



The upside down error codes are as follows :-

leftmost digit = MCU (sub-cpu) error code

- 0 = sub-cpu woke up OK
- 1 = sub-cpu internal ROM failure or sub-cpu failed to wake up

middle digit = eprom error (only positions 8B, 8D (main cpu) and 3E (sub-cpu) are checked)

- 0 = all 3 code eproms good
- 1 = eprom @ 8B failed checksum
- 2 = eprom @ 8D failed checksum
- 7 = eprom @ 3E (sub-cpu) failed checksum

rightmost digit = ram error

- 0 = all rams good
- 1 = work ram @ 9M bad (addresses \$3000-\$37ff)
- 2 = work ram @ 9N bad (addresses \$2000-\$27ff)
- 3 = work ram @ 9P bad (addresses \$2800-\$2fff)
- 4 = tile ram @ 9R bad (odd bytes addresses \$0000-\$0fff)
- 5 = tile ram @ 9S bad (even bytes addresses \$0000-\$0fff)
- 6 = tile ram @ 10R bad (odd bytes addresses \$1000-\$1fff)
- 7 = tile ram @ 10S bad (even bytes addresses \$1000-\$1fff)
- 9 = shared ram @ 3J/3K bad (one or both are bad)

The ghost character has no significance, it's merely there to look pretty.