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1 * THIS IS A COPYRIGHTED PROGRAM, COPYRIGHT 1971 BY VARIAN DATA MACHINES 00 00001
2 *                                     00 00002
3 * V.D.M. PART NO. 92L0107-0010 *****
4 *                                     00 00004
5 *                                     00 00005
6 *                                     00 00006
7 * MAINTAIN II TEST EXECUTIVE 00 00007
8 *                                     00 00008
9 *           ***   ***   ** 00 00009
10 *          *   *   *   *   * 00 00010
11 *         *   *   *   *   * 00 00011
12 *        *****   ***   *   * 00 00012
13 *       *   *   *   *   *   * 00 00013
14 *      *   *   *   *   *   * 00 00014
15 *     ***   *****   ** 00 00015
16 *                                     00 00016
17 *                                     00 00017
18 *           *****   *****   ***   ***** 00 00018
19 *          *   *   *   *   *   * 00 00019
20 *         *   *   *   *   *   * 00 00020
21 *        *   ***   *   *   * 00 00021
22 *       *   *   *   *   *   * 00 00022
23 *      *   *   *   *   *   * 00 00023
24 *     *   *****   ***   * 00 00024
25 *                                     00 00025
26 *                                     00 00026
27 *           ***** *   * *****   ***   *   * *****   ***   *   * ***** 00 00027
28 *          *   *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00028
29 *         *   *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00029
30 *        ***   *   ***   *   *   *   *   *   *   *   *   *   *   * 00 00030
31 *       *   *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00031
32 *      *   *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00032
33 *     ***** *   * *****   ***   ***   *   *   *   *   *   * 00 00033
34 *                                     00 00034
35 *                                     00 00035
36 *           ***   *   *   ***   *****   *****   *   * 00 00036
37 *          *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00037
38 *         *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00038
39 *        *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00039
40 *       *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00040
41 *      *   *   *   *   *   *   *   *   *   *   *   *   *   * 00 00041
42 *     ***   *   ***   *   *****   *   * 00 00042

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| | | | | | | | |
|--------|----------|--|--|------|----------------------------------|----|-------|
| 43 | * | | | | | 00 | 00043 |
| 44 | * | | | | | 00 | 00044 |
| 45 | * | | | | | 00 | 00045 |
| 46 | * | | | | | 00 | 00046 |
| 47 | * | | | | | 00 | 00047 |
| 48 | * | | | | | 00 | 00048 |
| 49 | * | | | | | 00 | 00049 |
| 50 | * | | | | | 00 | 00050 |
| 51 | * | | | | | 00 | 00051 |
| 52 | * | | | | | 00 | 00052 |
| 53 | * | ***** | | | | 00 | 00053 |
| 54 | * | * | | * | | 00 | 00054 |
| 55 | * | * AREAS RESERVED BY EXECUTIVE * | | | | 00 | 00055 |
| 56 | * | ***** | | | | 00 | 00056 |
| 57 | * | ORG | 0 | | | 00 | 00057 |
| 58 | * | JMP | EXECUTIVE | | | 00 | 00058 |
| 59 | * | ORG | 040 | | | 00 | 00059 |
| 60 | * | JMPM | POWER DOWN ROUTINE | | | 00 | 00060 |
| 61 | * | JMP | POWER UP ROUTINE | | | 00 | 00061 |
| 62 | * | NOTE: | THE TEST EXECUTIVE ALSO RESERVES LOCATIONS 0400 TO 0477 | | | 00 | 00062 |
| 63 | * | | FOR A POINTER TABLE TO STANDARD ROUTINES, AND AS AN AREA | | | 00 | 00063 |
| 64 | * | | FOR EXECUTIVE DATA. ALL TEST PROGRAMS WORKING WITH THE | | | 00 | 00064 |
| 65 | * | | EXECUTIVE MUST PRESERVE THIS BLOCK. | | | 00 | 00065 |
| 66 | * | | STANDARD ROUTINES WILL BE CALLED INDIRECTLY THRU | | | 00 | 00066 |
| 67 | * | | THIS TABLE | | | 00 | 00067 |
| 68 | * | | | | | 00 | 00068 |
| 69 | * | ***** | | | | 00 | 00069 |
| 70 | * | | | | | 00 | 00070 |
| 71 | * | ***** | | | | 00 | 00071 |
| 72 | * | | | | | 00 | 00072 |
| 73 | * | THE STARTING ADDRESS OF THE EXECUTIVE IS 07000 | | | | 00 | 00073 |
| 74 | * | | | | | 00 | 00074 |
| 75 | * | ***** | | | | 00 | 00075 |
| 000000 | | 76 | ORG | 0 | | 00 | 00076 |
| 000000 | 001000 A | 77 | JMP | ETOP | 620/P CONSOLE INTERRUPT ENTRANCE | 00 | 00077 |
| 000001 | 006221 A | | | | | | |
| 000040 | | 78 | ORG | 040 | | 00 | 00078 |
| 000040 | 002000 A | 79 | JMPM | PWDN | POWER DOWN | 00 | 00079 |
| 000041 | 006358 A | | | | | | |
| 000042 | 001000 A | 80 | JMP | PWRU | POWER UP | 00 | 00080 |
| 000043 | 006370 A | | | | | | |
| | | 81 | * | | | 00 | 00081 |

| | | | | | | | | |
|--------|--------|---|-----|------|---|------|----|----------|
| 000400 | | | 82 | ORG | 0400 | | 00 | 00082 |
| | | | 83 | * | | | 00 | 00083 |
| | | | 84 | * | POINTER TABLE FOR EXEC STANDARD ROUTINES AND DATA | | 00 | 00084 |
| | | | 85 | * | TEST PROGRAMS USING EXECUTIVE ROUTINES WILL CALL THEM | | 00 | 00085 |
| | | | 86 | * | INDIRECTLY THRU THIS TABLE | | 00 | 00085 |
| | | | 87 | * | | | 00 | 00087 |
| | | | 88 | * | | | 00 | 00088 |
| | | | 89 | * | | | 00 | 00089 |
| 000400 | 007334 | A | 90 | EX00 | DATA | OUTA | | 00 00090 |
| 000401 | 007371 | A | 91 | EX01 | DATA | OUTB | | 00 00091 |
| 000402 | 007404 | A | 92 | EX02 | DATA | OUTC | | 00 00092 |
| 000403 | 007445 | A | 93 | EX03 | DATA | OUTD | | 00 00093 |
| 000404 | 007416 | A | 94 | EX04 | DATA | OUTE | | 00 00094 |
| 000405 | 007456 | A | 95 | EX05 | DATA | OUTF | | 00 00095 |
| 000406 | 007475 | A | 96 | EX06 | DATA | OUTG | | 00 00096 |
| 000407 | 007522 | A | 97 | EX07 | DATA | OUTH | | 00 00097 |
| 000410 | 006737 | A | 98 | EX10 | DATA | INPA | | 00 00098 |
| 000411 | 006753 | A | 99 | EX11 | DATA | INPB | | 00 00099 |
| 000412 | 007033 | A | 100 | EX12 | DATA | INPC | | 00 00100 |
| 000413 | 007067 | A | 101 | EX13 | DATA | INPD | | 00 00101 |
| 000414 | 007130 | A | 102 | EX14 | DATA | INPE | | 00 00102 |
| 000415 | 007170 | A | 103 | EX15 | DATA | INPF | | 00 00103 |
| 000416 | 007250 | A | 104 | EX16 | DATA | INPG | | 00 00104 |
| 000417 | 007543 | A | 105 | EX17 | DATA | TOUT | | 00 00105 |
| 000420 | 007527 | A | 106 | EX20 | DATA | TDLY | | 00 00105 |
| 000421 | 006720 | A | 107 | EX21 | DATA | SSWT | | 00 00107 |
| 000422 | 005100 | A | 108 | EX26 | DATA | ELOC | | 00 00108 |
| 000423 | 006161 | A | 109 | EX27 | DATA | ESZC | | 00 00109 |
| 000424 | 006447 | A | 110 | EX30 | DATA | MSG3 | | 00 00110 |
| 000425 | 007317 | A | 111 | EX31 | DATA | INPH | | 00 00111 |
| 000426 | 007331 | A | 112 | EX32 | DATA | INPI | | 00 00112 |
| | | | 113 | * | | | 00 | 00113 |
| | | | 114 | * | | | 00 | 00114 |
| | | | 115 | * | | | 00 | 00115 |
| 000440 | | | 116 | ORG | 0440 | | 00 | 00116 |
| | | | 117 | * | | | 00 | 00117 |
| | | | 118 | * | EXECUTIVE DATA TABLE | | 00 | 00118 |
| | | | 119 | * | | | 00 | 00119 |
| 000440 | 000000 | A | 120 | IFLG | DATA | 0 | | 00 00120 |
| 000441 | 000000 | A | 121 | SHEM | DATA | 0 | | 00 00121 |
| 000442 | 000000 | A | 122 | SCON | DATA | 0 | | 00 00122 |
| | | | 123 | * | | | 00 | 00123 |

LOOP ON ERROR FLAG. 0=DON'T LOOP 1=LOOP
 MEMORY SIZE (HIGHEST AVAIL CORE)
 0=CONSOLE MODE 1=TTY MODE



| | | | | | | | | | | |
|--------|--------|---|-----|-------|---|-------|---------------------------------------|----|-------|-------|
| 000443 | 000000 | A | 124 | EAR1 | DATA | 0 | PSEUDO A REG | 00 | 00124 | |
| 000444 | 000000 | A | 125 | EBR1 | DATA | 0 | PSEUDO B REG | 00 | 00125 | |
| 000445 | 000000 | A | 126 | EXR1 | DATA | 0 | PSEUDO X REG | 00 | 00126 | |
| 000446 | | | 127 | ET81 | BSS | 8 | TEMPORARY STORAGE | 00 | 00127 | |
| 000454 | 000240 | A | 128 | EK00 | DATA | 0240 | ASCII BLANK (SPACE) | 00 | 00128 | |
| 000455 | 000215 | A | 129 | EK01 | DATA | 0215 | ASCII CARRIAGE RETURN | 00 | 00129 | |
| 000456 | 000212 | A | 130 | EK02 | DATA | 0212 | ASCII LINE FEED | 00 | 00130 | |
| 000457 | 000040 | A | 131 | K40 | DATA | 040 | | 00 | 00131 | |
| 000460 | 000100 | A | 132 | K100 | DATA | 0100 | | 00 | 00132 | |
| 000461 | 000200 | A | 133 | K200 | DATA | 0200 | | 00 | 00133 | |
| 000462 | | | 134 | FRST | BSS | 1 | INITIAL PUNCH ADDRESS | 00 | 00134 | |
| 000463 | | | 135 | LAST | BSS | 1 | LAST PUNCH ADDRESS | 00 | 00135 | |
| 000464 | 000000 | A | 136 | CKSM | DATA | 0 | CHECKSUM | 00 | 00136 | |
| 000465 | 000000 | A | 137 | EXEC | DATA | 0 | EXECUTION ADDRESS | 00 | 00137 | |
| 000466 | 000224 | A | 138 | TAPN | DATA | 0224 | PUNCH OFF CODE | 00 | 00138 | |
| 000467 | 000222 | A | 139 | TAPE | DATA | 0222 | PUNCH ON CODE | 00 | 00139 | |
| 000470 | 007630 | A | 140 | LOAD | DATA | 07630 | ADDRS FOR BINARY LOADER | 00 | 00140 | |
| 000471 | 000000 | A | 141 | TS04 | DATA | 0 | DIGIT COUNTER FOR INPG | 00 | 00141 | |
| 000472 | 000000 | A | 142 | PWRK | DATA | 0 | POWER FAIL COUNTER | D | ***** | |
| | | | 143 | * | | | | 00 | 00142 | |
| | | | 144 | * | | | | 00 | 00143 | |
| | | | 145 | * | | | | 00 | 00144 | |
| | | | 146 | * | | | | 00 | 00145 | |
| | | | 147 | ***** | | | | | 00 | 00146 |
| | | | 148 | * | | | | 00 | 00147 | |
| 005100 | | | 149 | DRG | | 05100 | | 00 | 00148 | |
| | | | 150 | * | | | | 00 | 00149 | |
| | | | 151 | ***** | | | | | 00 | 00150 |
| | | | 152 | * | | | | 00 | 00151 | |
| | | | 153 | * | | | | 00 | 00152 | |
| | | | 154 | * | | | | 00 | 00153 | |
| | | | 155 | * | | | | 00 | 00154 | |
| 005100 | A | | 156 | ELOC | EQU | * | LOWEST CORE LOCATION USED BY THE EXEC | 00 | 00155 | |
| | | | 157 | * | | | | 00 | 00156 | |
| | | | 158 | * | EPUN--PUNCH A PROGRAM TAPE ON THE TTY PUNCH | | | 00 | 00157 | |
| | | | 159 | * | BEGINNING, ENDING, AND EXECUTION ADDRESSES | | | 00 | 00158 | |
| | | | 160 | * | ARE SPECIFIED BY USER | | | 00 | 00159 | |
| | | | 161 | * | | | | 00 | 00160 | |
| | | | 162 | * | | | | 00 | 00161 | |
| | | | 163 | * | | | | 00 | 00162 | |
| 007577 | A | | 164 | BLSA | SET | 07577 | BINARY LOADER START ADDR | 00 | 00163 | |
| 007755 | A | | 165 | BLEA | SET | 07755 | BINARY LOADER END ADDR | 00 | 00164 | |

| | | | | | | | | | |
|--------|--------|---|-------|-------------------------|------|--------|--------------------------------------|----|-------|
| 005100 | 005304 | A | 166 * | | | | | 00 | 00165 |
| | | | 167 | EPUN | DECR | 04 | PRESET EXEC ADDRS TO -1 | 00 | 00166 |
| 005101 | 070450 | A | 168 | | STX | ETS1+2 | | 00 | 00167 |
| 005102 | 006020 | A | 169 | | LOBI | ETS1 | ADDRS FOR STORING INPUT PARAMETERS | 00 | 00168 |
| 005103 | 000446 | A | | | | | | | |
| 005104 | 002000 | A | 170 | | CALL | INPG | INPUT OCTAL PARAMETER | 00 | 00169 |
| 005105 | 007250 | A | | | | | | | |
| 005106 | 001000 | A | 171 | | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00170 |
| 005107 | 006221 | A | | | | | | | |
| 005110 | 001000 | A | 172 | | JMP | ETOP | ABORT | 00 | 00171 |
| 005111 | 006221 | A | | | | | | | |
| 005112 | 001000 | A | 173 | | JMP | EPU1 | COMMA EXIT--GET NEXT PARAMETER | 00 | 00172 |
| 005113 | 005125 | A | | | | | | | |
| | | | 174 * | NORMAL RETURN FROM INPG | | | | 00 | 00173 |
| 005114 | 055000 | A | 175 | | STA | 0,2 | | 00 | 00174 |
| 005115 | 010446 | A | 176 | | LOA | ETS1 | BEGINNING PUNCH ADDRESS | 00 | 00175 |
| 005116 | 020447 | A | 177 | | LOB | ETS1+1 | ENDING PUNCH ADDRESS | 00 | 00176 |
| 005117 | 030450 | A | 178 | | LOX | ETS1+2 | EXEC ADDRS | 00 | 00177 |
| 005120 | 007401 | A | 179 | | SQF | | | 00 | 00178 |
| 005121 | 002000 | A | 180 | | CALL | DUMP | | 00 | 00179 |
| 005122 | 005237 | A | | | | | | | |
| 005123 | 001000 | A | 181 | | JMP | ETOP | RETURN TO EXEC SUPERVISOR | 00 | 00180 |
| 005124 | 006221 | A | | | | | | | |
| | | | 182 * | | | | | 00 | 00181 |
| 005125 | 056000 | A | 183 | EPU1 | STA | 0,2 | | 00 | 00182 |
| 005126 | 005021 | A | 184 | | TBA | | | 00 | 00183 |
| 005127 | 006140 | A | 185 | | SUBI | ETS1+2 | | 00 | 00184 |
| 005130 | 000450 | A | | | | | | | |
| 005131 | 001010 | A | 186 | | JAZ | EXIT | ERROR--TOO MANY INPUTS | 00 | 00185 |
| 005132 | 005323 | A | | | | | | | |
| 005133 | 005122 | A | 187 | | TBR | | | 00 | 00186 |
| 005134 | 001000 | A | 188 | | JMP | EPUN+4 | GET NEXT PARAMETER | 00 | 00187 |
| 005135 | 005104 | A | | | | | | | |
| | | | 189 * | | | | | 00 | 00188 |
| 005136 | 006010 | A | 190 | ERPUN | LOAI | BLSA | FRST = BIN LOAD START ADDRS (PRESET) | 00 | 00189 |
| 005137 | 007577 | A | | | | | | | |
| 005140 | 050446 | A | 191 | | STA | ETS1 | | 00 | 00190 |
| 005141 | 006010 | A | 192 | | LOAI | BLEA | LAST = BIN LOAD END ADDRS (PRESET) | 00 | 00191 |
| 005142 | 007755 | A | | | | | | | |
| 005143 | 000447 | A | 193 | | STA | ETS1+1 | | 00 | 00192 |
| 005144 | 006020 | A | 194 | | LOBI | ETS1 | ADDRS FOR STORING INPUT PARAMETERS | 00 | 00193 |
| 005145 | 000446 | A | | | | | | 00 | 00194 |

version data machine 00 00194

| | | | | | | | | |
|--------|--------|---|-------|-------------------------------|--------|---|----|-------|
| 005146 | 002000 | A | 195 | CALL | INPG | INPUT OCTAL PARAMETERS | 00 | 00194 |
| 005147 | 007250 | A | | | | | | |
| 005150 | 001000 | A | 196 | JMP | ETOP | SS3 EXIT | 00 | 00195 |
| 005151 | 006221 | A | | | | | | |
| 005152 | 001000 | A | 197 | JMP | ETOP | ABORT EXIT | 00 | 00195 |
| 005153 | 006221 | A | | | | | | |
| 005154 | 001000 | A | 198 | JMP | EBP1 | , EXIT | 00 | 00197 |
| 005155 | 005172 | A | | | | | | |
| 005156 | 005014 | A | 199 | TAX | | SAVE INPUT (, EXIT) | 00 | 00198 |
| 005157 | 010471 | A | 200 | LDA | TS04 | NUMBER INPUTED? | 00 | 00199 |
| 005160 | 001010 | A | 201 | JAZ | *+3 | NO | 00 | 00200 |
| 005161 | 005163 | A | | | | | | |
| 005162 | 076000 | A | 202 | STX | 0,2 | YES, PUT INTO PARAMETER LIST | 00 | 00201 |
| 005163 | 010446 | A | 203 | LDA | ETS1 | BINARY START ADDRS | 00 | 00202 |
| 005164 | 020447 | A | 204 | LOB | ETS1+1 | BINARY END ADDRS | 00 | 00203 |
| 005165 | 007400 | A | 205 | ROP | | SET BINARY DUMP INDICATOR | 00 | 00204 |
| 005166 | 002000 | A | 206 | CALL | DUMP | DUMP | 00 | 00205 |
| 005167 | 005237 | A | | | | | | |
| 005170 | 001000 | A | 207 | JMP | ETOP | RETURN TO EXEC SUPERVISOR | 00 | 00206 |
| 005171 | 006221 | A | | | | | | |
| 005172 | 056000 | A | 208 | EBP1 STA | 0,2 | STORE PARAMETER | 00 | 00207 |
| 005173 | 005021 | A | 209 | TBA | | TOO MANY ? | 00 | 00208 |
| 005174 | 006140 | A | 210 | SUBI | ETS1+1 | | 00 | 00209 |
| 005175 | 000447 | A | | | | | | |
| 005176 | 001010 | A | 211 | JAZ | EXIT | YES | 00 | 00210 |
| 005177 | 005323 | A | | | | | | |
| 005200 | 005122 | A | 212 | IOR | | NO | 00 | 00211 |
| 005201 | 001000 | A | 213 | JMP | EBPN+8 | GET NEXT | 00 | 00212 |
| 005202 | 005146 | A | | | | | | |
| | | | 214 * | | | | 00 | 00213 |
| | | | 215 * | | | | 00 | 00214 |
| | | | 216 * | | | | 00 | 00215 |
| | | | 217 * | CONSOLE BOOTSTRAP DUMP DRIVER | | | 00 | 00216 |
| | | | 218 * | | | | 00 | 00217 |
| 005203 | 007400 | A | 219 | ROP | | SET BOOTSTRAP FLAG | 00 | 00218 |
| 005204 | 002000 | A | 220 | CALL | DUMP | DUMP BOOTSTRAP | 00 | 00219 |
| 005205 | 005237 | A | | | | | | |
| | | | 221 * | | | | 00 | 00220 |
| | | | 222 * | CONSOLE PROGRAM DUMP DRIVER | | | 00 | 00221 |
| | | | 223 * | | | | 00 | 00222 |
| 005206 | 000007 | A | 224 | DHLT | HLT | 7 | 00 | 00223 |
| 005207 | 007401 | A | 225 | SOP | | OPERATOR SETS REGISTERS SET PROGRAM FLAG | 00 | 00224 |

| | | | | | | | | |
|--------|--------|---|-----|------|---------------------|-------------------|----|-------|
| 005210 | 002000 | A | 226 | CALL | DUMP | DUMP PROGRAM TAPE | 00 | 00225 |
| 005211 | 005237 | A | | | | | | |
| 005212 | 001000 | A | 227 | JMP | DHLT | HALT FOR OPERATOR | 00 | 00225 |
| 005213 | 005205 | A | | | | | | |
| | | | 228 | * | | | 00 | 00227 |
| | | | 229 | * | BINARY DUMP ROUTINE | | 00 | 00228 |
| | | | 230 | * | | | 00 | 00229 |
| 005214 | 010463 | A | 231 | EOR | LOA | LAST | 00 | 00230 |
| 005215 | 001010 | A | 232 | | JAZ | PQFF=2 | 00 | 00231 |
| 005216 | 005224 | A | | | | | | |
| 005217 | 010464 | A | 233 | | LOA | CKSM | 00 | 00232 |
| 005220 | 002000 | A | 234 | CALL | PWRD | PUNCH CHECKSUM | 00 | 00233 |
| 005221 | 005342 | A | | | | | | |
| 005222 | 001001 | A | 235 | JOP | PRCD | (NOT EXEC RCD) | 00 | 00234 |
| 005223 | 005270 | A | | | | | | |
| 005224 | 002000 | A | 236 | CALL | PLDR | PUNCH TRAILER | 00 | 00235 |
| 005225 | 005370 | A | | | | | | |
| 005226 | 002000 | A | 237 | PQFF | CALL | OUTH,0224 | 00 | 00236 |
| 005227 | 007522 | A | | | | | | |
| 005230 | 000224 | A | | | | | | |
| 005231 | 002000 | A | 238 | CALL | OUTH,0201 | PRINT ENABLE | 00 | 00237 |
| 005232 | 007522 | A | | | | | | |
| 005233 | 000201 | A | | | | | | |
| 005234 | 010462 | A | 239 | LOA | FRST | RESTORE REGISTERS | 00 | 00238 |
| 005235 | 020463 | A | 240 | LOB | LAST | | 00 | 00239 |
| 005236 | 001000 | A | 241 | JMP | * | RETURN | 00 | 00240 |
| 005237 | 005236 | A | | | | | | |
| 005237 | | | 242 | DUMP | BES | 0 | 00 | 00241 |
| 005240 | 050462 | A | 243 | STA | FRST | SAVE REGISTERS | 00 | 00242 |
| 005241 | 060463 | A | 244 | STB | LAST | | 00 | 00243 |
| 005242 | 070465 | A | 245 | STX | EXEC | | 00 | 00244 |
| 005243 | 005014 | A | 246 | TAX | | SET LOAD ADDR | 00 | 00245 |
| 005244 | 002000 | A | 247 | CALL | OUTH,0203 | PRINT OFF | 00 | 00246 |
| 005245 | 007522 | A | | | | | | |
| 005246 | 000203 | A | | | | | | |
| 005247 | 002000 | A | 248 | CALL | OUTH,0222 | TURN PUNCH ON | 00 | 00247 |
| 005250 | 007522 | A | | | | | | |
| 005251 | 000222 | A | | | | | | |
| 005252 | 002000 | A | 249 | CALL | PLDR | PUNCH LEADER | 00 | 00248 |
| 005253 | 005370 | A | | | | | | |
| 005254 | 060464 | A | 250 | STB | CKSM | RESET CHECKSUM | 00 | 00249 |
| 005255 | 001001 | A | 251 | JOP | PRCD | (PROGRAM DUMP) | 00 | 00250 |



| | | | | | | | | | |
|--------|--------|---|-----|-------|-------|--------------------|-----------------|----|-------|
| 005256 | 005270 | A | | | | | | | |
| 005257 | 030462 | A | 252 | LOX | FRST | SET BEGINNING | | 00 | 00251 |
| 005260 | 010463 | A | 253 | LOA | LAST | AND ENDING | | 00 | 00252 |
| 005261 | 140462 | A | 254 | SUB | FRST | ADDRS | | 00 | 00253 |
| 005262 | 005012 | A | 255 | TAB | | | | 00 | 00254 |
| 005263 | 005001 | A | 256 | TZA | | SET BOOT FLAG | | 00 | 00255 |
| 005264 | 050463 | A | 257 | STA | LAST | | | 00 | 00256 |
| 005265 | 001000 | A | 258 | JMP | PBOOT | | | 00 | 00257 |
| 005266 | 005334 | A | | | | | | | |
| 005267 | 005000 | A | 259 | NOB | | | | 00 | 00258 |
| 005270 | 007401 | A | 260 | PRCD | SOP | *PUNCH A RCD | | 00 | 00259 |
| 005271 | 070446 | A | 261 | STX | ETS1 | CALC RECORD LENGTH | | 00 | 00260 |
| 005272 | 010463 | A | 262 | LOA | LAST | | | 00 | 00261 |
| 005273 | 140446 | A | 263 | SUB | ETS1 | | | 00 | 00262 |
| 005274 | 005112 | A | 264 | INCR | 012 | | | 00 | 00263 |
| 005275 | 001002 | A | 265 | JAP | DRCD | (DATA RECORD) | | 00 | 00264 |
| 005276 | 005303 | A | | | | | | | |
| 005277 | 030465 | A | 266 | LOX | EXEC | SET EXEC ADDR | | 00 | 00265 |
| 005300 | 005041 | A | 267 | TXA | | | | 00 | 00266 |
| 005301 | 001004 | A | 268 | JAN | P0FF | (NO EXEC RCD) | | 00 | 00267 |
| 005302 | 005226 | A | | | | | | | |
| 005303 | 007400 | A | 269 | R0F | | | | 00 | 00268 |
| 005304 | 005001 | A | 270 | TZA | | SET RCD LENGTH = 0 | | 00 | 00269 |
| 005305 | 140460 | A | 271 | DRCD | SUB | K100 | | 00 | 00270 |
| 005306 | 001004 | A | 272 | JAN | **3 | (SHORT RCD) | | 00 | 00271 |
| 005307 | 005311 | A | | | | | | | |
| 005310 | 020460 | A | 273 | LOB | K100 | SET FOR MAX RCD | | 00 | 00272 |
| 005311 | 005301 | A | 274 | DECR | 1 | | | 00 | 00273 |
| 005312 | 002000 | A | 275 | CALL | OUTA | OUTPUT ONE CHAR | | 00 | 00274 |
| 005313 | 007334 | A | | | | | | | |
| 005314 | 002000 | A | 276 | CALL | OUTA | OUTPUT ONE CHAR | | 00 | 00275 |
| 005315 | 007334 | A | | | | | | | |
| 005316 | 002000 | A | 277 | CALL | OUTA | OUTPUT ONE CHAR | | 00 | 00276 |
| 005317 | 007334 | A | | | | | | | |
| 005320 | 005001 | A | 278 | TZA | | | | 00 | 00277 |
| 005321 | 002000 | A | 279 | CALL | OUTA | OUTPUT ONE CHAR | | 00 | 00278 |
| 005322 | 007334 | A | | | | | | | |
| 005323 | 005021 | A | 280 | TBA | | | | 00 | 00279 |
| 005324 | 002000 | A | 281 | CALL | PWRD | PUNCH RCD LENGTH | | 00 | 00280 |
| 005325 | 005342 | A | | | | | | | |
| 005326 | 005041 | A | 282 | TXA | | | | 00 | 00281 |
| 005327 | 002000 | A | 283 | PDATA | CALL | PWRD | PUNCH ADDR/DATA | 00 | 00282 |



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|--------|--------|---|-----|-------|--------------------------------|-------|--------------------------|----|-------|
| 005330 | 005342 | A | | | | | | | |
| 005331 | 001020 | A | 284 | JBZ | EOR | | (END OF RCD) | 00 | 00283 |
| 005332 | 005214 | A | | | | | | | |
| 005333 | 005322 | A | 285 | OBR | | | COUNT DOWN | 00 | 00284 |
| 005334 | 015000 | A | 286 | PBODT | LDA | 0,1 | GET DATA | 00 | 00285 |
| 005335 | 005144 | A | 287 | | IXR | | SET NEXT ADDR | 00 | 00286 |
| 005336 | 001000 | A | 288 | | JMP | PDATA | | 00 | 00287 |
| 005337 | 005327 | A | | | | | | | |
| | | | 289 | * | | | | 00 | 00288 |
| | | | 290 | * | CHECKSUM AND PUNCH BINARY WORD | | | 00 | 00289 |
| | | | 291 | * | | | | 00 | 00290 |
| 005340 | 020445 | A | 292 | PWR1 | LDB | ETS1 | | 00 | 00291 |
| 005341 | 001000 | A | 293 | | JMP | * | RETURN | 00 | 00292 |
| 005342 | 005341 | A | | | | | | | |
| | 005342 | A | 294 | PWR0 | EQU | *=1 | ENTRY POINT | 00 | 00293 |
| 005343 | 050445 | A | 295 | | STR | ETS1 | | 00 | 00294 |
| 005344 | 005012 | A | 296 | | TAB | | | 00 | 00295 |
| 005345 | 130464 | A | 297 | | ERA | CKSM | CALCULATE CHECKSUM | 00 | 00296 |
| 005346 | 050464 | A | 298 | | STA | CKSM | | 00 | 00297 |
| 005347 | 005021 | A | 299 | | TBA | | | 00 | 00298 |
| 005350 | 005302 | A | 300 | | DECR | 2 | | 00 | 00299 |
| 005351 | 004022 | A | 301 | | ASLB | 18 | B = MAX NEGATIVE NUMBER | 00 | 00300 |
| 005352 | 004554 | A | 302 | | LLSR | 12 | SHIFT IN FIRST SIX BITS | 00 | 00301 |
| 005353 | 130457 | A | 303 | PWR2 | ERA | K40 | ENDJCE | 00 | 00302 |
| 005354 | 120457 | A | 304 | | ADD | K40 | | 00 | 00303 |
| 005355 | 001400 | A | 305 | | JSS3 | ETOP | SS3 EXIT | 00 | 00304 |
| 005356 | 006221 | A | | | | | | | |
| 005357 | 002000 | A | 306 | | CALL | OUTA | OUTPUT ONE CHAR | 00 | 00305 |
| 005360 | 007334 | A | | | | | | | |
| 005361 | 005001 | A | 307 | | TZA | | | 00 | 00306 |
| 005362 | 004443 | A | 308 | | LLRL | 6 | SHIFT IN NEXT SIX BITS | 00 | 00307 |
| 005363 | 001020 | A | 309 | | JBZ | PWR1 | ALL FINISHED | 00 | 00308 |
| 005364 | 005340 | A | | | | | | | |
| 005365 | 001000 | A | 310 | | JMP | PWR2 | | 00 | 00309 |
| 005366 | 005353 | A | | | | | | | |
| 005367 | 005000 | A | 311 | | NOP | | | 00 | 00310 |
| | | | 312 | * | | | | 00 | 00311 |
| | | | 313 | * | PUNCH LEADER/TRAILER NULLS | | | 00 | 00312 |
| | | | 314 | * | | | | 00 | 00313 |
| 005370 | 000000 | A | 315 | PLUR | ENTR | 0 | | 00 | 00314 |
| 005371 | 020461 | A | 316 | | LDB | K200 | SET FOR APPROX 12 INCHES | 00 | 00315 |
| 005372 | 010461 | A | 317 | | LDA | K200 | ASCII NULL | 00 | 00316 |

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|--------|--------|---|-----|------|---|--------|--------------------------------------|----|-------|
| 005373 | 002000 | A | 318 | PLD1 | CALL | OUTA | PUNCH ONE CHAR | 00 | 00317 |
| 005374 | 007334 | A | | | | | | | |
| 005375 | 001020 | A | 319 | | JBZ* | PLDR | | 00 | 00318 |
| 005376 | 105370 | A | | | | | | | |
| 005377 | 005322 | A | 320 | | OBR | | COUNT | 00 | 00319 |
| 005400 | 001400 | A | 321 | | JSS3 | ETOP | SS3 EXIT | 00 | 00320 |
| 005401 | 006221 | A | | | | | | | |
| 005402 | 001000 | A | 322 | | JMP | PLD1 | | 00 | 00321 |
| 005403 | 005373 | A | | | | | | | |
| | | | 323 | * | | | | 00 | 00322 |
| | | | 324 | * | | | | 00 | 00323 |
| | | | 325 | * | | | | 00 | 00324 |
| | | | 326 | * | | | | 00 | 00325 |
| | | | 327 | * | INIT--INITIALIZE MEMORY. | | | 00 | 00326 |
| | | | 328 | * | X=START ADDRESS | | | 00 | 00327 |
| | | | 329 | * | Y=FINAL ADDRESS | | | 00 | 00328 |
| | | | 330 | * | Z=INITIALIZING VALUE | | | 00 | 00329 |
| | | | 331 | * | | | | 00 | 00330 |
| | | | 332 | * | FORMAT: IX,Y,Z. | | | 00 | 00331 |
| | | | 333 | * | | | | 00 | 00332 |
| | | | 334 | * | | | | 00 | 00333 |
| 005404 | 006020 | A | 335 | INIT | LOBI | ETS1 | ADDRESS FOR STORING INPUT PARAMETERS | 00 | 00334 |
| 005405 | 000446 | A | | | | | | | |
| 005406 | 002000 | A | 336 | | CALL | INPG | GET OCTAL PARAMETER | 00 | 00335 |
| 005407 | 007250 | A | | | | | | | |
| 005410 | 001000 | A | 337 | | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00336 |
| 005411 | 006221 | A | | | | | | | |
| 005412 | 001000 | A | 338 | | JMP | ETOP | ABORT | 00 | 00337 |
| 005413 | 006221 | A | | | | | | | |
| 005414 | 001000 | A | 339 | | JMP | INI3 | COMMA EXIT--GET NEXT PARAMETER | 00 | 00338 |
| 005415 | 005444 | A | | | | | | | |
| | | | 340 | * | NORMAL RETURN FROM INPG--A REG CONTAINS THIRD PARAMETER | | | 00 | 00339 |
| 005416 | 030446 | A | 341 | | LDX | ETS1 | START ADDRESS | 00 | 00340 |
| 005417 | 050452 | A | 342 | | STA | ETS1+4 | SAVE INITIALIZING VALUE | 00 | 00341 |
| 005420 | 005021 | A | 343 | | T8A | | TEST NO. PARAMETERS | 00 | 00342 |
| 005421 | 006140 | A | 344 | | SUBI | ETS1+2 | * | 00 | 00343 |
| 005422 | 000450 | A | | | | | | | |
| 005423 | 001010 | A | 345 | | JAZ | **4 | * | 00 | 00344 |
| 005424 | 005427 | A | | | | | | | |
| 005425 | 001000 | A | 346 | | JMP | EXIT | * | 00 | 00345 |
| 005426 | 006323 | A | | | | | | | |
| 005427 | 010447 | A | 347 | | LDA | ETS1+1 | TEST PARAMETER | 00 | 00346 |

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|--------|--------|---|-----|------|--|--------|-----------------------------|--|----|-------|
| 005430 | 140446 | A | 348 | | SUB | ETS1 | RANGE | | 00 | 00347 |
| 005431 | 001004 | A | 349 | | JAN | EXIT | *** | | 00 | 00348 |
| 005432 | 006323 | A | | | | | | | | |
| 005433 | 010452 | A | 350 | INI2 | LOA | ETS1+4 | STORE VALUE Z | | 00 | 00349 |
| 005434 | 055000 | A | 351 | | STA | 0,1 | | | 00 | 00350 |
| 005435 | 005041 | A | 352 | | TXA | | | | 00 | 00351 |
| 005436 | 140447 | A | 353 | | SUB | ETS1+1 | FINAL ADDRESS | | 00 | 00352 |
| 005437 | 001010 | A | 354 | | JAZ | ETOP | YES | | 00 | 00353 |
| 005440 | 006221 | A | | | | | | | | |
| 005441 | 005144 | A | 355 | | IXR | | | | 00 | 00354 |
| 005442 | 001000 | A | 356 | | JMP | INI2 | STORE Z AT NEXT LOCATION | | 00 | 00355 |
| 005443 | 005433 | A | | | | | | | | |
| | | | 357 | * | | | | | 00 | 00356 |
| 005444 | 056000 | A | 358 | INI3 | STA | 0,2 | SAVE INPUT PARAMETER | | 00 | 00357 |
| 005445 | 005122 | A | 359 | | IBR | | | | 00 | 00358 |
| 005446 | 001000 | A | 360 | | JMP | INIT+2 | GET NEXT PARAMETER | | 00 | 00359 |
| 005447 | 005406 | A | | | | | | | | |
| | | | 361 | * | | | | | 00 | 00360 |
| | | | 362 | * | | | | | 00 | 00361 |
| | | | 363 | * | | | | | 00 | 00362 |
| | | | 364 | * | | | | | 00 | 00363 |
| | | | 365 | * | ETRP--TRAP TO LOCATION X STARTING FROM LOCATION Y. | | | | 00 | 00364 |
| | | | 366 | * | IF LOCATION X IS REACHED: RESTORE LOCATIONS X & X+1, PRINT | | | | 00 | 00365 |
| | | | 367 | * | THE CURRENT VALUES OF REGISTERS A,B,X, AND RETURN TO THE | | | | 00 | 00366 |
| | | | 368 | * | EXEC SUPERVISOR | | | | 00 | 00367 |
| | | | 369 | * | | | | | 00 | 00368 |
| | | | 370 | * | NOTE: CONTENTS OF LOCATIONS X AND X+1 MUST BE RESTORED BY | | | | 00 | 00369 |
| | | | 371 | * | USER IF TRAP IS NOT REACHED BY THIS ROUTINE | | | | 00 | 00370 |
| | | | 372 | * | | | | | 00 | 00371 |
| | | | 373 | * | FORMAT: TX,Y. | | | | 00 | 00372 |
| | | | 374 | * | | | | | 00 | 00373 |
| | | | 375 | * | | | | | 00 | 00374 |
| 005450 | 006020 | A | 376 | ETRP | LOBI | ETS1 | (B) POINTS TO PARAMETER TBL | | 00 | 00375 |
| 005451 | 000446 | A | | | | | | | | |
| 005452 | 010446 | A | 377 | | LOA | ETS1 | X = PREVIOUS Y | | 00 | 00376 |
| 005453 | 050447 | A | 378 | | STA | ETS1+1 | | | 00 | 00377 |
| 005454 | 002000 | A | 379 | | CALL | INPG | INPUT OCTAL NUMBER | | 00 | 00378 |
| 005455 | 007250 | A | | | | | | | | |
| 005456 | 001000 | A | 380 | | JMP | ETOP | TERMINATION EXIT VIA SS3 | | 00 | 00379 |
| 005457 | 006221 | A | | | | | | | | |
| 005460 | 001000 | A | 381 | | JMP | ETOP | ABORT | | 00 | 00380 |
| 005461 | 006221 | A | | | | | | | | |

