

On the Subject of Error Codes

All of a sudden "Blue Screen of Death" takes on a whole new meaning.

- This module contains a screen displaying four 2-digit hexadecimal error codes.
- Only one of the four error codes is necessary to determine the fix code.
- Use **Table 1** to determine which error code to use, labeled 1st, 2nd, 3rd, 4th going left to right.
- Convert the error code from hexadecimal (hex) to decimal (dec) (See **Table 3**).
- Subtract the decimal error code from 101 to get the decimal fix code (for example, if the decimal error code is 48, the decimal fix code would be $101 - 48 = 53$).
- Use **Table 2** to determine which format the fix code must be entered in.
- Enter the full fix code in the proper format then press "Send" (See **Table 3**).
- Note: the fix code must include all appropriate leading zeros from the table: hexadecimal = 2 digits, decimal = 3 digits, octal = 3 digits, and binary = 7 digits.
- **Careful:** There is no backspace!

| | | | | | |
|-----------|---|---|------|---|-----------------------|
| <DISPLAY> | | | | | <input type="radio"/> |
| 0 | 1 | 2 | 3 | 4 | |
| 5 | 6 | 7 | 8 | 9 | |
| A | B | C | SEND | | |
| D | E | F | | | |

Table 1:

| | Number of Batteries is Even (0, 2, 4, 6...) | Number of Batteries is Odd (1, 3, 5, 7...) |
|--|--|---|
| Serial Number DOES Contain a Vowel: | 1st | 2nd |
| Serial Number DOES NOT Contain a Vowel: | 3rd | 4th |

Table 2:

| | Number of Batteries is Even (0, 2, 4, 6...) | Number of Batteries is Odd (1, 3, 5, 7...) |
|--|--|---|
| Serial Number DOES Contain a Vowel: | Decimal (Dec) | Octal (Oct) |
| Serial Number DOES NOT Contain a Vowel: | Hexadecimal (Hex) | Binary |

Table 3:

