

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43

-----  
/  
/  
/  
/  
/  
/  
/ THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE TO THE  
/ CUSTOMER; THE CONTENTS OR DETAILS OF ITS OPERATION MAY ONLY  
/ BE DISCLOSED TO PERSONS EMPLOYED BY THE CUSTOMER WHO  
/ REQUIRE A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT  
/ THEIR JOB. DISCLOSURE TO ANY OTHER PERSON MUST HAVE PRIOR  
/ AUTHORIZATION FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED  
/

/1 SUITE : P.C.B. LAYOUT  
/2 PROGRAM TITLE : REDAL23 MARK2  
/3 ROUTINE TITLE :

/4 AUTHOR :  
/5 DATE :

/6 PURPOSE :

/7 CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS :

/8 I/O DEVICES AND FUNCTIONS :

/9 REGISTERS USED :

/10 EXTERNAL COMMON AREAS :

/11 INTERNAL COMMON AREAS :

/12 EXTERNAL GLOBALS :

/13 INTERNAL GLOBALS :

/14 CONDITIONAL ASSEMBLY PARAMETERS :

/15 METHOD :

/16 AMENDMENTS :  
/

| PAGE | 2 | SUBS     | SRC      | SUBS                                                   |
|------|---|----------|----------|--------------------------------------------------------|
| 44   |   |          |          | .TITLE SUBS                                            |
| 45   |   |          |          | .GLOBL SELECT,BUTTON,CNTROL,.DA,MESS1,SUBS             |
| 46   |   | 000000 R | 000000 A | PUSB .CBD PUSB 1                                       |
| 47   |   | 000001 R | 000000 A | SUBS 0 / DUMMY GLOBAL TO ENABLE ROUTINE TO BE INCLUDED |
| 48   |   |          |          | / IN .LIBR5 (THE USER LIBRARY FILE)                    |
| 49   |   |          |          | .IODEV 10                                              |
| 50   |   | 000002 R | 740040 A | CNTROL XX                                              |
| 51   |   | 000003 R | 120120 E | JMS* .DA                                               |
| 52   |   | 000004 R | 600006 R | JMP .+2                                                |
| 53   |   | 000005 R | 000000 A | N 0                                                    |
| 54   |   | 000006 R | 140107 R | DZM VTRBUF                                             |
| 55   |   |          |          | .READ 10,3,VTRBUF,1                                    |
|      |   | 000007 R | 003010 A | *G CAL+3*1000 10&777                                   |
|      |   | 00010 R  | 000010 A | *G 10                                                  |
|      |   | 00011 R  | 000107 R | *G VTRBUF                                              |
|      |   |          |          | *G .DEC                                                |
|      |   | 00012 R  | 777777 A | *G -1                                                  |
| 56   |   |          |          | .WAIT 10                                               |
|      |   | 00013 R  | 000010 A | *G CAL 10&777                                          |
|      |   | 00014 R  | 000012 A | *G 12                                                  |
| 57   |   | 00015 R  | 200114 R | LAC VTRBUF+5 /NAME REGISTER                            |
| 58   |   | 00016 R  | 040116 R | DAC RNAME#                                             |
| 59   |   | 00017 R  | 723766 A | AAC -12                                                |
| 60   |   | 00020 R  | 741100 A | SPA                                                    |
| 61   |   | 00021 R  | 600006 R | JMP N+1                                                |
| 62   |   | 00022 R  | 740030 A | IAC                                                    |
| 63   |   | 00023 R  | 060005 R | DAC* N                                                 |
| 64   |   | 00024 R  | 620002 R | JMP* CNTROL                                            |
| 65   |   |          |          | /                                                      |
| 66   |   |          |          | /                                                      |
| 67   |   |          |          | /                                                      |
| 68   |   |          |          | /                                                      |
| 69   |   | 00025 R  | 740040 A | SELECT XX                                              |
| 70   |   | 00026 R  | 200000 R | LAC PUSB                                               |
| 71   |   | 00027 R  | 040115 R | DAC KEYVAL /1ST WORD MESSAGE BUFFER                    |
| 72   |   | 00030 R  | 652000 A | LMQ                                                    |
| 73   |   | 00031 R  | 200121 R | LAC (MESS                                              |
| 74   |   | 00032 R  | 160115 R | DZM* KEYVAL                                            |
| 75   |   | 00033 R  | 120117 E | JMS* MESS1                                             |
| 76   |   | 00034 R  | 620025 R | JMP* SELECT                                            |
| 77   |   |          |          | /                                                      |
| 78   |   |          |          | /                                                      |
| 79   |   |          |          | /                                                      |
| 80   |   | 00035 R  | 001236 A | MESS 1236                                              |
| 81   |   | 00036 R  | 000027 A | 27                                                     |
| 82   |   | 00037 R  | 202470 A | .ASCII / SELECT_/                                      |
|      |   | 00040 R  | 546212 A |                                                        |
|      |   | 00041 R  | 416513 A |                                                        |
|      |   | 00042 R  | 700000 A |                                                        |
| 83   |   |          |          | /                                                      |
| 84   |   |          |          | /                                                      |
| 85   |   |          |          | /                                                      |

| PAGE | 3 | SUBS  | SRC           | SUBS                                                 |
|------|---|-------|---------------|------------------------------------------------------|
| 86   |   | 00043 | R 740040 A    | BUTT <del>XXXX</del>                                 |
| 87   |   | 00044 | R 703032 A    | REED <del>RS2</del> +10                              |
| 88   |   | 00045 | R 500122 R    | AND (770000                                          |
| 89   |   | 00046 | R 040115 R    | DAC KEYVAL# /STATUS OF KEYS                          |
| 90   |   |       |               | .READ 10,7,VTRBUF,1 /NON. STANDARD READ ON LP OR PB. |
|      |   | 00047 | R 007010 A *G | CAL+7*1000 10&777                                    |
|      |   | 00050 | R 000010 A *G | 10                                                   |
|      |   | 00051 | R 000107 R *G | VTRBUF                                               |
|      |   |       |               | .DEC                                                 |
|      |   | 00052 | R 777777 A *G | -1                                                   |
| 91   |   | 00053 | R 300300 A    | 300300                                               |
| 92   |   |       |               | .WAIT 10                                             |
|      |   | 00054 | R 000010 A *G | CAL 10&777                                           |
|      |   | 00055 | R 000012 A *G | 12                                                   |
| 93   |   | 00056 | R 200107 R    | LAC VTRBUF                                           |
| 94   |   | 00057 | R 742010 A    | RTL                                                  |
| 95   |   | 00060 | R 741400 A    | SZL                                                  |
| 96   |   | 00061 | R 600073 R    | JMP BUTT /BUTTON INT.                                |
| 97   |   | 00062 | R 200111 R    | LAC VTRBUF+2 /ELSE LP INT.                           |
| 98   |   | 00063 | R 723776 A    | AAC -2                                               |
| 99   |   | 00064 | R 741100 A    | SPA                                                  |
| 100  |   | 00065 | R 600044 R    | JMP REED /NOT LIGHT BUTTON.                          |
| 101  |   | 00066 | R 723002 A    | AAC 2                                                |
| 102  |   | 00067 | R 540116 R    | SAD RNAME                                            |
| 103  |   | 00070 | R 600044 R    | JMP REED /ALREADY IN THIS ROUTINE                    |
| 104  |   | 00071 | R 200123 R    | LAC (6 /PRETEND ITS BUTTON 6                         |
| 105  |   | 00072 | R 620043 R    | JMP* BUTTON                                          |
| 106  |   | 00073 | R 200110 R    | BUTT LAC VTRBUF+1 /RS2 WORD                          |
| 107  |   | 00074 | R 500122 R    | AND (770000                                          |
| 108  |   | 00075 | R 240115 R    | XOR KEYVAL                                           |
| 109  |   | 00076 | R 741200 A    | SNA                                                  |
| 110  |   | 00077 | R 600044 R    | JMP REED                                             |
| 111  |   | 00100 | R 140115 R    | DZM KEYVAL                                           |
| 112  |   | 00101 | R 740010 A    | RAL                                                  |
| 113  |   | 00102 | R 440115 R    | ISZ KEYVAL                                           |
| 114  |   | 00103 | R 740400 A    | SNL                                                  |
| 115  |   | 00104 | R 600101 R    | JMP .-3                                              |
| 116  |   | 00105 | R 200115 R    | LAC KEYVAL                                           |
| 117  |   | 00106 | R 620043 R    | JMP* BUTTON                                          |
| 118  |   |       | 703022 A      | RS2=703022                                           |
| 119  |   | 00107 | R A           | VTRBUF .BLOCK 6                                      |
| 120  |   |       | 000000 A      | .END                                                 |
|      |   | 00117 | R 000117 E *E |                                                      |
|      |   | 00120 | R 000120 E *E |                                                      |
|      |   | 00121 | R 000035 R *L |                                                      |
|      |   | 00122 | R 770000 A *L |                                                      |
|      |   | 00123 | R 000006 A *L |                                                      |
|      |   |       | SIZE=00124    | NO ERROR LINES                                       |

PAGE 4 SUBS CROSS REFERENCE

|        |        |     |      |     |     |     |     |     |      |
|--------|--------|-----|------|-----|-----|-----|-----|-----|------|
| BUTT   | 00073  | 96  | 106* |     |     |     |     |     |      |
| BUTTON | 00043  | 45  | 86*  | 105 | 117 |     |     |     |      |
| CNTROL | 00002  | 45  | 50*  | 64  |     |     |     |     |      |
| KEYVAL | 00115  | 71  | 74   | 89  | 108 | 111 | 113 | 116 |      |
| MESS   | 00035  | 73  | 80*  |     |     |     |     |     |      |
| MESS1  | 00117  | 45  | 75   |     |     |     |     |     |      |
| N      | 00005  | 53* | 61   | 63  |     |     |     |     |      |
| PUSB   | 00000  | 46* | 46   | 70  |     |     |     |     |      |
| REED   | 00044  | 87* | 100  | 103 | 110 |     |     |     |      |
| RNAME  | 00116  | 58  | 102  |     |     |     |     |     |      |
| RS2    | 703022 | 87  | 118* |     |     |     |     |     |      |
| SELECT | 00025  | 45  | 69*  | 76  |     |     |     |     |      |
| SUBS   | 00001  | 44  | 45   | 47* |     |     |     |     |      |
| VTRBUF | 00107  | 54  | 55   | 57  | 90  | 93  | 97  | 106 | 119* |
| .DA    | 00120  | 45  | 51   |     |     |     |     |     |      |