

LC201 LocoCruiser™ Standard decoder

Easy to Install : With NMRA 8 pin plug

Easy to control : Accept NMRA DCC command station signal Easy to Programming : Individual track program loco number

Product Specification :

Dimensions : Length: 1.1 "(28 mm) Width: 0.6" (15.5 mm) Thickness: 0.2" (5 mm) DCC standard decoder suitable size for HO scale locomotives. Motor current 1.5 Amp continuous and 2 Amp peak Motor overload protect adjustable. 6x 100mA function outputs (Include front light and rear light outputs) Back-EMF with silent motor control 28 step adjustable speed table / Support long address Advanced consist address setting Supports running also in DC control Function remapping for each output Braking function adjustable

CV	Function	Default	Range	Record your number in here
1	Primary Address	3	1-127	
2	Start Voltage	1	1-255	
3	Acceleration	5	0-255	
4	Deceleration	5	0-255	
5	Maximum Speed	0	0-255	
6	Medium Speed	0	0-255	
7	Version Number	201	Read Only	
8	Manufacturer ID	45	Read Only (CV8=8 is reset)	
10	EMF Feedback Cut-off	128	1-128	
11	Packet time-out value	25	0-255	
17	Extended Address Low byte	192	192-231	

CV adjustment instructions

18	Extended Address High byte	0	0-255	
19	Consist address	0	0-127	
21	Consist Address Active for F1-F8	0	0-255	
22	Consist Address Active for FL and F9-F12	0	0-255	
29	Configurations Supported	6	0-255	

CV29 Decoder Configuration

Bit	Function	Default	Range	Record your number in here
Bit 0	Locomotive Direction	0	0,1	
Bit 1	14 or 28/128 speed steps	2	0,2	
Bit 2	analog operation	4	0,4	
Bit 4	Speed Table	0	0,16	
Bit 5	Long address	0	0,32	

Adjustable 28 step Speed table

CV	Function	Default
67	Speed Table 1	1
68	Speed Table 2	6
69	Speed Table 3	12
70	Speed Table 4	16
71	Speed Table 5	20
72	Speed Table 6	24
73	Speed Table 7	28
74	Speed Table 8	32
75	Speed Table 9	36
76	Speed Table 10	42
77	Speed Table 11	48
78	Speed Table 12	54
79	Speed Table 13	60
80	Speed Table 14	68

Speed Table 15	76
•	10
Speed Table 16	84
Speed Table 17	92
Speed Table 18	102
Speed Table 19	112
Speed Table 20	124
Speed Table 21	136
Speed Table 22	152
Speed Table 23	168
Speed Table 24	188
Speed Table 25	208
Speed Table 26	230
Speed Table 27	252
Speed Table 28	255
	Speed Table 17 Speed Table 18 Speed Table 19 Speed Table 20 Speed Table 21 Speed Table 22 Speed Table 23 Speed Table 24 Speed Table 25 Speed Table 26 Speed Table 27

CV8=8 is reset. It will go back to factory default value for all CV.

Function output mapping

33	F0F (on/off)	1		
34	F0R(on/off)	2	1, 2,	
35	F1(on/off)	4	4,	
36	F2(on/off)	8	8, 16,	
37	F3(on/off)	16	32, 128	
38	F4(on/off)	4	120	This value is different with F1
41	F7(on/off)	32		

Value =4 control by F1 Value =8 control by F2 Value =16 control by F3 Value =1 control by F0 Value =128, always light on.

Light effect

49	FOF light effect	16	0-255	
50	FOR light effect	8	0-255	
51	F1 light effect	0	0-255	
52	F2 light effect	0	0-255	
53	F3 light effect	0	0-255	
54	F4 light effect	0	0-255	

CV=0 Light on CV=2 Strobe CV=4 Mars Light CV=8 Reverse direction CV=16 Forward direction CV=32 1/4 sec flashing (A) (this two effect design for ditch light) CV=64 1/4 sec flashing (B) CV=36 firebox CV=69 warning light CV=128 1/2 sec flashing Other value always light off

These effects can be added together. (See below)

When you connect two function outputs to become ditch light, please use CV=32 and CV64 in different outputs. It will become a ditch light with a prototypical flashing effect.

Special function

Function	Function Key	CV	Default value
Motor braking	F7	63	5
Motor overload protect		64	60 (1.2 Amp)

CV63 adjusts motor braking time CV64 adjusts motor overload amp.

Wiring

The decoder is supplied with an 8-pin DCC plug.

If your loco has the DCC-standard socket, plug the pins into the socket according to the marks on the decoder and those of the circuit board of the locomotive.

If loco does not have the DCC standard medium socket. Please choose our decoder version without 8 pin plug. It will explain to you how to hard wire it into the locomotive properly.

F1 (green) F2 (Brown) F3 --- no wiring

F4 --- no wiring



We have a special design for modeller function output. You can connect LED direct to F1 \sim F4 function output. It will save having to add an extra resistors.

You can get more installation detail and description about this decoder on the ANE website - <u>www.anemodel.com</u>.

Warranty & Repair Information

At ANE Model we value our customers. Customer satisfaction is our primary goal. This is why every decoder has been tried and tested thoroughly. ANE Model will also replace any control board for free within 90 days after purchasing. If there is any problem, please see our website <u>www.anemodel.com</u> for more information about warranty and repair policies and procedures.

At ANE Model's sole discretion, it will repair, replace or refund the purchase price.

In the event, ANE Model's products are not installed or used in accordance with the manufacturer's specifications. Any and all warranties either expressed or implied are void. Except to the above extent expressly state in this section, there are no warranties, express or implied, including but not limited to any warranties of merchantability or fitness for a particular purpose.

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