

## Sound Project Overview 11415-Roco-BR232\_5

| General project information              |                         |                 |
|--|-------------------------|-----------------|
| Project-Name:                            | Version-No.:            | Project-No.:    |
| Roco BR 232                              | 2 (Rerun)               | 11415           |
| Item-No.:                                | Order-No.:              |                 |
| item-No                                  | Order-No                |                 |
|  |                         |                 |
| Customer:                                | Contact person:         |                 |
| ROCO                                     | Tal No.                 |                 |
|  | TelNo.:                 |                 |
|  | Email:                  |                 |
|  |                         |                 |
| Project start: Project                   | status: Date of approva | al:             |
| 06-10-16 Active                          |                         |                 |
| OEM-Manual required                      |                         |                 |
| ·  |                         |                 |
| Sound recording documentation            |                         |                 |
| Origin of the sound:                     |                         | Recording date: |
| 11415 first version, ESU BR232 Recording |                         |                 |
| Comments:                                |                         |                 |
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ESU

## Sound Project Overview 11415-Roco-BR232\_5

| Deco              | der information                    |                    |  |  |
|-------------------|------------------------------------|--------------------|--|--|
| Decode            | lertype: Loudspeaker:              | Configuration:     |  |  |
|                   | ound V3.5 8MBit                    |                    |  |  |
|                   | <u> </u>                           |                    |  |  |
| Firmwa            | are-Version:                       |                    |  |  |
| 0.0.59            | 969                                |                    |  |  |
|                   |                                    |                    |  |  |
| Dosos             | der Ceture                         |                    |  |  |
|                   | der Setup                          |                    |  |  |
| Addres            |                                    | Break sections:    |  |  |
| 3                 | DC ⊠ Motorola ⊠ AC ⊠ mfx           | DCC ⊠<br>Märklin ⊠ |  |  |
|                   | AC Mfx DCC Selectrix               | IVIAI KIIII        |  |  |
|                   |                                    |                    |  |  |
|                   | mover sound description:           |                    |  |  |
| 1 drive           | restep, pitched according to speed |                    |  |  |
|                   |                                    |                    |  |  |
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|                   |                                    |                    |  |  |
|                   |                                    |                    |  |  |
|                   |                                    |                    |  |  |
| Functio           | on keys:                           |                    |  |  |
| FO                | Light on/off                       |                    |  |  |
| F1                | Sound on/off                       |                    |  |  |
| F2<br>F3          | Airhorn 1 Airhorn 2                |                    |  |  |
| F4                | Coupler                            |                    |  |  |
| F5                | Compressor                         |                    |  |  |
| F6<br>F7          | Shunting Mode Compressed Air       |                    |  |  |
| F8                | Schuetz                            |                    |  |  |
| F9                | Sanding                            |                    |  |  |
| F10<br>F11        | Conductor                          |                    |  |  |
| F12               | Airhorn 1 short Airhorn 2 short    |                    |  |  |
| F13               | 7 Millotti E Short                 |                    |  |  |
| F14               |                                    |                    |  |  |
| F15<br>F16        |                                    |                    |  |  |
| F17               |                                    |                    |  |  |
| F18               |                                    |                    |  |  |
| F19               |                                    |                    |  |  |
| F20               |                                    |                    |  |  |
| Special features: |                                    |                    |  |  |
|                   |                                    |                    |  |  |
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| 1                 |                                    |                    |  |  |

