

LCM

From HackTheIBus

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Description

The LCM is the light control module (german: Lichtkontrolmodul or LKM).

The address of the LCM is 0xBF.

The following messages are known

Code	Meaning
0x76	Flash lights
0x7D	Windows

0x76 Flash lights

The front lights and turn indicators can be flashed with the following message. The sender have to be 0x00 in this case.

Byte 0 has the following bit definition

Bit	Lamp
7-4	unknown
3	high beam
2	low beam
1	turn indicators
0	unknown

Example

Flash high beam and turn indicators

TX	LL	RX	MM	Byte 0	CS
0x00	0x04	0xBF	0x76	0x0A	0xC7

0x7D Windows

Windows can be opened, closed locked and unlocked with messages from 0x00 to LCM.

Sunroof

Byte 0 always has to be 0x00.

Byte 1 has the following bit definition

Bit	Action
7	unknown
6	close (1) / open (0)
5	on open and close (1) / else (0)
4	lock after action (0) / else (1)
3-0	unknown

If bit 6 and 5 is (0) the window will just lock or unlock.

Example

Close sunroof and unlock

TX	LL	RX	MM	Byte 0	Byte 1	CS
0x00	0x05	0xBF	0x7D	0x00	0x70	0xB7

Just lock sunroof

TX	LL	RX	MM	Byte 0	Byte 1	CS
0x00	0x05	0xBF	0x7D	0x00	0x00	0xC7

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