

MYLOCOSOUND

PREMIUM SOUND FOR LARGE SCALE, ELECTRIC TRAMS & STREETCARS

1. OVERVIEW

- Provides three selectable motor sounds which adjust to match the vehicle speed and load.
- Three selectable compressors run when stationary.
- Seven horns/whistles, four with adjustable pitch to suit the vehicle.
- Four selectable bells
- Full remote control of sounds.
- Optional brake and rail squeals

2. CONTENTS

The soundcard generates synthesised sound which is adjustable to reproduce the sounds of most electric trams and streetcars. The terminal connections on the right are necessary for the soundcard to generate electric motor sounds which vary with the vehicle speed and load. The terminal connections on the left trigger the

various sounds where the vehicle controller has the appropriate outputs available. The trigger terminals are labelled F1 to F7 and are referred to by these labels in these instructions. For example, "Triggering F1" means to close a contact between the F1 terminal and the Battery negative terminal.

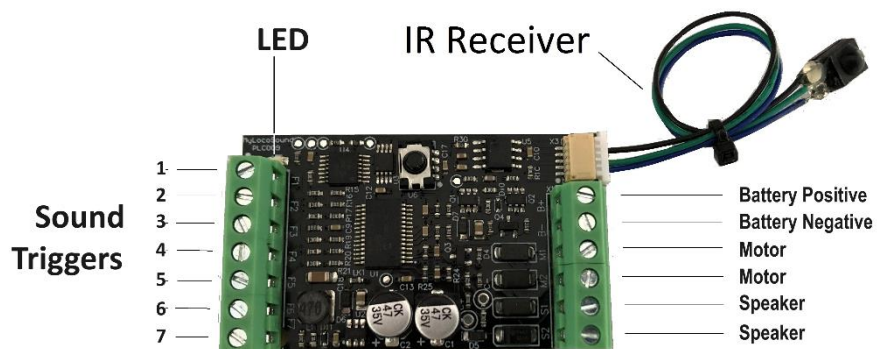
Where your controller has function buttons then you can use them as follows to trigger terminals F1-F5:

- Function F1. Sounds the bell/gong.
- Function F2. Operates the horn or air whistle.
- Function F3. Sounds "All aboard" and/ or the conductor's buzzer.
- Function F4. Sounds an airbrake release.
- Function F5. Rail squeal.

When the vehicle is running, the engine sounds should operate automatically, getting louder when accelerating and softer when slowing down or idle.

Sounds can also be triggered by a Sony infra-red TV remote control which can be purchased locally. Low cost, universal, TV remote controls are available from most consumer electronics stores and need to be set to Sony coding to work with the soundcard. Although it can be used when running in the garden, the remote control is intended mainly for the adjustment and testing of sounds.

The remote control communicates with the soundcard via two infra-red receivers. One is located on the soundcard and the other is on a flying lead which allows it to be fixed to any external surface of the vehicle. Adjustments to the sounds can then be made without taking the vehicle apart to access the soundcard.



3. CONFIGURING THE SOUND CARD

The soundcard has two modes:

1. **Setting mode** in which you can select the sounds you want and can adjust them.
2. **Run mode** in which the soundcard does its job on your railway.

All settings are done using the remote control and we will cover that first. So place the soundcard into Setting mode by pointing the remote control at the soundcard or the receiver on the end of the flying lead and press the **Mute** button. The LED on the soundcard will blink slowly and all sounds will cease.

Press one of the keys on the remote control to change the sounds listed below. When you press a button, the LED will start blinking faster. At any time, you can press the **Mute** button and then the button you are changing to hear the sound you have selected and then press **Mute** again to turn it off. The options are:

Power Button – Battery or Track Power. The soundcard can be used with battery powered, radio controlled locomotives or with locomotives which are powered from the track (but not DCC). Press this button to change from one to the other:

- 1 beep – Battery powered radio control. **(Default)**
- 2 beeps – Track power with a 9 volt rechargeable battery to maintain sound at low track voltage. In this case, the soundcard will automatically turn itself off when the locomotive has not moved for sixty seconds. Turning the track power up a little will turn the soundcard back on. The soundcard will automatically recharge the battery when the track voltage exceeds 10v.
- 3 beeps – Track power with a 7.2 volt rechargeable battery. As above except that the battery will recharge when the track voltage exceeds 8.2v and therefore at a lower speed.

Button 0 – Country. This is used to select the part of the world which your locomotive comes from. Your choice here will determine the default sounds which can then be changed. When you press the 0 button, one or more beeps will be heard to indicate the country currently selected as follows:

- 1 beep – Britain
- 2 beeps – North America
- 3 beeps – Australasia

Button 1 – Bell/Gong. This is used to select the type of bell from the list below.

- 1 beep - Bell with a high note. **(British and Australian default)**
 - 2 beeps - Bell with a medium note.
 - 3 beeps - Bell with a low note **(US default)**
 - 4 beeps – Modern electric bell
- All four bells ring once each time the button is pressed.

Button 2 – Horn or Air Whistle. This is used to select the style of horn which suits your vehicle. Every horn, except the Klaxon, has an adjustable pitch and volume. Each time you press the 2 button the number of beeps will increase to indicate that the horn listed below has been selected. If you wish to hear that horn, press the Mute button on the remote control and then button 2 to start the horn and then again to stop it. While the horn is sounding, you can use the channel up/down buttons to vary the pitch on horns 1 to 5 and also the volume buttons on all horns. The pre-selected horns available are:

1 beep – British Crich Tramway air whistle A. **(British default)**.

2 beeps – British Crich Tramway air whistle B.

3 beeps – American Peter Witt streetcar horn **(US default)**

4 beeps – British Manchester Metrolink horn

5 beeps – Sydney tram whistle **(Australian default)**

6 beeps – GE air horn.

7 beeps -- Klaxon horn

Button 3 – Conductor. This is used to select the conductor's sounds from the list below.

1 beep – Sounds a buzzer. **(British and US Default)**

2 beeps – Sounds "All aboard"

3 beeps – Sounds "All aboard" and then a double buzzer. **(Australasian Default)**

Button 4 – Brakes. This gives you three braking options:

1 beep – No braking sounds required. **(British and Australian default)**

2 beeps – Automatic brake squeal whenever the locomotive comes to a halt.

3 beeps – Automatic airbrake release when moving off

4 beeps – Automatic brake squeal whenever the locomotive comes to a halt plus automatic airbrake release when moving off. **(US Default)**

Button 5 – Rail Squeal Operation. This gives you 3 options which occur only when the vehicle is in motion:

1 beep – Rail squeal sounds only when function 5 is selected.

2 beeps – Automatic rail squeals every 30 seconds and when function 5 is selected.

3 beeps – Automatic rail squeals every 10 seconds and when function 5 is selected.

4 beeps – Automatic rail squeals every 3 seconds and when function 5 is selected. **(Default)**

Button 6 – Rail Squeal Sound

1 beep – Rail squeal 1.

2 beeps – Rail squeal 2.

3 beeps – Rail squeal 3.

4 beeps – Randomly selected rail squeals **(Default)**

Button 7 – Air compressor

1 beep – There is no compressor sound when the loco is stationary.

2 beeps – Automatic. A British Southern Electric compressor will automatically run when the loco is stationary.

3 beeps – Automatic. A British Metropolitan Vickers compressor will automatically run when the loco is stationary. **(British and Australian default)**

4 beeps – Automatic. A Birney compressor will run when the vehicle is stationary. **(US default)**

Button 8 – Motor Type. There are three alternative motor sounds:

1 beep – Motor 1

2 beeps – Motor 2 **(Default)**

3 beeps – Motor 3

It is important to tell the soundcard when your vehicle starts moving and hence when to start revving up. Do this by slowly increasing the throttle until the vehicle is just about to start to move. Then press the power button on the remote control. This tells the soundcard the voltage at move off.

Button 9 – The Operating Mode. There are three operating modes available:

- 1 beep – Indicates manual mode. In this mode all sounds are triggered according to the above settings.
- 2 beeps – Indicate simple automatic mode. This is designed for controllers which have no function buttons, as is often the case with track power, or at exhibitions, etc. where you don't want to operate manually. The bell/gong will sound once automatically when the vehicle moves off and then once more three times a minute when the vehicle is on motion. A reed switch can be placed under the vehicle and be connected to the F1 terminal to make the bell/gong sound when the vehicle passes over a magnet. Another reed switch, connected to the F2 terminal, can be used to trigger the horn which will turn on when crossing a magnet and then off at the next magnet. **(Default)**

You can change these settings whenever you wish and those changes will be effective immediately.

Holding down the 0 button for three seconds will cause the soundcard to beep five times and reset itself back to its factory defaults. It will not change the country setting.

For more information, please visit the web site at www.mylocosound.com or e-mail sales@mylocosound.com.

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Remote Control	Radio Control	Defaults shown in grey	
Power		Set Start Voltage for Rev Up	
VOL up/down		Change Volume of active sound	
CH up/down		Change Sound	Horn Tone when horn sounding
			Motor tone when moving
Mute		Sound on/off	
Button 1	F1	Warning bell	
Button 2	F2	Horns and whistles	
Button 3	F3	All Aboard or Guard's buzzer	
Button 4	F4	Brake release/squeal	
Button 5	F5	Rail squeal	
Button 6	F6		
Button 7		Compressor Type	
		1 beep	No compressor
		2 beeps	British Southern Electric compressor
		3 beeps	Metro Vick compressor
		4 beeps	Birney compressor
Button 8		Engine Sound	
		1 beep	Motor 1
		2 beeps	Motor 2
		3 beeps	Motor 3
Button 9		Control Mode	
		1 beep	Manual
		2 beeps	Auto horn every 20 secs
	F7	Not used	
Button 0 Held For more than 5 seconds		Reset above settings to defaults	