



INTERNATIONAL STANDARD ISO 11898-1:2003
TECHNICAL CORRIGENDUM 1

Published 2006-05-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Road vehicles — Controller area network (CAN) —

Part 1: Data link layer and physical signalling

TECHNICAL CORRIGENDUM 1

Véhicules routiers — Gestionnaire de réseau de communication (CAN) —

Partie 1: Couche liaison de données et signalisation physique

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 11898-1:2003 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

Page 2, 4.2:

Replace definition for “**bit stuffing**” with:

“**frame** coding method providing bus state changes required for periodic resynchronization when using an NRZ bit representation”

Page 2, 4.8:

Replace definition for “**contention-based arbitration**” with:

content-based arbitration

CSMA arbitration procedure resolving bus-contention when multiple nodes simultaneously access the bus

ICS 43.040.15

Ref. No. ISO 11898-1:2003/Cor.1:2006(E)

© ISO 2006 – All rights reserved

Published in Switzerland

Page 3, 4.13:

Delete: "NRZ"

Page 3, 4.16:

Replace definition for "receiver" with:

any node that is not transmitter when the bus is not idle

Page 4, Clause 5:

Delete after "IDE identifier extension":

flag

Page 4, Clause 5:

Add on the next line after "RTR remote transmission request":

SAP service access point

Page 5, 6.1:

Replace "contention-based" with:

content-based

Page 5, 6.3:

Replace "contention-based" with:

content-based

Page 6, 6.12:

Replace reference "(see 13.1.4.3)" with:

(see 13.1.4.4)

Page 7, 6.15:

Replace the second sentence with:

In the bus off state, a node shall not send any dominant bit.

Page 8, Figure 2:

Replace “M-PC” with:

M-PCI

Page 15, Table 4:

Move Table 4 to 8.4.2.3

Page 15, Figure 4:

Replace figure title with:

Figure 4 — LLC remote frame

Page 24, 10.4.2.2:

Replace third paragraph with:

If a node with a pending transmission samples a dominant bit at the third bit of intermission and is error active or has been the receiver of the previous frame, with the next bit it shall start transmitting its message with the first bit of its identifier without first transmitting a SOF bit and without becoming receiver.

Page 25, 10.4.2.4:

Replace the second sentence of the second paragraph with:

Receivers shall accept recessive and dominant bits as reserved bit r0.

Page 27, 10.4.4.2:

Replace the first sentence with:

Two forms of error flag may be used, the active error flag and the passive error flag, where

- the active error flag shall consist of six consecutive dominant bits, and
- the passive error flag shall consist of six consecutive recessive bits unless it is overwritten by dominant bits from other nodes.

and add the following two sentences:

An error passive node transmitting a passive error flag waits for six consecutive bits of equal polarity, beginning at the start of the passive error flag. The passive error flag is complete when these six equal bits have been detected.

Page 28, 10.4.5.1:

Replace “overall flag” with:

overload flag

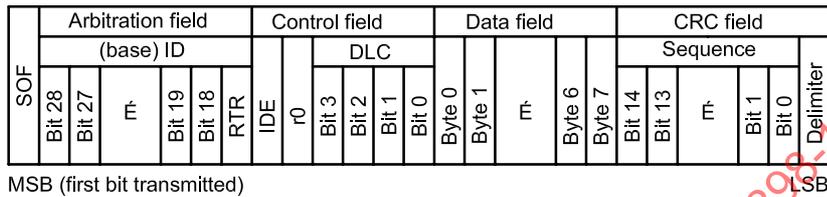
Page 29, 10.5:

Replace the first sentence with:

The frame segments SOF, arbitration field, control field, data field, and CRC sequence shall be coded by the method of bit stuffing.

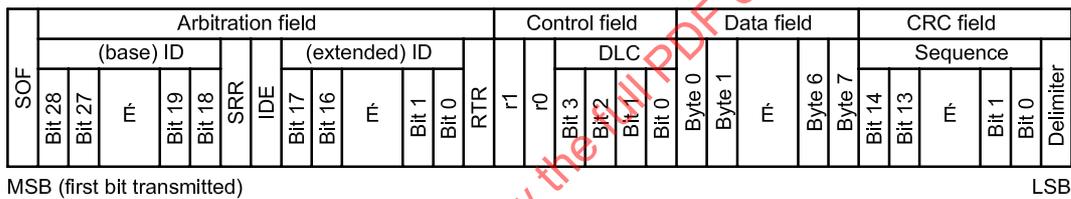
Page 30, Figure 10:

Replace figure with:



Page 30, Figure 11:

Replace figure with:



Page 30, 10.7:

Replace the reference “8.3.3” with:

8.3.4

Page 31, 10.8.4, 10.8.6, and 10.8.8:

Replace “contention-based” with:

content-based

Page 31, 10.8.5:

Replace second sentence with:

A MAC error frame shall be transmitted as specified in 10.10.