

## Sound Project Overview 11422-Roco-VT98 So

General project information				
Project-Name:		Version-No.:	Project-l	No.:
VT98		2	7	11422
				11722
Item-No.:		Order-No.:		
Customer:	Contac	t person:		
Roco Modelleisenbahn GmbH Plainbachstrasse 4				
A-5101 Bergheim	TelN	0.:		
	Email:			
Project start: 07-05-16	Project status:  Active	Date of approva	l:	
	7.101.70			
OEM-Manual required				
Sound recording documentation	1			
Orbita of the seconds			De condino deter	
Origin of the sound:				
			Recording date:	
VT98 Recording Ulm			Recording date.	
			Necording date.	
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**ESU** 

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Deco	oder information	
Decod	odertype: Loudspeaker: Confi	guration:
Lokso	soundV3.5 16MBit	
	ware-Version:	
0.0.59	5969	
Doco	odor Satur	
	oder Setup	
Addres		Break sections:  DCC   ☑
3	AC Mfx	DCC ⊠ M <b>ärklin</b> ⊠
	DCC 🗵 Selectrix 🗌	
Prime i	e mover sound description:	
diesel	sel mechenical sound, switches audible	
Functio	tion keys:	
FO	Light on/off	
F1	Sound on/off	
F2 F3	Airhorn Door	
F4	Conductor's Signal	
F5 F6	Announcement Shunting Mode	
F7	Brake Release	
F8	Diesel Notch Up	
F9	Diesel Notch Down	
F10 F11	Airhorn short	
F12		
F13		
F14 F15		
F16		
F17		
F18		
F19 F20		
•		
Specia	tial features:	

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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 180 = 000 00000000 0x00
CV 002 = 002 00000010 0x02	CV 115 = 015 00001111 0x0F	CV 181 = 003 00000011 0x03
CV 003 = 010 00001010 0x0A	CV 116 = 015 00001111 0x0F	CV 182 = 000 00000000 0x00
CV 004 = 006 00000110 0x06 CV 005 = 056 00111000 0x38	CV 117 = 000 00000000 0x00 CV 118 = 000 00000000 0x00	CV 183 = 000 00000000 0x00 CV 184 = 000 00000000 0x00
CV 005 = 030 00111000 0x38	CV 178 = 000 00000000 0x00 CV 121 = 064 01000000 0x40	CV 185 = 000 00000000 0x00 CV 185 = 006 00000110 0x06
CV 013 = 001 00000001 0x01	CV 122 = 064 01000000 0x40	CV 186 = 000 00000000 0x00
CV 014 = 003 00000011 0x03	CV 123 = 064 01000000 0x40	CV 187 = 000 00000000 0x00
CV 017 = 192 11000000 0xC0	CV 124 = 015 00001111 0x0F	CV 188 = 006 00000110 0x06
CV 018 = 000 00000000 0x00	CV 125 = 020 00010100 0x14	CV 189 = 064 01000000 0x40
CV 019 = 000 00000000 0x00 CV 021 = 000 00000000 0x00	CV 126 = 050 00110010 0x32 CV 127 = 030 00011110 0x1E	CV 190 = 000 00000000 0x00 CV 191 = 000 00000000 0x00
CV 021 = 000 00000000 0x00 CV 022 = 003 00000011 0x03	CV 127 = 030 00011110 0x1E CV 128 = 070 01000110 0x46	CV 191 = 000 00000000 0x00 CV 192 = 064 01000000 0x40
CV 029 = 022 00010110 0x16	CV 129 = 000 00000000 0x00	CV 193 = 000 00000000 0x00
CV 049 = 019 00010011 0x13	CV 130 = 000 00000000 0x00	CV 194 = 000 00000000 0x00
CV 050 = 003 00000011 0x03	CV 131 = 000 00000000 0x00	CV 195 = 128 10000000 0x80
CV 051 = 007 00000111 0x07	CV 132 = 000 00000000 0x00	CV 196 = 000 00000000 0x00
CV 052 = 000 00000000 0x00	CV 133 = 000 00000000 0x00	CV 197 = 000 00000000 0x00
CV 053 = 050 00110010 0x32 CV 054 = 025 00011001 0x19	CV 134 = 000 00000000 0x00 CV 135 = 000 00000000 0x00	CV 198 = 128 10000000 0x80 CV 199 = 000 00000000 0x00
CV 054 = 023 00011001 0x19	CV 135 = 000 00000000 0x00 CV 136 = 000 00000000 0x00	CV 200 = 000 00000000 0x00
CV 056 = 064 01000000 0x40	CV 137 = 000 00000000 0x00	CV 201 = 000 00000000 0x00
CV 057 = 000 00000000 0x00	CV 138 = 000 00000000 0x00	CV 202 = 000 00000000 0x00
CV 058 = 000 00000000 0x00	CV 139 = 000 00000000 0x00	CV 203 = 005 00000101 0x05
CV 059 = 032 00100000 0x20	CV 140 = 000 00000000 0x00	CV 204 = 000 00000000 0x00
CV 060 = 048 00110000 0x30	CV 141 = 001 00000001 0x01 CV 142 = 000 00000000 0x00	CV 205 = 000 00000000 0x00 CV 206 = 005 00000101 0x05
CV 061 = 040 00101000 0x28 CV 062 = 064 01000000 0x40	CV 142 = 000 00000000 0x00 CV 143 = 000 00000000 0x00	CV 207 = 000 00000000 0x00
CV 063 = 064 01000000 0x40	CV 144 = 002 00000010 0x02	CV 208 = 000 00000000 0x00
CV 064 = 007 00000111 0x07	CV 145 = 000 00000000 0x00	CV 209 = 000 00000000 0x00
CV 066 = 000 00000000 0x00	CV 146 = 000 00000000 0x00	CV 210 = 000 00000000 0x00
CV 067 = 009 00001001 0x09	CV 147 = 000 00000000 0x00	CV 211 = 000 00000000 0x00
CV 068 = 018 00010010 0x12	CV 148 = 004 00000100 0x04	CV 212 = 000 00000000 0x00
CV 069 = 027 00011011 0x1B CV 070 = 036 00100100 0x24	CV 149 = 000 00000000 0x00 CV 150 = 000 00000000 0x00	CV 213 = 000 00000000 0x00 CV 214 = 000 00000000 0x00
CV 070 = 030 00100100 0x24 CV 071 = 045 00101101 0x2D	CV 151 = 004 00000100 0x00	CV 214 = 000 00000000 0x00
CV 072 = 054 00110110 0x36	CV 152 = 000 00000000 0x00	CV 216 = 000 00000000 0x00
CV 073 = 063 00111111 0x3F	CV 153 = 000 00000000 0x00	CV 217 = 000 00000000 0x00
CV 074 = 072 01001000 0x48	CV 154 = 032 00100000 0x20	CV 218 = 000 00000000 0x00
CV 075 = 081 01010001 0x51	CV 155 = 001 00000001 0x01	CV 219 = 000 00000000 0x00
CV 076 = 091 01011011 0x5B CV 077 = 100 01100100 0x64	CV 156 = 000 00000000 0x00 CV 157 = 032 00100000 0x20	CV 220 = 000 00000000 0x00 CV 221 = 000 00000000 0x00
CV 077 = 100 01100100 0x04	CV 157 = 032 00100000 0x20 CV 158 = 001 00000001 0x01	CV 222 = 000 00000000 0x00
CV 079 = 118 01110110 0x76	CV 159 = 000 00000000 0x00	CV 223 = 000 00000000 0x00
CV 080 = 127 01111111 0x7F	CV 160 = 000 00000000 0x00	CV 224 = 000 00000000 0x00
CV 081 = 136 10001000 0x88	CV 161 = 002 00000010 0x02	CV 225 = 000 00000000 0x00
CV 082 = 145 10010001 0x91	CV 162 = 000 00000000 0x00	CV 226 = 000 00000000 0x00
CV 083 = 154 10011010 0x9A CV 084 = 163 10100011 0xA3	CV 163 = 000 00000000 0x00 CV 164 = 002 00000010 0x02	CV 227 = 000 00000000 0x00 CV 228 = 000 00000000 0x00
CV 084 = 163 10100011 0xAS	CV 164 = 002 00000010 0x02 CV 165 = 000 00000000 0x00	CV 229 = 000 00000000 0x00
CV 086 = 182 10110110 0xB6	CV 166 = 000 00000000 0x00	CV 230 = 000 00000000 0x00
CV 087 = 191 101111111 0xBF	CV 167 = 003 00000011 0x03	CV 231 = 000 00000000 0x00
CV 088 = 200 11001000 0xC8	CV 168 = 000 00000000 0x00	CV 232 = 000 00000000 0x00
CV 089 = 209 11010001 0xD1	CV 169 = 000 00000000 0x00	CV 233 = 000 00000000 0x00
CV 090 = 218 11011010 0xDA	CV 170 = 003 00000011 0x03	CV 234 = 000 00000000 0x00
CV 091 = 227 11100011 0xE3 CV 092 = 236 11101100 0xEC	CV 171 = 000 00000000 0x00 CV 172 = 000 00000000 0x00	CV 235 = 000 00000000 0x00 CV 236 = 000 00000000 0x00
CV 092 = 230 11101100 0XEC	CV 172 = 000 00000000 0x000 CV 173 = 004 00000100 0x04	CV 249 = 000 00000000 0x00
CV 094 = 255 11111111 0xFF	CV 174 = 000 00000000 0x00	CV 250 = 000 00000000 0x00
CV 095 = 000 00000000 0x00	CV 175 = 000 00000000 0x00	CV 251 = 000 00000000 0x00
CV 105 = 000 00000000 0x00	CV 176 = 004 00000100 0x04	CV 252 = 000 00000000 0x00
CV 106 = 000 00000000 0x00	CV 177 = 000 00000000 0x00	CV 253 = 000 00000000 0x00
CV 112 = 033 00100001 0x21 CV 113 = 015 00001111 0x0F	CV 178 = 003 00000011 0x03 CV 179 = 000 00000000 0x00	CV 254 = 000 00000000 0x00 CV 255 = 000 00000000 0x00
CV 113 = 013 00001111 0X0F	C 1 1 7 3 = 000 000000000 0X00	CV 255 = 000 00000000 0X00

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Revision	
REVISION	
Date issued: Sent by:	Customer's feedback date:
07-08-03 email	07-07-27
Customer's feedback (change requests):	
Von: Christian Bauer [mailto:reversio@reversio.de]	
Gesendet: Donnerstag, 26. Juli 2007 08:03	
An: Jürgen Lindner	
Cc: r.reindl@roco.cc; Andreas Koch Betreff: Vt 98	
Sehr geehrter Herr Lindner,	
violen Deals für des erste Cound Muster Des Standoeräusshist -	www.chet.okaontobol.doc.Cobraoresucch ontorricht
vielen Dank für das erste Sound-Muster. Das Standgeräusch ist z jedoch nicht den Vorstellungen. Auf jeden Fall sollten in der Mis-	
Auspuffgeräusche, wesentlichen Anteil haben. Auch die Schaltw	
Modellfahrzeug viel zu häufig hin und her schaltet.	
Wie wir uns den Fahrsound vorstellen, können Sie dem Video er	itnehmen:
·	and the state of t
http://www.youtube.com/watch?v=9rKfUD5qpRc	
Nach einer akustischen Messung des Modells konnte festgestellt	werden, dass die Frequenzen zwischen 2.5 und 4.3
kHz mit einer Spitze bei ca. 3,2 kHz überproportional zu hören s	ind. Daher wäre es gut, wenn Sie diesen
Frequenzbereich allgemein zunächst um 2 dB absenken könnter	ı, um einen "volleren" Klang zu erhalten.
Mit freundlichen Grüßen	
Christian Bauer	
Changes in comparison to the former version:	
Frequenzbereiche wie gewünscht korrigiert.	
Auspuffgeräusche hinzugefügt.	
Approval note added □	
Production file generated by:	Date of generating:
Manual generated by:	Manual generated from: