

Set On-Board Computer Data

From HackTheIBus

Description

To set data? of the On-Board Computer (OBC, built into the instrument cluster, IKW) is interrogated by the Graphics Driver, or the TV, or the MID (depending on vehicle equipment levels).

Format

Message code	0x40
Message length	6 or 7 bytes
Data size	1 or 2 bytes
Frequency	Can vary

DB1	DB2
Mode	Control

Mode (DB1)

Type of OBC data to request from the instrument cluster.

Date type in ASCII values, Time type in plain numbers 0-23 for hours, 0-59 for minutes:

- 1 = Set Time
- 2 = Set Date

All other values are unused or unknown

Control (DB2)

Control byte to determine what the OBC command should do. This data byte is not always present.

Control byte (bit mapped):

- Bit 0 = Current value request
- Bit 1 = Status request
- Bit 2 = Switch on
- Bit 3 = Switch off
- Bit 4 = Reset
- Bit 7 = Take over current speed

Other bits unknown

Example

80 0F FF 24 02 00 30 31 2E 30 36 2E 32 30 30 37 54

IKE --> LOC : Text display update: Date "01.06.2007"

3B 06 80 40 01 03 24 DB

NAVE --> IKE : On-board computer data: Set current time "03:24"

Meaning	NAVE	len	IKE	type	OBC mode	hour	minute	CS
Value	0x3B	0x06	0x80	0x40	0x01	0x03	0x24	0xDB

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- This page was last modified 11:25, 8 June 2008.
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