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|--------|--------|---|-------|-------------------------|--------|--------------------------------------|----|-------|
| 005462 | 001000 | A | 382 | JMP | ETR1 | COMMA EXIT--GET SECOND PARAMETER | 00 | 00381 |
| 005463 | 005536 | A | | | | | | |
| | | | 383 * | NORMAL RETURN FROM INPG | | | 00 | 00382 |
| 005464 | 058000 | A | 384 | STA | 0,2 | STORE PARAMETER | 00 | 00383 |
| 005465 | 006030 | A | 385 | LOXI | ETS1+2 | TEMP STORE ADDRESS | 00 | 00384 |
| 005466 | 000450 | A | | | | | | |
| 005467 | 020446 | A | 386 | LOB | ETS1 | X PARAMETER(TRAP LOCATION) | 00 | 00385 |
| 005470 | 016000 | A | 387 | LDA | 0,2 | | 00 | 00386 |
| 005471 | 055000 | A | 388 | STA | 0,1 | SAVE CONTENTS OF LOCATION X AT TS02 | 00 | 00387 |
| 005472 | 016001 | A | 389 | LDA | 1,2 | | 00 | 00388 |
| 005473 | 055001 | A | 390 | STA | 1,1 | SAVE CONTENTS OF LOC. X+1 AT TS03 | 00 | 00389 |
| 005474 | 006010 | A | 391 | LOAI | 02000 | OP CODE FOR JMPM | 00 | 00390 |
| 005475 | 002000 | A | | | | | | |
| 005476 | 056000 | A | 392 | STA | 0,2 | STORE JMPM AT LOC X | 00 | 00391 |
| 005477 | 006010 | A | 393 | LOAI | ETR2 | | 00 | 00392 |
| 005500 | 005546 | A | | | | | | |
| 005501 | 056001 | A | 394 | STA | 1,2 | STORE TRAP RETURN ADDRESS AT X+1 | 00 | 00393 |
| 005502 | 001000 | A | 395 | JMP | EG01 | LOAD PSEUDO REGISTERS AND GOTO LOC Y | 00 | 00394 |
| 005503 | 005754 | A | | | | | | |
| | | | 396 * | | | | 00 | 00395 |
| 005504 | 050443 | A | 397 | ETR3 | STA | EAR1 | 00 | 00396 |
| 005505 | 060444 | A | 398 | | STB | EBR1 | 00 | 00397 |
| 005506 | 070445 | A | 399 | | STX | EXR1 | 00 | 00398 |
| 005507 | 034036 | A | 400 | | LOX | ETR2 | 00 | 00399 |
| 005510 | 005344 | A | 401 | | DXR | | 00 | 00400 |
| 005511 | 005344 | A | 402 | | DXR | SET X REG TO TRAP LOCATION ADDRESS | 00 | 00401 |
| 005512 | 010450 | A | 403 | | LDA | ETS1+2 | 00 | 00402 |
| 005513 | 020451 | A | 404 | | LOB | ETS1+3 | 00 | 00403 |
| 005514 | 055000 | A | 405 | | STA | 0,1 | 00 | 00404 |
| 005515 | 068001 | A | 406 | | STB | 1,1 | 00 | 00405 |
| 005516 | 002000 | A | 407 | | CALL | OUTC | 00 | 00406 |
| 005517 | 007404 | A | | | | | | |
| 005520 | 005041 | A | 408 | | TXA | OUTPUT ADDR OF TRAP RETURN | 00 | 00407 |
| 005521 | 002000 | A | 409 | | CALL | OUTP | 00 | 00408 |
| 005522 | 007456 | A | | | | | | |
| 005523 | 010443 | A | 410 | | LDA | EAR1 | 00 | 00409 |
| 005524 | 002000 | A | 411 | | CALL | OUTE | 00 | 00410 |
| 005525 | 007416 | A | | | | | | |
| 005526 | 010444 | A | 412 | | LDA | EBR1 | 00 | 00411 |
| 005527 | 002000 | A | 413 | | CALL | OUTE | 00 | 00412 |
| 005530 | 007416 | A | | | | | | |
| 005531 | 010445 | A | 414 | | LDA | EXR1 | 00 | 00413 |



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|--------|--------|---|-----|------|--|--------|--------------------------------------|----|-------|
| 005532 | 002000 | A | 415 | | CALL | OUTE | PRINT CONTENTS OF PSEUDO X | 00 | 00414 |
| 005533 | 007416 | A | | | | | | | |
| 005534 | 001000 | A | 415 | | JMP | ETOP | RETURN TO EXEC SUPERVISOR | 00 | 00415 |
| 005535 | 006221 | A | | | | | | | |
| | | | 417 | * | | | | 00 | 00416 |
| 005536 | 056000 | A | 418 | ETR1 | STA | 0,2 | STORE PARAMETER X | 00 | 00417 |
| 005537 | 005123 | A | 419 | | INCR | 023 | INC PARAMETER PTR | 00 | 00418 |
| 005540 | 006140 | A | 420 | | SUBI | ETS1+1 | MORE THAN 1 X PARAMETER ? | 00 | 00419 |
| 005541 | 000447 | A | | | | | | | |
| 005542 | 001010 | A | 421 | | JAZ | ETRP+4 | NO CONTINUE | 00 | 00420 |
| 005543 | 005454 | A | | | | | | | |
| 005544 | 001000 | A | 422 | | JMP | EXIT | YES PRINT INVALID AND GO TO ETOP | 00 | 00421 |
| 005545 | 006323 | A | | | | | | | |
| | | | 423 | * | | | | 00 | 00422 |
| 005546 | 000000 | A | 424 | ETR2 | ENTR | 0 | | 00 | 00423 |
| 005547 | 001000 | A | 425 | | JMP | ETR3 | PROCESS TRAP RETURN | 00 | 00424 |
| 005550 | 005304 | A | | | | | | | |
| | | | 426 | * | | | | 00 | 00425 |
| | | | 427 | * | | | | 00 | 00426 |
| | | | 428 | * | | | | 00 | 00427 |
| | | | 429 | * | ESRC--SEARCH MEMORY FOR SPECIFIED VALUE. | | | 00 | 00428 |
| | | | 430 | * | PRINT LOCATION AND CONTENTS WHENR MATCH IS FOUND | | | 00 | 00429 |
| | | | 431 | * | | | | 00 | 00430 |
| | | | 432 | * | X=START ADDRESS | | | 00 | 00431 |
| | | | 433 | * | Y=FINAL ADDRESS | | | 00 | 00432 |
| | | | 434 | * | Z=SEARCH VALUE | | | 00 | 00433 |
| | | | 435 | * | M=MASK WORD | | | 00 | 00434 |
| | | | 436 | * | | | | 00 | 00435 |
| | | | 437 | * | FORMAT: SX,Y,Z,M. | | | 00 | 00436 |
| | | | 438 | * | | | | 00 | 00437 |
| | | | 439 | * | | | | 00 | 00438 |
| 005551 | 006020 | A | 440 | ESRC | LOBI | ETS1 | ADDRESS FOR STORING INPUT PARAMETERS | 00 | 00439 |
| 005552 | 000446 | A | | | | | | | |
| 005553 | 002000 | A | 441 | | CALL | INPG | GET OCTAL PARAMETER | 00 | 00440 |
| 005554 | 007250 | A | | | | | | | |
| 005555 | 001000 | A | 442 | | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00441 |
| 005556 | 006221 | A | | | | | | | |
| 005557 | 001000 | A | 443 | | JMP | ETOP | ABORT | 00 | 00442 |
| 005560 | 006221 | A | | | | | | | |
| 005561 | 001000 | A | 444 | | JMP | ESR5 | COMMA EXIT--GET NEXT PARAMETER | 00 | 00443 |
| 005562 | 005632 | A | | | | | | | |
| | | | 445 | * | NORMAL RETURN FROM INPG--A REG CONTAINS FOURTH PARAMETER | | | 00 | 00444 |

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|--------|--------|---|-----|------|------|--------|------------------------|----|-------|
| 005563 | 050451 | A | 446 | | STA | ETS1+3 | SAVE MASK WORD | 00 | 00445 |
| 005564 | 150450 | A | 447 | | ANA | ETS1+2 | MASK SEARCH VALUE | 00 | 00446 |
| 005565 | 050452 | A | 448 | | STA | ETS1+4 | MASKED SEARCH VALUE | 00 | 00447 |
| 005566 | 005021 | A | 449 | | T3A | | TEST NO. OF PARAMETERS | 00 | 00448 |
| 005567 | 006140 | A | 450 | | SUBI | ETS1+3 | * | 00 | 00449 |
| 005570 | 000451 | A | | | | | | | |
| 005571 | 001010 | A | 451 | | JAZ | **4 | * | 00 | 00450 |
| 005572 | 005575 | A | | | | | | | |
| 005573 | 001000 | A | 452 | | JMP | EXIT | *** | 00 | 00451 |
| 005574 | 006323 | A | | | | | | | |
| 005575 | 030446 | A | 453 | ESR4 | LDX | ETS1 | START ADDRESS | 00 | 00452 |
| 005576 | 015000 | A | 454 | | LDA | 0,1 | | 00 | 00453 |
| 005577 | 150451 | A | 455 | | ANA | ETS1+3 | MASK IT | 00 | 00454 |
| 005600 | 140452 | A | 456 | | SUB | ETS1+4 | | 00 | 00455 |
| 005601 | 001010 | A | 457 | | JAZ | ESR2 | GOOD COMPARE | 00 | 00456 |
| 005602 | 005614 | A | | | | | | | |
| 005603 | 040446 | A | 458 | ESR1 | INR | ETS1 | START ADDRESS | 00 | 00457 |
| 005604 | 001400 | A | 459 | | JSS3 | ETOP | RETURN TO SUPERVISOR | 00 | 00458 |
| 005605 | 006221 | A | | | | | | | |
| 005606 | 005041 | A | 460 | | TXA | | | 00 | 00459 |
| 005607 | 140447 | A | 461 | | SUB | ETS1+1 | END ADDRESS | 00 | 00460 |
| 005610 | 001002 | A | 462 | | JAP | ETOP | RETURN TO SUPERVISOR | 00 | 00461 |
| 005611 | 006221 | A | | | | | | | |
| 005612 | 001000 | A | 463 | | JMP | ESR4 | GET NEXT WORD | 00 | 00462 |
| 005613 | 005575 | A | | | | | | | |
| 005614 | 002000 | A | 464 | ESR2 | CALL | OUTC | CR/LF | 00 | 00463 |
| 005615 | 007404 | A | | | | | | | |
| 005616 | 010446 | A | 465 | | LDA | ETS1 | ADDRS OF WORD | 00 | 00464 |
| 005617 | 002000 | A | 466 | | CALL | OUTP | PRINT MEMORY ADDRESS | 00 | 00465 |
| 005620 | 007456 | A | | | | | | | |
| 005621 | 006010 | A | 467 | | LDAI | 1=1 | EQUAL SIGN | 00 | 00466 |
| 005622 | 000275 | A | | | | | | | |
| 005623 | 002000 | A | 468 | | CALL | OUTA | | 00 | 00467 |
| 005624 | 007334 | A | | | | | | | |
| 005625 | 015000 | A | 469 | | LDA | 0,1 | CONTENTS OF ADDRESS | 00 | 00468 |
| 005626 | 002000 | A | 470 | | CALL | OUTE | PRINT CONTENTS | 00 | 00469 |
| 005627 | 007416 | A | | | | | | | |
| 005630 | 001000 | A | 471 | | JMP | ESR1 | CONTINUE | 00 | 00470 |
| 005631 | 005603 | A | | | | | | | |
| 005632 | 056000 | A | 472 | ESR5 | STA | 0,2 | | 00 | 00471 |
| 005633 | 005122 | A | 473 | | IBR | | | 00 | 00472 |
| 005634 | 001000 | A | 474 | | JMP | ESRC+2 | GET NEXT PARAMETER | 00 | 00473 |

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|--------|--------|---|-----|---|--------------------------------------|------|------|----|----------|
| 005635 | 005553 | A | 475 | * | | | | 00 | 00474 |
| | | | 476 | * | | | | 00 | 00475 |
| | | | 477 | * | | | | 00 | 00476 |
| | | | 478 | * | | | | 00 | 00477 |
| | | | 479 | * | DISPLAY/CHANGE THE PSEUDO A REGISTER | | | 00 | 00478 |
| | | | 480 | * | | | | 00 | 00479 |
| 005636 | 006010 | A | 481 | | EARG | LDAI | 0240 | | 00 00480 |
| 005637 | 000240 | A | | | | | | | |
| 005640 | 002000 | A | 482 | | | CALL | OUTA | 00 | 00481 |
| 005641 | 007334 | A | | | | | | | |
| 005642 | 010443 | A | 483 | | LDA | EAR1 | | 00 | 00482 |
| 005643 | 002000 | A | 484 | | CALL | OUTE | | 00 | 00483 |
| 005644 | 007415 | A | | | | | | | |
| 005645 | 002000 | A | 485 | | CALL | INPG | | 00 | 00484 |
| 005646 | 007250 | A | | | | | | | |
| 005647 | 001000 | A | 486 | | JMP | ETOP | | 00 | 00485 |
| 005650 | 006221 | A | | | | | | | |
| 005651 | 001000 | A | 487 | | JMP | ETOP | | 00 | 00486 |
| 005652 | 006221 | A | | | | | | | |
| 005653 | 001000 | A | 488 | | JMP | *+2 | | 00 | 00487 |
| 005654 | 005655 | A | | | | | | | |
| | | | 489 | * | NORMAL RETURN FROM INPG | | | 00 | 00488 |
| 005655 | 050446 | A | 490 | | STA | ETS1 | | 00 | 00489 |
| 005656 | 010471 | A | 491 | | LDA | TS04 | | 00 | 00490 |
| 005657 | 001010 | A | 492 | | JAZ | ETOP | | 00 | 00491 |
| 005660 | 006221 | A | | | | | | | |
| 005661 | 010446 | A | 493 | | LDA | ETS1 | | 00 | 00492 |
| 005662 | 050443 | A | 494 | | STA | EAR1 | | 00 | 00493 |
| 005663 | 001000 | A | 495 | | JMP | ETOP | | 00 | 00494 |
| 005664 | 006221 | A | | | | | | | |
| | | | 496 | * | | | | 00 | 00495 |
| | | | 497 | * | | | | 00 | 00496 |
| | | | 498 | * | DISPLAY/CHANGE THE PSEUDO B REGISTER | | | 00 | 00497 |
| | | | 499 | * | | | | 00 | 00498 |
| | | | 500 | * | | | | 00 | 00499 |
| 005665 | 010454 | A | 501 | | EARG | LJA | EK00 | | 00 00500 |
| 005666 | 002000 | A | 502 | | | CALL | OUTA | 00 | 00501 |
| 005667 | 007334 | A | | | | | | | |
| 005670 | 010444 | A | 503 | | LDA | EBR1 | | 00 | 00502 |
| 005671 | 002000 | A | 504 | | CALL | OUTE | | 00 | 00503 |
| 005672 | 007415 | A | | | | | | | |



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|--------|--------|---|-----|------|--------------------------------------|--|--------------------|-------|-------|
| 005673 | 002000 | A | 505 | CALL | INPG | INPUT OCTAL AND/OR PERIOD | 00 | 00504 | |
| 005674 | 007250 | A | | | | | | | |
| 005675 | 001000 | A | 506 | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00505 | |
| 005676 | 006221 | A | | | | | | | |
| 005677 | 001000 | A | 507 | JMP | ETOP | ABORT EXIT | 00 | 00506 | |
| 005700 | 006221 | A | | | | | | | |
| 005701 | 001000 | A | 508 | JMP | **2 | COMMA EXIT--ACCEPT IT | 00 | 00507 | |
| 005702 | 005703 | A | | | | | | | |
| | | | 509 | * | NORMAL RETURN FROM INPG | | | 00 | 00508 |
| 005703 | 050446 | A | 510 | STA | ETS1 | SAVE INPUT | 00 | 00509 | |
| 005704 | 010471 | A | 511 | LDA | TS04 | TS04=DIGIT COUNTER FOR INPG | 00 | 00510 | |
| 005705 | 001010 | A | 512 | JAZ | ETOP | 0=NO OCTAL INPUT, RETURN TO SUPERVISOR | 00 | 00511 | |
| 005706 | 006221 | A | | | | | | | |
| 005707 | 010446 | A | 513 | LDA | ETS1 | | 00 | 00512 | |
| 005710 | 050444 | A | 514 | STA | EBR1 | STORE NEW VALUE IN PSEUDO B | 00 | 00513 | |
| 005711 | 001000 | A | 515 | JMP | ETOP | RETURN TO SUPERVISOR | 00 | 00514 | |
| 005712 | 006221 | A | | | | | | | |
| | | | 516 | * | | | 00 | 00515 | |
| | | | 517 | * | | | 00 | 00516 | |
| | | | 518 | * | DISPLAY/CHANGE THE PSEUDO X REGISTER | | | 00 | 00517 |
| | | | 519 | * | | | 00 | 00518 | |
| | | | 520 | * | | | 00 | 00519 | |
| 005713 | 010454 | A | 521 | EXRG | LDA | EK00 | ASCII BLANK(SPACE) | 00 | 00520 |
| 005714 | 002000 | A | 522 | | CALL | OUTA | | 00 | 00521 |
| 005715 | 007334 | A | | | | | | | |
| 005716 | 010445 | A | 523 | LDA | EXR1 | LOAD PSEUDO X | 00 | 00522 | |
| 005717 | 002000 | A | 524 | | CALL | OUTE | PRINT CONTENTS | 00 | 00523 |
| 005720 | 007416 | A | | | | | | | |
| 005721 | 002000 | A | 525 | CALL | INPG | INPUT OCTAL AND/OR PERIOD | 00 | 00524 | |
| 005722 | 007250 | A | | | | | | | |
| 005723 | 001000 | A | 526 | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00525 | |
| 005724 | 006221 | A | | | | | | | |
| 005725 | 001000 | A | 527 | JMP | ETOP | ABORT | 00 | 00526 | |
| 005726 | 006221 | A | | | | | | | |
| 005727 | 001000 | A | 528 | JMP | **2 | COMA EXIT--ACCEPT IT | 00 | 00527 | |
| 005730 | 005731 | A | | | | | | | |
| | | | 529 | * | NORMAL RETURN FROM INPG | | | 00 | 00528 |
| 005731 | 050446 | A | 530 | STA | ETS1 | SAVE INPUT | 00 | 00529 | |
| 005732 | 010471 | A | 531 | LDA | TS04 | TS04=DIGIT COUNTER FOR INPG | 00 | 00530 | |
| 005733 | 001010 | A | 532 | JAZ | ETOP | 0=NO OCTAL INPUT, RETURN TO SUPERVISOR | 00 | 00531 | |
| 005734 | 006221 | A | | | | | | | |
| 005735 | 010446 | A | 533 | LDA | ETS1 | | 00 | 00532 | |



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|--------|--------|---|-----|------|--------|--|----|-------|
| 005735 | 050445 | A | 534 | STA | EXR1 | STORE NEW VALUE IN PSEUDO X | 00 | 00533 |
| 005737 | 001000 | A | 535 | JMP | ETOP | RETURN TO SUPERVISOR | 00 | 00534 |
| 005740 | 006221 | A | | | | | | |
| | | | 536 | * | | | 00 | 00535 |
| | | | 537 | * | | | 00 | 00536 |
| | | | 538 | * | | | 00 | 00537 |
| | | | 539 | * | | | 00 | 00538 |
| | | | 540 | * | | | 00 | 00539 |
| | | | 541 | * | | EGOT--LOAD PSEUDO REGISTERS INTO A,B,X AND TRANSFER TO | 00 | 00540 |
| | | | 542 | * | | LOCATION SPECIFIED BY USER. | 00 | 00541 |
| | | | 543 | * | | THE PSEUDO REGISTERS CAN BE PRESET WITH THE A,B,X | 00 | 00542 |
| | | | 544 | * | | UTILITY FUNCTIONS. | 00 | 00543 |
| | | | 545 | * | | | 00 | 00544 |
| | | | 546 | * | | | 00 | 00545 |
| 005741 | 002000 | A | 547 | EGOT | CALL | INPG | 00 | 00546 |
| | | | | | | INPUT OCTAL NUMBER | | |
| 005742 | 007250 | A | | | | | | |
| 005743 | 001000 | A | 548 | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00547 |
| 005744 | 006221 | A | | | | | | |
| 005745 | 001000 | A | 549 | JMP | ETOP | ABORT | 00 | 00548 |
| 005746 | 006221 | A | | | | | | |
| 005747 | 001000 | A | 550 | JMP | **2 | COMMA EXIT--ACCEPT IT | 00 | 00549 |
| 005750 | 005751 | A | | | | | | |
| | | | 551 | * | | NORMAL RETURN FROM INPG | 00 | 00550 |
| 005751 | 050447 | A | 552 | STA | ETS1+1 | | 00 | 00551 |
| 005752 | 002000 | A | 553 | CALL | OUTC | OO A CR + LF | 00 | 00552 |
| 005753 | 007404 | A | | | | | | |
| 005754 | 010443 | A | 554 | EGO1 | LOA | EAR1 | 00 | 00553 |
| | | | | | | LOAD PSEUDO A REG. | | |
| 005755 | 020444 | A | 555 | LOB | EBR1 | LOAD PSEUDO B REG. | 00 | 00554 |
| 005756 | 030445 | A | 556 | LOX | EXR1 | LOAD PSEUDO X REG. | 00 | 00555 |
| 005757 | 001000 | A | 557 | JMP* | ETS1+1 | | 00 | 00556 |
| 005760 | 100447 | A | | | | | | |
| | | | 558 | * | | DUMP CORE MEMORY TO TTY PRINTER | 00 | 00557 |
| | | | 559 | * | | | 00 | 00558 |
| 005761 | 002000 | A | 560 | EDUM | CALL | INPG | 00 | 00559 |
| | | | | | | INPUT START LOCATION (OCTAL) | | |
| 005762 | 007250 | A | | | | | | |
| 005763 | 001000 | A | 561 | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00560 |
| 005764 | 006221 | A | | | | | | |
| 005765 | 001000 | A | 562 | JMP | ETOP | ABORT | 00 | 00561 |
| 005768 | 006221 | A | | | | | | |
| 005767 | 001000 | A | 563 | JMP | **2 | COMMA EXIT--ACCEPT IT | 00 | 00562 |
| 005770 | 005771 | A | | | | | | |
| | | | 564 | * | | NORMAL RETURN FROM INPG | 00 | 00563 |



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|--------|--------|---|-------|------|------|------|--|----|-------|
| 005771 | 050446 | A | 565 | | STA | ETS1 | | 00 | 00564 |
| 005772 | 002000 | A | 566 | | CALL | OUTC | OUTPUT CR & LF | 00 | 00565 |
| 005773 | 007404 | A | | | | | | | |
| 005774 | 010446 | A | 567 | | LOA | ETS1 | | 00 | 00566 |
| 005775 | 005014 | A | 568 | | TAX | | | 00 | 00567 |
| 005776 | 002000 | A | 569 | EDU1 | CALL | OUTF | OUTPUT MEMORY ADDRESS | 00 | 00568 |
| 005777 | 007456 | A | | | | | | | |
| 006000 | 010454 | A | 570 | | LOA | EK00 | ASCII BLANK(SPACE) | 00 | 00569 |
| 006001 | 002000 | A | 571 | | CALL | OUTA | | 00 | 00570 |
| 006002 | 007334 | A | | | | | | | |
| 006003 | 015000 | A | 572 | EDU2 | LOA | 0,1 | | 00 | 00571 |
| 006004 | 002000 | A | 573 | | CALL | OUTE | PRINT LOCATION CONTENTS | 00 | 00572 |
| 006005 | 007416 | A | | | | | | | |
| 006006 | 001400 | A | 574 | | JSS3 | ETOP | | 00 | 00573 |
| 006007 | 006221 | A | | | | | | | |
| 006010 | 005146 | A | 575 | | INCR | 045 | INCREMENT X AND PUT INTO A&X | 00 | 00574 |
| 006011 | 005002 | A | 576 | | TZB | | | 00 | 00575 |
| 006012 | 004543 | A | 577 | | LLSR | 3 | LINE LENGTH IS 8 LOCATIONS | 00 | 00576 |
| 006013 | 001020 | A | 578 | | JBZ | EDU4 | NEXT LINE | 00 | 00577 |
| 006014 | 006017 | A | | | | | | | |
| 006015 | 001000 | A | 579 | | JMP | EDU2 | NEXT WORD | 00 | 00578 |
| 006016 | 006003 | A | | | | | | | |
| | | | 580 * | | | | | 00 | 00579 |
| 006017 | 002000 | A | 581 | EDU4 | CALL | OUTC | OUTPUT CR & LF | 00 | 00580 |
| 006020 | 007404 | A | | | | | | | |
| 006021 | 005041 | A | 582 | | TXA | | | 00 | 00581 |
| 006022 | 001000 | A | 583 | | JMP | EDU1 | | 00 | 00582 |
| 006023 | 005776 | A | | | | | | | |
| | | | 584 * | | | | | 00 | 00583 |
| | | | 585 * | | | | | 00 | 00584 |
| | | | 586 * | | | | | 00 | 00585 |
| | | | 587 * | | | | | 00 | 00586 |
| | | | 588 * | | | | | 00 | 00587 |
| | | | 589 * | | | | PRINT/CHANGE CONTENTS OF MEMORY LOCATION SPECIFIED BY USER | 00 | 00588 |
| | | | 590 * | | | | | 00 | 00589 |
| | | | 591 * | | | | | 00 | 00590 |
| 006024 | 002000 | A | 592 | ECNG | CALL | INPG | INPUT OCTAL MEMORY ADDRESS | 00 | 00591 |
| 006025 | 007250 | A | | | | | | | |
| 006026 | 001000 | A | 593 | | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00592 |
| 006027 | 006221 | A | | | | | | | |
| 006030 | 001000 | A | 594 | | JMP | ETOP | ABORT | 00 | 00593 |
| 006031 | 006221 | A | | | | | | | |

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| 006032 | 001000 | A | 595 | JMP | **2 | COMMA EXIT--ACCEPT IT | 00 | 00594 |
| 006033 | 006034 | A | | | | | | |
| | | | 596 * | NORMAL RETURN FROM INPG | | | 00 | 00595 |
| 006034 | 005014 | A | 597 | TAX | | | 00 | 00596 |
| 006035 | 006010 | A | 598 | ECN3 | LOAI | 1=1 | 00 | 00597 |
| 006036 | 000275 | A | | | | | | |
| 006037 | 002000 | A | 599 | CALL | OUTA | | 00 | 00598 |
| 006040 | 007334 | A | | | | | | |
| 006041 | 015000 | A | 600 | LDA | 0,1 | | 00 | 00599 |
| 006042 | 002000 | A | 601 | CALL | OUTE | OUTPUT OCTAL WORD | 00 | 00600 |
| 006043 | 007416 | A | | | | | | |
| 006044 | 002000 | A | 602 | CALL | INPG | INPUT OCTAL WORD | 00 | 00601 |
| 006045 | 007250 | A | | | | | | |
| 006046 | 001000 | A | 603 | JMP | ETOP | TERMINATION EXIT VIA SS3 | 00 | 00602 |
| 006047 | 006221 | A | | | | | | |
| 006050 | 001000 | A | 604 | JMP | ETOP | ABORT | 00 | 00603 |
| 006051 | 006221 | A | | | | | | |
| 006052 | 001000 | A | 605 | JMP | ECN2 | COMMA EXIT--PRINT NEXT LOCATION & CONTENTS | 00 | 00604 |
| 006053 | 006064 | A | | | | | | |
| | | | 606 * | NORMAL RETURN FROM INPG WITH PERIOD | | | 00 | 00605 |
| 006054 | 050446 | A | 607 | STA | ETS1 | SAVE INPUT | 00 | 00606 |
| 006055 | 010471 | A | 608 | LDA | TS04 | TS04=DIGIT COUNTER FOR INPG | 00 | 00607 |
| 006056 | 001010 | A | 609 | JAZ | **4 | | 00 | 00608 |
| 006057 | 006062 | A | | | | | | |
| 006060 | 010446 | A | 610 | LDA | ETS1 | GET LAST INPUT | 00 | 00609 |
| 006061 | 055000 | A | 611 | STA | 0,1 | | 00 | 00610 |
| 006062 | 001000 | A | 612 | JMP | ETOP | | 00 | 00611 |
| 006063 | 006221 | A | | | | | | |
| | | | 613 * | | | | 00 | 00612 |
| 006064 | 050446 | A | 614 | ECN2 | STA | ETS1 | 00 | 00613 |
| 006065 | 010471 | A | 615 | LDA | TS04 | TS04=DIGIT COUNTER FOR INPG | 00 | 00614 |
| 006066 | 001010 | A | 616 | JAZ | **4 | | 00 | 00615 |
| 006067 | 006072 | A | | | | | | |
| 006070 | 010446 | A | 617 | LDA | ETS1 | GET LAST INPUT | 00 | 00616 |
| 006071 | 055000 | A | 618 | STA | 0,1 | STORE NEW VALUE IN LOCATION | 00 | 00617 |
| 006072 | 002000 | A | 619 | CALL | OUTC | CR & LF | 00 | 00618 |
| 006073 | 007404 | A | | | | | | |
| 006074 | 005145 | A | 620 | INCR | 045 | INCREMENT X AND PUT INTO A AND X | 00 | 00619 |
| 006075 | 002000 | A | 621 | CALL | OUTF | PRINT NEXT MEMORY ADDRESS | 00 | 00620 |
| 006076 | 007456 | A | | | | | | |
| 006077 | 001000 | A | 622 | JMP | ECN3 | PRINT CONTENTS | 00 | 00621 |
| 006100 | 006035 | A | | | | | | |



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| | | | 623 | * | | | | | 00 | 00622 |
| | | | 624 | * | | | | | 00 | 00623 |
| | | | 625 | * | | | | | 00 | 00624 |
| | | | 626 | * | | | | | 00 | 00625 |
| | | | 627 | * | | | | | 00 | 00626 |
| | | | 628 | ***** | | | | | 00 | 00627 |
| | | | 629 | * | | | | | 00 | 00628 |
| 006150 | | | 630 | | DRG | 06150 | | | 00 | 00629 |
| | | | 631 | * | | | | | 00 | 00630 |
| | | | 632 | ***** | | | | | 00 | 00631 |
| | | | 633 | * | | | | | 00 | 00632 |
| 006150 | 001000 | A | 634 | EBGN | JMP | EBG1 | TTY ENTRY | | 00 | 00633 |
| 006151 | 006171 | A | | | | | | | | |
| 006152 | 005001 | A | 635 | TZA | | | CONSOLE ENTRY | | 00 | 00634 |
| 006153 | 050442 | A | 636 | STA | SCON | | * SCON = 0 | | 00 | 00635 |
| 006154 | 002000 | A | 637 | CALL | ESZC | | * | | 00 | 00636 |
| 006155 | 006161 | A | | | | | | | | |
| 006156 | 000000 | A | 638 | HLT | | | * | | 00 | 00637 |
| 006157 | 001000 | A | 639 | JMP | *=1 | | ***** | | 00 | 00638 |
| 006160 | 006156 | A | | | | | | | | |
| 006161 | 000000 | A | 640 | ESZC | ENTR | 0 | DETERMINE MEMORY SIZE | | 00 | 00639 |
| 006162 | 002000 | A | 641 | CALL | ESZA | | * | | 00 | 00640 |
| 006163 | 006471 | A | | | | | | | | |
| 006164 | 050441 | A | 642 | STA | SMEM | | * | | 00 | 00641 |
| 006165 | 002000 | A | 643 | CALL | ESZB | | * | | 00 | 00642 |
| 006166 | 006522 | A | | | | | | | | |
| 006167 | 001000 | A | 644 | JMP | (ESZC)* | | ***** EXIT | | 00 | 00643 |
| 006170 | 106161 | A | | | | | | | | |
| 006171 | 005101 | A | 645 | EBG1 | INCR | 01 | TTY MODE | | 00 | 00644 |
| 006172 | 050442 | A | 646 | STA | SCON | | * SCON = 01 | | 00 | 00645 |
| 006173 | 002000 | A | 647 | CALL | ESZC | | * STTY = 01, UNLESS SET | | 00 | 00646 |
| 006174 | 006161 | A | | | | | | | | |
| 006175 | 005101 | A | 648 | INCR | 01 | | * BY | | 00 | 00647 |
| 006176 | 000000 | A | 649 | HLT | | | * OPERATOR | | 00 | 00648 |
| 006177 | 006030 | A | 650 | LOXI | STTY | | | | 00 | 00649 |
| 006200 | 007370 | A | | | | | | | | |
| 006201 | 055000 | A | 651 | STA | 0,1 | | | | 00 | 00650 |
| 006202 | 001004 | A | 652 | JAN | 06152 | | CONSOLE MODE IF TTY DA = | | 00 | 00651 |
| 006203 | 006152 | A | | | | | | | | |
| | | | 653 | * | USER MUST LOAD AND EXECUTE TESTS FROM CPU CONSOLE | | | | 00 | 00652 |
| 006204 | 002000 | A | 654 | EBG2 | CALL | OUTH,0201 | PRINT ENABLE | | 00 | 00653 |
| 006205 | 007522 | A | | | | | | | | |

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|--------|--------|---|-----|------|---------------------------|--------------------------------|--------------------|-------|-------|
| 006206 | 000201 | A | | | | | | | |
| 006207 | 002000 | A | 655 | CALL | OUTC | OUTPUT CR&LF | 00 | 00654 | |
| 006210 | 007404 | A | | | | | | | |
| 006211 | 006030 | A | 656 | LOXI | MSG1 | THIS IS THE 620 TEST EXECUTIVE | 00 | 00655 | |
| 006212 | 006413 | A | | | | | | | |
| 006213 | 002000 | A | 657 | CALL | OUTD | OUTPUT MESSAGE | 00 | 00656 | |
| 006214 | 007445 | A | | | | | | | |
| 006215 | 006030 | A | 658 | LOXI | MSG3 | MESSAGE: MEMORY SIZE IS --K | 00 | 00657 | |
| 006216 | 006447 | A | | | | | | | |
| 006217 | 002000 | A | 659 | CALL | OUTD | OUTPUT MESSAGE | 00 | 00658 | |
| 006220 | 007445 | A | | | | | | | |
| | | | 660 | * | | | 00 | 00659 | |
| | | | 661 | * | | | 00 | 00660 | |
| | | | 662 | * | | | 00 | 00661 | |
| | | | 663 | * | TEST EXECUTIVE SUPERVISOR | | 00 | 00662 | |
| | | | 664 | * | | | 00 | 00663 | |
| 006221 | 006010 | A | 665 | ETOP | LOAI | 0207 | TTY BELL | 00 | 00664 |
| 006222 | 000207 | A | | | | | | | |
| 006223 | 002000 | A | 666 | CALL | OUTA | OUTPUT | 00 | 00665 | |
| 006224 | 007334 | A | | | | | | | |
| 006225 | 002000 | A | 667 | CALL | OUTH,0201 | PRINT ENABLE | 00 | 00666 | |
| 006226 | 007522 | A | | | | | | | |
| 006227 | 000201 | A | | | | | | | |
| 006230 | 002000 | A | 668 | CALL | INPI | INIT TTY | 00 | 00667 | |
| 006231 | 007331 | A | | | | | | | |
| 006232 | 002000 | A | 669 | CALL | OUTC | | 00 | 00668 | |
| 006233 | 007404 | A | | | | | | | |
| 006234 | 002000 | A | 670 | CALL | INPB | INPUT ONE CHARACTER | 00 | 00669 | |
| 006235 | 006753 | A | | | | | | | |
| 006236 | 001000 | A | 671 | JMP | ETOP | ABORT EXIT | 00 | 00670 | |
| 006237 | 006221 | A | | | | | | | |
| 006240 | 054011 | A | 672 | STA | ET04+1 | SAVE INPUT | 00 | 00671 | |
| 006241 | 006140 | A | 673 | SUBI | 0212 | LINE FEED CODE | 00 | 00672 | |
| 006242 | 000212 | A | | | | | | | |
| 006243 | 001010 | A | 674 | JAZ | ETOP | YES | 00 | 00673 | |
| 006244 | 006221 | A | | | | | | | |
| 006245 | 006140 | A | 675 | SUBI | 3 | CARRIAGE RETURN(0215) | 00 | 00674 | |
| 006246 | 000003 | A | | | | | | | |
| 006247 | 001010 | A | 676 | JAZ | ETOP | YES | 00 | 00675 | |
| 006250 | 006221 | A | | | | | | | |
| 006251 | 006010 | A | 677 | ET04 | LOAI | 0 | GET ORIGINAL INPUT | 00 | 00676 |
| 006252 | 000000 | A | | | | | | | |



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| 006253 | 006140 | A | 678 | SUBI | IAI | | | 00 | 00677 |
| 006254 | 000301 | A | | | | | | | |
| 006255 | 001004 | A | 679 | JAN | EXIT | INVALID INPUT | | 00 | 00678 |
| 006256 | 006323 | A | | | | | | | |
| 006257 | 006140 | A | 680 | SUBI | 032 | Z CHAR | | 00 | 00679 |
| 006260 | 000032 | A | | | | | | | |
| 006261 | 001002 | A | 681 | JAP | EXIT | INVALID INPUT | | 00 | 00680 |
| 006262 | 006323 | A | | | | | | | |
| 006263 | 006120 | A | 682 | ADDI | (ETBL+032)* | INDIRECT ADDRESS POINTER FOR UTILITY TABLE | | 00 | 00681 |
| 006264 | 106323 | A | | | | | | | |
| 006265 | 054002 | A | 683 | STA | **3 | | | 00 | 00682 |
| 006266 | 005007 | A | 684 | ZERO | 7 | CLEAR REGISTERS A,B,X | | 00 | 00683 |
| 006267 | 001000 | A | 685 | JMP | * | | | 00 | 00684 |
| 006270 | 006267 | A | | | | | | | |
| 006271 | 005636 | A | 686 | ETBL | DATA | EARG | A | PRINT/CHANGE PSEUDO A REG | 00 00685 |
| 006272 | 005665 | A | 687 | | DATA | EBRG | B | PRINT/CHANGE PSEUDO B REG | 00 00686 |
| 006273 | 006024 | A | 688 | | DATA | ECNG | C | PRINT/CHANGE MEMORY LOCATION | 00 00687 |
| 006274 | 005761 | A | 689 | | DATA | EDUM | D | DUMP CORE TO TTY PRINTER | 00 00688 |
| 006275 | 005136 | A | 690 | | DATA | EBPN | E | BINARY DUMP | 00 00689 |
| 006276 | 006323 | A | 691 | | DATA | EXIT | F | NOT USED | 00 00690 |
| 006277 | 005741 | A | 692 | | DATA | EGOT | G | TRANSFER TO SPECIFIED LOCATION | 00 00691 |
| 006300 | 006323 | A | 693 | | DATA | EXIT | H | NOT USED | 00 00692 |
| 006301 | 005404 | A | 694 | | DATA | INIT | I | INITIALIZE CORE | 00 00693 |
| 006302 | 006323 | A | 695 | | DATA | EXIT | J | NOT USED | 00 00694 |
| 006303 | 006323 | A | 696 | | DATA | EXIT | K | NOT USED | 00 00695 |
| 006304 | 006327 | A | 697 | | DATA | ELOD | L | LOAD OBJECT TAPE AND TRANSFER TO PROGRAM | 00 00696 |
| 006305 | 006323 | A | 698 | | DATA | EXIT | M | NOT USED | 00 00697 |
| 006306 | 006323 | A | 699 | | DATA | EXIT | N | NOT USED | 00 00698 |
| 006307 | 006323 | A | 700 | | DATA | EXIT | O | NOT USED | 00 00699 |
| 006310 | 005100 | A | 701 | | DATA | EPUN | P | PUNCH A PAPER TAPE ON TTY PUNCH | 00 00700 |
| 006311 | 006323 | A | 702 | | DATA | EXIT | Q | NOT USED | 00 00701 |
| 006312 | 006323 | A | 703 | | DATA | EXIT | R | NOT USED | 00 00702 |
| 006313 | 005551 | A | 704 | | DATA | ESRC | S | SEARCH MEMORY | 00 00703 |
| 006314 | 005450 | A | 705 | | DATA | ETRP | T | TRAP | 00 00704 |
| 006315 | 006323 | A | 706 | | DATA | EXIT | U | NOT USED | 00 00705 |
| 006316 | 006323 | A | 707 | | DATA | EXIT | V | NOT USED | 00 00706 |
| 006317 | 006323 | A | 708 | | DATA | EXIT | W | NOT USED | 00 00707 |
| 006320 | 005713 | A | 709 | | DATA | EXRG | X | PRINT/CHANGE PSEUDO X REG | 00 00708 |
| 006321 | 006323 | A | 710 | | DATA | EXIT | Y | NOT USED | 00 00709 |
| 006322 | 006323 | A | 711 | | DATA | EXIT | Z | NOT USED | 00 00710 |
| | | | 712 | * | | | | | 00 00711 |
| | | | 713 | * | | | | | 00 00712 |



| | | | | | | | |
|--------|--------|---|-------|---|------|------------------------------|----------|
| | | | 714 * | | | | 00 00713 |
| | | | 715 * | | | | 00 00714 |
| 006323 | 002000 | A | 716 | EXIT CALL | OUTG | PRINT INVALID & CR/LF | 00 00715 |
| 006324 | 007475 | A | | | | | |
| 006325 | 001000 | A | 717 | JMP | ETOP | RETURN TO TOP OF SUPERVISOR | 00 00716 |
| 006326 | 006221 | A | | | | | |
| | | | 718 * | | | | 00 00717 |
| | | | 719 * | | | | 00 00718 |
| | | | 720 * | | | | 00 00719 |
| | | | 721 * | | | | 00 00720 |
| | | | 722 * | ELUD--LOAD OBJECT TAPE AND TRANSFER TO TEST PROGRAM | | | 00 00721 |
| | | | 723 * | | | | 00 00722 |
| | | | 724 * | | | | 00 00723 |
| 006327 | 002000 | A | 725 | ELUD CALL | INPF | INPUT PERIOD | 00 00724 |
| 006330 | 007170 | A | | | | | |
| 006331 | 001000 | A | 726 | JMP | ETOP | TERMINATE EXIT | 00 00725 |
| 006332 | 006221 | A | | | | | |
| 006333 | 001000 | A | 727 | JMP | ETOP | ABORT EXIT | 00 00726 |
| 006334 | 006221 | A | | | | | |
| 006335 | 001000 | A | 728 | JMP | ETOP | DELETE PREVIOUS CHAR EXIT | 00 00727 |
| 006336 | 006221 | A | | | | | |
| 006337 | 001000 | A | 729 | JMP | **2 | COMMA RETURN--ACCEPT IT | 00 00728 |
| 006340 | 006341 | A | | | | | |
| | | | 730 * | NOEMAL RETURN FROM INPF WITH PERIOD | | | 00 00729 |
| 006341 | 005101 | A | 731 | INCR | 01 | SET A10 FOR LOAD AND EXECUTE | 00 00730 |
| 006342 | 002000 | A | 732 | JMP* | LOAD | GO TO BINARY LOADER | 00 00731 |
| 006343 | 100470 | A | | | | | |
| 006344 | 005042 | A | 733 | TXB | | SAVE X | 00 00732 |
| 006345 | 006030 | A | 734 | LXI | MSG2 | MESSAGE: CHECKSUM ERROR | 00 00733 |
| 006346 | 006434 | A | | | | | |
| 006347 | 002000 | A | 735 | CALL | OUTD | PRINT MESSAGE | 00 00734 |
| 006350 | 007445 | A | | | | | |
| 006351 | 005021 | A | 736 | TBA | | OUTPUT X | 00 00735 |
| 006352 | 002000 | A | 737 | CALL | OUTE | | 00 00736 |
| 006353 | 007416 | A | | | | | |
| 006354 | 001000 | A | 738 | JMP | ETOP | EXEC SUPERVISOR | 00 00737 |
| 006355 | 006221 | A | | | | | |
| | | | 739 * | | | | 00 00738 |
| | | | 740 * | | | | 00 00739 |
| | | | 741 * | | | | 00 00740 |
| | | | 742 * | | | | 00 00741 |
| | | | 743 * | | | | 00 00742 |

| | | | | | | | | |
|--------|--------|---|-------|------|------|--|----|-------|
| | | | 744 * | | | TYPICAL POWER UP/DOWN SUBROUTINE | 00 | 00743 |
| | | | 745 * | | | POWER DOWN INTERRUPT ADDRESS 040 | 00 | 00744 |
| | | | 746 * | | | POWER UP INTERRUPT ADDRESS 042 | 00 | 00745 |
| | | | 747 * | | | | 00 | 00746 |
| | | | 748 * | | | POWER DOWN PROCESSOR | 00 | 00747 |
| | | | 749 * | | | | 00 | 00748 |
| 006356 | 000000 | A | 750 | PWDN | ENTR | 0 | 00 | 00749 |
| 006357 | 054026 | A | 751 | | STA | SAVA SAVE A, B AND X REGISTERS | 00 | 00750 |
| 006360 | 064026 | A | 752 | | STB | SAVB | 00 | 00751 |
| 006361 | 074026 | A | 753 | | STX | SAVX | 00 | 00752 |
| 006362 | 005001 | A | 754 | | TZA | CHECK AND SAVE OVER-FLOW CONDITION | 00 | 00753 |
| 006363 | 005511 | A | 755 | | DATA | 005511 INCREMENT A IF OVERFLOW SET | 00 | 00754 |
| 006364 | 054024 | A | 756 | | STA | SAVD | 00 | 00755 |
| 006365 | 044024 | A | 757 | | INR | HLTF SET POWER FAIL/RESTRY FLAG, | 00 | 00756 |
| 006366 | 040472 | A | 758 | | INR | PWRK STEP POWER FAIL COUNTER | D | ***** |
| 006367 | 000000 | A | 759 | PHLT | HLT | | 00 | 00757 |
| | | | 760 * | | | | 00 | 00758 |
| | | | 761 * | | | POWER UP PROCESSOR | 00 | 00759 |
| | | | 762 * | | | | 00 | 00760 |
| 006370 | 014021 | A | 763 | PWRU | LDA | HLTF CHECK IF POWERING UP FROM RUN CONDITION | 00 | 00761 |
| 006371 | 001010 | A | 764 | | JAZ | PHLT | 00 | 00762 |
| 006372 | 006367 | A | | | | | | |
| 006373 | 005001 | A | 765 | | TZA | CLEAR POWER FAIL/RESTRY FLAG | 00 | 00763 |
| 006374 | 054015 | A | 766 | | STA | HLTF | 00 | 00764 |
| | | | 767 * | | | | 00 | 00765 |
| | | | 768 * | | | CODING TO REINSTATE 620/F OPTIONAL HARDWARE AFTER A | 00 | 00766 |
| | | | 769 * | | | POWER FAILURE, MUST BE DEFINED HERE. THE TOTAL EXECUTION | 00 | 00767 |
| | | | 770 * | | | TIME NOT TO EXCEED A SPECIFIED TIME PERIOD. SEE PPS | 00 | 00768 |
| | | | 771 * | | | FOR TIMING CONSTRAINTS. | 00 | 00769 |
| 006375 | 014013 | A | 772 | | LDA | SAVD SETUP OVERFLOW FLAG | 00 | 00770 |
| 006376 | 001010 | A | 773 | | JAZ | *+3 | 00 | 00771 |
| 006377 | 006401 | A | | | | | | |
| 006400 | 007401 | A | 774 | | SJF | | 00 | 00772 |
| 006401 | 014004 | A | 775 | | LDA | SAVA RETURN A, B AND X REGISTERS | 00 | 00773 |
| 006402 | 024004 | A | 776 | | LDB | SAVB | 00 | 00774 |
| 006403 | 034004 | A | 777 | | LDX | SAVX | 00 | 00775 |
| 006404 | 001000 | A | 778 | | JMP* | PWDN RETURN TO LOCATION INTERRUPTED FROM | 00 | 00776 |
| 006405 | 106356 | A | | | | | | |
| | | | 779 * | | | | 00 | 00777 |
| 006406 | 000000 | A | 780 | SAVA | DATA | 0 | 00 | 00778 |
| 006407 | 000000 | A | 781 | SAVB | DATA | 0 | 00 | 00779 |
| 006410 | 000000 | A | 782 | SAVX | DATA | 0 | 00 | 00780 |



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|--------|--------|---|-----|------|---------------|--|----|-------|
| 006411 | 000000 | A | 783 | SAVD | DATA | 0 | 00 | 00781 |
| 006412 | 000000 | A | 784 | HLTF | DATA | 0 | 00 | 00782 |
| | | | 785 | * | | | 00 | 00783 |
| | | | 786 | * | | | 00 | 00784 |
| | | | 787 | * | | | 00 | 00785 |
| | | | 788 | * | | | 00 | 00786 |
| | | | 789 | * | | | 00 | 00787 |
| | | | 790 | * | MESSAGE TABLE | | 00 | 00788 |
| | | | 791 | * | | | 00 | 00789 |
| 006413 | 152310 | A | 792 | MSG1 | DATA | 'THIS IS THE 620 TEST EXECUTIVE',0106612,0 | 00 | 00790 |
| 006414 | 144723 | A | | | | | | |
| 006415 | 120311 | A | | | | | | |
| 006416 | 151640 | A | | | | | | |
| 006417 | 152310 | A | | | | | | |
| 006420 | 142640 | A | | | | | | |
| 006421 | 133262 | A | | | | | | |
| 006422 | 130240 | A | | | | | | |
| 006423 | 152305 | A | | | | | | |
| 006424 | 151724 | A | | | | | | |
| 006425 | 120305 | A | | | | | | |
| 006426 | 154305 | A | | | | | | |
| 006427 | 141725 | A | | | | | | |
| 006430 | 152311 | A | | | | | | |
| 006431 | 153305 | A | | | | | | |
| 006432 | 106612 | A | | | | | | |
| 006433 | 000000 | A | | | | | | |
| 006434 | 141710 | A | 793 | MSG2 | DATA | 'CHECKSUM ERROR X = 1,0 | 00 | 00791 |
| 006435 | 142703 | A | | | | | | |
| 006436 | 145723 | A | | | | | | |
| 006437 | 152715 | A | | | | | | |
| 006440 | 120305 | A | | | | | | |
| 006441 | 151322 | A | | | | | | |
| 006442 | 147722 | A | | | | | | |
| 006443 | 120240 | A | | | | | | |
| 006444 | 154240 | A | | | | | | |
| 006445 | 136640 | A | | | | | | |
| 006448 | 000000 | A | | | | | | |
| 006447 | 148705 | A | 794 | MSG3 | DATA | 'MEMORY SIZE IS 1 | 00 | 00792 |
| 006450 | 148717 | A | | | | | | |
| 006451 | 151331 | A | | | | | | |
| 006452 | 120323 | A | | | | | | |
| 006453 | 144732 | A | | | | | | |




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006454 142640 A
006455 144723 A
006456 120240 A
006457 126655 A 795 MSG4 DATA '=-K',0106612,0 00 00793
006460 145640 A
006461 106612 A
006462 000000 A
006463 120240 A 796 MSG5 DATA ' INVALID',0 00 00794
006464 144716 A
006465 153301 A
006466 146311 A
006467 142240 A
006470 000000 A

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797 * 00 00795
798 * 00 00796
799 * ROUTINE FOR DETERMINING CORE SIZE 00 00797
800 * 00 00798

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006471 000000 A 801 ESZA ENTR 0 00 00799
006472 100545 A 802 EXC 0545 DISABLE MEMORY PARITY INT, 00 00800
006473 010000 A 803 LJA 0 00 00801
006474 050002 A 804 STA 2 SAVE CONTENTS OF LOCATION ZERO 00 00802
006475 005001 A 805 TZA 00 00803
006476 050000 A 806 STA 0 00 00804
006477 005311 A 807 DAR A=01 00 00805
006500 006120 A 808 ESZ1 ADDI 4096 NEXT 4K MEMORY ADDRESS 00 00806
006501 010000 A
006502 005014 A 809 TAX 00 00807
006503 025001 A 810 LDB 1,1 SAVE MEMORY CELL IN B REG 00 00808
006504 055001 A 811 STA 1,1 00 00809
006505 015001 A 812 LDA 1,1 00 00810
006506 130000 A 813 ERA 0 00 00811
006507 001010 A 814 JAZ ESZ2 JUMP IF END OF MEMORY 00 00812
006510 006515 A
006511 065001 A 815 STB 1,1 RESTORE MEMORY CELL 00 00813
006512 005041 A 816 TXA 00 00814
006513 001000 A 817 JMP ESZ1 00 00815
006514 006500 A
006515 010002 A 818 ESZ2 LDA 2 RESTORE CONTENTS OF 00 00816
006516 050000 A 819 STA 0 LOCATION ZERO 00 00817
006517 005041 A 820 TXA 00 00818
006520 001000 A 821 JMP* ESZA 00 00819
006521 106471 A

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|--------|--------|---|-----|------|---|--|--------------------------------------|--|-----|-------|-------|
| | | | 822 | * | | | | | 00 | 00820 | |
| | | | 823 | * | | | | | 00 | 00821 | |
| | | | 824 | * | | | | | 00 | 00822 | |
| | | | 825 | * | CONVERT MEMORY SIZE FOR ASCII PRINTOUT | | | | | 00 | 00823 |
| | | | 826 | * | | | | | 00 | 00824 | |
| 006522 | 000000 | A | 827 | ESZB | ENTR | 0 | | | 00 | 00825 | |
| 006523 | 010441 | A | 828 | | LDA | 3MEM | GET CORE SIZE(X7777) | | 00 | 00826 | |
| 006524 | 004354 | A | 829 | | LSRA | 12 | TRUNCATE 7777 | | 00 | 00827 | |
| 006525 | 006120 | A | 830 | | ADDI | ETAB | ADDRESS OF THE ASCII EQUIV TABLE | | 00 | 00828 | |
| 006526 | 006536 | A | | | | | | | | | |
| 006527 | 005014 | A | 831 | | TAX | | | | 00 | 00829 | |
| 006530 | 015000 | A | 832 | | LDA | 0,1 | GET ASCII EQUIV FROM TABLE ETAB | | 00 | 00830 | |
| 006531 | 006020 | A | 833 | | LOBI | MSG4 | SET MEMORY SIZE(04,08,ETC) INTO MSG4 | | 00 | 00831 | |
| 006532 | 006457 | A | | | | | | | | | |
| 006533 | 056000 | A | 834 | | STA | 0,2 | | | 00 | 00832 | |
| 006534 | 001000 | A | 835 | | JMP* | ESZB | RETURN | | 00 | 00833 | |
| 006535 | 106522 | A | | | | | | | | | |
| 006536 | 120264 | A | 836 | ETAB | DATA | 0120264 | ASCII 04 | | 00 | 00834 | |
| 006537 | 120270 | A | 837 | | DATA | 0120270 | | | 00 | 00835 | |
| 006540 | 130662 | A | 838 | | DATA | 0130662 | | | 00 | 00836 | |
| 006541 | 130666 | A | 839 | | DATA | 0130666 | | | 00 | 00837 | |
| 006542 | 131260 | A | 840 | | DATA | 0131260 | | | 00 | 00838 | |
| 006543 | 131264 | A | 841 | | DATA | 0131264 | | | 00 | 00839 | |
| 006544 | 131270 | A | 842 | | DATA | 0131270 | | | 00 | 00840 | |
| 006545 | 131662 | A | 843 | | DATA | 0131662 | | | 00 | 00841 | |
| | | | 844 | * | | | | | 00 | 00842 | |
| | | | 845 | * | | | | | 00 | 00843 | |
| | | | 846 | * | | | | | 00 | 00844 | |
| | | | 847 | * | | | | | 00 | 00845 | |
| | | | 848 | * | | | | | 00 | 00846 | |
| | | | 849 | * | | | | | 00 | 00847 | |
| | | | 850 | * | ***** | | | | | 00 | 00848 |
| | | | 851 | * | | | | | *00 | 00849 | |
| | | | 852 | * | SENSE SWITCH SUBROUTINE | | | | | *00 | 00850 |
| | | | 853 | * | THIS SUBROUTINE PROVIDES A STANDARD SENSE SWITCH INTERFACE. | | | | | *00 | 00851 |
| | | | 854 | * | THE CALLING SEQUENCE IS AS FOLLOWS | | | | | *00 | 00852 |
| | | | 855 | * | THE A, B, AND X REGISTERS CONTAIN ERROR HALT VALUES. | | | | | *00 | 00853 |
| | | | 856 | * | CALL SSWT | | | | | *00 | 00854 |
| | | | 857 | * | DATA | (U REGISTER VALUE) | | | *00 | 00855 | |
| | | | 858 | * | DATA | (ERROR MESSAGE ADDRESS) (IF NEG, ERROR SUB.) | | | *00 | 00856 | |
| | | | 859 | * | DATA | (TERMINATION EXIT) | | | *00 | 00857 | |
| | | | 860 | * | DATA | (LOOP ON ERROR EXIT) | | | *00 | 00858 | |




