

Mask Set Errata

MSE08AZ60_1J35D 12/2002

Mask Set Errata for MC68HC08AZ60, Mask 1J35D





Introduction

This mask set errata applies to this MC68HC08AZ60 MCU mask set:

1J35D

MCU Device Mask Set Identification

The mask set is identified by a 5-character code consisting of a version number, a letter, two numerical digits, and a letter, for example 1J35D. All standard devices are marked with a mask set number and a date code.

MCU Device Date Codes

Device markings indicate the week of manufacture and the mask set used. The date is coded as four numerical digits where the first two digits indicate the year and the last two digits indicate the work week. For instance, the date code "0201" indicates the first week of the year 2002.

MCU Device Part Number Prefixes

Some MCU samples and devices are marked with an SC, PC, or XC prefix. An SC prefix denotes special/custom device. A PC prefix indicates a prototype device which has undergone basic testing only. An XC prefix denotes that the device is tested but is not fully characterized or qualified over the full range of normal manufacturing process variations. After full characterization and qualification, devices will be marked with the MC or SC prefix.



MSCAN Extended ID Rejected if STUFF Bit Between ID16 and ID15

SE17-MSCAN

For 32-bit and 16-bit identifier acceptance modes, an extended ID CAN frame with a stuff bit between ID16 and ID15 can be erroneously rejected, depending on IDAR0, IDAR1, and IDMR1.

Extended IDs (ID28-ID0) which generate a stuff bit between ID16 and ID15:

Table 1.

IDAR0	IDAR1	IDAR2	IDAR3
*****	***1111x	xxxxxxx	xxxxxxxx

where x = 0 or 1 (don't care)

* = pattern for ID28 to ID18 (see following).

Affected extended IDs (ID28 - ID18) patterns:

a) xxxxxxxxx01 exceptions: 00000000001

01111100001

xxxx1000001 except 111111000001

b) xxxxx100000 exception: 01111100000

c) xxxx0111111 exception: 00000111111

d) x0111110000

e) 10000000000

f) 11111111111

q) 10000011111

When an affected ID is received, an incorrect value is compared to the 2nd byte of the filter (IDAR1 and IDAR5, plus IDAR3 and IDAR7 in 16-bit mode). This incorrect value is the shift register contents before ID15 is shifted in (i.e. right shifted by 1).

Workaround

If the problematic IDs cannot be avoided, the workaround is to mask certain bits with IDMR1 (and IDMR5, plus IDMR3 and IDMR7 in 16-bit mode).

IDMR1 etc. must be 111x xxx1, i.e. ID20,19,18,15 must be masked.



Example 2: to receive the message IDs xxxx 0111 1111 111x xxxx xxxx xxxx IDMR1 etc. must be 1xxx xxx1, i.e. ID20 and ID15 must be masked.

In general, using IDMR1 etc. 1111 xxx1, i.e. masking ID20,19,18,SRR,15, hides the problem.



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