

SWD LSV4 Volume info sheet

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13.1. Adjust the sound volume

The LokSound V4.0 range allows the individual volume control of each sound. Every sound has its own CV.

13.1.1. Adjusting the master volume

Function	Sound slot	CV	Range	Factory default
Master volume level		63	0 – 192	180

The master volume level, controls all sound effects. A value of „0“ would mute the decoder completely. The resulting sound volume for each individual sound effect therefore is a mixture of the master volume control settings and the individual volume control values.

F12 Volume control: (Steam Only)

Every time you press the button (and release it again) the sound volume is reduced a bit. When toggled On / Off for 5 cycles, full volume is restored. This is useful for setting the desired volume during operation without having to program at the same time.

Note: If F12 Left On sound will Mute. F12 Off Sound restored.

13.1.2. Single sound tables

All single sounds are subdivided in so-called sound slots. Each sound slot controls a certain sound and its volume can be individually adjusted. The following charts show how the CVs are allocated to each sound slot.

Warning !

Before you change any of the volume control CVs, please make sure that CV 32 is set to 1. CV 32 is used as an index selection register to distinguish between the function of CVs 257 – 512.

When you adjust the volume levels, please keep in mind that you should not exceed the maximum mixer levels to avoid a condition called “clipping” which occurs when the sum of two or more signals exceeds the capacity of the output channel.

Clipping can be identified by clicking or popping sounds. To avoid this situation, consider which sounds are likely to be played at the same time and take care that their corresponding volume levels are not set too high.

See SWD Data Sheet supplied with your decoder for sound slot allocation.

Special sound table

Function	Soundslot	CV	Range	Value
Random sounds	-	451	0 – 128	128
Brake sound	-	459	0 – 128	128
Camshaft contactors (for elect. locos)	-	467	0 – 128	128

SWD Steam sound table

Function	Soundslot	CV	Range	Value
Sound on/off	1	259	0 – 128	99
Sound on/off	2	267	0 – 128	99
Whistle 1 (playable)	3	275	0 – 128	128
Bell	4	283	0 – 128	128
Coal shovelling	5	291	0 – 128	128
Air pump	6	299	0 – 128	128
Station announcement 1	7	307	0 – 128	128
Coupler sound	8	315	0 – 128	128
Cylinder blow	9	323	0 – 128	128
Conductor whistle	10	331	0 – 128	128
Sanding valve	11	339	0 – 128	128
Safety valve	12	347	0 – 128	128
Brake Set / Brake Release	13	355	0 – 128	128
Drain Cocks	14	363	0 – 128	128
Flange squeal	15	371	0 – 128	128
Whistle 2 (Short)	16	379	0 – 128	128
Rail joints	17	387	0 – 128	128
Rail joints	18	395	0 – 128	128
Whistle 3	19	403	0 – 128	128
Injector	20	411	0 – 128	128
	21	419	0 – 128	128
Steam Generator	22	427	0 – 128	128
Buffer Up	23	435	0 – 128	128
Boiler noise	24	443	0 – 128	128

SWD Diesel sound table

Function	Soundslot	CV	Range	Value
Sound on/off	1	259	0 – 128	99
Sound on/off	2	267	0 – 128	99
Horn 1	3	275	0 – 128	128
Horn 2	4	283	0 – 128	128
Fan motor	5	291	0 – 128	128
Compressor	6	299	0 – 128	128
Station announcement. 1	7	307	0 – 128	128
Coupler sound	8	315	0 – 128	128
Air outlet valve	9	323	0 – 128	128
Conductor whistle	10	331	0 – 128	128
Sanding valve	11	339	0 – 128	128
Close/Open doors	12	347	0 – 128	128
Brake Set / Brake Release	13	355	0 – 128	128
Station announcement. 2	14	363	0 – 128	128
Curve squeal (Flange)	15	371	0 – 128	128
Horn 3	16	379	0 – 128	128
Horn 4	17	387	0 – 128	128
Rail joints	18	395	0 – 128	128
	19	403	0 – 128	128
	20	411	0 – 128	128
	21	419	0 – 128	128
	22	427	0 – 128	128
	23	435	0 – 128	128
	24	443	0 – 128	128