

This errata sheet describes the functional deviations known at the release date of this document.

Errata History

Bootloader Version	Trouble list	Status
2.1	T01, T02, T03, T04, T05, T07, T08	Not Fixed
2.4	T04, T06, T07, T08	Not Fixed

Trouble descriptions

T01	ISP command Read Data
Description	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 shall ignore these stuffing data bytes.

T02	SBV and BSB protection in ISP mode
Description	SBV and BSB modification are possible regardless of security level settings (SSB).
Workaround	The ISP software host application shall read the SSB value before allowing any SBV and BSB modification according to the SSB setting.

T03	DISPLAY DEVICE DATA command cannot read one single byte
Description	If DISPLAY DEVICE DATA command is called with <i>end address</i> equal to <i>start address</i> , the bootloader enters into a never ending loop.
Workaround	The ISP software host application shall read at least two bytes instead of one.

T04	Unexpected response from bootloader when a security level change is requested from the ISP software host application.
Description	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 MCUs

T89C51RD2 Bootloader Errata Sheet

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T05	Unexpected PROGRAM DATA BYTE API return value
Description	PROGRAM DATA BYTE API returns the data value to be written in on-chip flash memory instead of write operation status.
Workaround	The software application should read back the flash memory location to check if the flash write operation passed.

T06	PROGRAM DATA BYTE API constant return value
Description	The PROGRAM DATA BYTE API returns "00h" into the accumulator, even if the flash write process failed.
Workaround	The software application should read back the flash memory location to check if the flash write operation passed.

T07	PROGRAM DATA PAGE API constant return value
Description	The PROGRAM DATA PAGE API returns "00h" into the accumulator, even if the flash write process failed.
Workaround	The software application should read back the flash memory page to check if the flash write operation passed.

T08	Bad interrupt handling during an API call
Description	<p>Interrupts are not disabled during all API process. This may cause interaction with software application interrupts using MOVX instruction.</p> <p>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.</p>
Workaround	The software application should save and disable EA before an API call. On API return, the software application should restore EA setting.



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