ESU

General project information

Project-Name:

Roco HLD 6000

Version-No.:

4

Project-No.:

11449

Item-No.:

Order-No.:

Customer:

Modelleisenbahn GmbH
Plainbachstrasse 4
A-5101 Bergheim

Contact person:

Thomas Weißl

Tel.-No.:

Email:

Project start:

August 2009

Project status:

Active

Date of approval:

OEM-Manual required ☐

Sound recording documentation

Origin of the sound:

Recording date:

Comments:

Decoder information

Decodertype:	Loudspeaker:	Configuration:
LokSound V3.5 8MBit	20mm, 100 Ohm	1 Lautsprecher, Abstrahlrichtung nach unten, flache Schallkapsel

Firmware-Version:

0.0.6088

Decoder Setup

Address: 3

max. speed: 64

Protocols:

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

Break sections:

DCC	☒
Märklin	☐

Prime mover sound description:

Diesel sound, 3 sound steps, coast sound, acceleration sound

Function keys:

F0	Light on/off
F1	Sound on/off
F2	Airhorn1 long
F3	Airhorn2 long
F4	Coupler
F5	Compressor
F6	Shunting Mode
F7	Conductor
F8	Sanding
F9	Airhorn 1 short
F10	Airhorn 2 short
F11	Diesel Notch Up
F12	Diesel Notch Down
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 =	003	00000011	0x03	CV 115 =	015	00001111	0x0F	CV 179 =	000	00000000	0x00
CV 003 =	010	00001010	0x0A	CV 116 =	015	00001111	0x0F	CV 180 =	000	00000000	0x00
CV 004 =	010	00001010	0x0A	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 =	018	00010010	0x12	CV 119 =	000	00000000	0x00	CV 183 =	000	00000000	0x00
CV 013 =	000	00000000	0x00	CV 120 =	000	00000000	0x00	CV 184 =	000	00000000	0x00
CV 014 =	003	00000011	0x03	CV 121 =	064	01000000	0x40	CV 185 =	005	00000101	0x05
CV 017 =	192	11000000	0xC0	CV 122 =	064	01000000	0x40	CV 186 =	000	00000000	0x00
CV 018 =	128	10000000	0x80	CV 123 =	064	01000000	0x40	CV 187 =	000	00000000	0x00
CV 019 =	000	00000000	0x00	CV 124 =	015	00001111	0x0F	CV 188 =	005	00000101	0x05
CV 021 =	000	00000000	0x00	CV 125 =	020	00010100	0x14	CV 189 =	000	00000000	0x00
CV 022 =	003	00000011	0x03	CV 126 =	055	00110111	0x37	CV 190 =	000	00000000	0x00
CV 029 =	006	00000110	0x06	CV 127 =	025	00011001	0x19	CV 191 =	006	00000110	0x06
CV 049 =	019	00010011	0x13	CV 128 =	060	00111100	0x3C	CV 192 =	000	00000000	0x00
CV 050 =	003	00000011	0x03	CV 129 =	000	00000000	0x00	CV 193 =	000	00000000	0x00
CV 051 =	011	00001011	0x0B	CV 130 =	000	00000000	0x00	CV 194 =	006	00000110	0x06
CV 052 =	000	00000000	0x00	CV 131 =	009	00001001	0x09	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 =	007	00000111	0x07
CV 055 =	024	00011000	0x18	CV 134 =	009	00001001	0x09	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 =	060	00111100	0x3C	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 =	064	01000000	0x40	CV 142 =	000	00000000	0x00	CV 206 =	008	00001000	0x08
CV 064 =	007	00000111	0x07	CV 143 =	000	00000000	0x00	CV 207 =	064	01000000	0x40
CV 066 =	000	00000000	0x00	CV 144 =	002	00000010	0x02	CV 208 =	000	00000000	0x00
CV 067 =	009	00001001	0x09	CV 145 =	000	00000000	0x00	CV 209 =	000	00000000	0x00
CV 068 =	018	00010010	0x12	CV 146 =	000	00000000	0x00	CV 210 =	064	01000000	0x40
CV 069 =	027	00011011	0x1B	CV 147 =	000	00000000	0x00	CV 211 =	000	00000000	0x00
CV 070 =	036	00100100	0x24	CV 148 =	004	00000100	0x04	CV 212 =	000	00000000	0x00
CV 071 =	045	00101101	0x2D	CV 149 =	000	00000000	0x00	CV 213 =	128	10000000	0x80
CV 072 =	054	00110110	0x36	CV 150 =	000	00000000	0x00	CV 214 =	000	00000000	0x00
CV 073 =	063	00111111	0x3F	CV 151 =	004	00000100	0x04	CV 215 =	000	00000000	0x00
CV 074 =	072	01001000	0x48	CV 152 =	000	00000000	0x00	CV 216 =	128	10000000	0x80
CV 075 =	081	01010001	0x51	CV 153 =	000	00000000	0x00	CV 217 =	000	00000000	0x00
CV 076 =	091	01011011	0x5B	CV 154 =	032	00100000	0x20	CV 218 =	000	00000000	0x00
CV 077 =	100	01100100	0x64	CV 155 =	001	00000001	0x01	CV 219 =	000	00000000	0x03
CV 078 =	109	01101101	0x6D	CV 156 =	000	00000000	0x00	CV 220 =	000	00000000	0x00
CV 079 =	118	01110110	0x76	CV 157 =	032	00100000	0x20	CV 221 =	000	00000000	0x00
CV 080 =	127	01111111	0x7F	CV 158 =	001	00000001	0x01	CV 222 =	000	00000000	0x00
CV 081 =	136	10001000	0x88	CV 159 =	000	00000000	0x00	CV 223 =	000	00000000	0x00
CV 082 =	145	10010001	0x91	CV 160 =	032	00100000	0x20	CV 224 =	000	00000000	0x00
CV 083 =	154	10011010	0x9A	CV 161 =	002	00000010	0x02	CV 225 =	000	00000000	0x00
CV 084 =	163	10100011	0xA3	CV 162 =	000	00000000	0x00	CV 226 =	000	00000000	0x00
CV 085 =	173	10101101	0xAD	CV 163 =	032	00100000	0x20	CV 227 =	000	00000000	0x00
CV 086 =	182	10110110	0xB6	CV 164 =	002	00000010	0x02	CV 228 =	000	00000000	0x00
CV 087 =	191	10111111	0xBF	CV 165 =	000	00000000	0x00	CV 229 =	000	00000000	0x00
CV 088 =	200	11001000	0xC8	CV 166 =	000	00000000	0x00	CV 230 =	000	00000000	0x00
CV 089 =	209	11010001	0xD1	CV 167 =	003	00000011	0x03	CV 231 =	000	00000000	0x00
CV 090 =	218	11011010	0xDA	CV 168 =	000	00000000	0x00	CV 232 =	000	00000000	0x00
CV 091 =	227	11100011	0xE3	CV 169 =	000	00000000	0x00	CV 233 =	000	00000000	0x00
CV 092 =	236	11101100	0xEC	CV 170 =	003	00000011	0x03	CV 234 =	000	00000000	0x00
CV 093 =	245	11110101	0xF5	CV 171 =	000	00000000	0x00	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 =	004	00000100	0x04	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 =	004	00000100	0x04	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:
09-10-15	Email	09-10-14

Customer's feedback (change requests):

Von: t.weissl@roco.cc [mailto:t.weissl@roco.cc]
Gesendet: Mittwoch, 14. Oktober 2009 16:16
An: Andreas Koch
Cc: Andreas Koch; Elmar Heckmann; Jürgen Lindner
Betreff: Antwort: AW: Reeks 60

Hallo Herr Koch,

danke für die Zusendung.

Die Sounds F2ff sind grundsätzlich in Ordnung, jedoch ist das gesamte Fahrgeräusch F1 zu laut.

Bitte anpassen.

Haben Sie die Lok heute schon erhalten?

Wenn möglich bitte morgen das neue File zusenden.

Mit freundlichen Grüßen

Thomas Weißl
Elektronik/Entwicklung

Changes in comparison to the former version:

- Fahrgeräusch in der Lautsärke um ca. 2,5dB - 3dB gesenkt

Approval note added ☐

Production file generated by:	Date of generating:

Manual generated by:	Manual generated from: