SMALL ENGLAND

F9: Guard's whistles
F18: "All aboard, please" (Welsh & English)
F19: "This train will depart in two minutes" (English)

F20: Level crossing warning signal Porthmadog

F0: Light

F15: Filling watertank

F12: Vacuum brake

F0: Whistle high
F3: Whistle short*
F4: Whistle long*
* F24 Off = Prince, On = Welsh Pony
F13: Whistle long (playable)
F14: Whistle long (playable) Welsh Pony
F22: Whistle low-high-high Welsh Pony
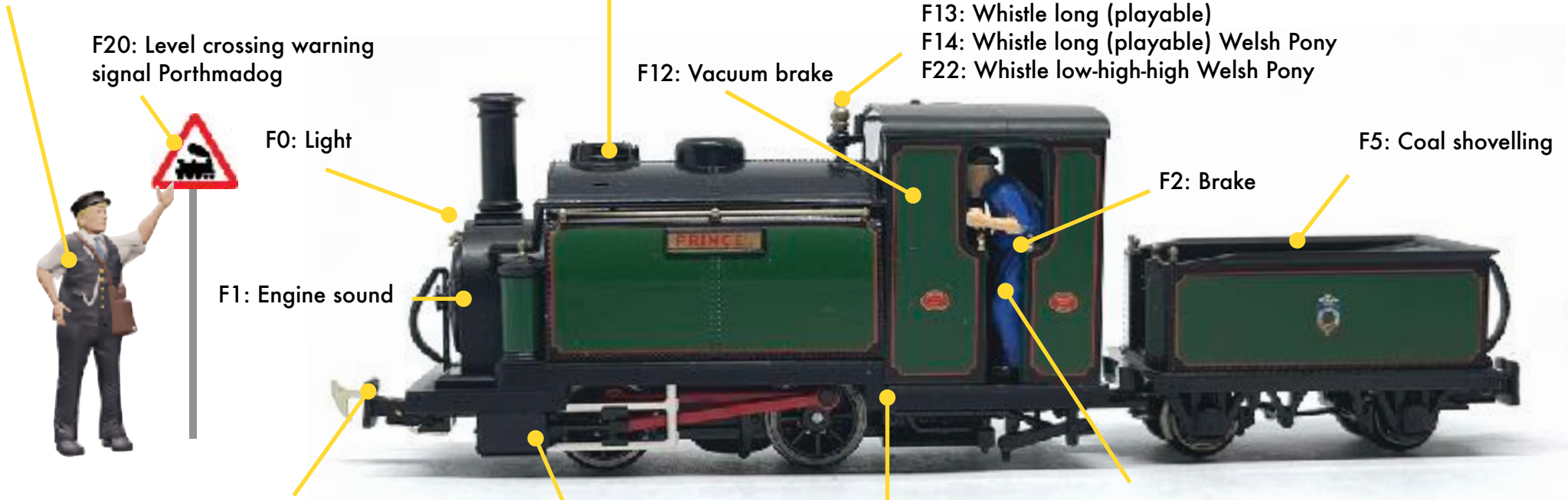
F5: Coal shovelling

F2: Brake

F1: Engine sound

F6: Coupling on/off (Only at stand still)

F8: Open drain cocks

F11: Injector

F7: Shunting speed
F21: Cleaning footplate with water

F10: Doors closing
F16: Running sound with bogie coaches
F17: Running sound with goods wagons

F26: Mute
F27: Volume down
F28: Volume up

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FUNCTION LIST

F0:   Whistle high
F1:   SOUND ON/OFF
F2:   Brake key (CV309)
F3:   Whistles (F24 off=Prince, F24 on=Welsh Pony)
F4:   Whistles (F24 off=Prince, F24 on=Welsh Pony)
F5:   Coal shovelling (Output 1 on for smokebox
      light flicker, when fitted)
F6:   Coupling
F7:   Shunting speed
F8:   Open drain cocks
F9:   Guard's whistles
F10: Door closing
F11: Injector
F12: Vacuum brake
F13: Whistle long (playable)
F14: Whistle long (playable) (Welsh Pony)
F15: Filling Watertank
F16: Rail rattle sound with bogie coaches
F17: Rail rattle sound with goods wagons
F18 "All aboard please" (Welsh)
F19: "All aboard please" (English)
F20: "This train will depart in two minutes" (English)
F21: Cleaning footplate with water
F22: Whistle low high high (Welsh Pony)
F23: -
F24: Whistle change for F3 and F4: Off=Prince
      On=Welsh Pony
F25: -
F26: Mute
F27: Vol- (CV396)
F28: Vol+ (CV397)

