Active Errata List

- During UART Reception, Clearing REN may Generate Unexpected IT
- 32 kHz Oscillator Needs External Feedback Resistor
- Timer 2 Baud Rate Generator Long Start Time
- Strech MOVX Does Not Work

Errata History

Lot Number	Errata List
All	1, 2, 3, 4

Errata Description

1. During UART Reception, Clearing REN May Generate Unexpected IT

During UART reception, if the REN bit is cleared between a start bit detection and the end of reception, the UART will not discard the data (RI is set).

Workaround

Test REN at the beginning of Interrupt routine just after CLR RI, and run the Interrupt routine code only if REN is set.

2. 32 kHz Oscillator Needs External Feedback Resistor

Internal feedback resistor is not connected, to start up, the 32 kHz Oscillator needs an external resistor.

Workaround

Connect XTALB1 and XTALB2 between a 2 M Ω resistor.

3. Timer 2 - Baud Rate Generator - Long Start Time

When Timer 2 is used as baud rate generator, TH2 is not loaded with RCAP2H at the beginning, then UART is not operational before 10000 machine cycles.

Workaround

Add the initialisation of TH2 and TL2 in the initialisation of Timer 2.

4. Strech MOVX Does not Work

When setting M0 bit in AUXR sfr (08Eh), the RD# or WR # pulse on a MOVX instruction on external memory is not 30 XTAL lenght but always standart 6 XTAL lenght. Thus slow external peripherals mapped in the XDATA space could not work properly.

Workaround

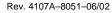
None.



80C51 MCUs

AT89C51IC2

Errata Sheet







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