

599 Menlo Drive, Suite 100 Rocklin, California 95765, USA **Office:** (916) 624-8333 **Fax:** (916) 624-8003 General: info@parallax.com Technical: support@parallax.com Web Site: www.parallax.com Educational: www.stampsinclass.com

## BASIC Stamp<sup>®</sup> 2e Change Notice (for Interpreter Chip Users)

This document contains details of revisions made to the BASIC Stamp 2e interpreter chip firmware as well as the BASIC Stamp 2e module. This information is intended only for use by customers who purchase the BS2e interpreter chips and embed the BASIC Stamp 2e circuit into their designs.

If you use BASIC Stamp 2e modules (as opposed to interpreter chips) then you can safely ignore this information.

As of July 2007, Parallax, Inc. has modified the firmware in the BASIC Stamp 2e interpreter chip in a way that increases reliability, but requires an electrical change on the PCB that the interpreter is used on. Parallax has already made the necessary changes to the new BASIC Stamp 2e modules that are produced, however, if you use the individual interpreter chips, instead of the modules, your embedded circuit will need to be modified in a similar way.

BS2e Details (interpreter chip changes, software and BS2e module changes):

Interpreter chip firmware updated to v1.2.

- Disabled internal interpreter brown-out detector. This change requires that, instead, an external brown-out detector be included in the circuit for proper operation.
- BASIC Stamp Editor v2.3.1 (or above) supports this new firmware version.

EEPROM changed to a Microchip 24FC128I. The previous EEPROM (Catalyst 24WC128J) has been discontinued by the manufacturer. This change is independent of the firmware update; if you have a supply of EEPROMS that you've successfully used in previous builds, there is no need to change it. NOTICE: The Catalyst 24C128WI is not recommended for use in the BS2e circuit.

The 20 MHz resonator has been replaced with a RoHS compliant, industrial, resonator.

• A 10 K Ohm feedback resistor across the XI/XO pins of the resonator is used to optimize oscillation across the industrial temperature range.

The schematic on the following page shows the current design in use, as described above. Please review it to aid in adjusting your BS2e embedded designs.

If you have any further questions regarding this matter, please contact us and we will answer them promptly.



599 Menlo Drive, Suite 100 Rocklin, CA 95765, USA Office: (916) 624-8333 Fax: (916) 624-8003 General: info@parallax.com Technical: support@parallax.com Web Site: www.parallax.com Educational: www.stampsinclass.com

