPW
00418900                    *-                   :         ::EQU N=E*65.536 ::
00419000  1605  C62B 00            FCB   0       (      0) :062B: 'MSEC   ' 0.732
00419100  1606  C62C 00            FCB   0       (      0) :062C: 'MSEC   ' 0.977
00419200  1607  C62D 00            FCB   0       (      0) :062D: 'MSEC   ' 1.221
00419300  1608  C62E 00            FCB   0       (      0) :062E: 'MSEC   ' 1.465
00419400  1609  C62F 00            FCB   0       (      0) :062F: 'MSEC   ' 1.709
00419500  1610  C630 00            FCB   0       (      0) :0630: 'MSEC   ' 1.953
00419600  1611  C631 00            FCB   0       (      0) :0631: 'MSEC   ' 2.197
00419700  1612  C632 00            FCB   0       (      0) :0632: 'MSEC   ' 2.441
00419800  1613  C633 00            FCB   0       (      0) :0633: 'MSEC   ' 2.686
00419900  1614  C634 00            FCB   0       (      0) :0634: 'MSEC   ' 2.930
00420000  1615  C635 00            FCB   0       (      0) :0635: 'MSEC   ' 3.174
00420100  1616  C636 00            FCB   0       (      0) :0636: 'MSEC   ' 3.418
00420200  1617  C637 00            FCB   0       (      0) :0637: 'MSEC   ' 3.662
00420300  1618  C638 00            FCB   0       (      0) :0638: 'MSEC   ' 3.906
```

```
00420500                        ++DATAIAC ++BLOCK ID++
00420600                        ************************************************
00420700                        *   IDLE AIR   CONTROL PARAMETERS AND TABLES   *
00420800                        ************************************************

00421000  1619      C639        IACPAR  EQU     *

00421200                        *
00421300                        *  N.B. THE ORDER OF THE FOLLOWING 8 PARAMETERS MUST BE PRESERVED!
00421400                        *
00421500                        * ------------------------------------------------------------------
00421600  1620  C639 61         KISMLTR1 FCB    $61             ( $61) :0639: '      ' CLOSED LOOP GAINWORD,
00421700                        *-                              :              SMALL ERROR RETRACT, DRIVE
00421800                        *-                              :          ::EQU N=E ::
00421900                        * ------------------------------------------------------------------
00422000  1621  C63A 12         KISMLTR2 FCB    $12             ( $12) :063A: '      ' CLOSED LOOP GAINWORD,
00422100                        *-                              :              LARGE ERROR RETRACT, DRIVE
00422200                        *-                              :          ::EQU N=E ::
00422300                        * ------------------------------------------------------------------
00422400  1622  C63B 21         KISMLTE1 FCB    $21             ( $21) :063B: '      ' CLOSED LOOP GAINWORD,
00422500                        *-                              :              SMALL ERROR EXTEND, DRIVE
00422600                        *-                              :          ::EQU N=E ::
00422700                        * ------------------------------------------------------------------
00422800  1623  C63C 01         KISMLTE2 FCB    $1              ( $01) :063C: '      ' CLOSED LOOP GAINWORD,
00422900                        *-                              :              LARGE ERROR EXTEND, DRIVE
00423000                        *-                              :          ::EQU N=E ::
00423100                        * ------------------------------------------------------------------
00423200  1624  C63D 61         KISMPNR1 FCB    $61             ( $61) :063D: '      ' CLOSED LOOP GAINWORD,
00423300                        *-                              :              SMALL ERROR RETRACT, P/N
00423400                        *-                              :          ::EQU N=E ::
00423500                        * ------------------------------------------------------------------
00423600  1625  C63E 22         KISMPNR2 FCB    $22             ( $22) :063E: '      ' CLOSED LOOP GAINWORD,
00423700                        *-                              :              LARGE ERROR RETRACT, P/N
00423800                        *-                              :          ::EQU N=E ::
00423900                        * ------------------------------------------------------------------
00424000  1626  C63F 21         KISMPNE1 FCB    $21             ( $21) :063F: '      ' CLOSED LOOP GAINWORD,
00424100                        *-                              :              SMALL ERROR EXTEND, P/N
00424200                        *-                              :          ::EQU N=E ::
00424300                        * ------------------------------------------------------------------
00424400  1627  C640 02         KISMPNE2 FCB    $2              ( $02) :0640: '      ' CLOSED LOOP GAINWORD,
00424500                        *-                              :              LARGE ERROR EXTEND, P/N
00424600                        *-                              :          ::EQU N=E ::
00424700                        *
00424800                        *  N.B. THE ORDER OF THE PREVIOUS 8 PARAMETERS MUST BE PRESERVED!
00424900                        *

00425100                        *****HYSTERESIS PAIR BASED ON MPH*******
00425200                        * ------------------------------------------------------------------
00425300  1628  C641 03         KISTCBNL FCB    3               (  1) :0641: '%      ' TPS DELTA FOR
00425400                        *-                              :              ENTERING THROTTLE CRACKER
00425500                        *-                              :          ::EQU N=E+2.56 ::
00425600                        * ------------------------------------------------------------------
```

```
1629  C642 05      KISTCBNH FCB    5         (         2) :0642: '%       ' TPS DELTA FOR
                                                             ENTERING THROTTLE CRACKER
                   *-                        :          ::EQU N=E*2.56 ::
                   *-                        :
                   *****HYSTERESIS PAIR BASED ON MPH*******

                   * -----------------------------------------------------
1630  C643 19      KISALPC  FCB    25        (        25) :0643: 'STEPS ' INITIAL P.S. STALL
                                                             IAC PULSES
                   *-                        :          ::EQU N=E ::
                   *-                        :
                   * -----------------------------------------------------
1631  C644 21      KACDLD   FCB    33        (        33) :0644: 'STEPS ' INITIAL DELTA STEP
                                                             FOR A/C BASE, DRIVE
                   *-                        :          ::EQU N=E ::
                   *-                        :
                   * -----------------------------------------------------
1632  C645 28      KIACACDL FCB    40        (        40) :0645: 'STEPS ' INITIAL NV RAM FAIL
                                                             DELTA FOR A/C ON
                   *-                        :          ::EQU N=E::
                   *-                        :
                   * -----------------------------------------------------
1633  C646 7D      KISPKDL  FCB    125       (       125) :0646: 'STEPS ' PARK DELTA FROM
                                                             KISSWNA
                   *-                        :          ::EQU N=E ::
                   *-                        :
                   * -----------------------------------------------------
1634  C647 32      KISPSSA1 FCB    50        (       625) :0647: 'RPM    ' RPM FOR POWER
                                                             STEERING STALL
                   *-                        :          ::EQU N=E/12.5 ::
                   *-                        :
                   * -----------------------------------------------------
1635  C648 4A      KISPSSB1 FCB    74        (       925) :0648: 'RPM    ' RPM TO EXIT POWER
                                                             STEERING STALL
                   *-                        :          ::EQU N=E/12.5 ::
                   *-                        :
                   * -----------------------------------------------------
1636  C649 03      KISTPSI  FCB    3         (         1) :0649: '%      ' MINIMUM THROTTLE
                                                             POSITION FOR IDLE
                   *-                        :          ::EQU N=E*2.56 ::
                   *-                        :
                   * -----------------------------------------------------
1637  C64A 0A      KISERROR FCB    10        (       125) :064A: 'RPM    ' ERROR BREAKPOINT FOR
                                                             SELECTING LARGER GAINWORD
                   *-                        :          ::EQU N=E/12.5 ::
                   *-                        :
                   * -----------------------------------------------------
1638  C64B 04      KISERDB1 FCB    4         (        50) :064B: 'RPM    ' DRIVE DEAD BAND
                   *-                        :          ::EQU N=E/12.5 ::
                   * -----------------------------------------------------
1639  C64C 04      KISERDB2 FCB    4         (        50) :064C: 'RPM    ' PARK/NEUTRAL DEAD
                                                             BAND
                   *-                        :          ::EQU N=E/12.5 ::
                   *-                        :
                   * -----------------------------------------------------
1640  C64D 14      KISSWNA  FCB    20        (        20) :064D: 'STEPS ' INITIAL VALUE MOTOR
                                                             POSITION NO A/C
                   *-                        :          ::EQU N=E ::
                   *-                        :
                   * -----------------------------------------------------
1641  C64E 5A      KISSPVT2 FCB    90        (         9) :064E: 'VOLTS ' BATTERY VOLTAGE LIMIT
                   *-                        :          ::EQU N=E*10 ::
                   *-                        :
                   * -----------------------------------------------------
```

DATAIAC

```
1642  C64F 20     KISTCMPH FCB    32         (       10) :064F: 'MPH     ' THROTTLE CRACK OFFSET
                                             :                  MPH THRESHOLD
                  *-                         :             ::EQU N=E*3.2 ::
                  *-
                  * ---------------------------------------------------------------
1643  C650 0F     KISTALPA FCB    15         (       15) :0650: 'STEPS ' THROTTLE CRACKER
                                             :                  OFFSET
                  *-                         :             ::EQU N=E ::
                  *-
                  * ---------------------------------------------------------------
1644  C651 0A     KISTALPB FCB    10         (       10) :0651: 'STEPS ' THROTTLE CRACKER
                  *-                         :                  OFFSET
                  *-                         :             ::EQU N=E ::
                  * ---------------------------------------------------------------
1645  C652 01     KISTCDTA FCB    1          (        1) :0652: 'STEPS ' THROTTLE CRACKER
                  *-                         :                  OFFSET DECAY
                  *-                         :             ::EQU N=E ::
                  * ---------------------------------------------------------------
1646  C653 01     KISTCDTB FCB    1          (        1) :0653: 'STEPS ' THROTTLE CRACKER
                  *-                         :                  OFFSET DECAY
                  *-                         :             ::EQU N=E ::
                  * ---------------------------------------------------------------
1647  C654 20     KIACMPH  FCB    32         (       32) :0654: 'MPH     ' IAC MOTOR RESET
                  *-                         :                  VEHICLE SPEED THRESHOLD
                  *-                         :             ::EQU N=E ::
                  * ---------------------------------------------------------------
1648  C655 00     KISDWADM FCB    0          (        0) :0655: 'RPM     ' DESIRED RPM INCREASE
                  *-                         :                  FOR A/C ON
                  *-                         :             ::EQU N=E/12.5 ::
                  * ---------------------------------------------------------------
1649  C656 03     KPSTCDT  FCB    3          (        3) :0656: 'STEPS ' P/S CRACK DECAY
                  *-                         :             ::EQU N=E ::
                  * ---------------------------------------------------------------
1650  C657 05     KVSIDLE  FCB    5          (      1.6) :0657: 'MPH     ' THRESHOLD FOR
                  *-                         :                  DETERMINING IDLE FOR C/L INT
                  *-                         :                  RESET
                  *-                         :             ::EQU N=E*3.2 ::

                  * ---------------------------------------------------------------
1651  C658 02     KPSLDDS1 FCB    2          (        2) :0658: 'STEPS ' P/S LOAD CRACK MODE
                  *-                         :                  DECAY DELTA
                  *-                         :             ::EQU N=E ::

                  * ---------------------------------------------------------------
1652  C659 00     KPSLDCLC FCB    0          (      0.2) :0659: 'SEC     ' DECAY RATE FOR P/S
                  *-                         :                  LOAD CRACK RECOVERY
                  *-                         :             ::EQU N=E*5-1 ::
                  * ---------------------------------------------------------------
1653  C65A 01     KPSTCLC  FCB    1          (      0.4) :065A: 'SEC     ' POWER STEERING CRACK
                  *-                         :                  DELAY TIME
                  *-                         :             ::EQU N=E*5-1 ::
                  * ---------------------------------------------------------------
1654  C65B 08     KICKTPS  FCB    8          (        3) :065B: '%       ' THROTTLE CHANGE
                  *-                         :                  THRESHOLD TO ENABLE IAC
```

DATAIAC

```
                                                        KICKDOWN
                          *-                        :  ::EQU N=E+2.56 ::
                          *-
                          * ---------------------------------------------
1655  C65C 14   KICKTM   FCB    20         (    20) :065C: 'SEC    ' TIME THRESHOLD TO
                                                        ENABLE IAC KICKDOWN
                          *-                        :  ::EQU N=E ::
                          *-
                          * ---------------------------------------------
1656  C65D 19   KICKDTA  FCB    25         (    25) :065D: 'STEPS ' KICKDOWN ADJUSTMENT
                                                        TO DESIRED MOTOR POSITION
                          *-                        :  ::EQU N=E ::
                          *-
                          * ---------------------------------------------
1657  C65E 06   KETCDLTA FCB    6          (     6) :065E: 'STEPS ' EXTENDED THROTTLE
                                                        CRACKER ADJUSTMENT
                          *-                        :  ::EQU N=E ::
                          *-
                          * ---------------------------------------------
1658  C65F 0C   KPKDRDEL FCB    12         (   2.4) :065F: 'SEC    ' IAC CLOSED LOOP DELAY
                                                        FOR PK/DRIVE TRANSITION
                          *-                        :  ::EQU N=E*5 ::
                          *-

                          * ---------------------------------------------
1659  C660 0F   KISTDELC FCB    15         (   3.2) :0660: 'SEC    ' INITIAL IAC STALL
                                                        SAVER CRACKER TIME DELAY
                          *-                        :  ::EQU N=E*5-1 ::
                          *-
                          * ---------------------------------------------
1660  C661 0A   KETCDLTB FCB    10         (    10) :0661: 'STEPS ' ETC DELTA FOR
                                                        IGNITION OFF
                          *-                        :  ::EQU N=E ::
                          *-
                          * ---------------------------------------------
1661  C662 0D   KACTRANS FCB    13         (   2.6) :0662: 'SEC    ' IAC C/L DELAY FOR A/C
                                                        CHANGE
                          *-                        :  ::EQU N=E*5 ::
                          *-
                          * ---------------------------------------------
1662  C663 05   KSAGSTEP FCB    5          (     5) :0663: 'STEPS ' IAC RPM SAG MOTOR
                                                        POSITION OFFSET
                          *-                        :  ::EQU N=E ::
                          *-
                          * ---------------------------------------------
1663  C664 04   KSGTCLC  FCB    4          (     1) :0664: 'SEC    ' SAG MODE DECAY REP
                                                        RATE
                          *-                        :  ::EQU N=E*5-1 ::
                          *-
                          * ---------------------------------------------
1664  C665 01   KSGTCDT  FCB    1          (     1) :0665: 'STEPS ' SAG MODE DECAY DELTA
                          *-                        :  ::EQU N=E ::
                          * ---------------------------------------------
1665  C666 78   KIACTINH FCB    120        (    50) :0666: 'DEG C ' TEMP ABOVE WHICH
                                                        COOLANT RAMP IS DISABLED
                          *-                        :  ::EQU N=(E+40)*256/192 ::
                          *-

                          *;*************************************
                          *;*  IDLE SPEED STABILIZER PARAMETERS *
                          *;*************************************

                          * ---------------------------------------------
```

DATAIAC

```
00441300  1666  C667 05          KISSPKF  FCB    5                (     0.02) :0667: 'COEF   ' LAG FILTER
00441400                        *-                                :                  COEFFICIENT FOR ISSPKF, N.D.
00441500                        *-                                :                  (0-1)
00441600                        *-                                :          ::EQU N=E*256 ::
00441700                        * ------------------------------------------------------------
00441800  1667  C668 05          KISPSTMR FCB    5                (     0.06) :0668: 'SEC    ' DELAY AFTER IAC
00441900                        *-                                :                  DEADBAND BEFORE ISS SPARK
00442000                        *-                                :                  COMP.
00442100                        *-                                :          ::EQU N=E*80 ::
00442200                        * ------------------------------------------------------------
00442300  1668  C669 FF          KISPTMP  FCB  .  255              (      151) :0669: 'DEG C ' MIN COOLTEMP FOR ISS
00442400                        *-                                :                  LOGIC TO FUNCTION
00442500                        *-                                :          ::EQU N=(E+40)*256/192 ::
```

```
00442800                        ************************************************************
00442900                        *     F10 TABLE                                            *
00443000                        *   IAC MOTOR POSITION TEMPERATURE OFFSET VS. COOLDEG       *
00443100                        *                                                          *
00443200                        *   TABLE VALUE = MOTOR POSITION STEPS                     *
00443300                        *                                                          *
00443400                        ************************************************************
00443500                        *-                                :          ::TBL2D,17,TBL2,1,'STEPS' ::
00443600                        * ------------------------------------------------------------
00443700  1669  C66A 82          F10A     FCB    130              (      130) :066A: 'STEPS '    -40  DEG C-TEMP
00443800                        *-                                :          ::EQU N=E ::
00443900  1670  C66B 82                   FCB    130              (      130) :066B: 'STEPS '    -28
00444000  1671  C66C 69                   FCB    105              (      105) :066C: 'STEPS '    -16
00444100  1672  C66D 64                   FCB    100              (      100) :066D: 'STEPS '     -4
00444200  1673  C66E 55                   FCB    85               (       85) :066E: 'STEPS '      8
00444300  1674  C66F 3C                   FCB    60               (       60) :066F: 'STEPS '     20
00444400  1675  C670 3C                   FCB    60               (       60) :0670: 'STEPS '     32
00444500  1676  C671 1E                   FCB    30               (       30) :0671: 'STEPS '     44
00444600  1677  C672 14                   FCB    20               (       20) :0672: 'STEPS '     56
00444700  1678  C673 0A                   FCB    10               (       10) :0673: 'STEPS '     68
00444800  1679  C674 00                   FCB    0                (        0) :0674: 'STEPS '     80
00444900  1680  C675 00                   FCB    0                (        0) :0675: 'STEPS '     92
00445000  1681  C676 00                   FCB    0                (        0) :0676: 'STEPS '    104
00445100  1682  C677 00                   FCB    0                (        0) :0677: 'STEPS '    116
00445200  1683  C678 00                   FCB    0                (        0) :0678: 'STEPS '    128
00445300  1684  C679 00                   FCB    0                (        0) :0679: 'STEPS '    140
00445400  1685  C67A 00                   FCB    0                (        0) :067A: 'STEPS '    152
```

```
00445600                        ************************************************************
00445700                        *     F12 TABLE                                            *
00445800                        *   POWER STEERING STALL OFFSET VS. NBARO                  *
00445900                        *                                                          *
00446000                        *   TABLE VALUE = MOTOR POSITION OFFSET STEPS              *
00446100                        *                                                          *
```

```
                      ****************************************************************
                      *-                                   :            ::TBL2D,4,TBL8,1,'STEPS' ::
                      * ----------------------------------------------------------------
1686  C67B 1C         F12       FCB     28               (       28) :067B: 'STEPS '    75   KPA-BARO
                      *-                                 :            ::EQU N=E ::
1687  C67C 18                   FCB     24               (       24) :067C: 'STEPS '    85
1688  C67D 14                   FCB     20               (       20) :067D: 'STEPS '    95
1689  C67E 14                   FCB     20               (       20) :067E: 'STEPS '   105

                      ****************************************************************
                      *                                                              *
                      *          F13 TABLE                                           *
                      *     DESIRED IDLE RPM VS BATTERY VOLTAGE (ADBAT)              *
                      *                                                              *
                      *     TABLE VALUE = RPM/12.5                                   *
                      *                                                              *
                      *                                                              *
                      ****************************************************************
                      *-                                   :            ::TBL2D,5,TBL11,6,'RPM' ::
                      * ----------------------------------------------------------------
1690  C67F 50         F13D      FCB     80               (     1000) :067F: 'RPM    '    8.0  VOLTS-BATTERY
                      *-                                 :            ::EQU N=E/12.5 ::
1691  C680 50                   FCB     80               (     1000) :0680: 'RPM    '    9.6
1692  C681 42                   FCB     66               (      825) :0681: 'RPM    '   11.2
1693  C682 42                   FCB     66               (      825) :0682: 'RPM    '   12.8
1694  C683 42                   FCB     66               (      825) :0683: 'RPM    '   14.4

                      ****************************************************************
                      *      F14 TABLE                                               *
                      *  IAC TIMER DECAY RATE VS. COOLANT TEMPERATURE (COOLDEG)      *
                      *                                                              *
                      *  TABLE VALUE = 10 * SEC                                      *
                      *                                                              *
                      ****************************************************************
                      *-                                   :            ::TBL2D,17,TBL13,1,'SEC' ::
                      * ----------------------------------------------------------------
1695  C684 64         F14       FCB     100              (       10) :0684: 'SEC    '   -40  DEG C-COOLTEMP
                      *-                                 :            ::EQU N=E*10 ::
1696  C685 64                   FCB     100              (       10) :0685: 'SEC    '   -28
1697  C686 64                   FCB     100              (       10) :0686: 'SEC    '   -16
1698  C687 3C                   FCB     60               (        6) :0687: 'SEC    '    -4
1699  C688 3C                   FCB     60               (        6) :0688: 'SEC    '     8
1700  C689 3C                   FCB     60               (        6) :0689: 'SEC    '    20
1701  C68A 3C                   FCB     60               (        6) :068A: 'SEC    '    32
1702  C68B 32                   FCB     50               (        5) :068B: 'SEC    '    44
1703  C68C 32                   FCB     50               (        5) :068C: 'SEC    '    56
1704  C68D 32                   FCB     50               (        5) :068D: 'SEC    '    68
1705  C68E 14                   FCB     20               (        2) :068E: 'SEC    '    80
1706  C68F 0A                   FCB     10               (        1) :068F: 'SEC    '    92
1707  C690 0A                   FCB     10               (        1) :0690: 'SEC    '   104
1708  C691 0A                   FCB     10               (        1) :0691: 'SEC    '   116
1709  C692 0A                   FCB     10               (        1) :0692: 'SEC    '   128
```

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```
1710  C693 0A                    FCB     10              (        1) :0693: 'SEC     '    140
1711  C694 0A                    FCB     10              (        1) :0694: 'SEC     '    152

                       * -----------------------------------------------------------------
1712  C695 F5          KIACDM    FCB     245             (     95.7) :0695: '%       ' % OF MOTOR OFFSET
                       *-                                :                  (ISMPTV) RETAINED PLR TIME
                       *-                                :                  INTERVAL
                       *-                                :          ::EQU N=E*2.56 ::
                       * -----------------------------------------------------------------
1713  C696 64          KF14TM1   FCB     100             (       10) :0696: 'SEC     ' TIME INTERVAL FOR
                       *-                                :                  RAMPING OUT MOTOR OFFSET
                       *-                                :                  (ISMPTV
                       *-                                :          ::EQU N=E*10 ::
                       * -----------------------------------------------------------------
1714  C697 0C          KPNDRDEL  FCB     12              (      2.6) :0697: 'SEC     ' IAC CLOSED LOOP DELAY
                       *-                                :                  FOR PK/DRIVE TRANSITION
                       *-                                :          ::EQU N=E*5-1 ::

                       ********************************************************************
                       *    F15 TABLE                                                     *
                       *  IAC DELAY FOR DRIVE TO P/N TRANSITION                           *
                       *        VS. COOLANT TEMPERATURE                                   *
                       *                                                                  *
                       *  TABLE VALUE = SEC * 80                                          *
                       *                                                                  *
                       ********************************************************************
                       *-                                :          ::TBL2D,6,TBL13,2,2,'SEC' ::
                       * -----------------------------------------------------------------
1715  C698 F0          F15       FCB     240             (        3) :0698: 'SEC     '    -28  DEG C-COOLTEMP
                       *-                                :          ::EQU N=E*80 ::
1716  C699 A0                    FCB     160             (        2) :0699: 'SEC     '     -4
1717  C69A 50                    FCB     80              (        1) :069A: 'SEC     '     20
1718  C69B 28                    FCB     40              (      0.5) :069B: 'SEC     '     44
1719  C69C 28                    FCB     40              (      0.5) :069C: 'SEC     '     68
1720  C69D 14                    FCB     20              (     0.25) :069D: 'SEC     '     92

                       * -----------------------------------------------------------------
1721  C69E 64          KALDLRPM  FCB     100             (     1250) :069E: 'RPM     ' DESIRED IDLE RPM FOR
                       *-                                :                  ALDL
                       *-                                :          ::EQU N=E/12.5 ::

                       ********************************************************************
                       *    F16 TABLE                                                     *
                       *  IAC RPM ERROR DEADBAND VS. COOLANT (COOLDEGC) FOR DRIVE         *
                       *                                                                  *
                       *  TABLE VALUE = RPM/12.5                                          *
                       *                                                                  *
                       ********************************************************************
                       *-                                :          ::TBL2D,6,TBL13,2,2,'RPM' ::
                       * -----------------------------------------------------------------
1722  C69F 04          F16       FCB     4               (       50) :069F: 'RPM     '    -28  DEG C COOLTEMP
                       *-                                :          ::EQU N=E/12.5 ::
```

