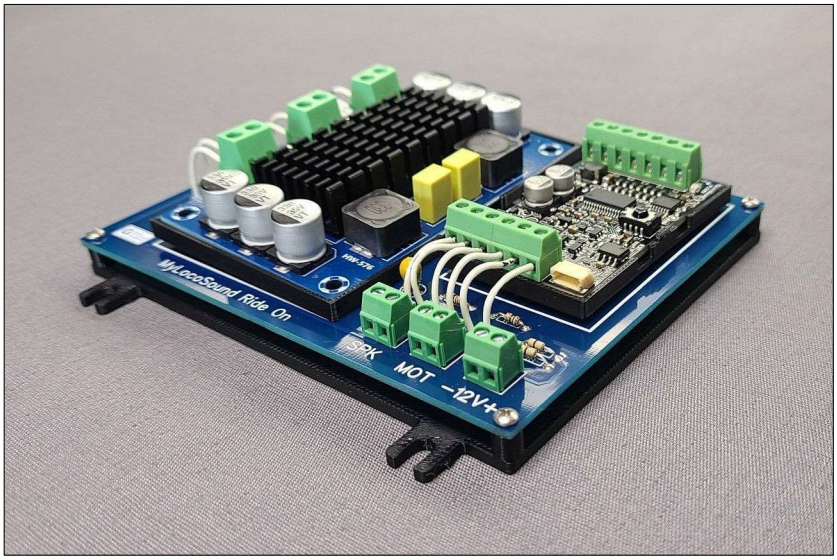
MyLocoSound for Ride-On Locos

Operation and Installation Manual



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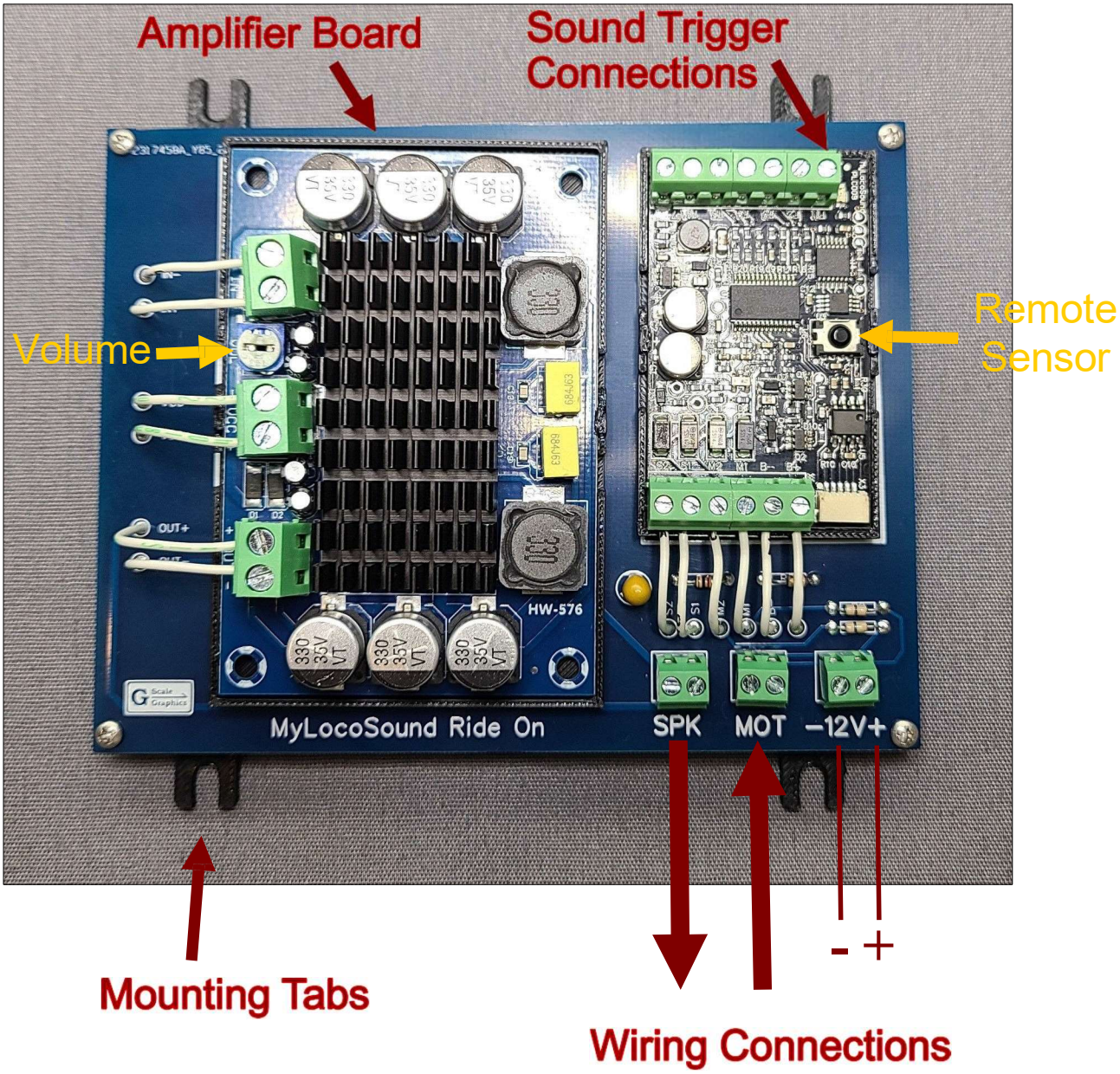

Installation

Wiring

–12V+ terminals: 12VDC (12-24Vmax)
Note: 24V battery charging gets up to 28V which can cause damage.

MOT terminals: Motor voltage to detect speed. 0 to max voltage of 12V, 24V, 36V, or 48V. Please specify. SPK terminals: 4 ohm 40W or 8 ohm 20W speaker. See chart on next page.

Individual sounds from the MyLocoSound board can be triggered using momentary switches connected between the F1-F7 terminals of your choice, and terminal 12V-.

The amplifier and MyLocoSound boards are clipped into a backing plate. If needed, they can be removed using a screwdriver in the slots provided to gently pry them out.

Overview

MyLocoSound modules have a maximum audio power output of 3W, which is suitable for G-Scale garden railroads, but larger scale, outdoor ride-on locomotives, require an audio amplifier and much larger speaker to boost the audio output.

The MLS Ride-On consists of a MyLocoSound module and a “40W” (see specs below) audio amplifier on a compact mounting plate suitable for installation in a ride-on loco; just add speakers. This eliminates the purchase and wiring of interface circuitry to a 3rd party audio amplifier.

The remote is intended to be used with the IR sensor on the circuit board. The unit is shipped with an external IR sensor with very short leads with are not practical for a ride-on loco. They can be extended by the user is desired. We don’t provide extensions.

Operation

Overall volume of the amplifier is set using a small potentiometer on the amplifier circuit board. Fine tune volumes of individual sounds using the MyLocoSound remote aimed at the sensor on the MyLocoSound circuit board. You should find that once the volumes are set as desired, there is no need for the remote, unless you want to change the configurations of sounds.

Sound the horn and bell as desired using momentary switches on the dashboard of the loco connected to the sound trigger terminals of the MyLocoSound board.

For detailed information, refer to the instructions for your specific sound card at https://www.gscalegraphics.net/manuals

MyLocoSound Ride-On Specifications

Mechanical
Physical Size: 4.8” X 4.5” X 1.1”H with bulkhead mounting tabs.

Wiring: Screw clamp terminal strips accept individual wires, 22 to 18 AWG. (22 or 20 AWG recommended)

Electrical
Power Input on terminals (–12V+) from batteries or an external DC Power Supply: 12-24 max VDC.
Note: 24V battery charging gets up to 28V which can cause damage.

Audio Amplifier: TPA3116DA, Mono. Voltage input and speaker impendence determines max audio power output.

12 Vin	**8 ohms**	**20W**
21 Vin	8 ohms	70W
12 Vin	**4 ohms**	**40W**
21 Vin	4 ohms	100W

Speaker Output
4 or 8 ohms. Total of 4 ohms minimum for any combination of speakers.

Motor Input voltage (for speed detection)
12, 24, 36, or 48V, specified when ordering.

MyLocoSound board: Your choice of Diesel, Light Diesel, Rail Car, etc.