



WallboxPlayer Install – Seeburg SC1 Consolette (AMP)

www.wallboxplayer.com

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This WallboxPlayer is a device that turns your wallbox into a music player. This manual provides basic instructions on how to install and operate the WallboxPlayer.

1 General Description

The WallboxPlayer supports a range of pulse-controlled jukeboxes. Tuning and customization is possible.

Power to the player is provided from the wallbox, reducing the need for an extra power supply. Music is stored on a microSD card and can be filled matching the wallbox titles.

The WallboxPlayer board has connectors for connections to wallbox and speakers. The on-board MP3 player accepts a user-filled microSD card. It has a jack plug for headphones or external audio. The board has a second data microSD slot for supporting functions. There are buttons for HW reset on the microprocessor and 'Select' to do the setup, cancel, or add a play. LEDs indicate pulses coming in. Optionally, the board features header connectors for an external 16x2 I2C LCD display. All settings are done in the setup through software and stored. It has one trimmer to tune the sensitivity/speed of the incoming pulse signal. Stand-alone, the board is powered through the external 24VAC and converts this to 5V through the on-board voltage converter. The board is 7.5 cm x 9 cm and can be mounted in a wallbox, or outside in a separate housing.

The 24VAC power from the wallbox is used, either through the jukebox or a separate widely available 24VAC (48VA; 2A, AC output!) transformer.

The MP3 SD card slot can be found on the top left under the MP3 player. The contacts should be on your side and visible before inserting. The MP3 files are stored on a micro-SD card. Ensure the card is clicked in. The microSD card MUST be formatted as FAT32 (max 16GB). The number of (.MP3/.WAV) files can be as many as the wallbox can select, with some extra music files that will be played in AutoPlay mode. Music files can be saved in the root, numbered in an /MP3/ folder, or in an Album-mode. See the manual for details on how to best put your music files onto the music SD card.

Speaker output is via the (optional) onboard amplifier, two speakers (max 2*3W) can be connected. These speakers can be within the wallbox or external. Use cables as short as possible and high impedance (8-24 ohm) small speakers. The speaker output is via the connector labeled SpL+ SpL-, SpR+ and SpR-. Note the difference between wiring two separate speakers or a 3-lead consolette (see further below in this doc)!

LEDs onboard are used to display status:

- ExtVcc [green] Lights when an external 24V is connected (converted to 5V), supplying the board.
- InP [yellow] – lights up when a wallbox pulse is detected.
- Cntrl [blue] – indicates enabling 'make selection' lightbulb.
- Ready [green] – shows that system is listening/ready to accept inputs (from wallbox or app).



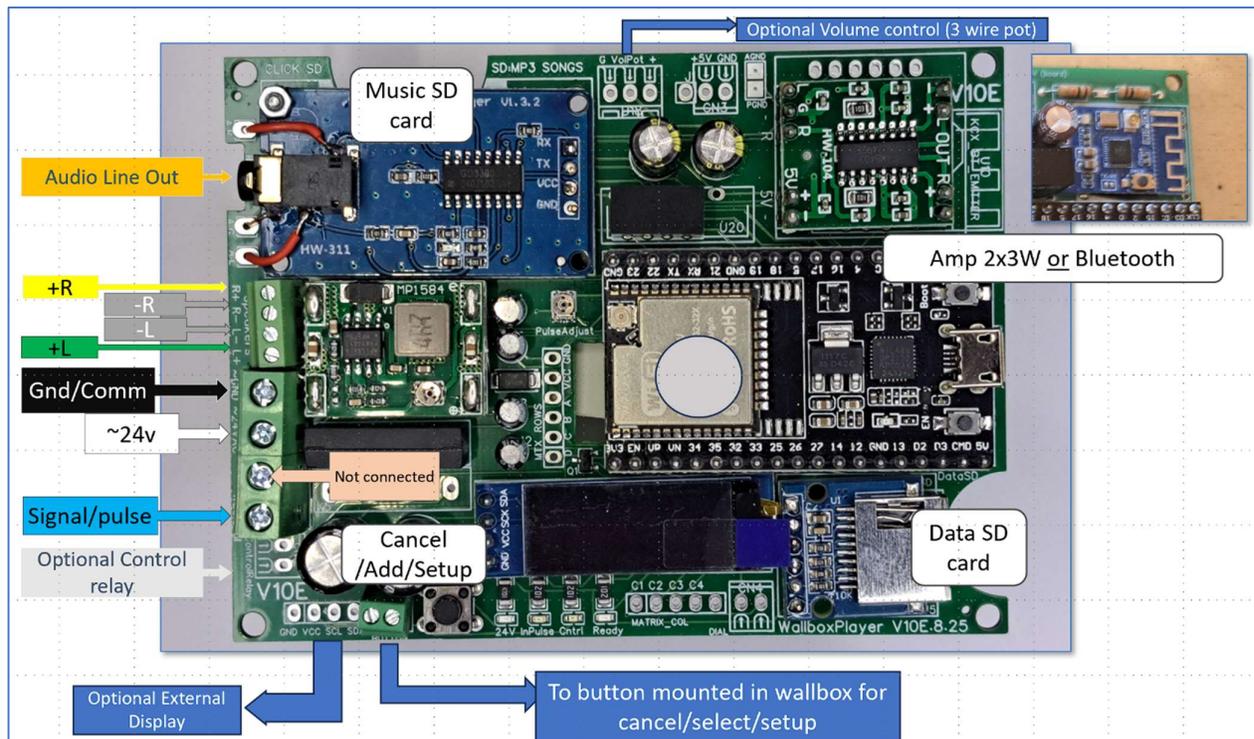


The MP3 player mounted on the board has a red light that lights when the player is ready and blinks when playing a song. The microprocessor mounted on the board has an onboard red light that is on when the system is ready.

Adjustments are not required. In case of issues the (blue or small smd, depending on board version) potentiometer can be used to tune the sensitivity of the input pulse from the wallbox, detected by the system. It allows for either slower turning motors or 60Hz to work properly.

2 WallboxPlayer Connections

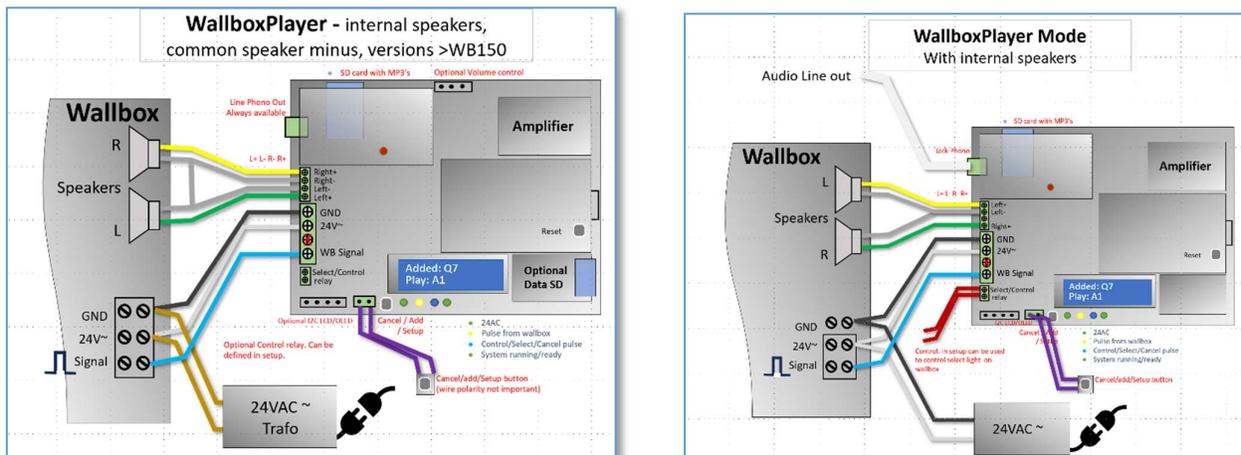
Connectors on the WallboxPlayer board:





Overview of wiring to wallbox – (amplifier and/or jack):

There are two ways to connect speakers, depending on WB reference number. If reference number is smaller than WB150, use the right diagram with the common speaker connection to L-. For WB >150, use both L- and R- to connect to common speaker minus.



After connections have been made, powering up should show screen startup messages with release version, and wallbox type (including number of selections), number of MP3 files on card. After a few seconds, the system will show the green status light and be available for selections and will display "Select song". When during startup, the MP3 files cannot be read, the status LED will blink twice, and the red MP3 player LED will not be on.

The onboard 'select' button to perform setup serves two functions, its primary function is to cancel the currently playing song or add a song when nothing is playing. The secondary function of this button is used within the setup menu which follows. The setup menu is accessed by pressing the 'select' button for 5 seconds. After the instruction, which will be displayed for a few seconds, subsequent settings will be shown to be modified. Pressing the button will change the value of the item, waiting will show the next configuration item.

3 Installation

Seeburg Consolette:

Easiest is replacing the coin unit and using the black coin unit housing (remove pins that are not needed). If you are not using the special housing, ensure there is isolation or below the unit.

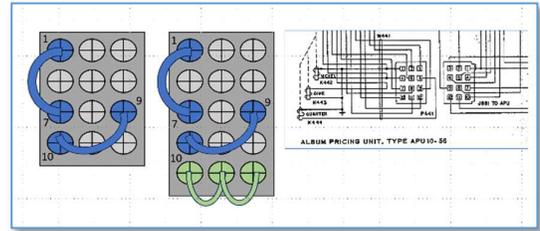
3.1 Mounting the board and making connections

- Remove coin unit and remove any old grey 10-wire cables that may have been cut.

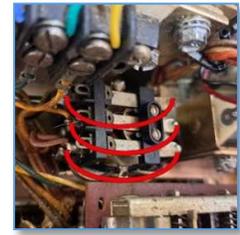




- To enable Freeplay, remove the credit unit (move the rotor and remove two screws, pull out plug and unit.
- Then make connections to enable Freeplay (the relevant plug has 3*4 (SC1) or 3*5 contacts. For the SCH1 (newer) plug has 3*5 contacts and has no relay under the loudness buttons, the lower 3 should be shorted to enable speakers.



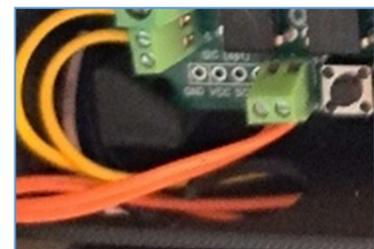
- Some consolettes have a relay (behind the loud buttons) to enable the speakers, in cases where the relay is not activated, the relay contacts must be bridged or otherwise no sound will be heard. Make connections bridging the relay.



- Mount the select/cancel/setup button in a (drilled) hole on the back or bottom.
- Connect the two power wires (BLK and WHT) and the signal lead (BLU) from wallbox to WallboxPlayer (large middle screw connector, only 3 of 4p will be used)
- Connect the speaker wallbox leads (YEL, GRY, GRN) to the wallbox speakers (top small 4p screw connector) – for internal consolette speakers see connection note in this document.



- Connect the select/cancel/setup button (on the board next to the button) – middle in picture. This button will allow cancel and adding random songs.
- Optionally, if the select lightbulb is to be enabled, cut one of the leads and prepare to connect to the relay. Connect the relay to enable the Wallbox “Make selection” lightbulb (bottom 2p small screw connector) top-left in picture. The optional control relay can be used to enable the lamp that lights up to select a song once the player is ready.

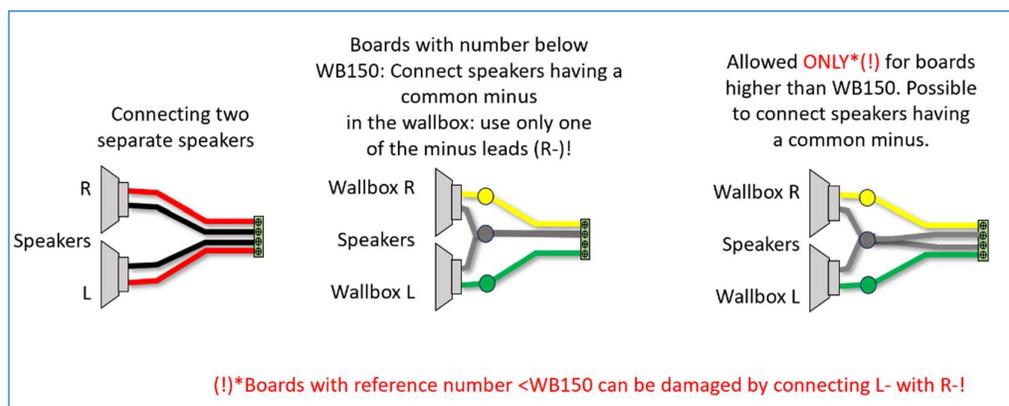




- Connect the three wires to the wallbox (black = ground; white = ~24V; signal' = wallbox signal, normally blue inside the box). Use the onboard optional amplifier to drive speakers (or plug an audio device into the jack plug). The wallbox needs to be powered by 24V on the black and white connector slugs. An optional I2C display (LCD or OLED) can be connected.

3.2 Note on connecting the speakers

Important: Connecting the speakers in a wallbox depends on the WB serial number, see below.



Important: Connecting one or more of the four leads to chassis ground -or- connecting subwoofers to the speaker outputs of the wallbox can cause irreparable damage to the board and amplifier.

3.3 Connecting the 24VAC transformer, powering up and test

- Connect the 24VAC (2A) transformer to connector BLK (=gnd) and WHT (the first two screws from the left) on top of leads already in place.
- After powering up, the WallboxPlayer will also power up, and the display will show relevant information on status and number of songs. After starting up, "Select song" will show.
- Press the "Select/Cancel/Setup button on the board to test if song will start. Press again to cancel.
- Make selection on the Wallbox with the buttons A-V, 1-8. If blue lead is correctly connected, the yellow lamp flashes during rotor movement. Song will start and number played will be shown.

3.4 Pairing optional Bluetooth (N/A for consolette)

- When paired and connected, the red BT board LED blinks twice at ~5 sec interval.
- When idle and unpaired the red LED flashes slowly (~1sec interval)
- Short-Press the button for unpairing.
- To pair with a Bluetooth device, ensure it is not paired (with other device), put the Bluetooth speaker in pairing mode and press (2sec) the pair button, the red LED will blink slowly (at ~2sec interval) and start pairing.
- For more information look at the KCX BT module documentation.





3.5 Setup

The **setup menu** allows you to configure the following settings:

- **Tools:** This menu choice will allow system updates, reset values, restart and a measure/listen utility mode. “RESTART” will restart the device. Note that the MP3 player will keep playing until early in the startup process. Selecting “DEFAULTS” will set values of settings back to factory defaults. Choices: NO, RESTART, DEFAULTS, UPDATEMODE, LISTEN.
- **Wallbox In:** This will configure what input signal is detected by the board, the type of wallbox the board is connected to. Compatible choices: NONE, MP3, Sb_3W1, Sb_3W100, Sb_3W160, Sb_3WA, Sb_SC1, Sb_DEC, Ami_W40, Ami_W80, Ami_W120, Ami_W200, Roc_1544, Roc_1555, Roc_1558, Wur_5207, Wur_5210, Wur_5220, Wur_5225, Wur_5250, and others...
- **Jukebox Out:** for WallboxPlayer mode and audio output, this must be MP3. For other selections, it will send out a pulse to a connected jukebox.
- **Volume:** This will determine the output volume of the MP3 player (jack output and speakers). It can be adjusted from 0 to 24. Choices: 0...24. “22” is a good setting.
- **Equalizer:** This will select one of the available equalizers (jack output and speakers). Choices: FLAT, POP, ROCK, CLASSIC, BASS and BOOST options (extra 20%).
- **AutoPlay_number:** If selecting this number with the buttons, (1=A1 etc.) select autoplay and play random songs until selected again. (0, 1 ... 159, 160, (default is “0”, off)
- **Control_mode:** This determines the function of the additional on-board relay: NONE, JBCANCEL, WBCOIN, WBCREDIT, SELECT, ON-OFF (default is ON-OFF). The “Select mode” can be used to enable the “Make selection” lightbulb in the wallbox.
- **AutoPlay_startup:** This value sets the time in seconds until a random song is added to the queue. Selecting “0” will disable this function. Setting it to “60” will add song after one idle minute. Choices: 0, 15, 60, 300, 3600.

4 OPERATION:

- See the WallboxPlayer operation manual for how to select songs, fill the SD card and perform setup changes.

Troubleshooting

If for a consolette, the number selected by the MP3 player is higher than selected with the buttons, not enough pulses are received. Check if the rotor contacts are clean. You can try to adjust the blue potentiometer on the board and turn more to the left or right, but this should not be needed.

Please contact me in case of questions or inquiries or items not described here.

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Joopheuvel on Jukebox Addicts Board