DATAIAC

```
1723  C6A0 04               FCB    4                 (     50) :06A0: 'RPM   '   -4
1724  C6A1 04               FCB    4                 (     50) :06A1: 'RPM   '   20
1725  C6A2 04               FCB    4                 (     50) :06A2: 'RPM   '   44
1726  C6A3 04               FCB    4                 (     50) :06A3: 'RPM   '   68
1727  C6A4 04               FCB    4                 (     50) :06A4: 'RPM   '   92

                  ****************************************************************
                  *    F17 TABLE                                                 *
                  *  IAC RPM ERROR DEADBAND VS. COOLANT (COOLDEGC) FOR PARK/NEUTRAL *
                  *                                                              *
                  *  TABLE VALUE = RPM/12.5                                      *
                  *                                                              *
                  ****************************************************************
                  *-                                     :     ::TBL2D,6,TBL13,2,2,'RPM' ::
                  * ----------------------------------------------------------
1728  C6A5 06     F17       FCB    6                 (     75) :06A5: 'RPM   '  -28  DEG C-COOLTEMP
                  *-                                     :     ::EQU N=E/12.5 ::
1729  C6A6 06               FCB    6                 (     75) :06A6: 'RPM   '   -4
1730  C6A7 06               FCB    6                 (     75) :06A7: 'RPM   '   20
1731  C6A8 06               FCB    6                 (     75) :06A8: 'RPM   '   44
1732  C6A9 06               FCB    6                 (     75) :06A9: 'RPM   '   68
1733  C6AA 04               FCB    4                 (     50) :06AA: 'RPM   '   92

                  ****************************************************************
                  *    F18 TABLE                                                 *
                  *  IAC DESIRED IDLE RPM VS. COOLANT (COOLDEGC) FOR DRIVE       *
                  *                                                              *
                  *  TABLE VALUE = RPM / 12.5                                    *
                  *                                                              *
                  ****************************************************************
                  *-                                     :     ::TBL2D,6,TBL13,2,2,'RPM' ::
                  * ----------------------------------------------------------
1734  C6AB 48     F18       FCB    72                (    900) :06AB: 'RPM   '  -28  DEG C-COOLTEMP
                  *-                                     :     ::EQU N=E/12.5 ::
1735  C6AC 48               FCB    72                (    900) :06AC: 'RPM   '   -4
1736  C6AD 48               FCB    72                (    900) :06AD: 'RPM   '   20
1737  C6AE 48               FCB    72                (    900) :06AE: 'RPM   '   44
1738  C6AF 48               FCB    72                (    900) :06AF: 'RPM   '   68
1739  C6B0 48               FCB    72                (    900) :06B0: 'RPM   '   92

                  ****************************************************************
                  *    F19 TABLE                                                 *
                  *  IAC DESIRED IDLE RPM VS. COOLANT (COOLDEGC) FOR PARK/NEUTRAL *
                  *                                                              *
                  *  TABLE VALUE = RPM / 12.5                                    *
                  *                                                              *
                  ****************************************************************
                  *-                                     :     ::TBL2D,6,TBL13,2,2,'RPM' ::
                  * ----------------------------------------------------------
1740  C6B1 48     F19       FCB    72                (    900) :06B1: 'RPM   '  -28  DEG C-COOLTEMP
                  *-                                     :     ::EQU N=E/12.5 ::
```

DATAIAC

```
00461800  1741  C6B2 48                      FCB     72              (      900) :06B2: 'RPM     '      -4
00461900  1742  C6B3 48                      FCB     72              (      900) :06B3: 'RPM     '      20
00462000  1743  C6B4 48                      FCB     72              (      900) :06B4: 'RPM     '      44
00462100  1744  C6B5 48                      FCB     72              (      900) :06B5: 'RPM     '      68
00462200  1745  C6B6 48                      FCB     72              (      900) :06B6: 'RPM     '      92

00462500                         * ---------------------------------------------------------------
00462600  1746  C6B7 00          KIACWARM FCB     0                  (      -40) :06B7: 'DEG C ' IAC CONTROL COLD
00462700                         *-                                  :                TEMPERATURE THRESHOLD
00462800                         *-                                  :         ::EQU N=(E+40)*256/192 ::

00463000                         * ---------------------------------------------------------------
00463100  1747  C6B8 FFFF        KCNTLCT  FDB     65535              (    65535) :06B8: 'SEC     ' ENGINE RUN TIME
00463200                         *-                                  :                BEFORE IAC COLD CONTROL
00463300                         *-                                  :                ALLOWED
00463400                         *-                                            ::EQU N=E ::

00463600                         * ---------------------------------------------------------------
00463700  1748  C6BA 0F          KNBIASVS FCB     15                 (       15) :06BA: 'MPH     ' VEHICLE SPEED THRESH
00463800                         *-                                  :                TO CLEAR NBIAS VARIABLES
00463900                         *-                                  :         ::EQU N=E ::

00464100                         * ---------------------------------------------------------------
00464200  1749  C6BB 0F          KNBIASTM FCB     15                 (        3) :06BB: 'SEC     ' DELAY TIME TO
00464300                         *-                                  :                DECREMENT NBIASPN OR NBIASDR
00464400                         *-                                  :         ::EQU N=E*5 ::

00464600                         ************************************************
00464700                         *    F20 TABLE                                 *
00464800                         *         IAC RPM SAG DEADBAND VS COOLDEG      *
00464900                         *                                              *
00465000                         *           TABLE VALUE = RPM/12.5             *
00465100                         ************************************************
                                                                     :         ::TBL2D,6,TBL2,2,2,'RPM' ::
00465300                         *-
00465400                         * ---------------------------------------------------------------
00465500  1750  C6BC 0A          F20      FCB     10                 (      125) :06BC: 'RPM     '     -28  DEG C-TEMP
00465600                         *-                                  :         ::EQU N=E/12.5 ::
00465700  1751  C6BD 0A                   FCB     10                 (      125) :06BD: 'RPM     '      -4
00465800  1752  C6BE 0A                   FCB     10                 (      125) :06BE: 'RPM     '      20
00465900  1753  C6BF 0A                   FCB     10                 (      125) :06BF: 'RPM     '      44
00466000  1754  C6C0 0A                   FCB     10                 (      125) :06C0: 'RPM     '      68
00466100  1755  C6C1 0A                   FCB     10                 (      125) :06C1: 'RPM     '      92

00466300                         * ---------------------------------------------------------------
00466400  1756  C6C2 FF          KIACTEMC FCB     255                (      151) :06C2: 'DEG C ' TEMP ABOVE WHICH
00466500                         *-                                                   ISWWACP OR ISWWAC ARE
00466600                         *-                                  INITIALIZED IF THE INIT OPTION IS SELECTED
00466700                         *-                                  :         ::EQU N=(E+40)*256/192 ::
```

```
                          *;*****************************************************
                          *;*     F88 TABLE                                     *
                          *;*  IDLE SPEED STABILIZER SPARK COMPENSATION VS RPM ERROR *
                          *;*                    (POSITIVE RPM ERROR)           *
                          *                                                     *
                          *     TABLE VALUE = DEG * 256/90                      *
                          *                                                     *
                          *;*****************************************************
                          *-                           :            ::TBL2D,5,TBL48,1,'DEG' ::
                          * ---------------------------------------------------------
1757  C6C3 03             F88      FCB    3            (      1) :06C3: 'DEG    '     0    RPM-SPEED
                          *-                           :            ::EQU N=E*256/90 ::
1758  C6C4 05                      FCB    5            (    1.8) :06C4: 'DEG    '    25
1759  C6C5 09                      FCB    9            (      3) :06C5: 'DEG    '    50
1760  C6C6 11                      FCB    17           (      6) :06C6: 'DEG    '    75
1761  C6C7 1A                      FCB    26           (      9) :06C7: 'DEG    '   100

                          *;*****************************************************
                          *;*     F89 TABLE                                     *
                          *;*  IDLE SPEED STABILIZER SPARK COMPENSATION VS RPM ERROR *
                          *;*                    (NEGATIVE RPM ERROR)           *
                          *                                                     *
                          *     TABLE VALUE = DEG * 256/90                      *
                          *                                                     *
                          *;*****************************************************
                          *-                           :            ::TBL2D,5,TBL48,1,'DEG' ::
                          * ---------------------------------------------------------
1762  C6C8 06             F89      FCB    6            (      2) :06C8: 'DEG    '     0    RPM-SPEED
                          *-                           :            ::EQU N=E*256/90 ::
1763  C6C9 0E                      FCB    14           (      5) :06C9: 'DEG    '    25
1764  C6CA 17                      FCB    23           (      8) :06CA: 'DEG    '    50
1765  C6CB 1C                      FCB    28           (     10) :06CB: 'DEG    '    75
1766  C6CC 22                      FCB    34           (     12) :06CC: 'DEG    '   100
```

```
00470200                        *+DATAEVRV++BLOCK ID++
00470400                        ************************************
00470500                        *   EGR PARAMETERS AND TABLES      *
00470600                        ************************************
00470800                        * ------------------------------------------------------------------------
00470900 1767 C6CD A0           KEGRTEM1 FCB    160             (      80) :06CD: 'DEG C ' TEMPERATURE LEVEL FOR
00471000                        *-                              :                 EGR ENABLE
00471100                        *-                              :          ::EQU N=(E+40)*256/192 ::
00471200                        *
00471300                        * THE FOLLOWING 2 PARAMETERS MUST BE KEPT TOGETHER IN THIS ORDER *****
00471400                        *
00471500                        * ------------------------------------------------------------------------
00471600 1768 C6CE F0           KEGRVAC1 FCB    240             (       6) :06CE: 'KPA   ' VAC THRESHOLD, EGR ON
00471700                        *-                              :          ::TBL4,0 ::
00471800                        * ------------------------------------------------------------------------
00471900 1769 C6CF E8           KEGRVAC2 FCB    232             (     7.5) :06CF: 'KPA   ' VAC THRESHOLD, EGR
00472000                        *-                              :                 OFF
00472100                        *-                              :          ::TBL4,0 ::
00472200                        *
00472300                        * THE ABOVE 2 PARAMETERS MUST BE KEPT TOGETHER IN THIS ORDER *****
00472400                        *
00472500                        * ------------------------------------------------------------------------
00472600 1770 C6D0 A2           KAIRFLOW FCB    162             (    5.06) :06D0: 'UNITS ' AIR FLOW MULTIPLIER
00472700                        *-                              :          ::EQU N=E+32 ::
00472900                        *;*#########################################################################
00473000                        *;*   F75 TABLE                                                          #
00473100                        *;*   EGR FLOW PRESSURE COMPENSATION VS PRESSURE                         #
00473200                        *;*   TABLE VALUE = CONST / F(KPA)                                       #
00473300                        *;*#########################################################################
00473400                        *-                              :          ::TBL2D,17,TBLX,1,'UNITS' ::
00473500                        * ------------------------------------------------------------------------
00473600 1771 C6D1 FF           F75     FCB     255             (     255) :06D1: 'UNITS ' 0   KPA
00473700                        *-                              :          ::EQU N=E ::
00473800 1772 C6D2 FF                   FCB     255             (     255) :06D2: 'UNITS ' 5.9
00473900 1773 C6D3 FF                   FCB     255             (     255) :06D3: 'UNITS ' 11.8
00474000 1774 C6D4 FF                   FCB     255             (     255) :06D4: 'UNITS ' 17.7
00474100 1775 C6D5 FF                   FCB     255             (     255) :06D5: 'UNITS ' 23.6
00474200 1776 C6D6 E6                   FCB     230             (     230) :06D6: 'UNITS ' 29.5
00474300 1777 C6D7 D2                   FCB     210             (     210) :06D7: 'UNITS ' 35.4
00474400 1778 C6D8 D3                   FCB     211             (     211) :06D8: 'UNITS ' 41.3
00474500 1779 C6D9 D2                   FCB     210             (     210) :06D9: 'UNITS ' 47.2
00474600 1780 C6DA DC                   FCB     220             (     220) :06DA: 'UNITS ' 53.1
00474700 1781 C6DB E1                   FCB     225             (     225) :06DB: 'UNITS ' 59.0
00474800 1782 C6DC E6                   FCB     230             (     230) :06DC: 'UNITS ' 64.9
00474900 1783 C6DD EB                   FCB     235             (     235) :06DD: 'UNITS ' 70.8
00475000 1784 C6DE F0                   FCB     240             (     240) :06DE: 'UNITS ' 76.7
00475100 1785 C6DF FA                   FCB     250             (     250) :06DF: 'UNITS ' 82.6
00475200 1786 C6E0 FA                   FCB     250             (     250) :06E0: 'UNITS ' 88.5
00475300 1787 C6E1 FA                   FCB     250             (     250) :06E1: 'UNITS ' 94.4
```

```
00475500                         *;*###################################################################
00475600                         *;*   F72 TABLE                                                      #
00475700                         *;*   DESIRED % EGR VS VAC AND RPM                                   #
00475800,                        *;*                                                                  #
00475900                         *;*###################################################################
00476000                         *-                                              :   ::PROTECT ::
00476100                         *-                                              :   ::TBL3D,7,12,TBL7,3,1,TBL41,1,1,'%'
00476200                         *-                                              :          ::
00476300                         * ------------------------------------------------------------------------
00476400  1788  C6E2 20          F72      FCB   '32              (        32) :06E2: '      ' R MIN 4       800 RPM
00476500                         *-                                              :   ::EQU N=E ::
00476600                         * ------------------------------------------------------------------------
00476700  1789  C6E3 00                   FCB   0                (         0)*:06E3: '      ' Q MIN KPA VAC
00476800                         * ------------------------------------------------------------------------
00476900  1790  C6E4 0C                   FCB   12               (        12) :06E4: '      '
00477000                         *-                                              :   ::NOPROTECT ::
00477100                         *;* 800 RPM
00477200                         * --------------------------------------------- SPEED      800 RPM
00477300  1791  C6E5 00                   FCB   0                (         0) :06E5: '%     '    0     KPA-VAC
00477400                         *-                                              :   ::EQU N=E+10 ::
00477500  1792  C6E6 00                   FCB   0                (         0) :06E6: '% *   '   2.5
00477600  1793  C6E7 00                   FCB   0                (         0) :06E7: '%     '   5.0
00477700  1794  C6E8 00                   FCB   0                (         0) :06E8: '%     '   7.5
00477800  1795  C6E9 00                   FCB   0                (         0) :06E9: '%     '  10.0
00477900  1796  C6EA 00                   FCB   0                (         0) :06EA: '%     '  12.5
00478000  1797  C6EB 00                   FCB   0                (         0) :06EB: '%     '  15.0
00478100  1798  C6EC 00                   FCB   0                (         0) :06EC: '%     '  17.5
00478200  1799  C6ED 00                   FCB   0                (         0) :06ED: '%     '  20.0
00478300  1800  C6EE 00                   FCB   0                (         0) :06EE: '%     '  30.0
00478400  1801  C6EF 00                   FCB   0                (         0) :06EF: '%     '  40.0
00478500  1802  C6F0 00                   FCB   0                (         0) :06F0: '%     '  50.0
                                 * --------------------------------------------- SPEED     1200 RPM
00478700                         *                                 
00478800  1803  C6F1 00                   FCB   0                (         0) :06F1: '%     '    0     KPA-VAC
00478900  1804  C6F2 00                   FCB   0                (         0) :06F2: '%     '   2.5
00479000  1805  C6F3 00                   FCB   0                (         0) :06F3: '%     '   5.0
00479100  1806  C6F4 00                   FCB   0                (         0) :06F4: '%     '   7.5
00479200  1807  C6F5 00                   FCB   0                (         0) :06F5: '%     '  10.0
00479300  1808  C6F6 00                   FCB   0                (         0) :06F6: '%     '  12.5
00479400  1809  C6F7 00                   FCB   0                (         0) :06F7: '%     '  15.0
00479500  1810  C6F8 00                   FCB   0                (         0) :06F8: '%     '  17.5
00479600  1811  C6F9 00                   FCB   0                (         0) :06F9: '%     '  20.0
00479700  1812  C6FA 00                   FCB   0                (         0) :06FA: '%     '  30.0
00479800  1813  C6FB 00                   FCB   0                (         0) :06FB: '%     '  40.0
00479900  1814  C6FC 00                   FCB   0                (         0) :06FC: '%     '  50.0
                                 * --------------------------------------------- SPEED     1600 RPM
00480100                         *
00480200  1815  C6FD 00                   FCB   0                (         0) :06FD: '%     '    0     KPA-VAC
00480300  1816  C6FE 00                   FCB   0                (         0) :06FE: '%     '   2.5
00480400  1817  C6FF 05                   FCB   5                (       0.5) :06FF: '%     '   5.0
00480500  1818  C700 0A                   FCB   10               (         1) :0700: '%     '   7.5
```

```
                                            FCB    30
00482700  1838  C714 00                     FCB    0          (     0) :0714: '%      '    50.0

00482900                       * ----------------------------------------- SPEED     2400 RPM
00483000  1839  C715 00                     FCB    0          (     0) :0715: '%      '     0     KPA-VAC
00483100  1840  C716 00                     FCB    0          (     0) :0716: '%      '    2.5
00483200  1841  C717 00                     FCB    0          (     0) :0717: '%      '    5.0
00483300  1842  C718 05                     FCB    5          (   0.5) :0718: '%      '    7.5
00483400  1843  C719 0A                     FCB    10         (     1) :0719: '%      '   10.0
00483500  1844  C71A 14                     FCB    20         (     2) :071A: '%      '   12.5
00483600  1845  C71B 1E                     FCB    30         (     3) :071B: '%      '   15.0
00483700  1846  C71C 1E                     FCB    30         (     3) :071C: '%      '   17.5
00483800  1847  C71D 1E                     FCB    30         (     3) :071D: '%      '   20.0
00483900  1848  C71E 1E                     FCB    30         (     3) :071E: '%      '   30.0
00484000  1849  C71F 1E                     FCB    30         (     3) :071F: '%      '   40.0
00484100  1850  C720 00                     FCB    0          (     0) :0720: '%      '   50.0

00484300                       * ----------------------------------------- SPEED     2800 RPM
00484400  1851  C721 00                     FCB    0          (     0) :0721: '%      '     0     KPA-VAC
00484500  1852  C722 00                     FCB    0          (     0) :0722: '%      '    2.5
00484600  1853  C723 00                     FCB    0          (     0) :0723: '%      '    5.0
00484700  1854  C724 00                     FCB    0          (     0) :0724: '%      '    7.5
00484800  1855  C725 05                     FCB    5          (   0.5) :0725: '%      '   10.0
00484900  1856  C726 0A                     FCB    10         (     1) :0726: '%      '   12.5
00485000  1857  C727 0F                     FCB    15         (   1.5) :0727: '%      '   15.0
00485100  1858  C728 14                     FCB    20         (     2) :0728: '%      '   17.5
00485200  1859  C729 05                     FCB    5          (   0.5) :0729: '%      '   20.0
00485300  1860  C72A 0A                     FCB    10         (     1) :072A: '%      '   30.0
00485400  1861  C72B 05                     FCB    5          (   0.5) :072B: '%      '   40.0
00485500  1862  C72C 00                     FCB    0          (     0) :072C: '%      '   50.0

00485700                       * ----------------------------------------- SPEED     3200 RPM
```

```
*                                                                          *
*                                                                          *
*;*                                                                        *
*;**********************************************************************

                                                      ::TBL2D,16,TBLX,1,'ADDR' ::
*-
* ------------------------------------------------------------------------
1899  C750 0000      F90MST   FDB    0            (        0) :0750: 'ADDR   ' TIME SLOT 0
                                                              ::EQU N=E ::
*-
1900  C752 0000               FDB    0            (        0) :0752: 'ADDR   ' I     1
1901  C754 0000               FDB    0            (        0) :0754: 'ADDR   ' I     2
1902  C756 0000               FDB    0            (        0) :0756: 'ADDR   ' I     3
1903  C758 C81C               FDB    $C81C        (    $C81C) :0758: 'ADDR   ' I     4
1904  C75A 0000               FDB    0            (        0) :075A: 'ADDR   ' I     5
1905  C75C 0000               FDB    0            (        0) :075C: 'ADDR   ' I     6
1906  C75E 0000               FDB    0            (        0) :075E: 'ADDR   ' I     7
1907  C760 0000               FDB    0            (        0) :0760: 'ADDR   ' I     8
1908  C762 0000               FDB    0            (        0) :0762: 'ADDR   ' I     9
1909  C764 0000               FDB    0            (        0) :0764: 'ADDR   ' I     A
1910  C766 0000               FDB    0            (        0) :0766: 'ADDR   ' I     B
1911  C768 0000               FDB    0            (        0) :0768: 'ADDR   ' I     C
1912  C76A 0000               FDB    0            (        0) :076A: 'ADDR   ' I     D
1913  C76C 0000               FDB    0            (        0) :076C: 'ADDR   ' I     E
1914  C76E 0000               FDB    0            (        0) :076E: 'ADDR   ' I     F

*;**********************************************************************
*;*  ALDL TRANSMIT TABLE FOR MODE ONE                                      *
*                                                                          *
*                                                                          *
*    THIS TABLE IS USED TO DETERMINE THE INFORMATION CONTAINED             *
*    IN THE SERIAL DATA STREAM IN THE ALDL MODE #1.  THE DATA              *
*    CAN BE SELECTED BY PUTTING THE DESIRED ADDRESSES IN THE               *

1890  C747                      1      2          (      90) :0748:                10
1891  C749 EE

* ------------------------------------------------------------------------
1892  C74A FF       KFILEGRD FCB    255           (    0.996) :074A: 'COEF   ' FILTER CONSTANT FOR
                                                                   EGRDES
*-                                                           ::EQU N=E*256 ::
*-
* ------------------------------------------------------------------------
1893  C74B FF       KEGRTIND FCB    255           (     99.6) :074B: '%      ' DELTA THROTTLE LIMIT
                                                                   FOR EGR TIP-IN
*-                                                           ::EQU N=E*2.56 ::
*-
* ------------------------------------------------------------------------
1894  C74C 00       KEGRTIMX FCB    0             (        0) :074C: 'SEC    ' TIMER FOR EGR TIP-IN
                                                             ::EQU N=E*40 ::
*-

* ------------------------------------------------------------------------
```

```
                           *     TABLE.                                                         *
                           *                   N O T E                                          *
                           *        ALL DATA SELECTED TO BE TRANSMITTED  SHOULD BE              *
                           *        REVIEWED BY SOFTWARE ENGINEERING PERSONNEL TO               *
                           *        INSURE THAT NO RESTRICTED MEMORY OR I/O IS ACCESSED.        *
                           *                                                                    *
                           *     TO MAKE SURE DOUBLE BYTE VARIABLES HAVE MATCHING UPPER         *
                           *     AND LOWER BYTES, ADD $3000 TO FIRST BYTE.                      *
                           *                                                                    *
                           *                                                                    *
                           *                                                                    *
                           *;*                                                                  *
                           *;*******************************************************************

                           *-                            :            ::TBL2D,63,TBLX,1,'ADDR' ::
                           *
1915  C770 C000            F95      FDB   $C000          (     $C000) :0770: 'ADDR    ' LOCATION 1
                                                         :            ::EQU N=E ::
                           *-
1916  C772 C001                     FDB   $C001          (     $C001) :0772: 'ADDR    ' I       2
1917  C774 0003                     FDB   $3             (     $0003) :0774: 'ADDR    ' I       3
1918  C776 0004                     FDB   $4             (     $0004) :0776: 'ADDR    ' I       4
1919  C778 0005                     FDB   $5             (     $0005) :0778: 'ADDR    ' I       5
1920  C77A 0146                     FDB   $146           (     $0146) :077A: 'ADDR    ' I       6
1921  C77C 009D                     FDB   $9D            (     $009D) :077C: 'ADDR    ' I       7
1922  C77E 0052                     FDB   $52            (     $0052) :077E: 'ADDR    ' I       8
1923  C780 0053                     FDB   $53            (     $0053) :0780: 'ADDR    ' I       9
1924  C782 0046                     FDB   $46            (     $0046) :0782: 'ADDR    ' I       10
1925  C784 315E                     FDB   $315E          (     $315E) :0784: 'ADDR    ' I       11
1926  C786 015F                     FDB   $15F           (     $015F) :0786: 'ADDR    ' I       12
1927  C788 304E                     FDB   $304E          (     $304E) :0788: 'ADDR    ' I       13
1928  C78A 004F                     FDB   $4F            (     $004F) :078A: 'ADDR    ' I       14
1929  C78C 0047                     FDB   $47            (     $0047) :078C: 'ADDR    ' I       15
1930  C78E 0144                     FDB   $144           (     $0144) :078E: 'ADDR    ' I       16
1931  C790 0078                     FDB   $78            (     $0078) :0790: 'ADDR    ' I       17
1932  C792 0070                     FDB   $70            (     $0070) :0792: 'ADDR    ' I       18
1933  C794 0459                     FDB   $459           (     $0459) :0794: 'ADDR    ' I       19
1934  C796 0071                     FDB   $71            (     $0071) :0796: 'ADDR    ' I       20
1935  C798 0015                     FDB   $15            (     $0015) :0798: 'ADDR    ' I       21
1936  C79A 0081                     FDB   $81            (     $0081) :079A: 'ADDR    ' I       22
1937  C79C 0036                     FDB   $36            (     $0036) :079C: 'ADDR    ' I       23
1938  C79E 0051                     FDB   $51            (     $0051) :079E: 'ADDR    ' I       24
1939  C7A0 3180                     FDB   $3180          (     $3180) :07A0: 'ADDR    ' I       25
1940  C7A2 0181                     FDB   $181           (     $0181) :07A2: 'ADDR    ' I       26
1941  C7A4 00C0                     FDB   $C0            (     $00C0) :07A4: 'ADDR    ' I       27
1942  C7A6 0016                     FDB   $16            (     $0016) :07A6: 'ADDR    ' I       28
1943  C7A8 0018                     FDB   $18            (     $0018) :07A8: 'ADDR    ' I       29
1944  C7AA 0039                     FDB   $39            (     $0039) :07AA: 'ADDR    ' I       30
1945  C7AC 004C                     FDB   $4C            (     $004C) :07AC: 'ADDR    ' I       31
1946  C7AE 3074                     FDB   $3074          (     $3074) :07AE: 'ADDR    ' I       32
1947  C7B0 0075                     FDB   $75            (     $0075) :07B0: 'ADDR    ' I       33
1948  C7B2 007F                     FDB   $7F            (     $007F) :07B2: 'ADDR    ' I       34
```

```
00502000  1949  C7B4 0080          FDB    $80          (   $0080) :07B4: 'ADDR   ' !     35
00502100  1950  C7B6 30A9          FDB    $30A9        (   $30A9) :07B6: 'ADDR   ' !     36
00502200  1951  C7B8 00AA          FDB    $AA          (   $00AA) :07B8: 'ADDR   ' !     37
00502300  1952  C7BA 00A8          FDB    $A8          (   $00A8) :07BA: 'ADDR   ' !     38
00502400  1953  C7BC 3011          FDB    $3011        (   $3011) :07BC: 'ADDR   ' !     39
00502500  1954  C7BE 0012          FDB    $12          (   $0012) :07BE: 'ADDR   ' !     40
00502600  1955  C7C0 0173          FDB    $173         (   $0173) :07C0: 'ADDR   ' !     41
00502700  1956  C7C2 00A3          FDB    $A3          (   $00A3) :07C2: 'ADDR   ' !     42
00502800  1957  C7C4 00A5          FDB    $A5          (   $00A5) :07C4: 'ADDR   ' !     43
00502900  1958  C7C6 00A7          FDB    $A7          (   $00A7) :07C6: 'ADDR   ' !     44
00503000  1959  C7C8 00BC          FDB    $BC          (   $00BC) :07C8: 'ADDR   ' !     45
00503100  1960  C7CA 00BD          FDB    $BD          (   $00BD) :07CA: 'ADDR   ' !     46
00503200  1961  C7CC 0056          FDB    $56          (   $0056) :07CC: 'ADDR   ' !     47
00503300  1962  C7CE 306C          FDB    $306C        (   $306C) :07CE: 'ADDR   ' !     48
00503400  1963  C7D0 006D          FDB    $6D          (   $006D) :07D0: 'ADDR   ' !     49
00503500  1964  C7D2 00A4          FDB    $A4          (   $00A4) :07D2: 'ADDR   ' !     50
00503600  1965  C7D4 00B0          FDB    $B0          (   $00B0) :07D4: 'ADDR   ' !     51
00503700  1966  C7D6 017E          FDB    $17E         (   $017E) :07D6: 'ADDR   ' !     52
00503800  1967  C7D8 00A6          FDB    $A6          (   $00A6) :07D8: 'ADDR   ' !     53
00503900  1968  C7DA 0073          FDB    $73          (   $0073) :07DA: 'ADDR   ' !     54
00504000  1969  C7DC 0072          FDB    $72          (   $0072) :07DC: 'ADDR   ' !     55
00504100  1970  C7DE 00AF          FDB    $AF          (   $00AF) :07DE: 'ADDR   ' !     56
00504200  1971  C7E0 0023          FDB    $23          (   $0023) :07E0: 'ADDR   ' !     57
00504300  1972  C7E2 0024          FDB    $24          (   $0024) :07E2: 'ADDR   ' !     58
00504400  1973  C7E4 0025          FDB    $25          (   $0025) :07E4: 'ADDR   ' !     59
00504500  1974  C7E6 0001          FDB    $1           (   $0001) :07E6: 'ADDR   ' !     60
00504600  1975  C7E8 001F          FDB    $1F          (   $001F) :07E8: 'ADDR   ' !     61
00504700  1976  C7EA 0027          FDB    $27          (   $0027) :07EA: 'ADDR   ' !     62
00504800  1977  C7EC 0030          FDB    $30          (   $0030) :07EC: 'ADDR   ' !     63
```

```
00505000     *;*************************************************************
00505100     *;*  ALDL TRANSMIT TABLE FOR MODES ZERO (NORMAL MODE) AND SEVEN *
00505200     *                                                              *
00505300     *    THIS TABLE IS USED TO DETERMINE THE INFORMATION CONTAINED  *
00505400     *    IN THE SERIAL DATA STREAM IN THE ALDL MODE.  THE DATA      *
00505500     *    CAN BE SELECTED BY PUTTING THE DESIRED ADDRESSES IN THE    *
00505600     *    TABLE.                                                     *
00505700     *                   N O T E                                    *
00505800     *       ALL DATA SELECTED TO BE TRANSMITTED  SHOULD BE          *
00505900     *       REVIEWED BY SOFTWARE ENGINEERING PERSONNEL TO           *
00506000     *       INSURE THAT NO RESTRICTED MEMORY OR I/O IS ACCESSED.    *
00506100     *                                                              *
00506200     *                                                              *
00506300     *    TO MAKE SURE DOUBLE BYTE VARIABLES HAVE MATCHING UPPER     *
00506400     *    AND LOWER BYTES, ADD $3000 TO FIRST BYTE.                  *
00506500     *                                                              *
00506600     *                 W A R N I N G                                *
00506700     *       MAXIMUM MESSAGE LENGTH IS 12 ($0C).  EXCEEDING THIS     *
```

```
[illegible]
1985  C7FC 0000      FDB   0        (       0) :07FC: 'ADDR   '
1986  C7FE 0000      FDB   0        (       0) :07FE: 'ADDR   '
1987  C800 0000      FDB   0        (       0) :0800: 'ADDR   '
1988  C802 0000      FDB   0        (       0) :0802: 'ADDR   '
1989  C804 0000      FDB   0        (       0) :0804: 'ADDR   '
1990  C806 0000      FDB   0        (       0) :0806: 'ADDR   '
1991  C808 0000      FDB   0        (       0) :0808: 'ADDR   '
1992  C80A 0000      FDB   0        (       0) :080A: 'ADDR   '
1993  C80C 0000      FDB   0        (       0) :080C: 'ADDR   '
1994  C80E 0000      FDB   0        (       0) :080E: 'ADDR   '
1995  C810 0000      FDB   0        (       0) :0810: 'ADDR   '
1996  C812 0000      FDB   0        (       0) :0812: 'ADDR   '
1997  C814 0000      FDB   0        (       0) :0814: 'ADDR   '
1998  C816 0000      FDB   0        (       0) :0816: 'ADDR   '
1999  C818 0000      FDB   0        (       0) :0818: 'ADDR   '
2000  C81A 0000      FDB   0        (       0) :081A: 'ADDR   '


                     *;*****************************************************
                     *;*    ALDL POLLING DATA                              *
                     *     THIS MESSAGE IS SENT TO THE VEHICLE LINK TESTER *
                     *     EVERY 200 MSEC UNTIL A RESPONSE IS HEARD.       *
                     *;*                                                   *
                     *;*****************************************************

                     *-                              :       ::TBL2D,1,TBLX,1,'ADDR' ::
                     *  ---------------------------------------------------------
2001  C81C F000      F97     FDB     $F000          (   $F000) :081C: 'ADDR   '
                     *-                              :       ::EQU N=E ::
                     *   THE MOST SIGNIFICANT BYTE IS THE MESSAGE ID . . . (F0)
                     *   THE LSB IS THE NUMBER OF DATA BYTES TRANSMITTED IN THIS MESSAGE(0)
```

```
*                    8          KPA                                  *
*                    9          KPA                                  *
*                   10          KPA                                  *
*                   11          VOLTS                                *
*                   12          BLOCK LEARN CELL NUMBER              *
*                   13          DEG C                                *
*                   14          DEG C                                *
*                   15          % TPS                                *
*                   16          % TPS                                *
*                   17          SEC                                  *
*                   18          KPA                                  *
*                   19          VACUUM                               *
*                   20          % TPS                                *
*                                                                    *
**********************************************************************
*::TABLES::
*  ******************************************************************
*                              TABLE 1
*                              N VS RPM
*                              (NTRPM)
*  ******************************************************************
*
*::TBL1 (NTRPM)
*                           SPEED       NTRPM
*                            RPM          N
*                            400          0
*                            600         16
*                            800         32
*                           1000         48
*                           1200         64
*                           1400         80
*                           1600         96
*                           1800        112
*                           2000        128
*                           2200        144
*                           2400        160
*                           2800        176
*                           3200        192
*                           3600        208
```

```
00519500 *                    4000      224
00519600 *                    4400      240
00519700 *                    4800      256
00519800 *
00519900 *        FOR HYSTERESIS CALCULATIONS:
00520000 *
00520100 *        N = RPM*16/200 FOR RPM'S BETWEEN 400 - 2400
00520200 *            THIS SAME N WILL EQUAL TWICE THE RPM HYSTERESIS
00520300 *            FOR RPM'S BETWEEN 2400 - 4800
```

```
*    ******************************************************************
*                           TABLE 2
*                 COOLANT TEMPERATURE VS N
*                          (COOLDEG)
*    ******************************************************************
*
*::TBL2 (COOLDEG)
*                             TEMP        COOLDEG
*                            'DEG C'         N
*                              -40           0
*                              -28          16
*                              -16          32
*                               -4          48
*                                8          64
*                               20          80
*                               32          96
*                               44         112
*                               56         128
*                               68         144
*                               80         160
*                               92         176
*                              104         192
*                              116         208
*                              128         224
*                              140         240
*                              152         256 ::
*
*
*
*
```

```
* ****************************************************************
*                         TABLE 3
*           MANIFOLD AIR TEMPERATURE VS N
*                       (ADMAT1K)
* ****************************************************************
*
*::TBL3 (ADMAT1K)
```

TEMP 'DEG C'	ADMAT1K N
-40	255
-30	251
-25	250
-20	247
-15	245
-10	241
-5	237
0	231
5	225
10	218
15	209
20	199
25	189
30	177
35	165
40	152
45	139
50	126
55	114
60	102
65	92
70	81
75	72
80	64
85	56
90	50
95	44
100	39
105	34
110	30
115	26
120	23
125	21
130	18
135	16
140	14
145	13
150	12
200	0

```
*  ******************************************************************
*                           TABLE 4
*                VACUUM, MAP,  AND THROTTLE POSITION VS N
*  ******************************************************************
*
*
*
*
*
*::TBL4 (0,1,2,3)
*  LOAD      VAC         MAP         MAP                THROTPOS
*     N      KPA         KPA         KPA                   %
*     0       80          20          30                 0.00
*    16       75          25          40                 6.25
*    32       70          30          50                12.50
*    48       65          35          60                18.75
*    64       60          40          70                25.00
*    80       55          45          80                31.25
*    96       50          50          90                37.50
*   112       45          55         100                43.75
*   128       40          60         110                50.00
*   144       35          65         120                56.25
*   160       30          70         130                62.50
*   176       25          75         140                68.75
*   192       20          80         150                75.00
*   208       15          85         160                81.25
*   224       10          90         170                87.50
*   240        5          95         180                93.75
*   255        0         100         190               100.00 ::
*         (NVACLD)    (NMAPLD)    (N2MPLD)            (NTPSLD)
*      FOR HYSTERESIS CALCULATIONS;
*
*      N = KPA*16/5             FOR VACUUM, MAP LOAD AXIS
*      N = PERCENT*16/6.25      FOR THROTTLE POSITION LOAD AXIS
```

```
00531900 ********************************************************************
00532000 *                    ANNOTATION TABLES                             *
00532100 ********************************************************************

00532300 *  ****************************************************************
00532400 *                          TABLE 5
00532500 *                     ROAD SPEED VS N
00532600 *                         (NMPH)
00532700 *  ****************************************************************
00532800 *
00532900 *::TBL5 (NMPH)
00533000 *                          SPEED      NMPH
00533100 *                          MPH          N
00533200 *                           0           0
00533300 *                           5          16
00533400 *                          10          32
00533500 *                          15          48
00533600 *                          20          64
00533700 *                          25          80
00533800 *                          30          96
00533900 *                          35         112
00534000 *                          40         128
00534100 *                          45         144
00534200 *                          50         160
00534300 *                          55         176
00534400 *                          60         192
00534500 *                          65         208
00534600 *                          70         224
00534700 *                          102        240
00534800 *                          103        256 ::
00534900 *
00535000 *    LAST FOUR VALUES IN THE TABLE ABOVE ARE ARTIFICIAL TO
00535100 *    ACCOMMODATE COMPUTER UNITS TO ENGINEERING UNITS CONVERSION
00535200 *
00535300 *       FOR HYSTERESIS CALCULATIONS:
00535400 *
00535500 *            N=MPH*16/5

00535700 ***************************
00535800 *    TABLE 7              *
00535900 ***************************
00536000 *::TBL7
00536100 *       SPEED
00536200 *       RPM
00536300 *       0
00536400 *       400
```

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DATATBLS

```
00536500 *       800
00536600 *      1200
00536700 *      1600
00536800 *      2000
00536900 *      2400
00537000 *      2800
00537100 *      3200
00537200 *      3600
00537300 *      4000
00537400 *      4400
00537500 *      4800
00537600 *      5200
00537700 *      5600
00537800 *      6000
00537900 *      6400 ::
```

```
00538100 ************************
00538200 *      TABLE 8         *
00538300 ************************
00538400 *::TBL8
00538500 *       BARO
00538600 *       KPA
00538700 *        75
00538800 *        85
00538900 *        95
00539000 *       105  ::
```

```
00539200 ************************
00539300 *      TABLE 9         *
00539400 ************************
00539500 *::TBL9
00539600 *       MAP
00539700 *       KPA
00539800 *         0
00539900 *         5
00540000 *        10
00540100 *        15
00540200 *        20
00540300 *        25
00540400 *        30
00540500 *        35
00540600 *        40
00540700 *        45
00540800 *        50
```

```
*          55
*          60
*          65
*          70
*          75
*          80
*          85
*          90
*          95
*         100   ::

*************************
*       TABLE  10       *
*************************
*::TBL10
*          VAC
*          KPA
*            0
*          2.5
*          5.0
*          7.5
*         10.0
*         12.5
*         15.0
*         17.5
*         20.0
*         22.5
*         25.0
*         27.5
*         30.0
*         32.5
*         35.0
*         37.5
*         40.0   ::

*************************
*       TABLE  11       *
*************************
*::TBL11
*        BATTERY
*         VOLTS
*          0.0
*          1.6
*          3.2
```

DATATBLS

```
00545300                        *       4.8
00545400                        *       6.4
00545500                        *       8.0
00545600                        *       9.6
00545700                        *      11.2
00545800                        *      12.8
00545900                        *      14.4
00546000                        *      16.0
00546100                        *      17.6
00546200                        *      19.2
00546300                        *      20.8
00546400                        *      22.4
00546500                        *      24.0
00546600                        *      25.5  ::
```

```
00546800                        ************************
00546900                        *     TABLE 12         *
00547000                        ************************
00547100                        *::TBL12
00547200                        *      'BLM CELL'
00547300                        *          #
00547400                        *          0
00547500                        *          1
00547600                        *          2
00547700                        *          3
00547800                        *          4
00547900                        *          5
00548000                        *          6
00548100                        *          7
00548200                        *          8
00548300                        *          9
00548400                        *         10
00548500                        *         11
00548600                        *         12
00548700                        *         13
00548800                        *         14
00548900                        *         15  ::
```

```
00549100                        ************************
00549200                        *     TABLE 13         *
00549300                        ************************
00549400                        *::TBL13
00549500                        *    COOLTEMP
00549600                        *     'DEG C'
```

```
DATATBL.

00549700                *      -40
00549800                *      -28
00549900                *      -16
00550000                *       -4
00550100                *        8
00550200                *       20
00550300                *       32
00550400                *       44
00550500                *       56
00550600                *       68
00550700                *       80
00550800                *       92
00550900                *      104
00551000                *      116
00551100                *      128
00551200                *      140
00551300                *      152   ::


00551500                ************************
00551600                *     TABLE 14         *
00551700                ************************
00551800                *::TBL14
00551900                *     MATTEMP
00552000                *     'DEG C'
00552100                *     HOT
00552200                *      136
00552300                *      107
00552400                *       91
00552500                *       80
00552600                *       71
00552700                *       63
00552800                *       56
00552900                *     49.3
00553000                *     43.3
00553100                *       37
00553200                *     30.5
00553300                *     23.5
00553400                *     15.5
00553500                *        6
00553600                *     -8.5
00553700                *     COLD   ::


00553900                ************************
00554000                *     TABLE 15         *
```

DATATBLS

```
00554100 ****************************
00554200 *::TBL15
00554300 *     CHANGE
00554400 *       %
00554500 *       0
00554600 *    12.5
00554700 *    25.0
00554800 *    37.5
00554900 *    50.0  ::

00555100 ****************************
00555200 *     TABLE 16            *
00555300 ****************************
00555400 *::TBL16
00555500 *      4*DT
00555600 *       %
00555700 *     00.00
00555800 *     06.25
00555900 *     12.50
00556000 *     18.75
00556100 *     25.00  ::

00556300 ****************************
00556400 *     TABLE 17            *
00556500 ****************************
00556600 *::TBL17
00556700 *      LAG
00556800 *      SEC
00556900 *        0
00557000 *      0.8
00557100 *      1.6
00557200 *      2.4
00557300 *      3.2  ::
00557400 ****************************
00557500 *     TABLE 18            *
00557600 ****************************
00557700 *::TBL18 (0,1)
00557800 *     LOAD          VAC          MAP
00557900 *        N          KPA          KPA
00558000 *      200         17.5         82.5
00558100 *      208           15           85
00558200 *      216         12.5         87.5
         *      224           10           90
```

```
*          240          5          95
*          248          2.5        97.5
*          256          0          100   ::


****************************
*        TABLE 20          *
****************************
*::TBL20
*          THROTPOS
*          %
*          00.0
*          12.5
*          25.0
*          37.5
*          50.0
*          62.5
*          75.0
*          87.5
*         100.0 ::


****************************
*        TABLE 21          *
****************************
*::TBL21
*          VAC
*          KPA
*          25.0
*          22.5
*          20.0
*          17.5
*          15.0
*          12.5
*          10.0
*           7.5
*           5.0
*           2.5
*           0.0 ::


****************************
*        TABLE 22          *
****************************
*::TBL22
*          SPEED
*          RPM
*            0
*          200
*          400
```

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DATATBLS

```
00563200 *      600
00563300 *      800
00563400 *     1000
00563500 *     1200
00563600 *     1400
00563700 *     1600
00563800 *     1800
00563900 *     2000
00564000 *     2200
00564100 *     2400
00564200 *     2600
00564300 *     2800
00564400 *     3000
00564500 *     3200
00564600 *     3400
00564700 *     3600
00564800 *     3800
00564900 *     4000
00565000 *     4200
00565100 *     4400
00565200 *     4600
00565300 *     4800
00565400 *     5000 ::
```

```
00565600 ****************************
00565700 *      TABLE 23            *
00565800 ****************************
00565900 *::TBL23 (0,1)
00566000 *  LOAD        VAC         MAP
00566100 *    N         KPA         KPA
00566200 *    0          80          20
00566300 *   32          70          30
00566400 *   64          60          40
00566500 *   96          50          50
00566600 *  128          40          60
00566700 *  160          30          70
00566800 *  192          20          80
00566900 *  208          15          85
00567000 *  224          10          90
00567100 *  240           5          95
00567200 *  256           0         100 ::
```

```
00567400 * ************************************************************
00567500 *                          TABLE 24
00567600 *                          N VS RPM
00567700 *                          (NTRPMP, MODIFIED)
00567800 * ************************************************************
```

```
00567900 *
00568000 *::TBL24 (NTRPMP)
00568100 *          SPEED     NTRPM
00568200 *          RPM       N
00568300 *          400       0
00568400 *          600       16
00568500 *          800       32
00568600 *          1000      48
00568700 *          1200      64
00568800 *          1400      80
00568900 *          1600      96
00569000 *          2000      128
00569100 *          2400      160
00569200 *          2800      176
00569300 *          3200      192
00569400 *          3600      208  ::
```

```
00569600 ****************************
00569700 *      TABLE 27            *
00569800 ****************************
00569900 *::TBL27
00570000 *      SPEED
00570100 *      RPM
00570200 *      1000
00570300 *      1800
00570400 *      2600
00570500 *      3400
00570600 *      4200
00570700 *      5000  ::
```

```
00570900 ****************************
00571000 *      TABLE 28            *
00571100 ****************************
00571200 *::TBL28
00571300 *      BARO
00571400 *      KPA
00571500 *       58
00571600 *       63
00571700 *       69
00571800 *       75
00571900 *       81
00572000 *       87
00572100 *       93
00572200 *       99
00572300 *       105  ::
```

DATATBLS

```
*************************
*       TABLE 29        *
*************************
*::TBL29
*       DC
*       %
*       0
*        6.25
*       12.50
*       18.75
*       25.00
*       31.25
*       37.50
*       43.75
*       50.00
*       56.25
*       62.50
*       68.75
*       75.00
*       81.25
*       87.50
*       93.75
*      100.0 ::

**************************
*      TABLE 30          *
**************************
*::TBL30
*         SPEED
*         RPM
*         0
*         50
*          100
*          150
*          200
*          250
*          300
*          350
*          400
*          450
*          500 ::

***************************
*       TABLE 31          *
***************************
*::TBL31
*       'FUELPRES'
*       COUNTS
```

```
00577300 *       0
00577400 *       16
00577500 *       32
00577600 *       48
00577700 *       64
00577800 *       80
00577900 *       96
00578000 *       112
00578100 *       128
00578200 *       144
00578300 *       160
00578400 *       176
00578500 *       192
00578600 *       208
00578700 *       224
00578800 *       240
00578900 *       256 ::

00579100 ****************************
00579200 *       TABLE 32           *
00579300 ****************************
00579400 *::TBL32
00579500 *       'FUELPRES'
00579600 *       KPA
00579700 *       0
00579800 *       4
00579900 *       8
00580000 *       12
00580100 *       16
00580200 *       20
00580300 *       24
00580400 *       28
00580500 *       32
00580600 *       36
00580700 *       40
00580800 *       44
00580900 *       48
00581000 *       52
00581100 *       56
00581200 *       60
00581300 *       64
00581400 *       68
00581500 *       72
00581600 *       76
00581700 *       80 ::

00581900 ****************************
00582000 *       TABLE 33           *
```

DATATBLS

```
00582100                    ****************************
00582200                    *::TBL33
00582300                    *       MAP
00582400                    *       KPA
00582500                    *       20
00582600                    *       30
00582700                    *       40
00582800                    *       50
00582900                    *       60
00583000                    *       70
00583100                    *       80
00583200                    *       90
00583300                    *       100 ::

00583500                    ****************************
00583600                    *       TABLE 34          *
00583700                    ****************************
00583800                    *::TBL34 (NMPH)
00583900                    *                    SPEED       NMPH
00584000                    *                     KPH          N
00584100                    *                       0          0
00584200                    *                       8         16
00584300                    *                      16         32
00584400                    *                      24         48
00584500                    *                      32         64
00584600                    *                      40         80
00584700                    *                      48         96
00584800                    *                      56        112
00584900                    *                      64        128
00585000                    *                      72        144
00585100                    *                      80        160
00585200                    *                      88        176
00585300                    *                      96        192
00585400                    *                     104        208
00585500                    *                     112        224
00585600                    *                     165        240
00585700                    *                     166        256 ::
00585800                    *    LAST FOUR VALUES IN THE TABLE ABOVE ARE ARTIFICIAL TO
00585900                    *    ACCOMMODATE COMPUTER UNITS TO ENGINEERING UNITS CONVERSION
00586000                    *
00586100                    *      FOR HYSTERESIS CALCULATIONS:
00586200                    *
00586300                    *          N=KPH*8/5

00586500                    ****************************
00586600                    *       TABLE 35          *
00586700                    ****************************
                            *::TBL35
```

```
*          60
*          65
*          70
*          75
*          80 ::

****************************
*          TABLE 36        *
****************************
*::TBL36
*        TPS
*         %
*        00
*        06.25
*        12.5
*        18.75
*        25
*        31.25
*        37.5
*        43.75
*        50
*        56.25
*        62.5
*        68.75
*        75
*        81.25
*        87.5
*        93.75
*        100  ::
******************************************
*              TABLE 37                  *
******************************************
*::TBL37
*        SPEED
*         RPM

*        60.0
*        70.0
*        80.0
*        90.0
*        100.0  ::
******************************************
*              TABLE 42                  *
```

```
*        1000
*        1200
*        1600
*        2000
*        2400  ::
```

```
****************************
*     TABLE 43             *
****************************
*::TBL43
*        TEMP
*      'DEG C'
*       COLD
*       -8.5
*        6.0
*       15.5
*       23.5
*       30.5
*       37.0
*       43.3
*       49.3
*       56.0
*       63.0
*       71.0
*       80.0
*       91.0
*      107.0
*      136.0
*        HOT   ::
```

```
****************************
*     TABLE 44             *
****************************
*::TBL44
*        BOOST
*         KPA
*         0.0
*        12.5
```

```
          160
```

```
00605900 *       25.0
00606000 *       37.5
00606100 *       50.0
00606200 *       62.5
00606300 *       75.0
00606400 *       87.5
00606500 *      100.0  ::
```

```
00606700 ************************
00606800 *     TABLE 45         *
00606900 ************************
00607000 *::TBL45 (NTRPMP)
00607100 *
00607200 *                  SPEED      NTRPMP
00607300 *                   RPM         N
00607400 *                   600         0
00607500 *                   800        16
00607600 *                  1000        32
00607700 *                  1200        48
00607800 *                  1400        64
00607900 *                  1600        80
00608000 *                  2000        96
00608100 *                  2400       112
00608200 *                  2800       128
00608300 *                  3200       144
00608400 *                  3600       160
00608500 *                  4000       176
00608600 *                  4400       192
                            4800       208  ::
```

```
00608800 ************************
00608900 *     TABLE 46         *
00609000 ************************
00609100 *::TBL46
00609200 *       'MAP 2ATM'
00609300 *          KPA
00609400 *       '  0  0  '
00609500 *       '  5  0  '
00609600 *       ' 10  0  '
00609700 *       ' 15  0  '
00609800 *       ' 20 30  '
00609900 *       ' 25 40  '
00610000 *       ' 30 50  '
00610100 *       ' 35 60  '
00610200 *       ' 40 70  '
```

```
::P0188B GMCM MACRO CROSS-ASSEMBLER RELEASE 3.04  DATASET: E:SOURCE
         SECURE LIBRARY PROGRAM AND LEVEL: P0188BAB01
DATATBLS
00610300                *       ' 45  80 '
00610400                *       ' 50  90 '
00610500                *       ' 55 100'
00610600                *       ' 60 110'
00610700                *       ' 65 120'
00610800                *       ' 70 130'
00610900                *       ' 75 140'
00611000                *       ' 80 150'
00611100                *       ' 85 160'
00611200                *       ' 90 170'
00611300                *       ' 95 180'
00611400                *       '100 190' ::


00611600                ****************************
00611700                *     TABLE 47             *
00611800                ****************************
00611900                *::TBL47
00612000                *       BPW
00612100                *       MSEC
00612200                *       0.000
00612300                *       0.244
00612400                *       0.488
00612500                *       0.732
00612600                *       0.977
00612700                *       1.221
00612800                *       1.465
00612900                *       1.709
00613000                *       1.953
00613100                *       2.197
00613200                *       2.441
00613300                *       2.686
00613400                *       2.930
00613500                *       3.174
00613600                *       3.418
00613700                *       3.662
00613800                *       3.906 ::


00614000                ****************************
00614100                *     TABLE 48             *
00614200                ****************************
00614300                *::TBL48
00614400                *       SPEED
00614500                *       RPM
00614600                *       0
00614700                *       25
00614800                *       50
00614900                *       75
                        *       100 ::
```

```
...URE LIBRARY PROGRAM AND LEVEL: PO188BAB01
DATATB.
00615100                        *::COMMENTS
00615200                        *MODIFIED BY C2ZWJP -13:59:34 - 05/15/87- USING ESCALPRM PTPCAL FUNCTION
          C820                          TITL  SECURE LIBRARY PROGRAM AND LEVEL: PO188BAB01
                                        END
```

SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
ADBARO	$0016	1	NONE
ADBAT	$0051	2	NONE
ADESCMON	$017E	3	NONE
ADMAP	$0039	4	NONE
AD02A	$0047	5	NONE
ADTHROT	$0052	6	NONE
ADVAC	$0018	7	NONE
AFCR	$0173	8	NONE
AIRFLOW	$00A7	9	NONE
AIRFUEL	$0072	10	NONE
ALDLCNTR	$0144	11	NONE
APPW	$006C	12	NONE
AVAILCAL	$FFDE	2006	NONE
BLM	$0070	13	NONE
BLMCELL	$0459	14	NONE
BPW	$0074	15	NONE
BSTPRESS	$008C	16	NONE
CALDATA	$C000	17	56
CALEND	$C81F	2007	NONE
COOLDEGA	$0146	18	NONE
COOLTSU	$009D	19	NONE
CORRCL	$0078	20	NONE
DATECODE	$C002	58	NONE
DBSTBASE	$00B0	21	NONE
DESBOOST	$00BD	22	NONE
DESSPD	$007F	23	NONE
DIATRANF	$C750	1898	NONE
DIATRANL	$C81E	2002	NONE
EGRDC	$00A5	24	NONE
EGRDES	$00A3	25	NONE
EGRDESA	$00A4	26	NONE
EGRTITMR	$00A6	27	NONE
ESTPARB	$C13B	350	NONE
FILTMPH	$004E	28	NONE
FMDBYTE1	$001F	29	NONE
F1C	$C18F	433	NONE
F1OA	$C66A	1669	NONE
F11P	$C134	343	NONE
F12	$C67B	1686	NONE
F13D	$C67F	1690	NONE
F14	$C684	1695	NONE
F15	$C698	1715	NONE
F16	$C69F	1722	NONE
F17	$C6A5	1728	NONE
F18	$C6AB	1734	NONE
F19	$C6B1	1740	NONE
F2E	$C280	674	NONE

SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
F20	$C6BC	1750	NONE
F21A	$C508	1317	NONE
F22A	$C511	1323	NONE
F23	$C3FO	1034	NONE
F24	$C3FA	1044	NONE
F25C	$C404	1054	NONE
F28A	$C40E	1064	NONE
F29C	$C41F	1081	NONE
F29S	$C473	1165	NONE
F3	$C2CF	763	NONE
F30	$C4AC	1222	NONE
F31C	$C4BE	1240	NONE
F31M	$C4DO	1258	NONE
F33C	$C4E2	1276	NONE
F34B	$C4E7	1281	NONE
F35B	$C4F4	1294	NONE
F36A	$C4FA	1300	NONE
F37B	$C517	1329	NONE
F38	$C524	1342	NONE
F39	$C500	1306	NONE
F4D	$C2FF	801	NONE
F42C2	$CODC	256	NONE
F43C2	$COE7	267	NONE
F46	$C316	824	NONE
F47G1ST	$C141	355	NONE
F47G2ND	$C153	373	NONE
F47G3RD	$C165	391	NONE
F47G4TH	$C177	409	NONE
F48	$C18B	429	NONE
F5	$C105	296	NONE
F50	$C52C	1350	NONE
F51C	$C537	1361	NONE
F52C	$C544	1374	NONE
F54A	$C551	1387	NONE
F56A	$C55E	1400	NONE
F57	$C5BB	1493	NONE
F59A	$C11B	315	NONE
F6B	$C31B	829	NONE
F6O	$C5C5	1503	NONE
F61	$C5EC	1542	NONE
F63	$C5F6	1552	NONE
F64	$C5FA	1556	NONE
F67	$C6O1	1563	NONE
F68	$C6O7	1569	NONE
F69	$CO7F	165	NONE
F7B	$C321	835	NONE
F7OB	$C3BF	985	NONE

SECURE LIBRARY PROGRAM AND LEVEL: P0188BAB01

SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
F71	$C3E6	1024	NONE
F72	$C6E2	1788	NONE
F73	$C739	1875	NONE
F75	$C6D1	1771	NONE
F77A	$C60D	1575	NONE
F78A	$C085	171	NONE
F80	$C310	818	NONE
F83	$C0BC	226	NONE
F84	$C0C2	232	NONE
F88	$C6C3	1757	NONE
F89	$C6C8	1762	NONE
F90MST	$C750	1899	NONE
F92	$C618	1586	NONE
F94	$C62A	1604	NONE
F95	$C770	1915	NONE
F96	$C7EE	1978	NONE
F97	$C81C	2001	NONE
IACPAR	$C639	1619	NONE
INT	$0071	30	NONE
ISOSMP	$0080	31	NONE
ISOWNA	$0081	32	NONE
ISSPMP	$0015	33	NONE
KACDISTH	$C0A1	199	NONE
KACDISTL	$C0A2	200	NONE
KACDLD	$C644	1631	NONE
KACLMPHH	$C0A6	204	NONE
KACLMPHL	$C0A5	203	NONE
KACLIPSH	$C0A8	206	NONE
KACLIPSL	$C0A7	205	NONE
KACRPMH	$C0AC	210	NONE
KACRPML	$C0AB	209	NONE
KACSUDLY	$C0A9	207	NONE
KACTEMH	$C0A4	202	NONE
KACTEML	$C0A3	201	NONE
KACTIMER	$C0AA	208	NONE
KACTIM1	$C09E	196	NONE
KACTIM2	$C09F	197	NONE
KACTRANS	$C662	1661	NONE
KADBARO	$C032	92	NONE
KADD2AF	$C09A	192	NONE
KADSUCT	$C347	873	NONE
KADVSLHI	$C010	67	NONE
KAD2BARO	$C034	94	NONE
KAEISCN	$C33C	862	NONE
KAEPMDTA	$C337	857	NONE
KAEPMTH	$C338	858	NONE
KAEPMIPS	$C339	859	NONE

KGRDLY3	$C174	406	NONE
KGRDLY4	$C186	424	NONE
KINUDLEDS	$C81E	2003	NONE
KINUDRAM	$C81F	2004	NONE
KIACACDL	$C645	1632	NONE
KIACDM	$C695	1712	NONE
KIACMPH	$C654	1647	NONE
KIACTEMC	$C6C2	1756	NONE
KIACTINH	$C666	1665	NONE
KIACWARM	$C6B7	1746	NONE
KICKDTA	$C65D	1656	NONE
KICKTM	$C65C	1655	NONE
KICKTPS	$C65B	1654	NONE
KINTDLTA	$C39F	954	NONE
KINTDLTC	$C39E	953	NONE
KINITCTH	$C354	886	NONE
KISALPC	$C643	1630	NONE
KISDWADM	$C655	1648	NONE
KISERDB1	$C64B	1638	NONE
KISERDB2	$C64C	1639	NONE
KISERROR	$C64A	1637	NONE
KISMLTE1	$C63B	1622	NONE
KISMLTE2	$C63C	1623	NONE
KISMLTR1	$C639	1620	NONE
KISMLTR2	$C63A	1621	NONE
KISMPNE1	$C63F	1626	NONE
KISMPNE2	$C640	1627	NONE
KISMPNR1	$C63D	1624	NONE
KISMPNR2	$C63E	1625	NONE
KISPKDL	$C646	1633	NONE
KISPSSA1	$C647	1634	NONE
KISPSSB1	$C648	1635	NONE
KISPSTMR	$C668	1667	NONE
KISPTMP	$C669	1668	NONE
KISSPKF	$C667	1666	NONE
KISSPVT2	$C64E	1641	NONE
KISSWNA	$C64D	1640	NONE
KISTAIPA	$C650	1643	NONE
KISTAIPB	$C651	1644	NONE

KE	UL	[illegible]	[illegible]
UF	[illegible]	[illegible]	57

IONE

KFANCLC1	$C0B9	223	NONE
KFANCLC2	$C0BA	224	NONE
KFANCLTH	$C0AE	212	NONE
KFANCLTL	$C0B0	214	NONE
KFANCTCH	$C0B4	218	NONE
KFANCTCL	$C0B3	217	NONE
KFANCTHH	$C0B2	216	NONE
KFANCTHL	$C0B1	215	NONE

KAPLL	$C36A	907	NONE
KAPMAX	$C36C	908	NONE
KAPMIN	$C36E	909	NONE
KBARSPDA	$C033	93	NONE
KBKRTD1	$C100	291	NONE
KBKRTIM	$C101	292	NONE
KBKRTPS	$C0FF	290	NONE
KBLMCNT	$C34E	880	NONE
KBLMMAX	$C355	887	NONE
KBLMMAXS	$C350	882	NONE
KBLMMIN	$C356	888	NONE
KBLMMINS	$C34F	881	NONE
KBP0	$C74F	1897	NONE
KBP1	$C74E	1896	NONE
KBP2	$C74D	1895	NONE
KBSTBIAS	$C0F8	283	NONE
KBSTDLT1	$C3AC	967	NONE
KBSTDLT2	$C3AD	968	NONE
KBSTERDB	$C3B5	975	NONE
KCAFDM	$C32D	847	NONE
KCAFTI	$C329	843	NONE
KCFTM	$C32A	844	NONE
KCFTM1	$C32B	845	NONE
KCFTM2	$C32C	846	NONE
KCLBSTEH	$C3B3	973	NONE
KCLBSTEL	$C3B4	974	NONE
KCLITMI	$C35A	892	NONE
KCLITMX	$C35B	893	NONE
KCLOXTII	$C357	889	NONE
KCLPROP	$C35D	895	NONE
KCLTC	$C34A	876	NONE

KFUELRHI	$C114	311	NONE
KFUELRLO	$C113	310	NONE
KFUELRTD	$C115	312	NONE
KFUELTMP	$C111	308	NONE
KFUELUP	$C00C	64	NONE
KF14TM1	$C696	1713	NONE
KF2ENA	$C102	293	NONE
KF4CNTR	$C02D	88	NONE
KF4TCTH	$C02E	89	NONE
KF4TPS1	$C02B	86	NONE
KF4TPS2	$C02C	87	NONE
KGDCTIM1	$C3A7	962	NONE
KGDCTIM2	$C3A8	963	NONE
KGDCTIM3	$C3A9	964	NONE

SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
KISTCBNH	$C642	1629	NONE
KISTCBNL	$C641	1628	NONE
KISTCDTA	$C652	1645	NONE
KISTCDTB	$C653	1646	NONE
KISTCMPH	$C64F	1642	NONE
KISTDELC	$C660	1659	NONE
KISTPSI	$C649	1636	NONE
KKA	$C07A	160	NONE
KKCTMPHI	$C04B	114	NONE
KKDIAGWM	$C049	112	NONE
KKDRMAP	$C07D	163	NONE
KKEGRDEC	$C06E	148	NONE
KKEGRDFA	$C067	141	NONE
KKEGRDLT	$C066	140	NONE
KKEGRHLT	$C065	139	NONE
KKEGRHLV	$C063	137	NONE
KKEGRLLT	$C064	138	NONE
KKEGRLLV	$C062	136	NONE
KKEGRMPH	$C06D	147	NONE
KKEGRSPK	$C069	143	NONE
KKEGRTDL	$C068	142	NONE
KKEGRTIM	$C061	135	NONE
KKESCP	$C092	184	NONE
KKES34A	$C076	156	NONE
KKETCTH	$C05F	133	NONE
KKETCTLO	$C05A	129	NONE
KKETMPHI	$C060	134	NONE
KKETMPL	$C04C	115	NONE
KKETMPLO	$C059	128	NONE
KKETMPTH	$C04A	113	NONE
KKETMPTL	$C04D	116	NONE
KKETMTLO	$C05E	132	NONE
KKIADIAG	$C08D	179	NONE
KKINTCH	$C06C	146	NONE
KKMASK1	$C035	95	NONE
KKMASK2	$C036	96	NONE
KKMASK3	$C037	97	NONE
KKMATDF	$C05B	130	NONE
KKMEGRDC	$C06F	149	NONE
KKM33CNT	$C074	154	NONE
KKM43ATH	$C094	186	NONE
KKM43ATL	$C095	187	NONE
KKM43ATM	$C096	188	NONE
KKNOMALF	$C038	98	NONE
KKO2DFT1	$C03F	104	NONE
KKO2HIGH	$C046	109	NONE
KKO2IDT1	$C041	105	NONE

SECURE LIBRARY PROGRAM AND LEVEL: P0188BAB01

SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
KKO2LOD	$C047	110	NONE
KKO2LOW	$C045	108	NONE
KKO2MAP	$C043	106	NONE
KKO2MAX	$C099	191	NONE
KKO2MIN	$C098	190	NONE
KKO2MPT1	$C03D	103	NONE
KKO2OLIM	$C048	111	NONE
KKO2RPM	$C044	107	NONE
KKPGMID	$C008	61	NONE
KKPMACON	$C07C	162	NONE
KKPMAC33	$C072	152	NONE
KKPMDF	$C079	159	NONE
KKPM21	$C052	121	NONE
KKPM33	$C071	151	NONE
KKPM34	$C075	155	NONE
KKRM21A	$C050	119	NONE
KKRTDF	$C093	185	NONE
KKSUM	$C006	60	NONE
KKTA21	$C04F	118	NONE
KKTA22	$C053	122	NONE
KKTA33	$C070	150	NONE
KKTA34	$C078	158	NONE
KKTCDF	$C04E	117	NONE
KKVRPMHA	$C056	125	NONE
KKVRPMLA	$C055	124	NONE
KKVSPDK	$C054	123	NONE
KKVST	$C058	127	NONE
KK2AIM33	$C07B	161	NONE
KK21TIM	$C051	120	NONE
KK23BSTM	$C05C	131	NONE
KK24MAP	$C057	126	NONE
KK32DL	$C068	145	NONE
KK32TIME	$C06A	144	NONE
KK33TIM	$C073	153	NONE
KK34TIM	$C077	157	NONE
KK35DLTB	$C088	177	NONE
KK35MXMP	$C08C	178	NONE
KK35TIME	$C08E	180	NONE
KK42ACT	$C090	182	NONE
KK42PLWD	$C091	183	NONE
KK42RMA	$C08F	181	NONE
KK44TIMF	$C09C	194	NONE
KK44TIMS	$C09B	193	NONE
KK45TIM	$C097	189	NONE
KK53TIM	$C09D	195	NONE
KLCESTHU	$C34D	879	NONE
KLCITIH	$C351	883	NONE

SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
KLCKDLYT	$C0D7	251	NONE
KLCLDLO	$C384	930	NONE
KLCRPM1	$C37A	920	NONE
KLCTCLL	$C34C	878	NONE
KLCVACO	$C383	929	NONE
KLITDLY1	$C152	372	NONE
KLITDLY2	$C164	390	NONE
KLITDLY3	$C176	408	NONE
KLITDLY4	$C188	426	NONE
KLKDLYT2	$C0D8	252	NONE
KLKDLYT3	$C0D9	253	NONE
KMAPDEC	$C0C9	239	NONE
KMAPINC	$C0C8	238	NONE
KMAXADV2	$C01E	77	NONE
KMAXLEAN	$C366	904	NONE
KMAXOFF	$C133	342	NONE
KMAXRTD2	$C026	82	NONE
KMAXTIME	$C0CA	240	NONE
KMCNT1	$C039	99	NONE
KMCNT2	$C03A	100	NONE
KMCNT3	$C03B	101	NONE
KMCNT4	$C03C	102	NONE
KMINTIME	$C0CC	241	NONE
KMPGMULT	$C138	347	NONE
KNBIASTM	$C6BB	1749	NONE
KNBIASVS	$C6BA	1748	NONE
KNUMCYL	$C009	62	NONE
KNVRAT1H	$C14C	366	NONE
KNVRAT1L	$C14D	367	NONE
KNVRAT2H	$C15E	384	NONE
KNVRAT2L	$C15F	385	NONE
KNVRAT3H	$C170	402	NONE
KNVRAT3L	$C171	403	NONE
KNVRAT4H	$C182	420	NONE
KNVRAT4L	$C183	421	NONE
KNVRAT5H	$C189	427	NONE
KNVRAT5L	$C18A	428	NONE
KO2AMAX	$C358	890	NONE
KO2AMIN	$C359	891	NONE
KO2ATIME	$C34B	877	NONE
KO2FFO	$C331	851	NONE
KO2FILHC	$C378	918	NONE
KO2FILLC	$C379	919	NONE
KPCDUR	$C35E	896	NONE
KPEAFDLT	$C39C	951	NONE
KPEATPS	$C395	945	NONE
KPETMPH	$C398	948	NONE

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SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
KPEMAPHY	$C381	927	NONE
KPEMAP1	$C393	943	NONE
KPEMAP2	$C394	944	NONE
KPEMAP3	$C382	928	NONE
KPEMAP4	$C398	950	NONE
KPEMAP42	$C37C	922	NONE
KPEMPH	$C397	947	NONE
KPEMPHTM	$C399	949	NONE
KPERPM	$C37E	924	NONE
KPERPM1	$C37F	925	NONE
KPERPM42	$C37D	923	NONE
KPETCTH	$C396	946	NONE
KPETPS	$C387	933	NONE
KPKORDEL	$C65F	1658	NONE
KPNORDEL	$C697	1714	NONE
KPROPVAC	$C35C	894	NONE
KPSDADV	$C02F	90	NONE
KPSLDCLC	$C659	1652	NONE
KPSLDDS1	$C658	1651	NONE
KPSTCDT	$C656	1649	NONE
KPSTCLC	$C65A	1653	NONE
KPSTEMP	$C031	91	NONE
KPWEGR	$C385	931	NONE
KPWOEGR	$C386	932	NONE
KQASRPMD	$C389	935	NONE
KQSYNMPH	$C390	940	NONE
KRAFTDM	$C327	841	NONE
KREFANGL	$C00E	65	NONE
KREFMAXH	$C38F	939	NONE
KREFMAXL	$C38E	938	NONE
KREL1A	$C0D5	249	NONE
KREL2A	$C0D6	250	NONE
KRETARDM	$C0FA	285	NONE
KRPMAX	$C13E	353	NONE
KRPMDUR	$C0A0	198	NONE
KRPMHYSM	$C13D	352	NONE
KRPMIN1	$C14E	368	NONE
KRPMIN2	$C160	386	NONE
KRPMIN3	$C172	404	NONE
KRPMIN4	$C184	422	NONE
KRPMKNOB	$C0F9	284	NONE
KRPMOFFH	$C352	884	NONE
KRPMOFFL	$C353	885	NONE
KRPMUP	$C00A	63	NONE
KRPMXHI	$C00F	66	NONE
KRSCSTK	$C0D2	246	NONE
KRSHNTHK	$C0DA	254	NONE

SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
KRSHNTLK	$C0DB	255	NONE
KRUNFCTR	$C02A	85	NONE
KSADM	$C104	295	NONE
KSAGSTEP	$C663	1662	NONE
KSATM1	$C103	294	NONE
KSGTCDT	$C665	1664	NONE
KSGTCLC	$C664	1663	NONE
KSHFMPHL	$C13F	354	NONE
KSPDDIV	$C0F2	278	NONE
KSPDSEN	$C0F4	280	NONE
KSYNRPMH	$C335	855	NONE
KSYNRPML	$C336	856	NONE
KTAOFF	$C330	850	NONE
KTCCTMPL	$C0D0	244	NONE
KTFFTT	$C33D	863	NONE
KTFFTTM	$C33E	864	NONE
KTIMELAG	$C016	73	NONE
KTIMOUT	$C028	83	NONE
KTPSHYS	$C380	926	NONE
KTPSHYSM	$C13C	351	NONE
KTPSHYS1	$C161	371	NONE
KTPSHYS2	$C163	389	NONE
KTPSHYS3	$C175	407	NONE
KTPSHYS4	$C187	425	NONE
KTPSNLT1	$C14F	369	NONE
KTPSNLT2	$C161	387	NONE
KTPSNLT3	$C173	405	NONE
KTPSNLT4	$C185	423	NONE
KT1A	$C349	875	NONE
KT2A	$C348	874	NONE
KVEHMOVE	$C0F3	279	NONE
KVSIDLE	$C657	1650	NONE
KWGCLTIM	$C3B2	972	NONE
KWGDCLOW	$C3BE	984	NONE
KWGDRPMN	$C3BC	982	NONE
KWGDRPMP	$C3BB	981	NONE
KWGDTPS	$C3BD	983	NONE
KWGMAPH	$C3A3	958	NONE
KWGMAPL	$C3A4	959	NONE
KWGMAPTM	$C3A2	957	NONE
KWGMPHL	$C3AE	969	NONE
KWGRPMEN	$C3BA	980	NONE
K3	$C32E	848	NONE
K4	$C32F	849	NONE
K6XRPMDS	$C01A	75	NONE
K6XRPMEN	$C018	74	NONE
K6XSYNCH	$C01C	76	NONE

SYMBOL CROSS-REFERENCE TABLE

SYMBOL NAME	VALUE	DEFINED AT LINE	REFERENCES (* INDICATES MEMORY CONTENT CHANGE)
LASTCAL	$C81F	2005	2006
LCCPAR	$C000	243	NONE
LCCPMW	$0027	34	NONE
LCKDLY	$0056	35	NONE
MALFFLG1	$0003	36	NONE
MALFFLG2	$0004	37	NONE
MALFFLG3	$0005	38	NONE
MWAF1	$0030	39	NONE
MW1	$0023	40	NONE
MW2	$0024	41	NONE
MW3	$0025	42	NONE
NOCKRTD	$00A8	43	NONE
NTPSLD	$0053	44	NONE
NTRPMX	$0046	45	NONE
NVMW	$0001	46	NONE
OLDPA3	$00A9	47	NONE
OLDRFPER	$015E	48	NONE
PROMIDA	$C000	57	NONE
RAWADMAT	$0036	49	NONE
SAC	$00C0	50	NONE
SAP	$0180	51	NONE
SEQNUMB	$C004	59	NONE
TIME	$0011	52	NONE
TREF	$004C	53	NONE
VE	$0073	54	NONE
WGATEDC	$00AF	55	NONE