

Function Mapping for WalthersMainline ESU sound & DCC decoder

| CV | Description | Grade | | | | | | | | CV2 | Slot 1 | Slot 2 | Slot 3 | Slot 4 | Slot 5 | Slot 6 | Slot 7 | Slot 8 |
|-----|-------------|------------|------------|------|------|---------|--------|------------|----------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| | | Head Light | Rear Light | AUX1 | AUX2 | Shift 1 | Brake1 | Drive Hold | Crossing Logic | | | | | | | | | |
| 33 | F0 Forward | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 211 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 34 | F0 Reverse | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 212 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 35 | F1 Forward | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 213 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 36 | F2 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 214 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 37 | F3 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 215 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 38 | F4 Forward | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 216 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 39 | F5 Forward | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 217 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 40 | F6 Forward | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 218 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 41 | F7 Forward | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 219 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 42 | F8 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 220 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 43 | F9 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 221 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 44 | F10 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 222 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 45 | F11 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 223 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 46 | F12 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 224 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 200 | F1 Reverse | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 225 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 201 | F13 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 226 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 202 | F14 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 227 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 203 | F15 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 228 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 204 | F16 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 229 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 205 | F17 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 230 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 206 | F18 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 231 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 207 | F4 Reverse | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 232 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 208 | F5 Reverse | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 233 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 209 | F6 Reverse | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 234 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| 210 | F7 Reverse | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 235 | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |