

### General project information

Project-Name:

Version-No.:

Project-No.:

Roco Rh2016

5

11439

Item-No.:

Order-No.:

Customer:

Contact person:

Roco Modelleisenbahn GmbH  
Plainbachstrasse 4  
A-5101 Bergheim

Thomas Weißl

Tel.-No.:

Email:

Project start:

Project status:

Date of approval:

April 2009

Active

09-04-07 (first approval)

OEM-Manual required ☐

### Sound recording documentation

Origin of the sound:

Recording date:

Roco Recordings

unknown

Comments:

## Decoder information

Decodertype:

LoksoundV3.5 16MBit

Loudspeaker:

installed by manufacturer

Configuration:

installed by manufacturer

Firmware-Version:

0.0.6088

## Decoder Setup

Address:

3

max. speed:

55

Protocols:

DC ☒AC ☒DCC ☒Motorola ☒mfx ☐Selectrix ☐

Break sections:

DCC ☒Märklin ☒

Prime mover sound description:

diesel sound

Function keys:

F0	Light on/off
F1	Sound on/off
F2	Airhorn 1
F3	Airhorn 2
F4	Coupler
F5	Conductor's signal
F6	Shunting Mode
F7	Valve
F8	Wheel flange
F9	Station Announcement 1
F10	Station Announcement 2
F11	Driver's Door
F12	Start up
F13	
F14	
F15	
F16	
F17	
F18	
F19	
F20	

Special features:

### 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 = 003	00000011	0x03	
CV 002 = 002	00000010	0x02		CV 115 = 000	00000000	0x00		CV 179 = 000	00000000	0x00	
CV 003 = 020	00010100	0x14		CV 116 = 000	00000000	0x00		CV 180 = 000	00000000	0x00	
CV 004 = 008	00001000	0x08		CV 117 = 015	00001111	0x0F		CV 181 = 003	00000011	0x03	
CV 005 = 038	00100110	0x26		CV 118 = 015	00001111	0x0F		CV 182 = 000	00000000	0x00	
CV 006 = 015	00001111	0x0F		CV 119 = 000	00000000	0x00		CV 183 = 000	00000000	0x00	
CV 013 = 001	00000001	0x01		CV 120 = 000	00000000	0x00		CV 184 = 000	00000000	0x00	
CV 014 = 003	00000011	0x03		CV 121 = 025	00011001	0x19		CV 185 = 002	00000010	0x02	
CV 017 = 192	11000000	0xC0		CV 122 = 038	00100110	0x26		CV 186 = 000	00000000	0x00	
CV 018 = 128	10000000	0x80		CV 123 = 032	00100000	0x20		CV 187 = 000	00000000	0x00	
CV 019 = 000	00000000	0x00		CV 124 = 006	00000110	0x06		CV 188 = 002	00000010	0x02	
CV 021 = 000	00000000	0x00		CV 125 = 030	00011110	0x1E		CV 189 = 000	00000000	0x00	
CV 022 = 000	00000000	0x00		CV 126 = 070	01000110	0x46		CV 190 = 000	00000000	0x00	
CV 029 = 022	00010110	0x16		CV 127 = 030	00011110	0x1E		CV 191 = 005	00000101	0x05	
CV 049 = 017	00010001	0x11		CV 128 = 080	01010000	0x50		CV 192 = 000	00000000	0x00	
CV 050 = 003	00000011	0x03		CV 129 = 000	00000000	0x00		CV 193 = 000	00000000	0x00	
CV 051 = 003	00000011	0x03		CV 130 = 000	00000000	0x00		CV 194 = 005	00000101	0x05	
CV 052 = 000	00000000	0x00		CV 131 = 000	00000000	0x00		CV 195 = 000	00000000	0x00	
CV 053 = 056	00111000	0x38		CV 132 = 000	00000000	0x00		CV 196 = 000	00000000	0x00	
CV 054 = 032	00100000	0x20		CV 133 = 000	00000000	0x00		CV 197 = 007	00000111	0x07	
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 = 007	00000111	0x07	
CV 058 = 001	00000001	0x01		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 = 045	00101101	0x2D		CV 139 = 000	00000000	0x00		CV 203 = 008	00001000	0x08	
CV 061 = 048	00110000	0x30		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 = 059	00111011	0x3B		CV 142 = 000	00000000	0x00		CV 206 = 008	00001000	0x08	
CV 064 = 024	00011000	0x18		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 = 001	00000001	0x01		CV 145 = 000	00000000	0x00		CV 209 = 009	00001001	0x09	
CV 068 = 001	00000001	0x01		CV 146 = 000	00000000	0x00		CV 210 = 000	00000000	0x00	
CV 069 = 002	00000010	0x02		CV 147 = 000	00000000	0x00		CV 211 = 000	00000000	0x00	
CV 070 = 003	00000011	0x03		CV 148 = 020	00010100	0x14		CV 212 = 009	00001001	0x09	
CV 071 = 005	00000101	0x05		CV 149 = 000	00000000	0x00		CV 213 = 000	00000000	0x00	
CV 072 = 009	00001001	0x09		CV 150 = 000	00000000	0x00		CV 214 = 000	00000000	0x00	
CV 073 = 013	00001101	0x0D		CV 151 = 020	00010100	0x14		CV 215 = 010	00001010	0x0A	
CV 074 = 019	00010011	0x13		CV 152 = 000	00000000	0x00		CV 216 = 000	00000000	0x00	
CV 075 = 025	00011001	0x19		CV 153 = 000	00000000	0x00		CV 217 = 000	00000000	0x00	
CV 076 = 033	00100001	0x21		CV 154 = 032	00100000	0x20		CV 218 = 010	00001010	0x0A	
CV 077 = 040	00101000	0x28		CV 155 = 001	00000001	0x01		CV 219 = 000	00000000	0x00	
CV 078 = 048	00110000	0x30		CV 156 = 000	00000000	0x00		CV 220 = 000	00000000	0x00	
CV 079 = 058	00111010	0x3A		CV 157 = 032	00100000	0x20		CV 221 = 000	00000000	0x00	
CV 080 = 068	01000100	0x44		CV 158 = 001	00000001	0x01		CV 222 = 000	00000000	0x00	
CV 081 = 076	01001100	0x4C		CV 159 = 000	00000000	0x00		CV 223 = 000	00000000	0x00	
CV 082 = 083	01010011	0x53		CV 160 = 032	00100000	0x20		CV 224 = 000	00000000	0x00	
CV 083 = 091	01011011	0x5B		CV 161 = 004	00000100	0x04		CV 225 = 000	00000000	0x00	
CV 084 = 097	01100001	0x61		CV 162 = 000	00000000	0x00		CV 226 = 000	00000000	0x00	
CV 085 = 103	01100111	0x67		CV 163 = 032	00100000	0x20		CV 227 = 000	00000000	0x00	
CV 086 = 109	01101101	0x6D		CV 164 = 004	00000100	0x04		CV 228 = 000	00000000	0x00	
CV 087 = 114	01110010	0x72		CV 165 = 000	00000000	0x00		CV 229 = 000	00000000	0x00	
CV 088 = 117	01110101	0x75		CV 166 = 000	00000000	0x00		CV 230 = 000	00000000	0x00	
CV 089 = 120	01111000	0x78		CV 167 = 006	00000110	0x06		CV 231 = 000	00000000	0x00	
CV 090 = 123	01111011	0x7B		CV 168 = 000	00000000	0x00		CV 232 = 000	00000000	0x00	
CV 091 = 125	01111101	0x7D		CV 169 = 000	00000000	0x00		CV 233 = 000	00000000	0x00	
CV 092 = 126	01111110	0x7E		CV 170 = 006	00000110	0x06		CV 234 = 000	00000000	0x00	
CV 093 = 128	10000000	0x80		CV 171 = 000	00000000	0x00		CV 235 = 000	00000000	0x00	
CV 094 = 128	10000000	0x80		CV 172 = 000	00000000	0x00		CV 236 = 000	00000000	0x00	
CV 095 = 000	00000000	0x00		CV 173 = 003	00000011	0x03		CV 249 = 000	00000000	0x00	
CV 105 = 000	00000000	0x00		CV 174 = 000	00000000	0x00		CV 250 = 000	00000000	0x00	
CV 106 = 000	00000000	0x00		CV 175 = 000	00000000	0x00		CV 251 = 000	00000000	0x00	
CV 112 = 033	00100001	0x21		CV 176 = 003	00000011	0x03		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:

09-08-05

Email

09-08-05

Customer's feedback (change requests):

Changes in comparison to the former version:

driving sounds adjusted for skipping sound gaps

Approval note added ☐

Production file generated by:

Date of generating:

Manual generated by:

Manual generated from: