

CV-VALUES OF THE FLEISCHMANN DECODER

CV	Name	Basic Value	Description
1	Loco address	3	DCC: 1-127 Motorola ³⁾ : 1-80
2	v min	5	Minimum speed (range of values: 1-255).
3	Acceleration rate	3	Inertia value when accelerating (range of values: 0-255).
4	Deceleration rate	3	Inertia value when braking (range of values: 0-255).
5	v max	220	Maximum speed (range of values: 1 - 255).
6	v mid	1	Medium speed (not in use when 0) for non-linear characteristic curve.
7	Versions-no.		Read only: Softwareversion of the decoder (see also CV65).
8	Manufacturer ID	145	Read: NMRA number of manufacturer: Zimo is 145 Write: By programming CV8 = 8 you can achieve a Reset to the factory default settings.
17	Extended address (Upper section)	192	Upper section of additional addresses, value: 128 - 9999. Effective for DCC with CV29 Bit 5=1.
18	Extended address (Lower section)	0	Lower section of additional addresses, value: 128 - 9999. Effective for DCC with CV29 Bit 5=1.
28	RailCom ¹⁾ Configuration	3	Bit 0=1: RailCom ¹⁾ channel 1 (Broadcast) is switched on. Bit 0=0: switched off. Bit 1=1: RailCom ¹⁾ channel 2 (Data) is switched on. Bit 1=0: switched off.
29	Configuration variable	Bit 0=0 Bit 1=1 Bit 2=1 Bit 3=0 Bit 4=0 Bit 5=0	Bit 0=1: Bit 1=1 the direction of travel is reversed. Bit 1=0: Bit 1=0 all functions with 28/128 speed levels. For controllers with 14 speed levels use Bit 1=0. Feed current detection: Bit 2=1: DC travel (analog) possible. Bit 2=0: DC travel off. Bit 3=With Bit 3=1 RailCom ¹⁾ switched on. With Bit 3=0 it is switched off. Switching between 3-point-curve (Bit 4=0) and speed table (Bit 4=1 from CV67-94). Bit 5: for use of the additional addresses 128 - 9999 set Bit 5=1.
60	Dimming the function output	0	Reduction of the effective voltage to the function outputs. All function outputs will be dimmed simultaneously (range of values: 0 - 255).
65	Subversion-no.		Read only: Softwareversion of the decoder (see also CV7).
66	Forward trim	0	Here, the speed values contained in CV67 - 94 can be adjusted by a percentage from 248-100%. E.g. 124=50%. Value valid for running forward.
67	Adjustment of the to control characteristic 94		A speed between 0 and 255 can be given in each of the 28 CVs from 67 to 94. CV67 holds the minimum speed, and CV94 holds the top speed. The control characteristic curve is then determined by intermediate values. They decide how the speed of the vehicle alters with the controller setting.
95	Backwards trim	0	As CV66, but for running backwards.
155	Shunting gear	3	Function key which cuts in half the locomotive speed for shunting.
156	Inertia simulation	4	Function key which deactivates the delay of acceleration and deceleration stored in CV3 and CV4.

FUNCTION MAPPING

The function keys of the controller can be assigned to the function outputs of the decoder freely. For the assignment of function keys to function outputs the subsequent CVs must be programmed with values according to the table.

CV	Key	Decoupling 2	Decoupling 1	Light backward	Light forwards	Value
33	F0v	8	4	2	1	1
34	F0r	8	4	2	1	2
35	F1	8	4	2	1	4
36	F2	8	4	2	1	8
37	F3	1				2
38	F4	1				4
39	F5	1				8
40	F6	1				16
41	F7	1				0
42	F8	1				0

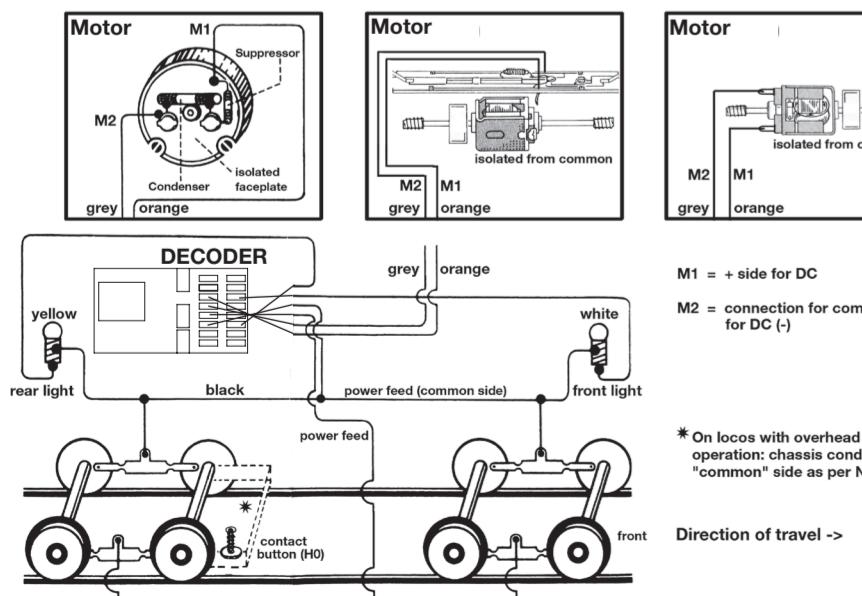
Note: no assignments can be made in the grey marked areas.

The bold numbers in the table reflect the default settings that are found also in the right column.

By changing the values in the CVs you can adjust the assignments to suit your requirements.

Example: With CV36 = 12 (i.e. 8 + 4) Decoupling 2 and Decoupling 1 are switched together by key F2.

MOTOR AND LIGHT CONNECTION



FUNCTION OF THE DIGITAL COUPLING

The couplings have the same function as the FLEISCHMANN PROFI-coupling, i.e. "coupling", "pre-decoupling" and "decoupling". They are used either individually operated via F1 or F2 or, depending on the connection, together operated with F1 or F2 respectively. The decoder is programmed specifically for the control of the digital couplings over a "normal" function output or another decoder would destroy them.

The conventional coupling and decoupling (e.g. with an decoupler track) is not possible. In analog mode, the digital coupling can not be controlled remotely.

INSTALLATION OF THE DIGITAL COUPLING

This digital couplings are designed exclusively for use in vehicles with standard slot according to NEM362.

- stick digital couplings in the standard slot.

install wires (grey and brown). Ensure sufficient space of movement of the coupling mechanism.

Fasten contact board isolated with the enclosed double-sided tape.

solder wires from the digital couplings (grey and brown) to contact board.

solder wires from the decoder (blue, green and lilac) to contact board

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