SOUND SLOTS

Slot	Sound
25	Cylinder
26	Whistle high
27	Braking
28	Cylinder
29	Couple-uncouple
30	Cylinder drain
31	Vacuum_pump
32	Doors_close
33	Vacuum brake
34	Cylinder hiss at start
35	Rail sound
36	Whistle double
37	Whistle hold
38	Whistle short
39	Whistle medium
40	Injector
41	Clean floor
42	Water filling
43	Coal shovelling
44	Braking
45	Goods wagons rattle
46	Couple
47	Uncouple
48	Whistle-high Welsh Pony
49	Whistle-high-long Welsh Pony
50	Guard's whistle long
51	Guard's whistle short
52	Guard's whistle double
53	Braking
54	Cleaning footplate with water
55	Brushing
56	"All aboard please" (English)
57	"This train will depart in two minutes" (English)
58	Whistle-TwoTone Welsh Pony
60	Whistle hold 1(long)
61	"All aboard" (Welsh)
63	Whistle-lowhighhigh Welsh Pony
64	Whistle-low-very long Welsh Pony
65	Door slam Bowsider

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Introduction

Installation

The sound file has to be installed on a Zimo sound decoder. You can not install it on any other brand. To upload the file, you need a Zimo programmer (MXULFA) or a black Z21. With the latter, you use the Z21 Maintenance software (Windows only or through Parallels on a Mac) and use the tab "Decoder update) to upload the file to the decoder. The time it takes depends on the size of the sound file. It can range from 15 minutes to even an hour.

CV settings brake key:
CV 4:   25   Rolling out delay (0-255)
CV 309: 2   Assign F key (1-28)
CV 349: 15   Brake time (0-255)

The functions explained

F2 Brake key

If you are new to the brake key, this could be a life changing experience for you. It was introduced by, as far as I have been able to discover, Soundtraxx in the early 2000's. Normally CV4 is set to decide how long of a roll out you have when turning the speed controller to zero. But with a brake button, CV 4 is set to imitate the train rolling out, when the brakes are not on. Now if you turn the speed controller closer to the zero postion, then the train will only come to a faster halt when you press the F2 button, which is a dedicated brake key.

Note that you can run the train again with the brake key on. This way the braking time is limited and in the train will behave as if you were used to when running trains without a brake key. This is especially handy when you hand the speed controller to someone who is not familiar with the brake key and you don't want them to run into another precious model train.

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Notes from the designer

The **sound chuff** on this sound file for Zimo decoders has been tuned for the Heljan model. You can adjust the speed of the chuffs in CV 267 if you are using this for another model. The default is 72, tuned for the Kato/Peco Small England model.

The **whistles** at F13 and F14 can be short or long, depending on how long you activate the F key.

A **Departure whistle** is available. To turn on: CV 581 > 26 (sound slot number) for high pitched whistle, 38 for low pitched whistle. To turn off, CV 581 > 0

The **Brake key** is on by default. To turn off: change CV 4 (default 25) to a lower number, like 10. If you want the roll out to be more, increase the value of CV 4 to 110, for example.

The **Coupling** (F6) has been set up so that when you are running the train and activate the button, no sound is played. Only when you come to a full stop to couple up, the coupling sound plays. Leave the button activated until you want to uncouple. The uncoupling sound is only played at a stand still.

The **Random Sounds** will appear once in a while. Follow the instructions in the Zimo manual to change their timing.
Z1: Injector
Z2: Coal shovelling and fire box glow
Z3: Clearing footplate

Because the Kato/Peco model doesn't come with working **light**, F0 has been assigned as a short whistle burst. If you want to disable the sound, set CV 570 to value 0. If you want to enable it again, assign value 26 (sound slot) again to the same CV. Or assign any other sound if you wish.

When coming to a halt, the **Vacuum brake** is activated. If you prefer to turn this off, set CV 990 to 0 (change of volume).

Any feedback or correction to the sound file or this document are welcomed at info@tramfabriek.co.uk .

Sound file design by Sven van der Hart