

### General project information

Project-Name:

Version-No.:

Project-No.:

E10

10

11423

Item-No.:

Order-No.:

Customer:

Contact person:

Roco Modelleisenbahn GmbH  
Plainbachstrasse 4  
A-5101 Bergheim

Tel.-No.:

Email:

Project start:

Project status:

Date of approval:

07-01-15

Active

OEM-Manual required ☐

### Sound recording documentation

Origin of the sound:

Recording date:

ESU E10 Sound

Comments:

## Decoder information

Decodertype:

LoksoundV3.5 16MBit

Loudspeaker:

Configuration:

Firmware-Version:

0-0-  
6175\_ROCOE10-  
PANTHO

Decoder Setup

Address:

3

max. speed:

64

Protocols:

DC	<input checked="" type="checkbox"/>	Motorola	<input checked="" type="checkbox"/>
AC	<input checked="" type="checkbox"/>	mfx	<input type="checkbox"/>
DCC	<input checked="" type="checkbox"/>	Selectrix	<input type="checkbox"/>

Break sections:

DCC	<input checked="" type="checkbox"/>
Märklin	<input checked="" type="checkbox"/>

Prime mover sound description:

Function keys:

F0	Light on/off
F1	Fahrgeräusch an/aus
F2	Pantograph 2 auf/ab (AUX6)
F3	-
F4	-
F5	Führerstandsbeleuchtung richtungsabhängig (AUX3/AUX4)
F6	Kurzer Pfiff
F7	-
F8	Rotes Rücklicht richtungsabhängig (AUX2/AUX1)
F9	Pfiff
F10	Kompressor
F11	-
F12	Pantograph 1 auf/ab (AUX5)
F13	Rangiergang
F14	Bahnhofsdurchsage
F15	Führerstandsbeleuchtung Führerstand 2
F16	
F17	
F18	
F19	
F20	

Special features:

Lauflänge der Pantographen über CV119 (AUX5) und CV120 (AUX6) einstellbar.  
CV119=10  
CV120=10

### CV-Values

CV	DEC	BIN	HEX	CV	DEC	BIN	HEX	CV	DEC	BIN	HEX
CV 001 = 003	00000011	0x03		CV 114 = 015	00001111	0x0F		CV 178 = 000	00000000	0x00	
CV 002 = 003	00000011	0x03		CV 115 = 015	00001111	0x0F		CV 179 = 002	00000010	0x02	
CV 003 = 014	00001110	0x0E		CV 116 = 015	00001111	0x0F		CV 180 = 000	00000000	0x00	
CV 004 = 012	00001100	0x0C		CV 117 = 015	00001111	0x0F		CV 181 = 000	00000000	0x00	
CV 005 = 064	01000000	0x40		CV 118 = 015	00001111	0x0F		CV 182 = 002	00000010	0x02	
CV 006 = 022	00010110	0x16		CV 119 = 010	00001010	0x0A		CV 183 = 000	00000000	0x00	
CV 013 = 001	00000001	0x01		CV 120 = 010	00001010	0x0A		CV 184 = 000	00000000	0x00	
CV 014 = 003	00000011	0x03		CV 121 = 000	00000000	0x00		CV 185 = 000	00000000	0x00	
CV 017 = 192	11000000	0xC0		CV 122 = 000	00000000	0x00		CV 186 = 000	00000000	0x00	
CV 018 = 000	00000000	0x00		CV 123 = 000	00000000	0x00		CV 187 = 000	00000000	0x00	
CV 019 = 000	00000000	0x00		CV 124 = 002	00000010	0x02		CV 188 = 000	00000000	0x00	
CV 021 = 000	00000000	0x00		CV 125 = 020	00010100	0x14		CV 189 = 008	00001000	0x08	
CV 022 = 000	00000000	0x00		CV 126 = 060	00111100	0x3C		CV 190 = 000	00000000	0x00	
CV 029 = 006	00000110	0x06		CV 127 = 030	00011110	0x1E		CV 191 = 000	00000000	0x00	
CV 049 = 027	00011011	0x1B		CV 128 = 080	01010000	0x50		CV 192 = 004	00000100	0x04	
CV 050 = 003	00000011	0x03		CV 129 = 000	00000000	0x00		CV 193 = 000	00000000	0x00	
CV 051 = 007	00000111	0x07		CV 130 = 000	00000000	0x00		CV 194 = 000	00000000	0x00	
CV 052 = 000	00000000	0x00		CV 131 = 000	00000000	0x00		CV 195 = 000	00000000	0x00	
CV 053 = 050	00110010	0x32		CV 132 = 000	00000000	0x00		CV 196 = 000	00000000	0x00	
CV 054 = 032	00100000	0x20		CV 133 = 000	00000000	0x00		CV 197 = 001	00000001	0x01	
CV 055 = 024	00011000	0x18		CV 134 = 000	00000000	0x00		CV 198 = 000	00000000	0x00	
CV 056 = 064	01000000	0x40		CV 135 = 000	00000000	0x00		CV 199 = 000	00000000	0x00	
CV 057 = 000	00000000	0x00		CV 136 = 000	00000000	0x00		CV 200 = 001	00000001	0x01	
CV 058 = 018	00010010	0x12		CV 137 = 000	00000000	0x00		CV 201 = 000	00000000	0x00	
CV 059 = 032	00100000	0x20		CV 138 = 000	00000000	0x00		CV 202 = 000	00000000	0x00	
CV 060 = 064	01000000	0x40		CV 139 = 000	00000000	0x00		CV 203 = 003	00000011	0x03	
CV 061 = 040	00101000	0x28		CV 140 = 000	00000000	0x00		CV 204 = 000	00000000	0x00	
CV 062 = 064	01000000	0x40		CV 141 = 001	00000001	0x01		CV 205 = 000	00000000	0x00	
CV 063 = 055	00110111	0x37		CV 142 = 000	00000000	0x00		CV 206 = 003	00000011	0x03	
CV 064 = 020	00010100	0x14		CV 143 = 000	00000000	0x00		CV 207 = 000	00000000	0x00	
CV 066 = 000	00000000	0x00		CV 144 = 002	00000010	0x02		CV 208 = 000	00000000	0x00	
CV 067 = 003	00000011	0x03		CV 145 = 000	00000000	0x00		CV 209 = 000	00000000	0x00	
CV 068 = 005	00000101	0x05		CV 146 = 000	00000000	0x00		CV 210 = 000	00000000	0x00	
CV 069 = 008	00001000	0x08		CV 147 = 000	00000000	0x00		CV 211 = 000	00000000	0x00	
CV 070 = 011	00001011	0x0B		CV 148 = 020	00010100	0x14		CV 212 = 000	00000000	0x00	
CV 071 = 015	00001111	0x0F		CV 149 = 000	00000000	0x00		CV 213 = 064	01000000	0x40	
CV 072 = 018	00010010	0x12		CV 150 = 000	00000000	0x00		CV 214 = 000	00000000	0x00	
CV 073 = 022	00010110	0x16		CV 151 = 020	00010100	0x14		CV 215 = 006	00000110	0x06	
CV 074 = 026	00011010	0x1A		CV 152 = 000	00000000	0x00		CV 216 = 064	01000000	0x40	
CV 075 = 030	00011110	0x1E		CV 153 = 128	10000000	0x80		CV 217 = 000	00000000	0x00	
CV 076 = 034	00100010	0x22		CV 154 = 000	00000000	0x00		CV 218 = 006	00000110	0x06	
CV 077 = 040	00101000	0x28		CV 155 = 005	00000101	0x05		CV 219 = 000	00000000	0x00	
CV 078 = 046	00101110	0x2E		CV 156 = 128	10000000	0x80		CV 220 = 002	00000010	0x02	
CV 079 = 052	00110100	0x34		CV 157 = 000	00000000	0x00		CV 221 = 000	00000000	0x00	
CV 080 = 058	00111010	0x3A		CV 158 = 005	00000101	0x05		CV 222 = 000	00000000	0x00	
CV 081 = 066	01000010	0x42		CV 159 = 000	00000000	0x00		CV 223 = 002	00000010	0x02	
CV 082 = 074	01001010	0x4A		CV 160 = 000	00000000	0x00		CV 224 = 000	00000000	0x00	
CV 083 = 082	01010010	0x52		CV 161 = 000	00000000	0x00		CV 225 = 000	00000000	0x00	
CV 084 = 090	01011010	0x5A		CV 162 = 000	00000000	0x00		CV 226 = 000	00000000	0x00	
CV 085 = 100	01100100	0x64		CV 163 = 000	00000000	0x00		CV 227 = 004	00000100	0x04	
CV 086 = 110	01101110	0x6E		CV 164 = 000	00000000	0x00		CV 228 = 000	00000000	0x00	
CV 087 = 124	01111100	0x7C		CV 165 = 000	00000000	0x00		CV 229 = 000	00000000	0x00	
CV 088 = 136	10001000	0x88		CV 166 = 000	00000000	0x00		CV 230 = 004	00000100	0x04	
CV 089 = 152	10011000	0x98		CV 167 = 000	00000000	0x00		CV 231 = 032	00100000	0x20	
CV 090 = 168	10101000	0xA8		CV 168 = 000	00000000	0x00		CV 232 = 000	00000000	0x00	
CV 091 = 188	10111100	0xBC		CV 169 = 000	00000000	0x00		CV 233 = 000	00000000	0x00	
CV 092 = 208	11010000	0xD0		CV 170 = 000	00000000	0x00		CV 234 = 032	00100000	0x20	
CV 093 = 230	11100110	0xE6		CV 171 = 016	00010000	0x10		CV 235 = 000	00000000	0x00	
CV 094 = 255	11111111	0xFF		CV 172 = 000	00000000	0x00		CV 236 = 000	00000000	0x00	
CV 095 = 000	00000000	0x00		CV 173 = 000	00000000	0x00		CV 249 = 000	00000000	0x00	
CV 105 = 000	00000000	0x00		CV 174 = 016	00010000	0x10		CV 250 = 000	00000000	0x00	
CV 106 = 000	00000000	0x00		CV 175 = 000	00000000	0x00		CV 251 = 000	00000000	0x00	
CV 112 = 015	00001111	0x0F		CV 176 = 000	00000000	0x00		CV 252 = 000	00000000	0x00	
CV 113 = 015	00001111	0x0F		CV 177 = 000	00000000	0x00		CV 253 = 000	00000000	0x00	

## Revision

Date issued:

Sent by:

Customer's feedback date:

08-09-25

Email

08-09-22

Customer's feedback (change requests):

siehe Mängelliste

Changes in comparison to the former version:

Approval note added ☐

Production file generated by:

Date of generating:

Manual generated by:

Manual generated from: