



CONRAD-JOHNSON DESIGN INC  
 2800R DORR AVE FAIRFAX VA

|                             |             |              |
|-----------------------------|-------------|--------------|
| MODEL EV 2000               | DATE 6/8/90 | CHECKED: WGT |
| DRAWN BY <i>[Signature]</i> |             | 1-17-91      |

120 V WIRING SHOWN

## EV2000 PARTS LIST

(all resistors 1/2 watt unless otherwise designated)

|         |                  |         |                    |
|---------|------------------|---------|--------------------|
| R1      | 1.2K/3W          | C16     | 470uF/50V ELECT    |
| R2      | 560K/2W          | C17     | 47uF/35V ELECT     |
| R3      | 330              | C18-C19 | 59,000uF/75V ELECT |
| R4      | 18.2K            | C20-C21 | .15uF/100V PS      |
| R5      | 910K             | C22-C23 | 30uF/250V PP       |
| R6      | 91K              | C24-C25 | 13.5uF/400V PP     |
| R7      | 910K             | C26-C27 | .5uF/100V PS       |
| R8      | 1K               | C28-C29 | 13.5uF/400V PP     |
| R9      | 47               | C30-C31 | .5uF/100V PS       |
| R10     | 10K/1W           | C32-C33 | .01uF/600V PS      |
| R11-R12 | 82.5K 1/2W       | C34-C35 | 13.5uF/400V PP     |
| R13-R14 | 221              | C36-C37 | .5uF/100V PS       |
| R15-R16 | 681              | C38-C39 | 13.5uF/400V PP     |
| R17-R18 | 1.8K/2W          | C40-C41 | .5uF/100V PS       |
| R19-R20 | 47.5K            | C42-C45 | 20pF               |
| R21-R22 | 221              | C46-C49 | .15uF/600V PS      |
| R23-R24 | 681              | C50-C51 | 30uF/500V PP       |
| R25     | 100K             | C52-C53 | .15uF/100V PS      |
| R26-R30 | 1.1K             | C54     | .01uF/100V PP      |
| R31-R34 | 162K 1/2W        | D1-D8   | IN4007             |
| R35-R36 | 68.1K            | D9-D12  | FR302              |
| R37-R38 | 10K 20TURN POT.  | D13-D20 | IN4007             |
| R39-R40 | 221K             | D21-D22 | IN4148             |
| R41-R42 | 221              | D23-D34 | IN5257             |
| R43     | 475              | D35-D38 | IN4007             |
| R44     | 221              | D39     | L.E.D.             |
| R45     | 475              | D40-D43 | IN4148             |
| R46     | 221              | D44-D47 | IN4007             |
| R47     | 475              | D48-D49 | IN5257             |
| R48     | 221              | D50-D51 | IN5261             |
| R49     | 475              | D52-D53 | IN4148             |
| R50     | 221              | D56-D57 | IN5254             |
| R51     | 47.5             | D58-D61 | IN4007             |
| R52     | 221              | D62-D63 | IN4148             |
| R53     | 475              | D64-D67 | IN5234             |
| R54-R55 | 20.0/2W          | D68     | IN4007             |
| C1      | .47uF/250V       | Q1      | MPSU60             |
| C2      | .01uF/1KV        | Q2      | MPSU10             |
| C3      | 20uF/600V PP     | Q3      | MJE340             |
| C4      | .01uF/600V PS    | Q4      | 2N4870             |
| C5      | 20uF/800V PP     | Q5      | 2N6238             |
| C6      | .15uF/600V PS    | Q6      | MPSU60             |
| C7      | .01uF/600V PS    | Q7-Q8   | MPSU10             |
| C8      | 2uF/600V PP      | Q9      | MPSU60             |
| C9      | .15uF/600V PSD   | Q10     | MJE340             |
| C10     | 20uF/600V PP     | Q11     | MJE350             |
| C11     | .15uF/600 PS     | Q12     | MPSU60             |
| C12     | 22uF/50V ELECT   | Q13-Q14 | MPSU10             |
| C13     | 4700uF/35V ELECT | Q15     | MPSU60             |
| C14     | .47uF/200V PP    | Q16     | MJE340             |
| C15     | 4700uF/35V ELECT | Q17     | MJE350             |

EV2000 PARTS LIST (CONT'D)

|       |                |
|-------|----------------|
| Q18   | K216           |
| Q19   | J79            |
| Q20   | K135           |
| Q21   | J50            |
| Q22   | K135           |
| Q23   | J50            |
| Q24   | K135           |
| Q25   | J50            |
| Q26   | K135           |
| Q27   | J50            |
| Q28   | K135           |
| Q29   | J50            |
| RL1   | RELAY          |
| RL2   | RELAY          |
| V1-V2 | 5751           |
| U1    | 7812CK         |
| BR1   | MB254          |
| T1    | C126-154       |
| T2    | C126-128A      |
| T3    | DP-241-4-16    |
| F1    | 15A S.B.       |
| F2    | 1A S.B.        |
| F3    | .5A F.B.       |
| LF1   | AC LINE FILTER |