

# Bill Of Materials for WR-3700e Control Board

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| DESCRIPTION  | Shape        | Qty | COMPONENT DESIGNATOR(S)                                                                 |
|--------------|--------------|-----|-----------------------------------------------------------------------------------------|
| 27p          | 0805         | 2   | C1, C2                                                                                  |
| 33p          | 0805         | 2   | C101, C104                                                                              |
| 27n          | 0805         | 1   | C13                                                                                     |
| 39n          | 0805         | 1   | C11                                                                                     |
| 100n         | 0805         | 11  | C3, C4, C7, C8, C12, C85, C95, C96, C97, C103, C105                                     |
| 1u           | 1206         | 2   | C5, C10, C82                                                                            |
| 4.7u 16V     | RB.06/.2     | 3   | C87, C88, C89                                                                           |
| 22u 16V      | RB.06/.2     | 2   | C81, C83                                                                                |
| 100u 16V     | RB.1/.2      | 1   | C90                                                                                     |
| 2200u 16V    | AXIAL1.4     | 1   | C86                                                                                     |
| BAT54A       | SOT-23       | 1   | D84                                                                                     |
| BZX84-C4V7   | SOT-23       | 1   | D1                                                                                      |
| 1N4002       | DIODE0.4     | 2   | D82, D83                                                                                |
| PWR JACK     | DC JACK      | 1   | J81                                                                                     |
| FEMALE DB9   | DB9RA/F      | 1   | J32                                                                                     |
| DA15F-HD     | VGA15-FERR   | 1   | J1                                                                                      |
| 22uH         | IND.6/.2     | 3   | L81, L82, L95                                                                           |
| 6 hole bead  | BEAD2        | 5   | L51, L52, L53, L71, L72                                                                 |
| ZERO-R       | 0805         | 4   | LK1, LK2, LK81, LK82                                                                    |
| SPEAKER      | SIP2         | 1   | PL1                                                                                     |
| BD140        | TO-126       | 1   | Q81                                                                                     |
| PHN210       | S0-8         | 1   | Q82                                                                                     |
| BC848        | SOT-23       | 1   | Q83                                                                                     |
| ZERO-R       | 0805         | 1   | R71                                                                                     |
| 33R          | AXIAL0.4     | 2   | R40, R44                                                                                |
| 100R         | 0805         | 10  | R22, R23, R24, R25, R26, R27, R28, R29, R34, R112                                       |
| 390R 1%      | 0805         | 1   | R9                                                                                      |
| 680R         | 0805         | 3   | R66, R67, R68                                                                           |
| 1k2          | 0805         | 18  | R6, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R64, R65, R69, R70, R92, R93 |
| 1k5          | 0805         | 1   | R81                                                                                     |
| 4k7          | 0805         | 2   | R11, R13                                                                                |
| 10k          | 0805         | 6   | R2, R17, R18, R19, R20, R21                                                             |
| 22k          | 0805         | 1   | R97                                                                                     |
| 47k          | 0805         | 5   | R3, R4, R15, R16, R89                                                                   |
| 100k         | 0805         | 2   | R30, R63                                                                                |
| 100k 1%      | 0805         | 1   | R8                                                                                      |
| 4M7          | 0805         | 1   | R113                                                                                    |
| 4M7          | 1206         | 1   | R1                                                                                      |
| *BLANK*      | JACK-LJE0361 | 1   | SK1                                                                                     |
| RCA          | RCA          | 1   | SK52                                                                                    |
| 415-91-232-4 | RCVR3        | 1   | SK51                                                                                    |
| DPDT         | DPDT-PUSH    | 1   | SW81                                                                                    |
| WM-0135      | B-6TORIOD    | 1   | T81                                                                                     |
| 74HC04       | S0-14        | 1   | U86                                                                                     |
| MC68HC805B6  | PLCCSMT52    | 1   | U2                                                                                      |
| MC74AC74D    | S0-14        | 1   | U82                                                                                     |

|             |         |   |      |
|-------------|---------|---|------|
| SN75C189AD  | S0-14   | 1 | U32  |
| LM324M      | S0-14   | 1 | U3   |
| DS1233DZ-10 | S0T-223 | 1 | U1   |
| LM7805CT    | T0-220  | 1 | U84  |
| MC14017BD   | S0-16   | 1 | U100 |
| SN75188D    | S0-14   | 1 | U31  |
| 2.4576MHz   | HC49    | 1 | Y2   |
| 3.6864MHz   | HC49    | 1 | Y3   |

\*\*\* "Phantom" components \*\*\*\*\*

|         |           |   |                                   |
|---------|-----------|---|-----------------------------------|
| *BLANK* | CROSSHAIR | 3 | FID1, FID1, FID1                  |
| ?       | ETCHMARK  | 4 | FID2, FID2, FID2, FID2            |
| ?       | REGMARK1  | 4 | FID3, FID3, FID3, FID3            |
| TP      | TP        | 7 | TP1, TP2, TP3, TP4, TP5, TP6, TP7 |

\*\*\* Parts not fitted \*\*\*\*\*

|            |             |    |                                                                              |
|------------|-------------|----|------------------------------------------------------------------------------|
| CAP*       | 0805        | 1  | C14                                                                          |
| 27p        | 0805        | 1  | C100                                                                         |
| 47p        | 0805        | 2  | C140, C141                                                                   |
| 120p*      | 0805        | 1  | C84                                                                          |
| 330p       | 0805        | 1  | C102                                                                         |
| 5n6        | 0805        | 2  | C128, C133                                                                   |
| 8n2        | 0805        | 2  | C125, C130                                                                   |
| 27n*       | 0805        | 1  | C9                                                                           |
| 33n        | 0805        | 2  | C127, C132                                                                   |
| 100n       | 0805        | 4  | C6, C15, C142, C143                                                          |
| 150n       | 0805        | 2  | C126, C131                                                                   |
| 220n       | 1206        | 8  | C124, C129, C134, C135, C136, C137, C138, C139                               |
| 4u7 16V    | RB.06/.2    | 2  | C120, C121                                                                   |
| 47u 16V    | RB.1/.25    | 2  | C122, C144                                                                   |
| 100u 16V   | RB.1/.25    | 1  | C123                                                                         |
| BZX84-C4V7 | S0D-123     | 1  | D2                                                                           |
| LED        | SIP2        | 1  | D81                                                                          |
| 1A         | FUSEHOLDER1 | 1  | FS81                                                                         |
| 1A         | FUSEHOLDER2 | 1  | FS82                                                                         |
| 5V 178R    | RELAY 14X9  | 1  | K1                                                                           |
| 22uH*      | 1206        | 2  | L41, L42                                                                     |
| ZERO-R*    | 0805        | 13 | LK31, LK32, LK33, LK34, LK35, LK36, LK37, LK38, LK39, LK40, LK41, LK42, LK43 |
| ZERO-R*    | 0805/OLD    | 2  | LK3, LK4                                                                     |
| NPN-S0T23  | S0T-23      | 1  | Q100                                                                         |
| MUN2114-T1 | SC-59R      | 1  | Q1                                                                           |
| DNF*       | AXIAL0.4    | 1  | R41                                                                          |
| RES*       | 0805        | 1  | R38                                                                          |
| 2R7        | 0805        | 2  | R134, R135                                                                   |
| 22R        | AXIAL0.4    | 2  | R136, R137                                                                   |
| 33R*       | 0805        | 3  | R42, R43, R96                                                                |
| 820R*      | 0805        | 2  | R32, R33                                                                     |
| 1k         | 0805        | 1  | R95                                                                          |
| 1k2        | 0805        | 1  | R51                                                                          |
| 1k5*       | 0805        | 1  | R100                                                                         |
| 2k2        | 0805        | 2  | R121, R123                                                                   |
| 6k8        | 0805        | 1  | R94                                                                          |
| 10k*       | 0805        | 4  | R5, R7, R12, R111                                                            |
| 20k        | 0805        | 2  | R120, R122                                                                   |

|            |         |   |                                                 |
|------------|---------|---|-------------------------------------------------|
| 22k*       | 0805    | 3 | R98, R99, R110                                  |
| 33k*       | 0805    | 1 | R35                                             |
| 47k*       | 0805    | 8 | R10, R14, R124, R125,<br>R126, R127, R128, R129 |
| 100k 1%*   | 0805    | 1 | R31                                             |
| 220k       | 0805    | 4 | R130, R131, R132, R133                          |
| 470k*      | 0805    | 2 | R36, R37                                        |
| 74HC74     | S0-14   | 1 | U6                                              |
| NMC93C46M* | S0-8    | 1 | U5                                              |
| LM324*     | S0-14   | 1 | U4                                              |
| LM833      | S0-8    | 1 | U104                                            |
| LM1877M-9  | S0L-14  | 1 | U103                                            |
| LM2941CT   | T0220-5 | 1 | U83                                             |
| LM2991T*   | T0220-5 | 1 | U85                                             |
| TEA6320T   | S0L-32  | 1 | U102                                            |