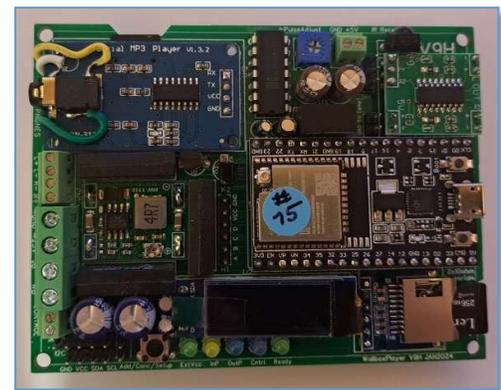# WallboxPlayer Install - Rock-ola 507

www.wallboxplayer.com

Feb 2026

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

1   General Description

The WallboxPlayer supports a range of pulse-controlled jukeboxes. 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 on-board player accepts a user-filled microSD card. It has a jack plug for headphones or external audio. The board has an optional 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 or going out and an optional credit pulse being made. The board features header connectors for an external 16x2 I2C LCD display. All settings are done in the setup through software and stored. The board has one trimmer to tune the sensitivity/speed of the incoming pulse signal. 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 popular wallboxes, or outside in separate housing.

The 24VAC power from the wallbox is used, either through widely available 24VAC/AC, alternating current output, (48VA; 2A) transformer or adapter.

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", at least 8ohm) can be connected using short cables. These speakers can be within the wallbox or external. The speaker output is via the connector labeled SpL+ SpL-, SpR+ and SpR-. Note the difference between wiring two separate speakers or a 3-wire speaker connection (see further below in this document).

LEDs onboard are used to display status:
- ExtVcc24V   [green] Lights when external 24V is connected (converted to 5V), supplying the board.
- InP   [yellow] – lights up when a wallbox pulse is detected.
- Cntrl   [blue] – indicates second relay on/off.
- Ready   [green] – shows that system is listening/ready to accept inputs (from wallbox or app).
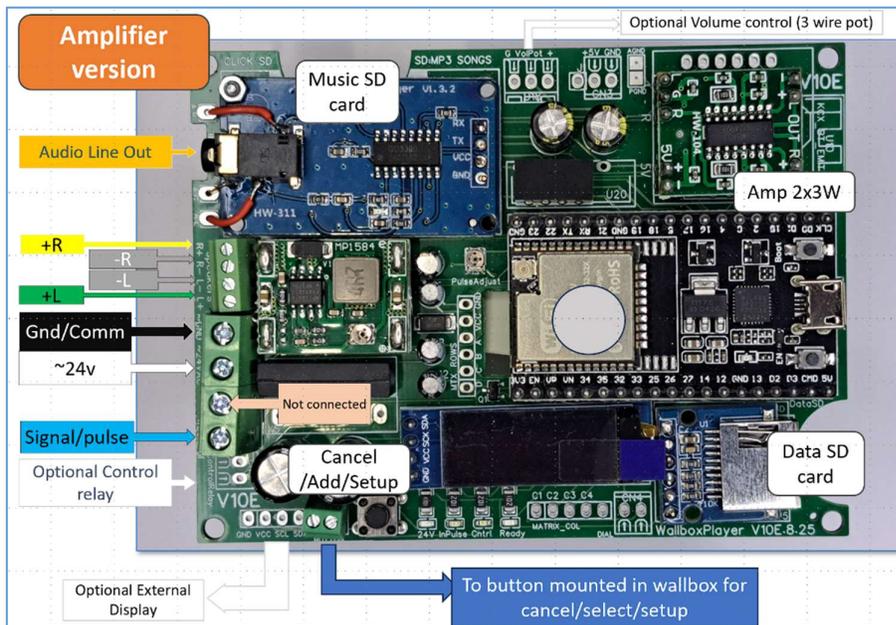
The music player mounted on the board has a red light that lights when the player is ready and blinks when playing a song.

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.
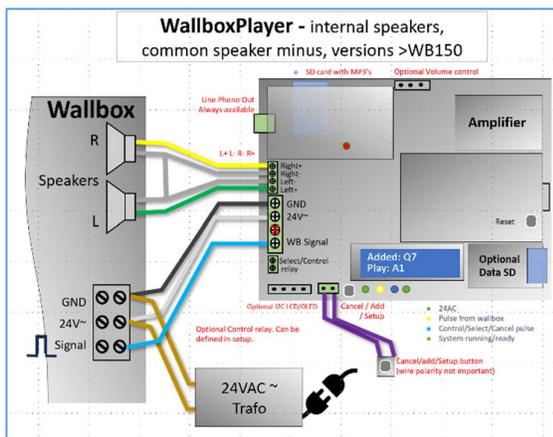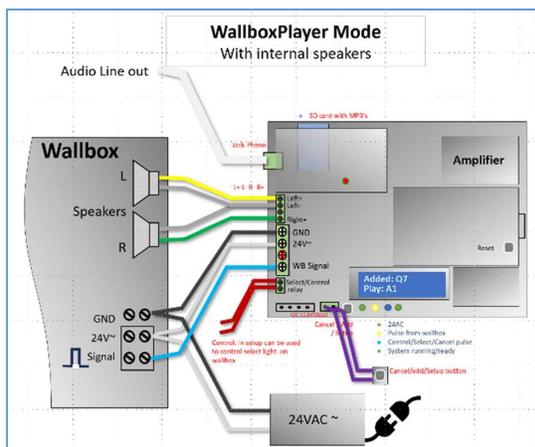
2   Board and connections:

Connectors on the WallboxPlayer board:

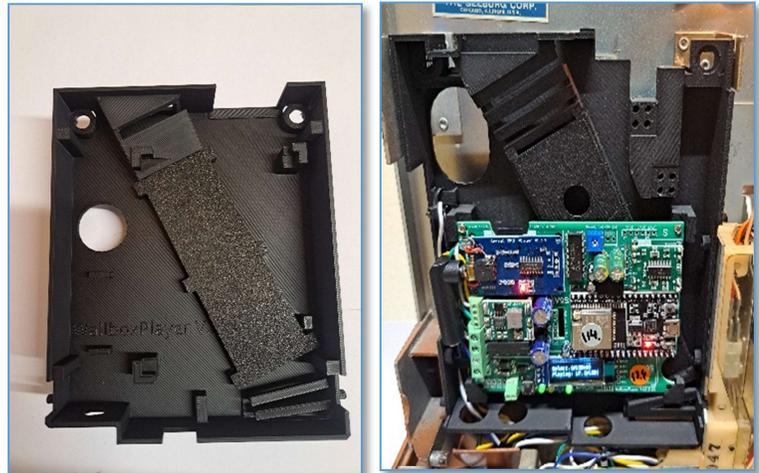**Overview of wiring to wallbox -** Make connections

depending on configuration/version (common minus, versions WB<150 or WB>150) :

3   Installation and setup:

The universal coin unit replacement housing can be used to mount the board (fits most wallboxes). Remove any pins that are not needed. With care, the output of the coin slide can be tilted to front or back to hit the right flipper.
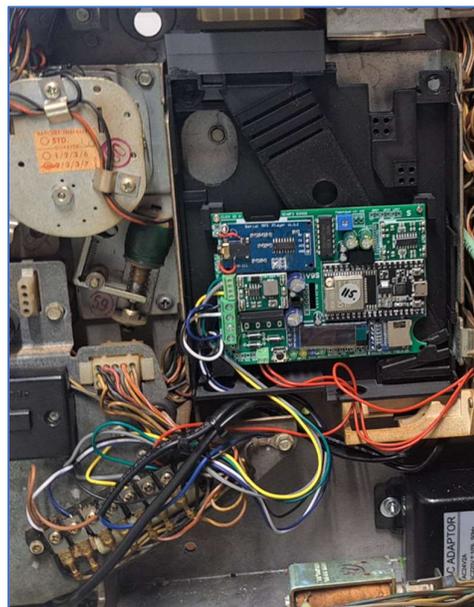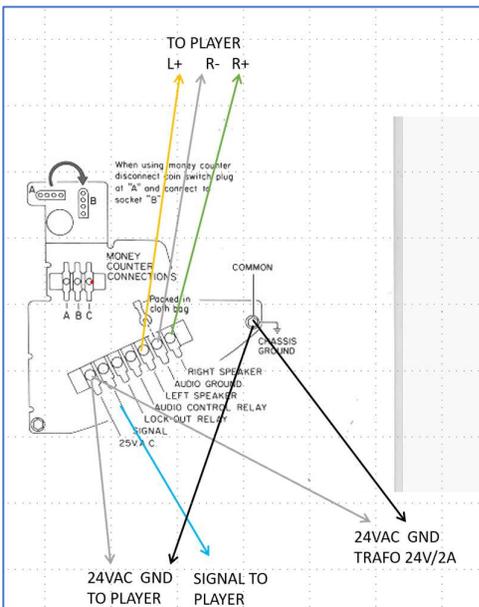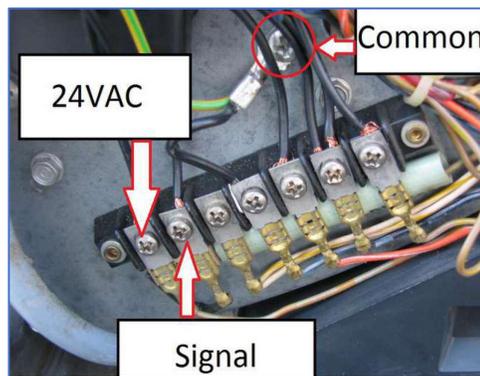

3.1 ROCK-OLA

Rock-Ola 507(160):
Cut red wire to subtract solenoid for freeplay (see left picture)
Make connections to 24V to test / connect the wallbox as indicated (see right picture). Note Common = GND.
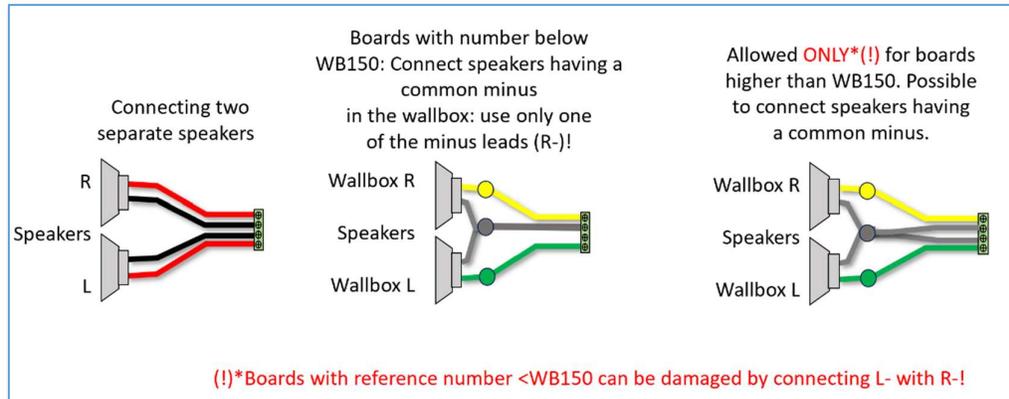
Connections to WallboxPlayer

- 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) – see the picture above.
- Connect the select/cancel/setup button (on the board next to the button) – right in picture. This button will allow cancel and adding random songs.
- Connect the three (or 4) speaker wallbox leads (YEL, GRY (one or two), GRN) to the wallbox speakers (top small 4p screw connector) on one side and to the terminal strip (see picture above).

Important: Connecting the speakers in a wallbox (or a set of two speakers) depends on WB version.

3.2   Connecting the 24V AC/AC transformer and powering up

- If not done, connect the 24VAC/AC (2A) transformer to the Wallbox.
- After powering up, the WallboxPlayer will also power up, and the display will show relevant information on status and number of songs and is ready to select a song.
- 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. If blue wire is correctly connected, the yellow lamp will flash during rotor movement. Song will start and number played will be shown.

After connections have been made, powering up should show screen startup messages and number of music files on card. After a few seconds, the system will show the green status light and be available for selections and will display it is ready to select a song. If the control relay is set up to enable the lightbulb, the blue led will also be on. When during startup, the music (MP3/WAV) files cannot be read, the status LED will blink twice, and the red music-player LED will not be on.

3.3   Volume control

- You can use the volume high low button on the Wallbox to control the output volume. If the difference between these two is to be changed, use other resistors in the audio control-circuit.
- Use the volume control in the setup menu to change the general volume.

3.4   Pairing Bluetooth (optional)

- When paired and connected, the red Bluetooth 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) and 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 onboard 'select' button perform setup serves two functions, its primary function with a short press, is to CANCEL the currently playing song or ADD a song when nothing is playing. For the latest releases, a long press (~2 seconds) will START and STOP **AutoPlay**. 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 at least 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.

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 music 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, CLEARFAV, 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, Seeburg_DEC, Seeb_DEC-direct, Ami_W40, Ami_W80, Ami_W120, Ami_W200, Roc_1544, Roc_1555, Roc_1558, **Rock_507**, Wur_5207, Wur_5210, Wur_5220, Wur_5225, Wur_5250, … and more
- **Jukebox_Out or Player_out:** for WallboxPlayer mode and audio output, this must be MP3. For other selections, it will send out a pulse to a connected jukebox. If output is Spotify, and settings are correctly entered in the config, songs will be played on the linked Spotify account/device.
- **AutoPlay:** 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 minute of idle time. Choices: 0, 15, 60, 300, 3600.
- **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). Suggested is "20-24".
- **Equalizer**: This will select one of the available equalizers (jack output and speakers). Choices: FLAT, POP, ROCK, CLASSIC, BASS. Suggested are Pop or Bass. Newer releases have boost-variations (+20%).
- **AutoPlay_number**: Selecting this number with the buttons, (1=A1, 160=V8), will select autoplay and play random songs until selected again. (0, 1 … 159, 160, 200 (default is 0). Suggested number 1.
- **Control_mode (option)**: 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. WBCOIN is to generate a coin drop with the relay after a selection is made.

4 OPERATION:

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

Troubleshooting

If the number selected by the MP3 player is lower 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.

www.wallboxplayer.com
jhmheuvel1@gmail.com and Joopheuvel on Jukebox Addicts Board

Extra example pictures of Rock-Ola 507 installation: