

## NON-OFFICIAL ADDITIONAL CODES

### Class A4 sound project by locomansounds

This project has been set up with ESU software version 4.7.0.

We strongly recommend not to use any other version.

If possible, changes should be done only by using PoM (Programming on Main track) only.

Why unofficial codes?

Because these functions depend on several factors or settings.

Proper execution can not be guaranteed under all possible circumstances, so they are not part of the official description of the project.

### F2 and F3 chimes

When you listen to Youtube videos, the chime eventually seems to have a higher pitch there. This is due to the "doppler-effect" (see wikipedia) because on most videos the locomotive is approaching the microphone.

Although our recordings reflect the correct frequencies because the distance to the microphone did not vary during recording, you may still want to hear the chimes at a slightly higher pitch.

As we examined this, we found out that the subsequent pitching of the chime does not always work, but mostly. That's why we treat this as unofficial code.

First, set CV 31 = 16 and CV 32 = 1.

Now you can change the playback speed of the chimes.

For the chimes on F2 change the CVs 277 and 278, for F3 the CVs 381 and 382.

The default values are 128 for all 4 CVs.

We recommend using 144 as the value. But also the value 160 is still possible.

All values should be the same to avoid unwanted effects.

### CV4 setting

- Values above 250 will give you braking times which are longer than officially documented.

CV 4 on 255 for example will give you at least 3 minutes from full speed to zero in order to let the locomotive run out slowly. Time will be longer if throttle is not set to zero.

*With these values, proper braking can only be achieved by using F4 (F14, F24).*

### Throttle control

While at stop:

- Short opening of throttle will enable the blower if it has been off before. Will eventually cause a short drain cock hiss.

- If you inadvertently started with open drain cocks, turning the throttle wide open lets the sound end a little earlier.

### F8 load simulation

- When in coasting and F9 is off, a short double-click on F8 will bring the sound back to normal chuffs without turning the throttle.

### F9 coast mode

- When at constant speed and F8 is off, a short double-click on F9 will bring the sound to coasting without turning the throttle.

### F8 AND F9 on

- The sound will not automatically go back from loud chuffs, only if you reduce speed.
- The sound will automatically go from coast to drive as soon as a constant speed is reached.

### F10 coal shovelling

- Short double-click starts the random sound once, so you don't have to care about correct amount of coal or function end, decoder will calculate.
- If firebox door is still open for a while after shovelling when the locomotive is at stop, door can be closed earlier by short double-click.
- If you let the fireman shovel 10 (at stand) or 15 (while driving) shovels of coal into the firebox, the safety valve random sound will be activated once.

### F13 injector

- Short double-click starts the random sound once.

### F22 safety valve

- Short double-click starts the random sound once.
- Can also be started by shovelling coal, see above.