| Inp | Dec | Oct | Hex | Binary | Inp | Dec | Oct | Hex | Binary | Inp | Dec | Oct | Hex | Binary |
|-----|-----|-----|-----|---------|-----|-----|-----|-----|---------|-----|-----|-----|-----|---------|
| 65 | 000 | 000 | 00 | 0000000 | 43 | 034 | 042 | 22 | 0100010 | 21 | 068 | 104 | 44 | 1000100 |
| 64 | 001 | 001 | 01 | 0000001 | 42 | 035 | 043 | 23 | 0100011 | 20 | 069 | 105 | 45 | 1000101 |
| 63 | 002 | 002 | 02 | 0000010 | 41 | 036 | 044 | 24 | 0100100 | 1F | 070 | 106 | 46 | 1000110 |
| 62 | 003 | 003 | 03 | 0000011 | 40 | 037 | 045 | 25 | 0100101 | 1E | 071 | 107 | 47 | 1000111 |
| 61 | 004 | 004 | 04 | 0000100 | 3F | 038 | 046 | 26 | 0100110 | 1D | 072 | 110 | 48 | 1001000 |
| 60 | 005 | 005 | 05 | 0000101 | 3E | 039 | 047 | 27 | 0100111 | 1C | 073 | 111 | 49 | 1001001 |
| 5F | 006 | 006 | 06 | 0000110 | 3D | 040 | 050 | 28 | 0101000 | 1B | 074 | 112 | 4A | 1001010 |
| 5E | 007 | 007 | 07 | 0000111 | 3C | 041 | 051 | 29 | 0101001 | 1A | 075 | 113 | 4B | 1001011 |
| 5D | 008 | 010 | 08 | 0001000 | 3B | 042 | 052 | 2A | 0101010 | 19 | 076 | 114 | 4C | 1001100 |
| 5C | 009 | 011 | 09 | 0001001 | 3A | 043 | 053 | 2B | 0101011 | 18 | 077 | 115 | 4D | 1001101 |
| 5B | 010 | 012 | 0A | 0001010 | 39 | 044 | 054 | 2C | 0101100 | 17 | 078 | 116 | 4E | 1001110 |
| 5A | 011 | 013 | 0B | 0001011 | 38 | 045 | 055 | 2D | 0101101 | 16 | 079 | 117 | 4F | 1001111 |
| 59 | 012 | 014 | 0C | 0001100 | 37 | 046 | 056 | 2E | 0101110 | 15 | 080 | 120 | 50 | 1010000 |
| 58 | 013 | 015 | 0D | 0001101 | 36 | 047 | 057 | 2F | 0101111 | 14 | 081 | 121 | 51 | 1010001 |
| 57 | 014 | 016 | 0E | 0001110 | 35 | 048 | 060 | 30 | 0110000 | 13 | 082 | 122 | 52 | 1010010 |
| 56 | 015 | 017 | 0F | 0001111 | 34 | 049 | 061 | 31 | 0110001 | 12 | 083 | 123 | 53 | 1010011 |
| 55 | 016 | 020 | 10 | 0010000 | 33 | 050 | 062 | 32 | 0110010 | 11 | 084 | 124 | 54 | 1010100 |
| 54 | 017 | 021 | 11 | 0010001 | 32 | 051 | 063 | 33 | 0110011 | 10 | 085 | 125 | 55 | 1010101 |
| 53 | 018 | 022 | 12 | 0010010 | 31 | 052 | 064 | 34 | 0110100 | 0F | 086 | 126 | 56 | 1010110 |
| 52 | 019 | 023 | 13 | 0010011 | 30 | 053 | 065 | 35 | 0110101 | 0E | 087 | 127 | 57 | 1010111 |
| 51 | 020 | 024 | 14 | 0010100 | 2F | 054 | 066 | 36 | 0110110 | 0D | 088 | 130 | 58 | 1011000 |
| 50 | 021 | 025 | 15 | 0010101 | 2E | 055 | 067 | 37 | 0110111 | 0C | 089 | 131 | 59 | 1011001 |
| 4F | 022 | 026 | 16 | 0010110 | 2D | 056 | 070 | 38 | 0111000 | 0B | 090 | 132 | 5A | 1011010 |
| 4E | 023 | 027 | 17 | 0010111 | 2C | 057 | 071 | 39 | 0111001 | 0A | 091 | 133 | 5B | 1011011 |
| 4D | 024 | 030 | 18 | 0011000 | 2B | 058 | 072 | 3A | 0111010 | 09 | 092 | 134 | 5C | 1011100 |
| 4C | 025 | 031 | 19 | 0011001 | 2A | 059 | 073 | 3B | 0111011 | 08 | 093 | 135 | 5D | 1011101 |
| 4B | 026 | 032 | 1A | 0011010 | 29 | 060 | 074 | 3C | 0111100 | 07 | 094 | 136 | 5E | 1011110 |
| 4A | 027 | 033 | 1B | 0011011 | 28 | 061 | 075 | 3D | 0111101 | 06 | 095 | 137 | 5F | 1011111 |
| 49 | 028 | 034 | 1C | 0011100 | 27 | 062 | 076 | 3E | 0111110 | 05 | 096 | 140 | 60 | 1100000 |
| 48 | 029 | 035 | 1D | 0011101 | 26 | 063 | 077 | 3F | 0111111 | 04 | 097 | 141 | 61 | 1100001 |
| 47 | 030 | 036 | 1E | 0011110 | 25 | 064 | 100 | 40 | 1000000 | 03 | 098 | 142 | 62 | 1100010 |
| 46 | 031 | 037 | 1F | 0011111 | 24 | 065 | 101 | 41 | 1000001 | 02 | 099 | 143 | 63 | 1100011 |
| 45 | 032 | 040 | 20 | 0100000 | 23 | 066 | 102 | 42 | 1000010 | 01 | 100 | 144 | 64 | 1100100 |
| 44 | 033 | 041 | 21 | 0100001 | 22 | 067 | 103 | 43 | 1000011 | 00 | 101 | 145 | 65 | 1100101 |