

## Active Errata List

- No Active Erratas in Latest Version of Bootloader.

## Errata History

| Bootloader Version | Errata List              |
|--------------------|--------------------------|
| 1.1.1              | 1, 2, 3, 4, 5, 6, 7      |
| 1.2.0              | All known troubles fixed |

## Errata Descriptions

### 1. ISP Command Read Data

In response to an ISP Command Read Data, the bootloader sends the last data frame with stuffing bytes (FFh) to keep 16-byte frame length.

#### Workaround

ISP software host application should ignore these stuffing data bytes.

### 2. SBV and BSB Protection in ISP Mode

SBV and BSB modification are possible regardless of security level settings (SSB).

#### Workaround

The ISP software host application should read the SSB value before allowing any SBV and BSB modification according to the SSB setting.

### 3. Fuse Bits (X2, BLJB and OSCB for IC2 Product ) Protection in ISP Mode

Any fuse bits modification (read or write access) are possible regardless of security level settings (SSB).

#### Workaround

The ISP software host application should read the SSB value before allowing any fuse bits modification according to the SSB setting.

### 4. Unexpected Response from Bootloader When a Security Level Change is Requested from the ISP Software Host Application

If the security levels are set to 1 or 2, the bootloader returns “.” instead of “P” over the serial line when the ISP software host application requests lower security level settings. However, the bootloader does not process the request and the current security level is not modified.

#### Workaround

The ISP software host application should not request inconsistent security level modification. If not possible, it should ignore the bootloader response.



## 80C51 Microcontrollers

## T89C51RC2 T89C51RB2 T89C51IC2 Bootloader

## Errata Sheet



## 5. Bad Interrupt Handling During an API Call

Interrupts are not disabled during all API process. This may cause interaction with software application interrupts using MOVX instruction.

API functions always enable interrupts (set EA) before exiting. This may cause trouble if API is called from a software program section requiring interrupts to be disabled.

### Workaround

The software application should save and disable EA before an API call. On API return, the software application should restore EA setting.

## 6. Program Data Byte and Data Page API Return Value

The PROGRAM DATA BYTE API and DATA PAGE API returns “01h” instead of “00” into the accumulator, when Flash write process passed.

### Workaround

The software application should take into account that return value is “01” with 1.1.1 bootloader version.

## 7. No Further ISP is Possible When OSCB Fuse Bit Set and 32 kHz are Connected to XTAL2 for T89C51IC2 Product Only

When OSCB fuse bit is set (written with 0), and XTAL2A/B pins connected to a 32 kHz oscillator, no serial ISP is possible.

### Workaround

Connect at least a 1.8432 MHz signal to XTAL2A pin.



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