Porter Kleinloks

16Bit
SOUND

Vorbild Information

The Baldwin locomotive factory builds rather larger locomotives. However, it focused very early on on a modular production. This was an advantage, especially during the First World War. Field track locomotives were produced for the U.S. Army. These four or six driver, often tender locomotives, were the workhorses of the small industrial railways and are still to be found today on museum railways.
The construction is very simple and handy - built for rough use.

Sound Projekt Informationen

The sound project reflects the typical chuff sound. The Sound Project is coal-fired.
The sound project is based on the Zimo Advanced Standard. Current decoders with the SW from version 39 required.
The sound project fits all Zimo decoders, and is also available in a 16 bit version for MS decoder
FA 7 and Servo 1 switch electrical couplers. The Kadee electric coupler can be easily plugged into the servo 1 connector.
A servo can be plugged in at the servo output 4 to control the swinging bell
The CVs 3, 4, 5, 57, 154 and 158 are relevant for this sound project. Changes can cause sound malfunctions!
Please do not set the final speed with CV 5, but with CV 57.
A large-scale train decoder is recommended for use of the smoke generator!
Treat yourself the fun, drive like a real train driver with power regulator and brake.
To do this, change the following CVs: CV4 value 255, CV39 value 0, CV309 value 5, CV349 value 20, CV 442 value 23, CV444 value 5, CV446 value 5
Now the cab light is switched with function 23 and function 5 is the brake. The locomotive only starts when the brake is released (function 5 off). The locomotive accelerates as usual when the controller is open. If the controller is closed, the locomotive rolls out a large disance and can be stopped at any time with the brake function 5. Of course, everything with the right sounds. With the value in CV 349, the brake can be adjusted more or weaker.
By default, the function number is the same as the function key number. All functions can be assigned to other function keys with the Zimo input mapping. The function key number is entered as a value in the CV400+Fu number, and the function key is assigned. Attention, several functions can be placed on the same function key! Please read the instructions onhttp://sound-design.white-stone.ch/Information.html

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Function	Installation	Function output	Sound Effect
F0	Light on	FA 0v+0r	Generator sound turns on
F1	Bell		Bell
F2	Whistle long-long-short-long		Before highway crossing
F3	Long whistling		Whistle as long as you press
F4	short whistling		
F5	Light cab	FA 5	Generator sound turns on
F6	Smoke generator on, load dependent.	FA 6 Heating switchoff after 15 min Fan output	
F7	Cylinder blow down		Steam emitted out of the cylinders
F8	Sound on/off		
F9	Curves squeak		Curves squeak
F10	Coalshoveling	FA 8 flickers automatically	
F11	Blower	Smoke fan on	Blow steam
F12	Open the clutch, locomotive back and forward	FA7 and Serrvo1 open electrically	Uncoupling noise
F13	Coupling		Couplings hook into each other
F14	Safety valve		Loud steam blowing
F15	Full power / leakage		switch the noise modes
F16	Lower volume in the tunnel (muting)		Lower or ramp up vol in 2.5 seconds
F17	Conductor		„All aboard!"
F18	Injector		water inject into the boiler
F19	Air pump fast		
F20	Filling the tender with water		Water splashes
F21	Boiler floor sludge		
F26	Turn off start-up whistles		No start-up whistles
F27	Volume -		Light
F28	Volume +		Louder

Random effect	Sound	
Z1	Air pump fast	After each stop
Z2	Air pump slow	Add pressure loss
Z3	Coal shoveling	FA8 flickers
Z4	Blower	Fan blows smoke from stack
Z5	Injektor	Water is injected into the boiler
Z6	Ventil abschlämmen	
Z7	Dampf ablassen	
Z8	Sicherheitsventil	Loud blowing of the safety valve

Reed	Sound	
1	Curve squeaking	
2		

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3		

Geänderte CVs Werte, vom Reset verwendet

CV# 3 = 18 Acceleration rate
CV# 4 = 20 Deceleration rate
CV# 7 = ---
CV# 9 = 55 Motor control frequency
CV# 23 = 1 Acceleration variation
CV# 35 = 0 Function mapp. F1
CV# 36 = 0 Function mapp. F2
CV# 37 = 0 Function mapp. F3
CV# 38 = 0 Function mapp. F4
CV# 41 = 0 Function mapp. F7
CV# 42 = 0 Function mapp. F8
CV# 43 = 0 Function mapp. F9
CV# 44 = 0 Function mapp. F10
CV# 45 = 0 Function mapp. F11
CV# 46 = 4 Function mapp. F12
CV# 57 = 120   Motor regulation: voltage reference
CV# 60 = 213 Dimming general
CV# 65 = 0 Sub-Vers. Number
CV# 114 = 172 Dim Mask FO0-FO6
CV# 115 = 66 Uncoupler control
CV# 116 = 145 Automatic uncouple
CV# 125 = 88 Effects F0 front
CV# 126 = 88 Effects F0 rear
CV# 131 = 88 Effects F5
CV# 132 = 72 Effects F6
CV# 137 = 153 Smoke generator at standstill
CV# 138 = 204 Smoke generator at cruising speed
CV# 139 = 255   Smoke generator at acceleration
CV# 154 = 18   ZIMO configuration bits 2 (binary)
CV# 159 = 48 Effects F7
CV# 160 = 8 Effects F8
CV# 163 = 255 Servo 1 right stop
CV# 167 = 255 Servo 2 right stop
CV# 174 = 0 Servo 4 left stop
CV# 175 = 255 Servo 4 right stop
CV# 177 = 9 Servo 4 speed
CV# 181 = 12 Servo 1 - Function Assignment
CV# 182 = 12 Servo 2 - Function Assignment
CV# 184 = 201 Servo 4 - Function Assignment
CV# 190 = 20 Up-dimming time for FO
CV# 191 = 8 Down-dimming time for FO
CV# 250 = 230 Decoder-ID 1
CV# 252 = 10 Decoder-ID 3
CV# 253 = 147 Decoder-ID 4
CV# 272 = 150 Drainage time
CV# 273 = 10 Starting delay

CV# 274 = 80 min. drainage downtime [0.1s]
CV# 275 = 181   Volume with no load slow travel
CV# 276 = 181   Volume with no load speed run
CV# 281 = 3 Threshold for full acceleration sound
CV# 284 = 2 Threshold for noise reduction in delay
CV# 285 = 20 Duration of the noise reduction with delay
CV# 286 = 140 Volume reduced driving noise during deceleration
CV# 287 = 150 Threshold for brake squeal
CV# 307 = 128 cornering squeal inputs
CV# 308 = 9 cornering squeal key
CV# 312 = 7 Drainage button
CV# 313 = 116 Mute button
CV# 314 = 25 Mute fade time
CV# 315 = 1 Random Z1 min interval
CV# 316 = 20 Random Z1 max interval
CV# 317 = 15 Random generator Z1 playback time
CV# 318 = 180 Random Z2 min interval
CV# 319 = 180 Random Z2 max interval
CV# 320 = 50 Random generator Z2 playback time
CV# 321 = 90 Random Z3 min interval
CV# 322 = 100 Random Z3 max interval
CV# 323 = 9 Random generator Z3 playback time
CV# 324 = 100 Random Z4 min interval
CV# 325 = 110 Random Z4 max interval
CV# 326 = 12 Random generator Z4 playback time
CV# 327 = 110 Random Z5 min interval
CV# 328 = 120 Random Z5 max interval
CV# 329 = 7 Random generator Z5 playback time
CV# 330 = 180 Random Z6 min interval
CV# 331 = 255 Random Z6 max interval
CV# 332 = 1 Random generator Z6 playback time
CV# 333 = 210 Random Z7 min interval
CV# 334 = 255 Random Z7 max interval
CV# 335 = 8 Random generator Z7 playback time
CV# 336 = 255 Random Z8 min interval
CV# 337 = 255 Random Z8 max interval

CV# 338 = 14 Random generator Z8 playback time

CV# 341 = 10 Switching input 1 Playback time

CV# 342 = 4 Switching input 2 Playback time

CV# 345 = 15 Sound-switch-key

CV# 346 = 2 Sound-switch-conditions

CV# 351 = 204 Smoke fan pwm at constant speed

CV# 353 = 37 Smoke heater max. operating time

CV# 376 = 181 Driving sound volume

CV# 394 = 32 ZIMO configuration 4 (binary)

CV# 395 = 120 maximal volume

CV# 396 = 27 Volume decrease key

CV# 397 = 28 Volume increase key

CV# 516 = 45 F2 soundnumber

CV# 519 = 46 F3 soundnumber

CV# 521 = 72 F3 information on loop

CV# 522 = 47 F4 soundnumber

CV# 540 = 51 F10 soundnumber

CV# 541 = 64 F10 volume

CV# 542 = 8 F10 information on loop

CV# 543 = 32 F11 soundnumber

CV# 544 = 91 F11 volume

CV# 545 = 72 F11 information on loop

CV# 546 = 34 F12 soundnumber

CV# 547 = 128 F12 volume

CV# 549 = 33 F13 soundnumber

CV# 552 = 43 F14 soundnumber

CV# 554 = 8 F14 information on loop

CV# 561 = 35 F17 soundnumber

CV# 562 = 181 F17 volume

CV# 564 = 37 F18 soundnumber

CV# 565 = 91 F18 volume

CV# 566 = 8 F18 information on loop

CV# 567 = 29 F19 soundnumber

CV# 568 = 181 F19 volume

CV# 569 = 8 F19 information on loop

CV# 575 = 41 soundnumber change of direction

CV# 576 = 128 volume change of direction

CV# 577 = 31 soundnumber squeal

CV# 578 = 128 volume squeal

CV# 583 = 40 Soundnumber drainage

CV# 603 = 36 cornering squeal sound number

CV# 604 = 64 cornering squeal volume

CV# 673 = 40 F20 soundnumber

CV# 674 = 181 F20 volume

CV# 675 = 8 F20 information on loop

CV# 676 = 44 F21 soundnumber

CV# 678 = 72 F21 information on loop

CV# 734 = 51 Soundnumber trigger 5

CV# 735 = 10 Trigger 5 to FO

CV# 736 = 32 Soundnumber trigger 6

CV# 737 = 255 Trigger 6 to FO

CV# 744 = 29 Soundnumber Z1

CV# 745 = 181 Volume Z1

CV# 746 = 8 Information on loop Z1

CV# 747 = 30 Soundnumber Z2

CV# 748 = 128 Volume Z2

CV# 749 = 8 Information on loop Z2

CV# 750 = 51 Soundnumber Z3

CV# 751 = 64 Volume Z3

CV# 752 = 8 Information on loop Z3

CV# 753 = 32 Soundnumber Z4

CV# 754 = 91 Volume Z4

CV# 755 = 8 Information on loop Z4

CV# 756 = 37 Soundnumber Z5

CV# 757 = 64 Volume Z5

CV# 758 = 8 Information on loop Z5

CV# 759 = 38 Soundnumber Z6

CV# 760 = 128 Volume Z6

CV# 761 = 8 Information on loop Z6

CV# 762 = 40 Soundnumber Z7

CV# 763 = 16 Volume Z7

CV# 764 = 8 Information on loop Z7

CV# 765 = 43 Soundnumber Z8

CV# 766 = 128 Volume Z8

CV# 767 = 8 Information on loop Z8