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861 * * NORMAL EXIT RETURN *00 00859
862 * *00 00860
863 * STANDARD SENSE SWITCH SETTINGS *00 00861
864 * SS1 = (SET) SUPPRESS ERROR PRINTOUT *00 00862
865 * (RESET) ALLOW ERROR PRINTOUTS *00 00863
866 * SS2 (SET) HALT ON ERROR *00 00864
867 * (IF SET AFTER HALT = CONTINUE ) *00 00865
868 * (RESET) DO NOT HALT ON ERROR *00 00866
869 * (IF HALT ON ERROR SET FIRST THEN RESET ON *00 00867
870 * HALT CONDITION = LOOP UNTIL SET ) *00 00868
871 * SS3 (SET) TERMINATE TEST = RETURN TO BEGINING OF TEST *00 00869
872 * (RESET) CONTINUE TEST *00 00870
873 ***** *00 00871
874 * 00 00872
006545 054135 A 875 SSWP STA SSWS SAVE VOLATILE REGISTERS 00 00873
006547 054135 A 876 STB SSWS+1 00 00874
006550 074135 A 877 STX SSWS+2 00 00875
006551 001400 A 878 JSS3 SSWE IF SS3 SET RETURN THROUGH TERMINATION EXIT00 00876
006552 006707 A
006553 010442 A 879 LJA SCON CHECK IF CONSOLE OR TTY MODE 00 00877
006554 001010 A 880 JAZ SSWN 00 00878
006555 005642 A
006556 001100 A 881 JSS1 SSW1 TELETYPE MODE = CHECK IF TTY SUPPRESSED 00 00879
006557 006801 A
006560 024137 A 882 LDR SSWT GET 2ND PARAMETER 00 00880
006561 005122 A 883 IDR 00 00881
006562 016000 A 884 LJA 0,2 00 00882
006563 001010 A 885 JAZ SSW1 00 00883
006564 006601 A
006565 005012 A 886 TAB CHECK IF BIT 15 SET 00 00884
006566 006150 A 887 ANAI 0100000 00 00885
006567 100000 A
006570 005014 A 888 TAX 00 00886
006571 005021 A 889 TBA 00 00887
006572 001040 A 890 JXZ **4 00 00888
006573 008576 A
006574 001000 A 891 JHP SSWR CALL ERROR SUBROUTINE 00 00889
006575 006672 A
006576 005014 A 892 TAX PRINT ERROR MESSAGE 00 00890
006577 002000 A 893 CALL OUTD 00 00891
006600 007445 A
006801 001400 A 894 SSW1 JSS3 SSWE IF SS3 SET = RETURN THROUGH TERMINATION EXT00 00892

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|--------|--------|---|-----|------|------|------------------|---|----|-------|
| 006602 | 006707 | A | | | | | | | |
| 006603 | 010440 | A | 895 | LDA | SFLG | CHECK IF LOOPING | | 00 | 00893 |
| 006604 | 001010 | A | 896 | JAZ | SSW4 | | | 00 | 00894 |
| 006605 | 006535 | A | | | | | | | |
| 006606 | 001200 | A | 897 | SSW2 | JSS2 | SSW3 | LOOPING = CHECK IF TERMINATE LOOPING. | 00 | 00895 |
| 006607 | 006523 | A | | | | | | | |
| 006610 | 024107 | A | 898 | SSWL | LDB | SSWT | RETURN THROUGH LOOP EXIT | 00 | 00896 |
| 006611 | 005122 | A | 899 | | IBR | | | 00 | 00897 |
| 006612 | 005122 | A | 900 | | IBR | | | 00 | 00898 |
| 006613 | 005122 | A | 901 | | IBR | | | 00 | 00899 |
| 006614 | 016000 | A | 902 | | LDA | 0,2 | | 00 | 00900 |
| 006615 | 054004 | A | 903 | | STA | ++5 | | 00 | 00901 |
| 006616 | 014055 | A | 904 | | LDA | SSWS | RETURN VOLATILE REGISTERS, | 00 | 00902 |
| 006617 | 024055 | A | 905 | | LDB | SSWS+1 | | 00 | 00903 |
| 006620 | 034055 | A | 906 | | LDX | SSWS+2 | | 00 | 00904 |
| 006621 | 001000 | A | 907 | | JMP | * | | 00 | 00905 |
| 006622 | 006621 | A | | | | | | | |
| 006623 | 005001 | A | 908 | SSW3 | TZA | | RETURN TO NORMAL EXIT (CONTINUATION EXIT) | 00 | 00906 |
| 006624 | 050440 | A | 909 | | STA | SFLG | CLEAR LOOP FLAG, | 00 | 00907 |
| 006625 | 014072 | A | 910 | | LDA | SSWT | | 00 | 00908 |
| 006626 | 006120 | A | 911 | | ADDI | 4 | | 00 | 00909 |
| 006627 | 000004 | A | | | | | | | |
| 006630 | 054004 | A | 912 | | STA | ++5 | | 00 | 00910 |
| 006631 | 014052 | A | 913 | | LJA | SSWS | RETURN VOLATILE REGISTERS, | 00 | 00911 |
| 006632 | 024052 | A | 914 | | LDB | SSWS+1 | | 00 | 00912 |
| 006633 | 034052 | A | 915 | | LDX | SSWS+2 | | 00 | 00913 |
| 006634 | 001000 | A | 916 | | JMP | * | | 00 | 00914 |
| 006635 | 006634 | A | | | | | | | |
| 006636 | 001200 | A | 917 | SSW4 | JSS2 | SSW5 | CHECK IF HALT ON ERROR | 00 | 00915 |
| 006637 | 006647 | A | | | | | | | |
| 006640 | 001000 | A | 918 | | JMP | SSW3 | RETURN TO NORMAL EXIT LOC, | 00 | 00916 |
| 006641 | 006523 | A | | | | | | | |
| 006642 | 010440 | A | 919 | SSW4 | LDA | SFLG | CHECK IF LOOP FLAG ZERO | 00 | 00917 |
| 006643 | 001010 | A | 920 | | JAZ | SSW4 | | 00 | 00918 |
| 006644 | 006535 | A | | | | | | | |
| 006645 | 001100 | A | 921 | | JSS1 | SSW6 | | 00 | 00919 |
| 006646 | 006555 | A | | | | | | | |
| 006647 | 024050 | A | 922 | SSW5 | LDB | SSWT | GET FIRST PARAMETER | 00 | 00920 |
| 006650 | 016000 | A | 923 | | LJA | 0,2 | | 00 | 00921 |
| 006651 | 054003 | A | 924 | | STA | ++4 | | 00 | 00922 |
| 006652 | 014031 | A | 925 | | LDA | SSWS | RETURNED SAVED PARAMETERS, | 00 | 00923 |
| 006653 | 024031 | A | 926 | | LDB | SSWS+1 | | 00 | 00924 |

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| 006654 | 034031 | A | 927 | | LOX | SSWS+2 | | 00 | 00925 |
| 006655 | 005000 | A | 928 | | NOP | | 1ST PARAMETER STORED HERE AND EXECUTED. | 00 | 00926 |
| 006656 | 001400 | A | 929 | SS*6 | JSS3 | SSWE | IF SS3 SET RETURN THROUGH TERMINATION EXIT | 00 | 00927 |
| 006657 | 006707 | A | | | | | | | |
| 006660 | 010440 | A | 930 | | LDA | SFLG | CHECK IF LOOPING | 00 | 00928 |
| 006661 | 001010 | A | 931 | | JAZ | **4 | | 00 | 00929 |
| 006662 | 006665 | A | | | | | | | |
| 006663 | 001000 | A | 932 | | JMP | SSW2 | | 00 | 00930 |
| 006664 | 006606 | A | | | | | | | |
| 006665 | 001200 | A | 933 | | JSS2 | SSW3 | LOOP FLAG ZERO - CHECK IF LOOP REQUEST | 00 | 00931 |
| 006666 | 006623 | A | | | | | | | |
| 006667 | 040440 | A | 934 | | INR | SFLG | INCREMENT LOOP FLAG | 00 | 00932 |
| 006670 | 001000 | A | 935 | | JMP | SSWL | JUMP THROUGH LOOP EXIT | 00 | 00933 |
| 006671 | 006610 | A | | | | | | | |
| 006672 | 006150 | A | 936 | SSWR | ANAI | 077777 | ERROR SUBROUTINE MASK OUT BIT 15 | 00 | 00934 |
| 006673 | 077777 | A | | | | | | | |
| 006674 | 054004 | A | 937 | | STA | **5 | | 00 | 00935 |
| 006675 | 014006 | A | 938 | | LDA | SS*8 | | 00 | 00936 |
| 006676 | 024006 | A | 939 | | LDB | SSWS+1 | | 00 | 00937 |
| 006677 | 034006 | A | 940 | | LOX | SSWS+2 | | 00 | 00938 |
| 006700 | 002000 | A | 941 | | JMPM | * | CALL ERROR SUBROUTINE | 00 | 00939 |
| 006701 | 006700 | A | | | | | | | |
| 006702 | 001000 | A | 942 | | JMP | SSW1 | | 00 | 00940 |
| 006703 | 006601 | A | | | | | | | |
| 006704 | | A | 943 | SSWS | BSS | 3 | | 00 | 00941 |
| 006707 | 005001 | A | 944 | SSWE | TZA | | JUMP THROUGH TERMINATION EXIT. | 00 | 00942 |
| 006710 | 050440 | A | 945 | | STA | SFLG | CLEAR LOOP FLAG. | 00 | 00943 |
| 006711 | 024006 | A | 946 | | LDB | SSWT | | 00 | 00944 |
| 006712 | 005122 | A | 947 | | IBR | | SET UP TERMINATION EXIT | 00 | 00945 |
| 006713 | 005122 | A | 948 | | IBR | | | 00 | 00946 |
| 006714 | 016000 | A | 949 | | LDA | 0,2 | | 00 | 00947 |
| 006715 | 054001 | A | 950 | | STA | **2 | | 00 | 00948 |
| 006716 | 001000 | A | 951 | | JMP | * | | 00 | 00949 |
| 006717 | 006716 | A | | | | | | | |
| 006720 | 000000 | A | 952 | SSWT | ENTR | | SENSE SWITCH SUBROUTINE ENTRANCE | 00 | 00950 |
| 006721 | 001000 | A | 953 | | JMP | SSWP | | 00 | 00951 |
| 006722 | 006546 | A | | | | | | | |
| | | A | 954 | * | | | | 00 | 00952 |
| | | A | 955 | * | | | INPUT ONE CHARACTER FROM TTY TO (A) REGISTER | 00 | 00953 |
| | | A | 956 | * | | | | 00 | 00954 |
| 006723 | 002000 | A | 957 | INA1 | CALL | INPH,INA2 | SENSE BFR RDY | 00 | 00955 |
| 006724 | 007317 | A | | | | | | | |

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|--------|--------|---|-----|-------|--|-------|---|----------|
| 006725 | 006732 | A | | | | | | |
| 006726 | 001400 | A | 958 | JSS3* | INPA | | | 00 00956 |
| 006727 | 106737 | A | | | | | | |
| 006730 | 001000 | A | 959 | JMP | INA1 | | | 00 00957 |
| 006731 | 006723 | A | | | | | | |
| 006732 | 002000 | A | 960 | INA2 | CALL | INPI | INPUT CHARACTER | 00 00958 |
| 006733 | 007331 | A | | | | | | |
| 006734 | 044002 | A | 961 | INR | INPA | | NORMAL EXIT | 00 00959 |
| 006735 | 044001 | A | 962 | INR | INPA | | | 00 00960 |
| 006736 | 001000 | A | 963 | JMP | 0 | | | 00 00961 |
| 006737 | 000000 | A | | | | | | |
| 006737 | | | 964 | INPA | BES | 0 | ENTER | 00 00962 |
| 006740 | 001000 | A | 965 | JMP | INA1 | | | 00 00963 |
| 006741 | 005723 | A | | | | | | |
| | | | 965 | * | | | | 00 00964 |
| | | | 967 | * | INPUT ONE CHARACTER + PRINT FROM TTY TO A REGISTER | | | 00 00965 |
| | | | 968 | * | | | | 00 00966 |
| 006742 | 002000 | A | 969 | INB1 | CALL | INPA | INPUT ONE CHARACTER | 00 00967 |
| 006743 | 006737 | A | | | | | | |
| 006744 | 001000 | A | 970 | JMP* | INPB | | TERMINATE EXIT | 00 00968 |
| 006745 | 106753 | A | | | | | | |
| 006746 | 002000 | A | 971 | | CALL | OUTA | OUTPUT ONE CHARACTER | 00 00969 |
| 006747 | 007334 | A | | | | | | |
| 006750 | 044002 | A | 972 | INR | INPB | | | 00 00970 |
| 006751 | 044001 | A | 973 | INR | INPB | | | 00 00971 |
| 006752 | 001000 | A | 974 | JMP* | 0 | | EXIT | 00 00972 |
| 006753 | 100000 | A | | | | | | |
| 006753 | | | 975 | INPB | BES | 0 | | 00 00973 |
| 006754 | 001000 | A | 976 | JMP | INB1 | | | 00 00974 |
| 006755 | 006742 | A | | | | | | |
| | | | 977 | * | | | | 00 00975 |
| 007000 | | | 978 | | ORG | 07000 | | 00 00976 |
| 007000 | 001000 | A | 979 | EBGX | JMP | EBGN | COMMON ENTRY POINT (TTY), (CONSOLE IF LA==) | 00 00977 |
| 007001 | 006150 | A | | | | | | |
| 007002 | 001000 | A | 980 | JMP | EBGN+2 | | (CONSOLE) | 00 00978 |
| 007003 | 006152 | A | | | | | | |
| | | | 981 | * | | | | 00 00979 |
| | | | 982 | * | | | | 00 00980 |
| | | | 983 | * | INPUT ONE CHARACTER (EDITED) | | | 00 00981 |
| | | | 984 | * | | | | 00 00982 |
| 007004 | 002000 | A | 985 | INCS | CALL | INPB | | 00 00983 |
| 007005 | 006753 | A | | | | | | 00 00984 |

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|--------|--------|---|------|------|--|------|--------------------------------|----|-------|-------|
| 007006 | 001000 | A | 986 | | JMP* | INPC | TERMINATE EXIT | 00 | 00984 | |
| 007007 | 107033 | A | | | | | | | | |
| 007010 | 006130 | A | 987 | | ERAI | INI | BACKSLASH | 00 | 00985 | |
| 007011 | 000334 | A | | | | | | | | |
| 007012 | 001010 | A | 988 | | JAZ | INC2 | ABORT INPUT EXIT | 00 | 00986 | |
| 007013 | 007030 | A | | | | | | | | |
| 007014 | 006130 | A | 989 | | ERAI | INI | RESTORE A | 00 | 00987 | |
| 007015 | 000334 | A | | | | | | | | |
| 007016 | 006130 | A | 990 | | ERAI | 0337 | BACKARROW | 00 | 00988 | |
| 007017 | 000337 | A | | | | | | | | |
| 007020 | 001010 | A | 991 | | JAZ | INC1 | DELETE ONE CHARACTER EXIT | 00 | 00989 | |
| 007021 | 007026 | A | | | | | | | | |
| 007022 | 006130 | A | 992 | | ERAI | 0337 | RESTORE A | 00 | 00990 | |
| 007023 | 000337 | A | | | | | | | | |
| 007024 | 044006 | A | 993 | | INR | INPC | | 00 | 00991 | |
| 007025 | 044005 | A | 994 | | INR | INPC | | 00 | 00992 | |
| 007026 | 044004 | A | 995 | INC1 | INR | INPC | | 00 | 00993 | |
| 007027 | 044003 | A | 995 | | INR | INPC | | 00 | 00994 | |
| 007030 | 044002 | A | 997 | INC2 | INR | INPC | | 00 | 00995 | |
| 007031 | 044001 | A | 998 | | INR | INPC | | 00 | 00996 | |
| 007032 | 001000 | A | 999 | | JMP* | 0 | EXIT | 00 | 00997 | |
| 007033 | 100000 | A | | | | | | | | |
| 007033 | | | 1000 | INPC | BES | 0 | | 00 | 00998 | |
| 007034 | 001000 | A | 1001 | | JMP | INC3 | | 00 | 00999 | |
| 007035 | 007004 | A | | | | | | | | |
| | | | 1002 | * | | | | 00 | 01000 | |
| | | | 1003 | * | INPUT ONE ALPHA CHARACTER FROM TTY KEYBOARD TO A REG | | | | 00 | 01001 |
| | | | 1004 | * | | | | 00 | 01002 | |
| 007036 | 002000 | A | 1005 | IND4 | CALL | INPC | INPUT ONE CHAR | 00 | 01003 | |
| 007037 | 007033 | A | | | | | | | | |
| 007040 | 001000 | A | 1006 | | JMP* | INPC | TERMINATE EXIT | 00 | 01004 | |
| 007041 | 107067 | A | | | | | | | | |
| 007042 | 001000 | A | 1007 | | JMP | IND2 | ABORT INPUT EXIT | 00 | 01005 | |
| 007043 | 007064 | A | | | | | | | | |
| 007044 | 001000 | A | 1008 | | JMP | IND1 | DELETE PREVIOUS CHARACTER EXIT | 00 | 01006 | |
| 007045 | 007062 | A | | | | | | | | |
| 007046 | 006140 | A | 1009 | | SUBI | 0301 | CHAR A | 00 | 01007 | |
| 007047 | 000301 | A | | | | | | | | |
| 007050 | 001004 | A | 1010 | | JAN | IND3 | INVALID INPUT | 00 | 01008 | |
| 007051 | 007072 | A | | | | | | | | |
| 007052 | 006140 | A | 1011 | | SUBI | 032 | CHAR Z | 00 | 01009 | |
| 007053 | 000032 | A | | | | | | | | |

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|--------|--------|---|------|------|--------------------------------------|--------------------------------|----|----------|
| 007054 | 001002 | A | 1012 | JAP | IND3 | INVALID INPUT | 00 | 01010 |
| 007055 | 007072 | A | | | | | | |
| 007056 | 006120 | A | 1013 | ADDI | 0333 | RESTORE A | 00 | 01011 |
| 007057 | 000333 | A | | | | | | |
| 007060 | 044006 | A | 1014 | INR | INPD | NORMAL EXIT | 00 | 01012 |
| 007061 | 044005 | A | 1015 | INR | INPD | | 00 | 01013 |
| 007062 | 044004 | A | 1016 | IND1 | INR | INPD | | 00 01014 |
| 007063 | 044003 | A | 1017 | INR | INPD | | 00 | 01015 |
| 007064 | 044002 | A | 1018 | IND2 | INR | INPD | | 00 01016 |
| 007065 | 044001 | A | 1019 | INR | INPD | | 00 | 01017 |
| 007066 | 001000 | A | 1020 | JMP* | 0 | EXIT | 00 | 01018 |
| 007067 | 100000 | A | | | | | | |
| 007067 | | | 1021 | INPD | BES | 0 | 00 | 01019 |
| 007070 | 001000 | A | 1022 | JMP | IND4 | | 00 | 01020 |
| 007071 | 007036 | A | | | | | | |
| 007072 | 002000 | A | 1023 | IND3 | CALL | OUTG | | 00 01021 |
| 007073 | 007475 | A | | | | | | |
| 007074 | 001000 | A | 1024 | JMP | IND2 | ABORT | 00 | 01022 |
| 007075 | 007064 | A | | | | | | |
| | | | 1025 | * | | | 00 | 01023 |
| | | | 1026 | * | | | 00 | 01024 |
| | | | 1027 | * | INPUT TWO LETTER CHARACTERS FROM TTY | | 00 | 01025 |
| | | | 1028 | * | | | 00 | 01026 |
| 007076 | 002000 | A | 1029 | INE3 | CALL | INPD | | 00 01027 |
| 007077 | 007067 | A | | | | | | |
| 007100 | 001000 | A | 1030 | JMP* | INPE | TERMINATE EXIT | 00 | 01028 |
| 007101 | 107130 | A | | | | | | |
| 007102 | 001000 | A | 1031 | JMP | INE2 | ABORT INPUT EXIT | 00 | 01029 |
| 007103 | 007125 | A | | | | | | |
| 007104 | 001000 | A | 1032 | JMP | INE1 | DELETE PREVIDS CHARACTER EXIT | 00 | 01030 |
| 007105 | 007123 | A | | | | | | |
| 007106 | 004250 | A | 1033 | LRLA | 8 | | 00 | 01031 |
| 007107 | 054441 | A | 1034 | STA | T802 | | 00 | 01032 |
| 007110 | 002000 | A | 1035 | CALL | INPD | INPUT ALPHA CHAR | 00 | 01033 |
| 007111 | 007067 | A | | | | | | |
| 007112 | 001000 | A | 1036 | JMP* | INPE | TERMINATE EXIT | 00 | 01034 |
| 007113 | 107130 | A | | | | | | |
| 007114 | 001000 | A | 1037 | JMP | INE3 | ABORT INPUT EXIT | 00 | 01035 |
| 007115 | 007125 | A | | | | | | |
| 007116 | 001000 | A | 1038 | JMP | INE1 | DELETE PREVIOUS CHARACTER EXIT | 00 | 01036 |
| 007117 | 007076 | A | | | | | | |
| 007120 | 114430 | A | 1039 | JMP | T. 2 | | 00 | 01037 |



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|--------|--------|---|------|------|--|------|--------------------------------|----|-------|
| 007121 | 044006 | A | 1040 | | INR | INPE | NORMAL EXIT | 00 | 01038 |
| 007122 | 044005 | A | 1041 | | INR | INPE | | 00 | 01039 |
| 007123 | 044004 | A | 1042 | INE1 | INR | INPE | DELETE PREVIOUS CHARACTER EXIT | 00 | 01040 |
| 007124 | 044003 | A | 1043 | | INR | INPE | | 00 | 01041 |
| 007125 | 044002 | A | 1044 | INE2 | INR | INPE | ABORT INPUT EXIT | 00 | 01042 |
| 007126 | 044001 | A | 1045 | | INR | INPE | | 00 | 01043 |
| 007127 | 001000 | A | 1046 | | JMP* | 0 | EXIT | 00 | 01044 |
| 007130 | 100000 | A | | | | | | | |
| 007130 | | | 1047 | INPE | RES | 0 | | 00 | 01045 |
| 007131 | 001000 | A | 1048 | | JMP | INE3 | | 00 | 01046 |
| 007132 | 007076 | A | | | | | | | |
| | | | 1049 | * | | | | 00 | 01047 |
| | | | 1050 | * | INPUT PERIOD, COMMA FOR MESSAGE TERMINATOR | | | 00 | 01048 |
| | | | 1051 | * | | | | 00 | 01049 |
| 007133 | 002000 | A | 1052 | INF5 | CALL | INPC | INPUT ONE CHARACTER | 00 | 01050 |
| 007134 | 007033 | A | | | | | | | |
| 007135 | 001000 | A | 1053 | | JMP* | INPF | TERMINATE EXIT | 00 | 01051 |
| 007136 | 107170 | A | | | | | | | |
| 007137 | 001000 | A | 1054 | | JMP | INF2 | ABORT INPUT EXIT | 00 | 01052 |
| 007140 | 007165 | A | | | | | | | |
| 007141 | 001000 | A | 1055 | | JMP | INF1 | DELETE PREVIOUS CHARACTER EXIT | 00 | 01053 |
| 007142 | 007163 | A | | | | | | | |
| 007143 | 006140 | A | 1056 | | SUBI | 0254 | COMMA | 00 | 01054 |
| 007144 | 000254 | A | | | | | | | |
| 007145 | 001010 | A | 1057 | | JAZ | INF3 | COMMA EXIT | 00 | 01055 |
| 007146 | 007161 | A | | | | | | | |
| 007147 | 006140 | A | 1058 | | SUBI | 02 | PERIOD | 00 | 01056 |
| 007150 | 000002 | A | | | | | | | |
| 007151 | 001010 | A | 1059 | | JAZ | INF4 | PERIOD EXIT | 00 | 01057 |
| 007152 | 007157 | A | | | | | | | |
| 007153 | 002000 | A | 1060 | | CALL | OUTG | PRINT INVALID MESSAGE | 00 | 01058 |
| 007154 | 007475 | A | | | | | | | |
| 007155 | 001000 | A | 1061 | | JMP | INF2 | ABORT | 00 | 01059 |
| 007156 | 007165 | A | | | | | | | |
| 007157 | 044010 | A | 1062 | INF4 | INR | INPF | NORMAL EXIT | 00 | 01060 |
| 007160 | 044007 | A | 1063 | | INR | INPF | | 00 | 01061 |
| 007161 | 044006 | A | 1064 | INF3 | INR | INPF | COMMA EXIT | 00 | 01062 |
| 007162 | 044005 | A | 1065 | | INR | INPF | | 00 | 01063 |
| 007163 | 044004 | A | 1066 | INF1 | INR | INPF | DELETE PREVIOUS CHARACTER EXIT | 00 | 01064 |
| 007164 | 044003 | A | 1067 | | INR | INPF | | 00 | 01065 |
| 007165 | 044002 | A | 1068 | INF2 | INR | INPF | ABORT INPUT EXIT | 00 | 01066 |
| 007166 | 044001 | A | 1069 | | INR | INPF | | 00 | 01067 |



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|--------|--------|---|------|------|--------------------------------------|------|----|--------------------------------|
| 007167 | 001000 | A | 1070 | JMP* | 0 | EXIT | 00 | 01068 |
| 007170 | 100000 | A | | | | | | |
| 007170 | | | 1071 | INPF | BES | 0 | 00 | 01069 |
| 007171 | 001000 | A | 1072 | JMP | INF5 | | 00 | 01070 |
| 007172 | 007133 | A | | | | | | |
| | | | 1073 | * | | | 00 | 01071 |
| | | | 1074 | * | INPUT OCTAL NUMBER FROM TTY KEYBOARD | | 00 | 01072 |
| | | | 1075 | * | ASSEMBLE AS 16 BIT NUMBER IN A REG | | 00 | 01073 |
| | | | 1076 | * | ONLY OCTAL NUMBERS ACCEPTED | | 00 | 01074 |
| | | | 1077 | * | | | 00 | 01075 |
| 007173 | 005001 | A | 1078 | ING7 | TZA | | 00 | 01075 |
| 007174 | 054354 | A | 1079 | | STA | TS02 | 00 | 01077 |
| | | | | | | | | TEMP STORAGE FOR OCTAL NUMBER |
| 007175 | 050471 | A | 1080 | | STA | TS04 | 00 | 01078 |
| | | | | | | | | TEMP STORAGE FOR DIGIT COUNTER |
| 007176 | 054356 | A | 1081 | | STB | TS07 | 00 | 01079 |
| 007177 | 005002 | A | 1082 | | TZB | | 00 | 01080 |
| 007200 | 002000 | A | 1083 | ING5 | CALL | INPC | 00 | 01081 |
| 007201 | 007033 | A | | | | | | |
| 007202 | 001000 | A | 1084 | JMP* | INPG | | 00 | 01082 |
| 007203 | 107250 | A | | | | | | |
| 007204 | 001000 | A | 1085 | JMP | ING2 | | 00 | 01083 |
| 007205 | 007243 | A | | | | | | |
| 007206 | 001000 | A | 1086 | JMP | ING1 | | 00 | 01084 |
| 007207 | 007272 | A | | | | | | |
| 007210 | 054342 | A | 1087 | | STA | TS05 | 00 | 01085 |
| | | | | | | | | SAVE INPUT |
| 007211 | 006140 | A | 1088 | | SUBI | 0260 | 00 | 01086 |
| 007212 | 000260 | A | | | | | | |
| 007213 | 001004 | A | 1089 | JAN | ING6 | | 00 | 01087 |
| 007214 | 007255 | A | | | | | | |
| 007215 | 006140 | A | 1090 | | SUBI | 010 | 00 | 01088 |
| 007216 | 000010 | A | | | | | | |
| 007217 | 001002 | A | 1091 | JAP | ING6 | | 00 | 01089 |
| | | | | | | | | INVALID IF NOT OCTAL NUMBER |
| 007220 | 007255 | A | | | | | | |
| 007221 | 006120 | A | 1092 | | ADDI | 010 | 00 | 01090 |
| 007222 | 000010 | A | | | | | | |
| 007223 | 054326 | A | 1093 | | STA | TS03 | 00 | 01091 |
| | | | | | | | | SAVE CHARACTER |
| 007224 | 014324 | A | 1094 | | LDA | TS02 | 00 | 01092 |
| | | | | | | | | INSERT CHARACTER |
| 007225 | 004443 | A | 1095 | | LLRL | 3 | 00 | 01093 |
| | | | | | | | | INTO |
| 007226 | 114323 | A | 1096 | | ORA | TS03 | 00 | 01094 |
| | | | | | | | | OCTAL NUMBER |
| 007227 | 001020 | A | 1097 | | BSZ | **4 | 00 | 01095 |
| | | | | | | | | TOO MANY BITS ? |
| 007230 | 007233 | A | | | | | | |
| 007231 | 001000 | A | 1098 | JMP | IN 1 | YES | 00 | 01096 |
| 007232 | 007266 | A | | | | | | |



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|--------|--------|---|------|------|------|------|----------------------------|--|-----|-------|
| 007233 | 054315 | A | 1099 | | STA | TS02 | NO | | 00 | 01097 |
| 007234 | 040471 | A | 1100 | | INR | TS04 | INCR # DIGITS | | 00 | 01098 |
| 007235 | 001000 | A | 1101 | | JMP | ING5 | GET NEXT DIGIT | | 00 | 01099 |
| 007236 | 007200 | A | | | | | | | | |
| 007237 | 044010 | A | 1102 | ING3 | INR | INPG | NORMAL EXIT | | 00 | 01100 |
| 007240 | 044007 | A | 1103 | | INR | INPG | | | 00 | 01101 |
| 007241 | 044006 | A | 1104 | ING4 | INR | INPG | COMMA EXIT | | 00 | 01102 |
| 007242 | 044005 | A | 1105 | | INR | INPG | | | 00 | 01103 |
| 007243 | 044004 | A | 1106 | ING2 | INR | INPG | ABORT INPUT EXIT | | 00 | 01104 |
| 007244 | 044003 | A | 1107 | | INR | INPG | | | 00 | 01105 |
| 007245 | 024307 | A | 1108 | | LOB | TS07 | | | 00 | 01106 |
| 007246 | 014302 | A | 1109 | | LDA | TS02 | GET ASSEMBLED OCTAL NUMBER | | 00 | 01107 |
| 007247 | 001000 | A | 1110 | | JMP | 0 | EXIT | | 00 | 01108 |
| 007250 | 000000 | A | | | | | | | | |
| 007250 | | | 1111 | INPG | BES | 0 | | | 00 | 01109 |
| 007251 | 002000 | A | 1112 | | CALL | INPI | INIT TTY BFR | | 00 | 01110 |
| 007252 | 007331 | A | | | | | | | | |
| 007253 | 001000 | A | 1113 | | JMP | ING7 | | | 00 | 01111 |
| 007254 | 007173 | A | | | | | | | | |
| 007255 | 014275 | A | 1114 | ING6 | LDA | TS05 | GET LAST INPUT | | 00 | 01112 |
| 007256 | 006140 | A | 1115 | | SUBI | 0254 | IS IT A COMMA | | 00 | 01113 |
| 007257 | 000254 | A | | | | | | | | |
| 007260 | 001010 | A | 1116 | | JAZ | ING4 | YES | | 00 | 01114 |
| 007261 | 007241 | A | | | | | | | | |
| 007262 | 006140 | A | 1117 | | SUBI | 02 | IS IT A PERIOD | | 00 | 01115 |
| 007263 | 000002 | A | | | | | | | | |
| 007264 | 001010 | A | 1118 | | JAZ | ING3 | YES | | 00 | 01116 |
| 007265 | 007237 | A | | | | | | | | |
| 007266 | 002000 | A | 1119 | ING8 | CALL | OUTG | PRINT INVALID MESSAGE | | 00 | 01117 |
| 007267 | 007475 | A | | | | | | | | |
| 007270 | 001000 | A | 1120 | | JMP | ING2 | ABORT | | 00 | 01118 |
| 007271 | 007243 | A | | | | | | | | |
| | | | 1121 | * | | | | | 00 | 01119 |
| 007272 | 014255 | A | 1122 | ING1 | LDA | TS02 | DELETE LAST CHARACTER | | 00 | 01120 |
| 007273 | 004343 | A | 1123 | | LSRA | 3 | | | 00 | 01121 |
| 007274 | 054254 | A | 1124 | | STA | TS02 | | | 00 | 01122 |
| 007275 | 010471 | A | 1125 | | LDA | TS04 | | | 00 | 01123 |
| 007276 | 005311 | A | 1126 | | DAR | | REDUCE DIGIT COUNT | | 00 | 01124 |
| 007277 | 001000 | A | 1127 | | JMP | ING5 | | | 000 | 01125 |
| 007300 | 007200 | A | | | | | | | | |
| | | | 1128 | * | | | | | | |
| | | | 1129 | * | | | SENSE TTY BFR RDY | | | |

| | | | | | | | | | | | |
|--------|--------|---|------|------|--|---------|---------------|--|-----|-------|-------|
| | | | 1130 | * | | | | | B00 | 01128 | |
| 007301 | 054020 | A | 1131 | INH1 | STA | INH2 | SAVE A | | B00 | 01129 | |
| 007302 | 014014 | A | 1132 | | LDA | INPH | MODIFY RETURN | | B00 | 01130 | |
| 007303 | 006110 | A | 1133 | | DRAI | 0100000 | | | B00 | 01131 | |
| 007304 | 100000 | A | | | | | | | | | |
| 007305 | 054006 | A | 1134 | | STA | INH3+1 | | | B00 | 01132 | |
| 007306 | 014061 | A | 1135 | | LDA | STTY | ADJ SBR | | B00 | 01133 | |
| 007307 | 006110 | A | 1136 | | DRAI | 0101200 | | | B00 | 01134 | |
| 007310 | 101200 | A | | | | | | | | | |
| 007311 | 054001 | A | 1137 | | STA | *+2 | | | B00 | 01135 | |
| 007312 | 014007 | A | 1138 | | LDA | INH2 | RESTORE A | | B00 | 01136 | |
| 007313 | 101000 | A | 1139 | INH3 | SEN | 0,* | | | B00 | 01137 | |
| 007314 | 007313 | A | | | | | | | | | |
| 007315 | 044001 | A | 1140 | | INR | INPH | | | 00 | 01138 | |
| 007316 | 001000 | A | 1141 | | JMP | 0 | | | 00 | 01139 | |
| 007317 | 000000 | A | | | | | | | | | |
| 007317 | | | 1142 | INPH | BES | 0 | ENTER | | 00 | 01140 | |
| 007320 | 001000 | A | 1143 | | JMP | INH1 | | | 00 | 01141 | |
| 007321 | 007301 | A | | | | | | | | | |
| 007322 | 000000 | A | 1144 | INH2 | DATA | 0 | | | 00 | 01142 | |
| | | | 1145 | * | | | | | 00 | 01143 | |
| | | | 1145 | * | INPUT CHARACTER FROM TTY W/OUT SENSING BFR RDY | | | | | 00 | 01144 |
| | | | 1147 | * | | | | | 00 | 01145 | |
| 007323 | 014044 | A | 1148 | INI1 | LDA | STTY | ADJ. CIA | | 00 | 01146 | |
| 007324 | 006110 | A | 1149 | | DRAI | 0102500 | | | 00 | 01147 | |
| 007325 | 102500 | A | | | | | | | | | |
| 007326 | 054000 | A | 1150 | | STA | *+1 | | | 00 | 01148 | |
| 007327 | 102500 | A | 1151 | | CIA | 0 | INPUT | | 00 | 01149 | |
| 007330 | 001000 | A | 1152 | | JMP | 0 | | | 00 | 01150 | |
| 007331 | 000000 | A | | | | | | | | | |
| 007331 | | | 1153 | INPI | BES | 0 | ENTER | | 00 | 01151 | |
| 007332 | 001000 | A | 1154 | | JMP | INI1 | | | 00 | 01152 | |
| 007333 | 007323 | A | | | | | | | | | |
| | | | 1155 | * | | | | | 00 | 01153 | |
| | | | 1156 | * | OUTPUT ONE CHARACTER FROM A REG TO TTY | | | | | 00 | 01154 |
| | | | 1157 | * | | | | | 00 | 01155 | |
| 007334 | 000000 | A | 1158 | OUTA | ENTR | 0 | | | 00 | 01156 | |
| 007335 | 074212 | A | 1159 | | STX | TS01 | SAVE X | | 00 | 01157 | |
| 007336 | 005014 | A | 1160 | | TAX | | | | 00 | 01158 | |
| 007337 | 014030 | A | 1161 | | LDA | STTY | | | 00 | 01159 | |
| 007340 | 006110 | A | 1162 | | DRAI | 0101100 | ADJUST TTY DA | | 00 | 01160 | |
| 007341 | 101100 | A | | | | | | | | | |



| | | | | | | | | | |
|--------|--------|---|--------|--|--------|----------------------|--|----|-------|
| 007342 | 054005 | A | 1163 | STA | **7 | | | 00 | 01161 |
| 007343 | 005120 | A | 1164 | ADDI | 002000 | | | 00 | 01162 |
| 007344 | 002000 | A | | | | | | | |
| 007345 | 054015 | A | 1165 | STA | OUT1 | | | 00 | 01163 |
| 007346 | 005041 | A | 1166 | TXA | | | | 00 | 01164 |
| 007347 | 006030 | A | 1167 | LOXI | 32767 | TIME-OUT CONSTANT | | 0 | ***** |
| 007350 | 077777 | A | | | | | | | |
| 007351 | 101000 | A | 1168 | SEN | 0,OUT1 | WRITE REGISTER READY | | 00 | 01166 |
| 007352 | 007361 | A | | | | | | | |
| 007353 | 002000 | A | 1169 | CALL | TOUT | | | 00 | 01167 |
| 007354 | 007543 | A | | | | | | | |
| 007355 | 005011 | A | 1170 | MERG | 011 | | | 00 | 01168 |
| 007356 | 000115 | A | 1171 | HLT | 77 | | | 00 | 01169 |
| 007357 | 001000 | A | 1172 | JMP | **6 | | | 00 | 01170 |
| 007360 | 007351 | A | | | | | | | |
| 007361 | 103100 | A | 1173 | DAR | 0 | | | 00 | 01171 |
| 007362 | 034165 | A | 1174 | LDX | TS01 | RESTORE X | | 00 | 01172 |
| 007363 | 001000 | A | 1175 | JMP* | OUTA | RETURN | | 00 | 01173 |
| 007364 | 107334 | A | | | | | | | |
| | | | 1176 * | | | | | 00 | 01174 |
| | | | 1177 * | | | | | 00 | 01175 |
| 007370 | | | 1178 | ORG | 07370 | | | 00 | 01176 |
| 007370 | 000001 | A | 1179 | STTY | DATA | 01 | | 00 | 01177 |
| | | | 1180 * | | | | | 00 | 01178 |
| | | | 1181 * | | | | | 00 | 01179 |
| | | | 1182 * | | | | | 00 | 01180 |
| | | | 1183 * | OUTPUT TWO CHARACTERS FROM A REG TO TTY (HIGH ORDER FIRST) | | | | 00 | 01181 |
| | | | 1184 * | ENTER WITH CHARACTERS IN A REG | | | | 00 | 01182 |
| | | | 1185 * | | | | | 00 | 01183 |
| 007371 | 000000 | A | 1186 | OUTB | ENTR | 0 | | 00 | 01184 |
| 007372 | 064161 | A | 1187 | STB | TS06 | SAVE B | | 00 | 01185 |
| 007373 | 004550 | A | 1188 | LLSR | 8 | | | 00 | 01186 |
| 007374 | 002000 | A | 1189 | CALL | OUTA | OUTPUT FIRST CHAR | | 00 | 01187 |
| 007375 | 007334 | A | | | | | | | |
| 007376 | 004450 | A | 1190 | LLRL | 8 | | | 00 | 01188 |
| 007377 | 002000 | A | 1191 | CALL | OUTA | OUTPUT SECOND CHAR | | 00 | 01189 |
| 007400 | 007334 | A | | | | | | | |
| 007401 | 024152 | A | 1192 | LOB | TS06 | RESTORE B | | 00 | 01190 |
| 007402 | 001000 | A | 1193 | JMP* | OUTB | RETURN | | 00 | 01191 |
| 007403 | 107371 | A | | | | | | | |
| | | | 1194 * | | | | | 00 | 01192 |
| | | | 1195 * | OUTPUT CARRIAGE RETURN AND LINE FEED TO TTY | | | | 00 | 01193 |

varian data 00 01193

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|--------|--------|---|------|------|---|---------|-----------------------|--|----|-------|-------|
| | | | 1198 | * | | | | | 00 | 01194 | |
| 007404 | 000000 | A | 1197 | OUTC | ENTR | 0 | | | 00 | 01195 | |
| 007405 | 054005 | A | 1198 | | STA | **6 | SAVE A | | 00 | 01195 | |
| 007406 | 006010 | A | 1199 | | LDAI | 0106512 | CR AND LF | | 00 | 01197 | |
| 007407 | 106612 | A | | | | | | | | | |
| 007410 | 002000 | A | 1200 | | CALL | OUTB | OUTPUT 2 CHAR | | 00 | 01198 | |
| 007411 | 007371 | A | | | | | | | | | |
| 007412 | 006010 | A | 1201 | | LJAI | 0 | RESTORE A | | 00 | 01199 | |
| 007413 | 000000 | A | | | | | | | | | |
| 007414 | 001000 | A | 1202 | | JMP* | OUTC | RETURN | | 00 | 01200 | |
| 007415 | 107404 | A | | | | | | | | | |
| | | | 1203 | * | | | | | 00 | 01201 | |
| | | | 1204 | * | OUTPUT OCTAL WORD AND A SPACE TO TTY | | | | | 00 | 01202 |
| | | | 1205 | * | | | | | 00 | 01203 | |
| 007416 | 000000 | A | 1206 | OUTE | ENTR | 0 | | | 00 | 01204 | |
| 007417 | 064022 | A | 1207 | | STR | **19 | SAVE B | | 00 | 01205 | |
| 007420 | 005002 | A | 1208 | | TZB | | | | 00 | 01206 | |
| 007421 | 004557 | A | 1209 | | LLSR | 15 | | | 00 | 01207 | |
| 007422 | 005122 | A | 1210 | | IBR | | | | 00 | 01208 | |
| 007423 | 006110 | A | 1211 | OUT2 | DRAI | '0' | MAKE DIGIT | | 00 | 01209 | |
| 007424 | 000260 | A | | | | | | | | | |
| 007425 | 002000 | A | 1212 | | CALL | OUTA | OUTPUT ONE DIGIT | | 00 | 01210 | |
| 007426 | 007334 | A | | | | | | | | | |
| 007427 | 005001 | A | 1213 | | TZA | | | | 00 | 01211 | |
| 007430 | 004443 | A | 1214 | | LLRL | 3 | | | 00 | 01212 | |
| 007431 | 001020 | A | 1215 | | JBZ | **4 | OCTAL OUTPUT COMPLETE | | 00 | 01213 | |
| 007432 | 007435 | A | | | | | | | | | |
| 007433 | 001000 | A | 1216 | | JMP | OUT2 | | | 00 | 01214 | |
| 007434 | 007423 | A | | | | | | | | | |
| 007435 | 006010 | A | 1217 | | LDAI | 0240 | ASCII BLANK CODE | | 00 | 01215 | |
| 007436 | 000240 | A | | | | | | | | | |
| 007437 | 002000 | A | 1218 | | CALL | OUTA | OUTPUT SPACE | | 00 | 01216 | |
| 007440 | 007334 | A | | | | | | | | | |
| 007441 | 006020 | A | 1219 | | LDBI | 0 | RESTORE B | | 00 | 01217 | |
| 007442 | 000000 | A | | | | | | | | | |
| 007443 | 001000 | A | 1220 | | JMP* | OUTE | RETURN | | 00 | 01218 | |
| 007444 | 107416 | A | | | | | | | | | |
| | | | 1221 | * | | | | | 00 | 01219 | |
| | | | 1222 | * | OUTPUT MESSAGE TO TTY (X REG CONTAINS ADDRESS OF MESSAGE) | | | | | 00 | 01220 |
| | | | 1223 | * | | | | | 00 | 01221 | |
| 007445 | 000000 | A | 1224 | OUTD | ENTR | 0 | | | 00 | 01222 | |
| 007446 | 015000 | A | 1225 | | LDA | 0 | | | 00 | 01223 | |



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|--------|--------|---|------|------|--|-----------------------------|----|-------|
| 007447 | 001010 | A | 1226 | JAZ* | OUTD | | 00 | 01224 |
| 007450 | 107445 | A | | | | | | |
| 007451 | 002000 | A | 1227 | CALL | OUTB | | 00 | 01225 |
| 007452 | 007371 | A | | | | | | |
| 007453 | 005144 | A | 1228 | IXR | | | 00 | 01226 |
| 007454 | 001000 | A | 1229 | JMP | OUTD+1 | | 00 | 01227 |
| 007455 | 007446 | A | | | | | | |
| | | | 1230 | * | | | 00 | 01228 |
| | | | 1231 | * | OUTPUT OCTAL MEMORY ADDRESS TO TTY PRINTER | | 00 | 01229 |
| | | | 1232 | * | | | 00 | 01230 |
| 007456 | 000000 | A | 1233 | OUTF | ENTR | 0 | 00 | 01231 |
| 007457 | 054071 | A | 1234 | STA | T902 | SAVE WORD | 00 | 01232 |
| 007458 | 005010 | A | 1235 | LOAI | '(' | PAREN SPACE | 00 | 01233 |
| 007459 | 124240 | A | | | | | | |
| 007462 | 002000 | A | 1236 | CALL | OUTB | PRINT CHAR | 00 | 01234 |
| 007463 | 007371 | A | | | | | | |
| 007464 | 014054 | A | 1237 | LDA | T902 | | 00 | 01235 |
| 007465 | 002000 | A | 1238 | J4PM | OUTE | OUTPUT OCTAL WORD | 00 | 01236 |
| 007466 | 007416 | A | | | | | | |
| 007467 | 005010 | A | 1239 | LOAI |)) | RIGHT PARENTHESIS AND SPACE | 00 | 01237 |
| 007470 | 124540 | A | | | | | | |
| 007471 | 002000 | A | 1240 | CALL | OUTB | | 00 | 01238 |
| 007472 | 007371 | A | | | | | | |
| 007473 | 001000 | A | 1241 | JMP* | OUTF | | 00 | 01239 |
| 007474 | 107455 | A | | | | | | |
| | | | 1242 | * | | | 00 | 01240 |
| | | | 1243 | * | INVALID INPUT--PRINT MESSAGE | | 00 | 01241 |
| | | | 1244 | * | | | 00 | 01242 |
| 007475 | 000000 | A | 1245 | OUTG | ENTR | 0 | 00 | 01243 |
| 007476 | 005030 | A | 1246 | LOXI | MSG5 | INVALID MESSAGE | 00 | 01244 |
| 007477 | 005453 | A | | | | | | |
| 007500 | 002000 | A | 1247 | CALL | OUTD | OUTPUT MESSAGE | 00 | 01245 |
| 007501 | 007445 | A | | | | | | |
| 007502 | 001000 | A | 1248 | JMP* | OUTG | | 00 | 01246 |
| 007503 | 107475 | A | | | | | | |
| | | | 1249 | * | | | 00 | 01247 |
| | | | 1250 | * | OUTPUT CONTROL CHARACTER SUBROUTINE | | 00 | 01248 |
| | | | 1251 | * | | | 00 | 01249 |
| 007504 | 054020 | A | 1252 | OUT3 | STA | OUTH+3 | 00 | 01250 |
| 007505 | 074020 | A | 1253 | STX | OUTH+4 | SAVE X | 00 | 01251 |
| 007506 | 034013 | A | 1254 | LUX | OUTH | A=CONTROL | 00 | 01252 |
| 007507 | 015000 | A | 1255 | LDA | 0,1 | CHARACTER | 00 | 01253 |



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|--------|--------|---|------|------|-------------------------|-------------------|----|-------|
| 007510 | 002000 | A | 1256 | CALL | OUTA | OUTPUT CHARACTER | 00 | 01254 |
| 007511 | 007334 | A | | | | | | |
| 007512 | 006030 | A | 1257 | LJXI | 077777 | INIT | 00 | 01255 |
| 007513 | 077777 | A | | | | | | |
| 007514 | 002000 | A | 1258 | CALL | TDLY | TIME DELAY | 00 | 01256 |
| 007515 | 007527 | A | | | | | | |
| 007516 | 044003 | A | 1259 | INR | OUTH | SET RETURN | 00 | 01257 |
| 007517 | 014005 | A | 1260 | LDA | OUTH+3 | RESTORE A | 00 | 01258 |
| 007520 | 034005 | A | 1261 | LJX | OUTH+4 | RESTORE X | 00 | 01259 |
| 007521 | 001000 | A | 1262 | JMP | 0 | RETURN | 00 | 01260 |
| 007522 | 000000 | A | | | | | | |
| 007522 | | | 1263 | OUTH | BES | 0 | 00 | 01261 |
| 007523 | 001000 | A | 1264 | JMP | OUT3 | LOOP | 00 | 01262 |
| 007524 | 007504 | A | | | | | | |
| 007525 | | | 1265 | BSS | 2 | STORAGE FOR A + X | 00 | 01263 |
| | | | 1266 | * | | | 00 | 01264 |
| | | | 1267 | * | TIME DELAY SUBROUTINE | | 00 | 01265 |
| | | | 1268 | * | | | 00 | 01266 |
| 007527 | 000000 | A | 1269 | TDLY | ENR | 0 | 00 | 01267 |
| 007530 | 005344 | A | 1270 | | DXR | | 00 | 01268 |
| 007531 | 001040 | A | 1271 | JXZ* | TDLY | RETURN | 00 | 01269 |
| 007532 | 107527 | A | | | | | | |
| 007533 | 001000 | A | 1272 | JMP | *-3 | | 00 | 01270 |
| 007534 | 007530 | A | | | | | | |
| | | | 1273 | * | | | 00 | 01271 |
| | | | 1274 | * | I/O TIME-OUT SUBROUTINE | | 00 | 01272 |
| | | | 1275 | * | | | 00 | 01273 |
| 007535 | 005344 | A | 1276 | TOU1 | DXR | | 00 | 01274 |
| 007536 | 001040 | A | 1277 | JXZ* | TOUT | TIME-OUT RETURN | 00 | 01275 |
| 007537 | 107543 | A | | | | | | |
| 007540 | 044002 | A | 1278 | INR | TOUT | SET UP FOR | 00 | 01276 |
| 007541 | 044001 | A | 1279 | INR | TOUT | NORMAL EXIT | 00 | 01277 |
| 007542 | 001000 | A | 1280 | JMP | 0 | | 00 | 01278 |
| 007543 | 000000 | A | | | | | | |
| 007543 | | | 1281 | TOUT | BES | 0 | 00 | 01279 |
| 007544 | 001000 | A | 1282 | JMP | TOU1 | | 00 | 01280 |
| 007545 | 007535 | A | | | | | | |
| | | | 1283 | * | | | 00 | 01281 |
| | | | 1284 | * | DATA TABLE | | 00 | 01282 |
| | | | 1285 | * | | | 00 | 01283 |
| 007546 | 000002 | A | 1286 | DATA | 2 | | 00 | 01284 |
| 007547 | 000254 | A | 1287 | DATA | 0854 | | 00 | 01285 |

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|--------|--------|------|--------|------|------|---|-------------------|--|----------|
| | | | 1288 * | | | | | | 00 01286 |
| 007550 | 000000 | A | 1289 | TS01 | DATA | 0 | TEMPORARY STORAGE | | 00 01287 |
| 007551 | 000000 | A | 1290 | TS02 | DATA | 0 | TEMPORARY STORAGE | | 00 01288 |
| 007552 | 000000 | A | 1291 | TS03 | DATA | 0 | TEMPORARY STORAGE | | 00 01289 |
| 007553 | 000000 | A | 1292 | TS05 | DATA | 0 | TEMPORARY STORAGE | | 00 01290 |
| 007554 | 000000 | A | 1293 | TS06 | DATA | 0 | TEMPORARY STORAGE | | 00 01291 |
| 007555 | 000000 | A | 1294 | TS07 | DATA | 0 | TEMPORARY STORAGE | | 00 01292 |
| | | | 1295 * | | | | | | 00 01293 |
| 007000 | A | 1296 | | EVD | EBGX | | | | 00 01294 |

ENTRY NAMES
EXTERNAL NAMES
SYMBOLS

| | | | | | | | | | | | |
|--------|---|------|--------|---|------|--------|---|-------|--------|---|------|
| 000442 | A | SCON | 000440 | A | SFLG | 000441 | A | S MEN | 007370 | A | STTY |
| 007755 | A | BLEA | 007577 | A | BLSA | 000464 | A | CKSM | 007546 | A | D2 |
| 007547 | A | D254 | 005206 | A | DHLT | 005305 | A | DRCD | 005237 | A | DUMP |
| 000443 | A | EAR1 | 005636 | A | EARG | 006171 | A | EBG1 | 006204 | A | EBG2 |
| 005150 | A | EBGN | 007000 | A | EBGX | 005172 | A | EBP1 | 005136 | A | EBPN |
| 000444 | A | EBR1 | 005665 | A | EBRG | 006064 | A | ECN2 | 006035 | A | ECN3 |
| 006024 | A | ECNG | 005776 | A | EDU1 | 006003 | A | EDU2 | 006017 | A | EDU4 |
| 005761 | A | EDUM | 005754 | A | EGD1 | 005741 | A | EGOT | 000454 | A | EK00 |
| 000455 | A | EK01 | 000456 | A | EK02 | 005100 | A | ELDC | 006327 | A | ELDD |
| 005214 | A | EOR | 005125 | A | EPU1 | 005100 | A | EPUN | 005603 | A | ESR1 |
| 005614 | A | ESR2 | 005575 | A | ESR4 | 005632 | A | ESR5 | 005551 | A | ESRC |
| 006500 | A | ESZ1 | 006515 | A | ESZ2 | 006471 | A | ESZA | 006522 | A | ESZB |
| 006161 | A | ESZC | 006536 | A | ETAB | 006271 | A | ETBL | 006251 | A | ETD4 |
| 006221 | A | ETOP | 005536 | A | ETR1 | 005546 | A | ETR2 | 005504 | A | ETR3 |
| 005450 | A | ETRP | 000446 | A | ETS1 | 000400 | A | EX00 | 000401 | A | EX01 |
| 000402 | A | EX02 | 000403 | A | EX03 | 000404 | A | EX04 | 000405 | A | EX05 |
| 000406 | A | EX06 | 000407 | A | EX07 | 000410 | A | EX10 | 000411 | A | EX11 |
| 000412 | A | EX12 | 000413 | A | EX13 | 000414 | A | EX14 | 000415 | A | EX15 |
| 000418 | A | EX16 | 000417 | A | EX17 | 000420 | A | EX20 | 000421 | A | EX21 |
| 000422 | A | EX26 | 000423 | A | EX27 | 000424 | A | EX30 | 000425 | A | EX31 |
| 000426 | A | EX32 | 000465 | A | EXEC | 006323 | A | EXIT | 000445 | A | EXR1 |
| 005713 | A | EXRG | 000462 | A | FRST | 006412 | A | HLTF | 006723 | A | INA1 |
| 006732 | A | INA2 | 006742 | A | INB1 | 007026 | A | INC1 | 007030 | A | INC2 |
| 007004 | A | INC3 | 007062 | A | IND1 | 007064 | A | IND2 | 007072 | A | IND3 |
| 007036 | A | IND4 | 007123 | A | INE1 | 007125 | A | INE2 | 007076 | A | INE3 |
| 007163 | A | INF1 | 007165 | A | INF2 | 007161 | A | INF3 | 007167 | A | INF4 |
| 007133 | A | INF5 | 007272 | A | ING1 | 007243 | A | ING2 | 007237 | A | ING3 |
| 007241 | A | ING4 | 007200 | A | ING5 | 007255 | A | ING6 | 007173 | A | ING7 |
| 007266 | A | ING8 | 007301 | A | INH1 | 007322 | A | INH2 | 007313 | A | INH3 |
| 007323 | A | INI1 | 005433 | A | INI2 | 005444 | A | INI3 | 005404 | A | INIT |



| | | | | | | | | | | | |
|--------|---|------|--------|---|------|--------|---|-------|--------|---|-------|
| 005737 | A | INPA | 006753 | A | INPB | 007033 | A | INPC | 007067 | A | INPD |
| 007130 | A | INPE | 007170 | A | INPF | 007250 | A | INPG | 007317 | A | INPH |
| 007331 | A | INPI | 000460 | A | K100 | 000461 | A | K200 | 000457 | A | K40 |
| 000463 | A | LAST | 000470 | A | LOAD | 006413 | A | MSG1 | 006434 | A | MSG2 |
| 006447 | A | MSG3 | 006457 | A | MSG4 | 006463 | A | MSG5 | 007361 | A | OUT1 |
| 007423 | A | OUT2 | 007504 | A | OUT3 | 007334 | A | OUTA | 007371 | A | OUTB |
| 007404 | A | OUTC | 007445 | A | OUTD | 007416 | A | OUTE | 007456 | A | OUTF |
| 007475 | A | OUTG | 007522 | A | OUTH | 005334 | A | PBOOT | 005327 | A | PDATA |
| 006367 | A | PHLT | 005373 | A | PLD1 | 005370 | A | PLDR | 005226 | A | Pdff |
| 005270 | A | PRCD | 006356 | A | PWON | 005340 | A | PWR1 | 005353 | A | PWR2 |
| 005342 | A | PWRD | 000472 | A | PWRK | 006370 | A | PWRU | 006406 | A | SAVA |
| 006407 | A | SAVB | 006411 | A | SAVO | 006410 | A | SAVX | 006601 | A | SSW1 |
| 006606 | A | SSW2 | 006623 | A | SSW3 | 006636 | A | SSW4 | 006647 | A | SSW5 |
| 006656 | A | SSW6 | 006707 | A | SSWE | 006610 | A | SSWL | 006642 | A | SSWN |
| 006546 | A | SSWP | 006672 | A | SSWR | 006704 | A | SSWS | 006720 | A | SSWT |
| 000467 | A | TAPE | 000466 | A | TAPN | 007527 | A | TDLY | 007535 | A | TDU1 |
| 007543 | A | TOUT | 007550 | A | TS01 | 007551 | A | TS02 | 007552 | A | TS03 |
| 000471 | A | TS04 | 007553 | A | TS05 | 007554 | A | TS06 | 007555 | A | TS07 |

0 ERRORS ASSEMBLY COMPLETE