Sound Project Overview 11415-Roco-BR232\_S

## ESU

| CV-Values  |  |  |
|--|--|--|
| CV DEC BIN HEX   | CV DEC BIN HEX   | CV DEC BIN HEX   |
| CV 001 = 003 00000011 0x03                               | CV 116 = 015 00001111 0x0F                               | CV 182 = 000 00000000 0x00                               |
| CV 002 = 003 00000011 0x03                               | CV 117 = 000 00000000 0x00                               | CV 183 = 000 00000000 0x00                               |
| CV 003 = 010 00001010 0x0A                               | CV 118 = 000 00000000 0x00                               | CV 184 = 000 00000000 0x00                               |
| CV 004 = 004 00000100 0x04<br>CV 005 = 040 00101000 0x28 | CV 121 = 064 01000000 0x40<br>CV 122 = 064 01000000 0x40 | CV 185 = 004 00000100 0x04<br>CV 186 = 000 00000000 0x00 |
| CV 006 = 020 000101000 0x28                              | CV 122 = 064 01000000 0x40<br>CV 123 = 064 01000000 0x40 | CV 187 = 000 00000000 0x00                               |
| CV 013 = 001 00000001 0x01                               | CV 124 = 006 00000110 0x06                               | CV 188 = 004 00000100 0x04                               |
| CV 014 = 003 00000011 0x03                               | CV 125 = 020 00010100 0x14                               | CV 189 = 000 00000000 0x00                               |
| CV 017 = 192 11000000 0xC0                               | CV 126 = 060 00111100 0x3C                               | CV 190 = 000 00000000 0x00                               |
| CV 018 = 000 00000000 0x00                               | CV 127 = 030 00011110 0x1E                               | CV 191 = 005 00000101 0x05                               |
| CV 019 = 000 00000000 0x00                               | CV 128 = 070 01000110 0x46                               | CV 192 = 000 00000000 0x00                               |
| CV 021 = 000 00000000 0x00<br>CV 022 = 003 00000011 0x03 | CV 129 = 000 00000000 0x00<br>CV 130 = 000 00000000 0x00 | CV 193 = 000 00000000 0x00<br>CV 194 = 005 00000101 0x05 |
| CV 022 = 005 00000011 0x05<br>CV 029 = 006 00000110 0x06 | CV 130 = 000 00000000 0x00<br>CV 131 = 000 00000000 0x00 | CV 195 = 000 00000000 0x00                               |
| CV 049 = 027 00011011 0x1B                               | CV 132 = 000 00000000 0x00                               | CV 196 = 000 00000000 0x00                               |
| CV 050 = 003 00000011 0x03                               | CV 133 = 000 00000000 0x00                               | CV 197 = 007 00000111 0x07                               |
| CV 051 = 002 00000010 0x02                               | CV 134 = 000 00000000 0x00                               | CV 198 = 000 00000000 0x00                               |
| CV 052 = 000 00000000 0x00                               | CV 135 = 000 00000000 0x00                               | CV 199 = 000 00000000 0x00                               |
| CV 053 = 050 00110010 0x32                               | CV 136 = 000 00000000 0x00                               | CV 200 = 007 00000111 0x07                               |
| CV 054 = 032 00100000 0x20<br>CV 055 = 024 00011000 0x18 | CV 137 = 005 00000101 0x05<br>CV 138 = 000 00000000 0x00 | CV 201 = 000 00000000 0x00<br>CV 202 = 000 00000000 0x00 |
| CV 056 = 064 01000000 0x40                               | CV 138 = 000 00000000 0x00                               | CV 203 = 008 00001000 0x08                               |
| CV 057 = 000 00000000 0x00                               | CV 140 = 005 00000101 0x05                               | CV 204 = 000 00000000 0x00                               |
| CV 058 = 001 00000001 0x01                               | CV 141 = 001 00000001 0x01                               | CV 205 = 000 00000000 0x00                               |
| CV 059 = 032 00100000 0x20                               | CV 142 = 000 00000000 0x00                               | CV 206 = 008 00001000 0x08                               |
| CV 060 = 052 00110100 0x34                               | CV 143 = 000 00000000 0x00                               | CV 207 = 000 00000000 0x00                               |
| CV 061 = 026 00011010 0x1A                               | CV 144 = 002 00000010 0x02                               | CV 208 = 000 00000000 0x00                               |
| CV 062 = 040 00101000 0x28<br>CV 063 = 064 01000000 0x40 | CV 145 = 000 00000000 0x00<br>CV 146 = 000 00000000 0x00 | CV 209 = 009 00001001 0x09<br>CV 210 = 000 00000000 0x00 |
| CV 064 = 007 00000111 0x07                               | CV 147 = 000 00000000 0x00                               | CV 211 = 000 00000000 0x00                               |
| CV 066 = 000 00000000 0x00                               | CV 148 = 004 00000100 0x04                               | CV 212 = 009 00001001 0x09                               |
| CV 067 = 003 00000011 0x03                               | CV 149 = 000 00000000 0x00                               | CV 213 = 000 00000000 0x00                               |
| CV 068 = 005 00000101 0x05                               | CV 150 = 000 00000000 0x00                               | CV 214 = 000 00000000 0x00                               |
| CV 069 = 008 00001000 0x08                               | CV 151 = 004 00000100 0x04                               | CV 215 = 010 00001010 0x0A                               |
| CV 070 = 011 00001011 0x0B<br>CV 071 = 015 00001111 0x0F | CV 152 = 000 00000000 0x00<br>CV 153 = 000 00000000 0x00 | CV 216 = 000 00000000 0x00<br>CV 217 = 000 00000000 0x00 |
| CV 077 = 013 00001111 0x01<br>CV 072 = 018 00010010 0x12 | CV 153 = 000 0000000 0x00 CV 154 = 000 00000000 0x00     | CV 217 = 000 00000000 0x00<br>CV 218 = 010 00001010 0x0A |
| CV 073 = 022 00010110 0x16                               | CV 155 = 001 00000001 0x01                               | CV 219 = 000 00000000 0x00                               |
| CV 074 = 026 00011010 0x1A                               | CV 156 = 000 00000000 0x00                               | CV 220 = 000 00000000 0x00                               |
| CV 075 = 030 00011110 0x1E                               | CV 157 = 000 00000000 0x00                               | CV 221 = 000 00000000 0x00                               |
| CV 076 = 034 00100010 0x22                               | CV 158 = 001 00000001 0x01                               | CV 222 = 000 00000000 0x00                               |
| CV 077 = 040 00101000 0x28                               | CV 159 = 000 00000000 0x00                               | CV 223 = 000 00000000 0x00                               |
| CV 078 = 046 00101110 0x2E<br>CV 079 = 052 00110100 0x34 | CV 160 = 000 00000000 0x00<br>CV 161 = 002 00000010 0x02 | CV 224 = 000 00000000 0x00<br>CV 225 = 000 00000000 0x00 |
| CV 080 = 058 00111010 0x3A                               | CV 161 = 002 00000010 0x02<br>CV 162 = 000 00000000 0x00 | CV 225 = 000 00000000 0x00                               |
| CV 081 = 066 01000010 0x42                               | CV 163 = 000 00000000 0x00                               | CV 227 = 000 00000000 0x00                               |
| CV 082 = 074 01001010 0x4A                               | CV 164 = 002 00000010 0x02                               | CV 228 = 000 00000000 0x00                               |
| CV 083 = 082 01010010 0x52                               | CV 165 = 000 00000000 0x00                               | CV 229 = 000 00000000 0x00                               |
| CV 084 = 090 01011010 0x5A                               | CV 166 = 000 00000000 0x00                               | CV 230 = 000 00000000 0x00                               |
| CV 085 = 100 01100100 0x64<br>CV 086 = 110 01101110 0x6E | CV 167 = 006 00000110 0x06<br>CV 168 = 000 00000000 0x00 | CV 231 = 000 00000000 0x00                               |
| CV 086 = 110 01101110 0x6E                               | CV 168 = 000 00000000 0x00<br>CV 169 = 000 00000000 0x00 | CV 232 = 000 00000000 0x00<br>CV 233 = 000 00000000 0x00 |
| CV 088 = 136 10001000 0x88                               | CV 170 = 006 00000110 0x06                               | CV 234 = 000 00000000 0x00                               |
| CV 089 = 152 10011000 0x98                               | CV 171 = 000 00000000 0x00                               | CV 235 = 000 00000000 0x00                               |
| CV 090 = 168 10101000 0xA8                               | CV 172 = 000 00000000 0x00                               | CV 236 = 000 00000000 0x00                               |
| CV 091 = 188 10111100 0xBC                               | CV 173 = 003 00000011 0x03                               | CV 249 = 000 00000000 0x00                               |
| CV 092 = 208 11010000 0xD0                               | CV 174 = 000 00000000 0x00                               | CV 250 = 000 00000000 0x00                               |
| CV 093 = 230 11100110 0xE6<br>CV 094 = 255 11111111 0xFF | CV 175 = 000 00000000 0x00<br>CV 176 = 003 00000011 0x03 | CV 251 = 000 00000000 0x00<br>CV 252 = 000 00000000 0x00 |
| CV 094 = 255 11111111 0xFF                               | CV 176 = 003 00000011 0x03<br>CV 177 = 000 00000000 0x00 | CV 252 = 000 00000000 0x00<br>CV 253 = 000 00000000 0x00 |
| CV 112 = 033 00100001 0x21                               | CV 177 = 000 00000000 0x00                               | CV 254 = 000 00000000 0x00                               |
| CV 113 = 015 00001111 0x0F                               | CV 179 = 000 00000000 0x00                               | CV 255 = 000 00000000 0x00                               |
| CV 114 = 015 00001111 0x0F                               | CV 180 = 000 00000000 0x00                               |  |
| CV 115 = 015 00001111 0x0F                               | CV 181 = 003 00000011 0x03                               |  |



## Sound Project Overview 11415-Roco-BR232\_5

| Revision          |  |                           |  |  |  |
|-------------------|--|---------------------------|--|--|--|
| Date issued:      | Sent by:                               | Customer's feedback date: |  |  |  |
| 06-10-17          | by email                               |                           |  |  |  |
| Customer's feed   | Customer's feedback (change requests): |                           |  |  |  |
|                   |  |                           |  |  |  |
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| Changes in com    | parison to the former version:         |                           |  |  |  |
| Changes in com    | ourison to the former version.         |                           |  |  |  |
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| Approval note a   | dded 🗌                                 |                           |  |  |  |
| Production file g | enerated by:                           | Date of generating:       |  |  |  |
|                   |  |                           |  |  |  |
| Manual generate   | ed by:                                 | Manual generated from:    |  |  |  |
|                   |  |                           |  |  |  |
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