

## Sound Project Overview 11448-Roco-BR44 So

General project information				
Project-Name:	·	Version-No.:	Project-No.:	
Baureihe 44		2		11448
				11440
Item-No.:		Order-No.:		
Customer:	Contact	person:		
Roco Modelleisenbahn GmbH				
Plainbachstrasse 4 A-5101 Bergheim	TelNo.	:		
	Email:			
Project start:	Project status:	Date of approval:		
April 2009	Active			
OEM-Manual required				
Sound recording documentatio	n			
Origin of the sound:		ı	Recording date:	
ESU Baureihe 44 Recording				
Comments:				
Aufnahmen neu gesampelt				

ESU

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Decoder information					
Decoder	type: Loudspeaker:		Configuration:		
	ndV3.5 16MBit unknown		installed by manufacturer		
	101010101111111				
Firmware	e-Version:				
0.0.6088	8				
Decode	er Setup				
Address:	<del></del>	Protocols:	Break sections:		
3	64	DC Motorola AC mfx	DCC ⊠ Märklin ⊠		
		AC ⊠ mfx □ DCC ⊠ Selectrix □	Walkiii 🔼		
Drime m	over sound description:				
steam s	ound				
Function	keys:				
F0	Light on/off / Dynamo sound Sound on/off				
F1 F2	Sound on/off Whistle				
	Coupler				
F4	Smoke Generator				
	Injector				
F6 F7	Shunting Mode Coal Shoveling				
F8	Air pump				
F9	Water pump				
F10 F11	Conductor's signal Short whistle signal				
F12	Short Whate signal				
F13					
F14 F15					
F16					
F17					
F18					
F19 F20					
120					
Special features:					
1					

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## ESU

CV-Values		
CV DEC BIN HEX	CV DEC BIN HEX	CV DEC BIN HEX
CV 001 = 003 00000011 0x03	CV 114 = 127 01111111 0x7F	CV 178 = 003 00000011 0x03
CV 002 = 003 00000011 0x03	CV 115 = 015 00001111 0x0F	CV 179 = 000 00000000 0x00
CV 003 = 014 00001110 0x0E CV 004 = 010 00001010 0x0A	CV 116 = 015 00001111 0x0F CV 117 = 015 00001111 0x0F	CV 180 = 000 00000000 0x00 CV 181 = 003 00000011 0x03
CV 004 = 010 00001010 0x0A CV 005 = 033 00100001 0x21	CV 117 = 013 00001111 0x0F	CV 181 = 003 00000011 0x03 CV 182 = 000 00000000 0x00
CV 006 = 022 00010110 0x16	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 = 010 00001010 0x0A
CV 017 = 192 11000000 0xC0 CV 018 = 128 10000000 0x80	CV 122 = 064 01000000 0x40 CV 123 = 064 01000000 0x40	CV 186 = 000 00000000 0x00 CV 187 = 000 00000000 0x00
CV 018 = 128 10000000 0x80	CV 123 = 004 01000000 0x40 CV 124 = 015 00001111 0x0F	CV 187 = 000 00000000 0x00 CV 188 = 010 00001010 0x0A
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 = 004 00000100 0x04
CV 049 = 019 00010011 0x13 CV 050 = 003 00000011 0x03	CV 128 = 065 01000001 0x41 CV 129 = 000 00000000 0x00	CV 192 = 000 00000000 0x00 CV 193 = 000 00000000 0x00
CV 050 = 003 00000011 0x03	CV 130 = 000 00000000 0x00	CV 194 = 004 00000100 0x04
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 055 = 024 00011000 0x18	CV 133 = 000 00000000 0x00	CV 197 = 005 00000101 0x05
CV 055 = 024 00011000 0x18	CV 134 = 000 00000000 0x00 CV 135 = 000 00000000 0x00	CV 198 = 000 00000000 0x00 CV 199 = 000 00000000 0x00
CV 058 = 084 01000000 0x40 CV 057 = 074 01001010 0x4A	CV 135 = 000 00000000 0x00 CV 136 = 000 00000000 0x00	CV 200 = 005 00000101 0x05
CV 058 = 044 00101100 0x2C	CV 137 = 006 00000110 0x06	CV 201 = 000 00000000 0x00
CV 059 = 032 00100000 0x20	CV 138 = 000 00000000 0x00	CV 202 = 000 00000000 0x00
CV 060 = 055 00110111 0x37	CV 139 = 000 00000000 0x00	CV 203 = 007 00000111 0x07
CV 061 = 015 00001111 0x0F CV 062 = 030 00011110 0x1E	CV 140 = 006 00000110 0x06 CV 141 = 001 00000001 0x01	CV 204 = 000 00000000 0x00 CV 205 = 000 00000000 0x00
CV 062 = 030 00011110 0x1E CV 063 = 064 01000000 0x40	CV 141 = 001 00000001 0x01 CV 142 = 000 00000000 0x00	CV 205 = 000 00000000 0x00 CV 206 = 007 00000111 0x07
CV 064 = 007 00000111 0x07	CV 143 = 009 00001001 0x09	CV 207 = 000 00000000 0x00
CV 066 = 128 10000000 0x80	CV 144 = 002 00000010 0x02	CV 208 = 000 00000000 0x00
CV 067 = 009 00001001 0x09	CV 145 = 000 00000000 0x00	CV 209 = 008 00001000 0x08
CV 068 = 018 00010010 0x12 CV 069 = 027 00011011 0x1B	CV 146 = 009 00001001 0x09 CV 147 = 000 00000000 0x00	CV 210 = 000 00000000 0x00 CV 211 = 000 00000000 0x00
CV 003 = 027 00011011 0x15 CV 070 = 036 00100100 0x24	CV 147 = 000 00000000 0x000 CV 148 = 004 00000100 0x04	CV 211 = 000 00000000 0x00 CV 212 = 008 00001000 0x08
CV 071 = 045 00101101 0x2D	CV 149 = 000 00000000 0x00	CV 213 = 000 00000000 0x00
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 075 = 081 01010001 0x51	CV 152 = 000 00000000 0x00 CV 153 = 000 00000000 0x00	CV 216 = 000 00000000 0x00 CV 217 = 000 00000000 0x00
CV 075 = 081 01010001 0x51 CV 076 = 091 01011011 0x5B	CV 153 = 000 0000000 0x00 CV 154 = 032 00100000 0x20	CV 217 = 000 00000000 0x00
CV 077 = 100 01100100 0x64	CV 155 = 001 00000001 0x01	CV 219 = 000 00000000 0x00
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 158 = 001 00000001 0x01	CV 221 = 000 00000000 0x00
CV 080 = 127 01111111 0x7F CV 081 = 136 10001000 0x88	CV 158 = 001 00000001 0x01 CV 159 = 000 00000000 0x00	CV 222 = 000 00000000 0x00 CV 223 = 000 00000000 0x00
CV 081 = 130 10001000 0x88 CV 082 = 145 10010001 0x91	CV 160 = 000 00000000 0x00	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 = 000 00000000 0x00	CV 227 = 000 00000000 0x00
CV 086 = 182 10110110 0xB6 CV 087 = 191 10111111 0xBF	CV 164 = 002 00000010 0x02 CV 165 = 004 00000100 0x04	CV 228 = 000 00000000 0x00 CV 229 = 000 00000000 0x00
CV 087 = 191 101111111 0x81 CV 088 = 200 11001000 0xC8	CV 166 = 000 00000000 0x00	CV 230 = 000 00000000 0x00
CV 089 = 209 11010001 0xD1	CV 167 = 000 00000000 0x00	CV 231 = 000 00000000 0x00
CV 090 = 218 11011010 0xDA	CV 168 = 004 00000100 0x04	CV 232 = 000 00000000 0x00
CV 091 = 227 11100011 0xE3 CV 092 = 236 11101100 0xEC	CV 169 = 000 00000000 0x00 CV 170 = 000 00000000 0x00	CV 233 = 000 00000000 0x00 CV 234 = 000 00000000 0x00
CV 092 = 236	CV 170 = 000 00000000 0x00 CV 171 = 000 00000000 0x00	CV 234 = 000 00000000 0x00 CV 235 = 000 00000000 0x00
CV 094 = 255 11111111 0xFF	CV 177 = 000 00000000 0x00	CV 236 = 000 00000000 0x00
CV 095 = 080 01010000 0x50	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 112 = 033 00100001 0x21	CV 175 = 000 00000000 0x00 CV 176 = 003 00000011 0x03	CV 251 = 000 00000000 0x00 CV 252 = 000 00000000 0x00
CV 112 = 033 00100001 0x21 CV 113 = 127 01111111 0x7F	CV 177 = 003 00000011 0x03	CV 253 = 000 00000000 0x00
1	555 0000000 0/v00	J. 200 000 000 000



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Revision						
Date issued:	Sent by:	Customer's feedback date:				
09-06-10	Email					
Customer's feed	Customer's feedback (change requests):					
speed and chuf	parison to the former version: f synchronisation adjusted, rod clank volume dim	nuished, whistle volume amplified.				
		·				
Approval note ad						
Production file g	enerated by:	Date of generating:				
Manual generate	ed by:	Manual generated from:				