WallboxPlayer Install – Phone

www.wallboxplayer.com

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This WallboxPlayer is a device that turns your wallbox or phones into a music player. This manual provides basic instructions on how to install the WallboxPlayer. In case you have any questions, contact me anytime.

1   General Description

The WallboxPlayer supports a range of pulse-controlled wallboxes and can be used for phones.. Power to the player is provided by 5V from an adapter. Music is stored on a microSD card and can be filled matching the wallbox titles.

The WallboxPlayer board has an on-board MP3 player that 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 labels, settings and Wi-Fi. There are buttons for HW reset on the microprocessor and 'Select' to do the setup, cancel or add a play. 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 is 7.5 cm x 9 cm and can be mounted in wallboxes, phones, or outside in a separate housing.

The 5VDC power is to be supplied through the header connector.

NOTE POLARITY. Do not use fast-charge phone adapters (thew switch to 7.5V and higher). Regular simple 5V adapters are to be used.

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. The speaker output is via the connector labeled SpL+ SpL-, SpR+ and SpR-.

LEDs onboard are used to display status:
- InP   [yellow] – lights up when a pulse is detected
- Ready   [green] – shows that system is listening/ready to accept inputs

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.
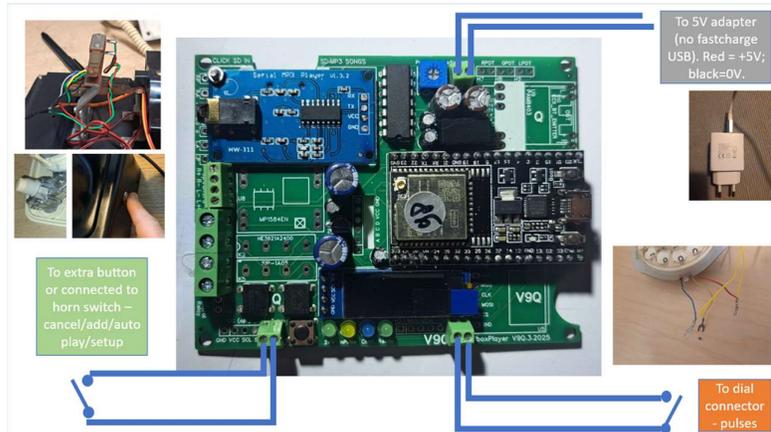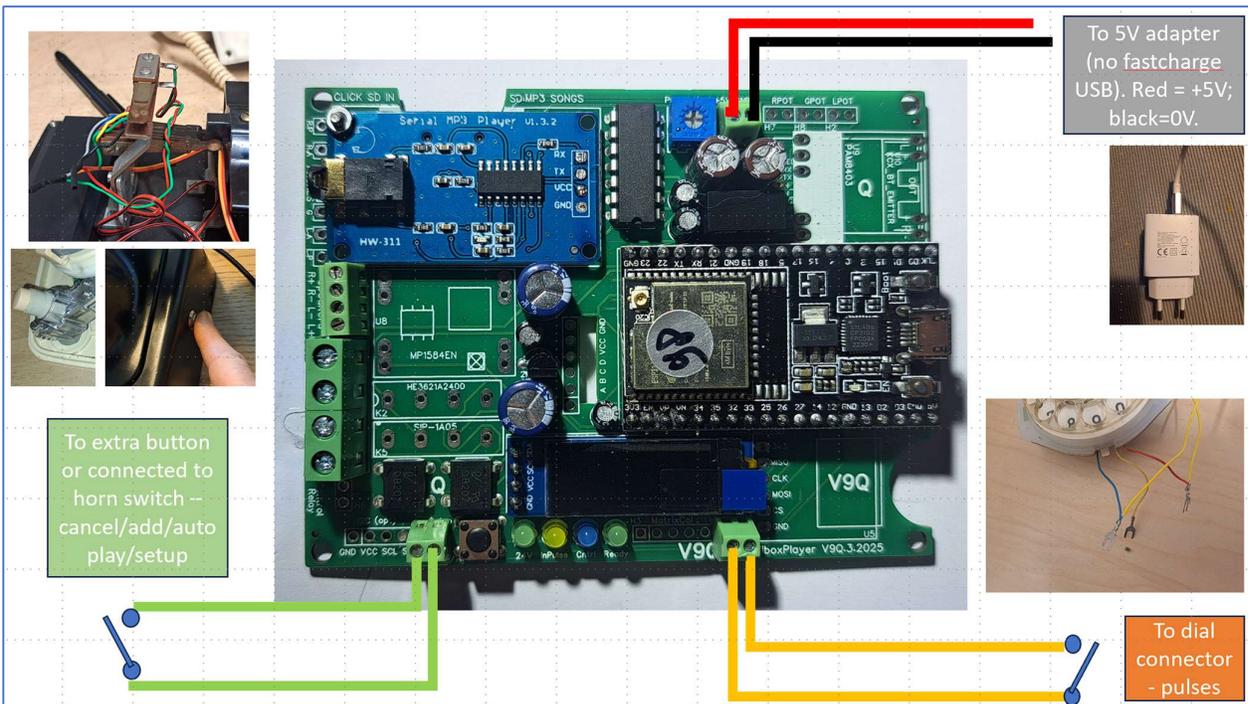
2   Installation

As a WallboxPlayer, connected to a phone, make connections to the board as shown.

After connections have been made, powering up should show screen startup messages with release version, jukebox and wallbox type (including number of selections), operating mode and 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.

Overview of wiring to phone:

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.

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. 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, Sb_DEC-direct, Ami_W40, Ami_W80, Ami_W120, Ami_W200, Roc_1544, Roc_1555, Roc_1558, Wur_5207, Wur_5210, Wur_5220, Wur_5225, Wur_5250, Dial1, Dial2, Dial3, ….

Jukebox Out: for WallboxPlayer mode and audio output, this must be MP3. Other selections will not have any audio output.

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.

Equalizer: This will select one of the available equalizers (jack output and speakers). Choices: FLAT, POP, ROCK, CLASSIC, BASS. Suggested are Pop or Bass.

AutoPlay_number: If selecting this number, autoplay is started and play random songs until selected again. Suggested is the 000 or 9, 99 or 999.

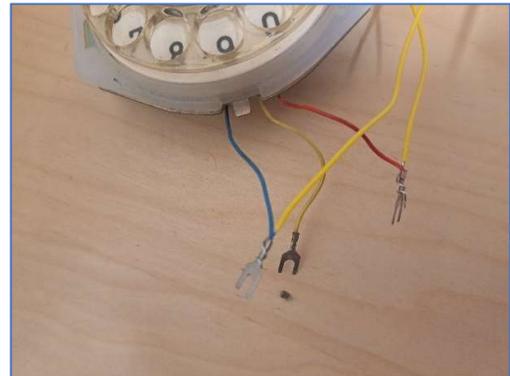**AutoPlay_startup:** This value sets the time in seconds until a random song is added to the queue. Selecting 0 will disable this function. Setting it to 60 will add song after one minute of idle time. Choices: 0, 15, 60, 300, 3600.
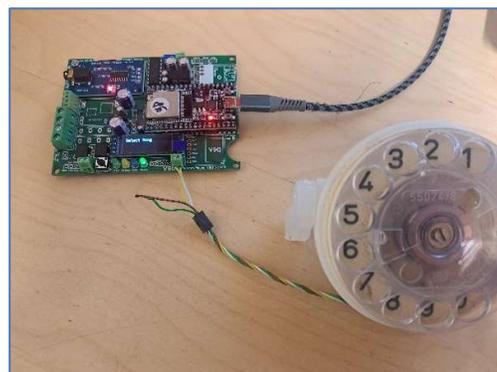
3   INSTALLATION:

3.1   Making connections

- **Below are not exhaustive and no guarantee as it was only tested on a few incidental phones.**

- Dutch phone (T65) Connect the blue and red wire to the board dial input connector.

- German (70s) telephone. Use the 4 wires from the dial. Connect green to brown wire to each other. Connect the white and yellow wire to the board dial input connector.
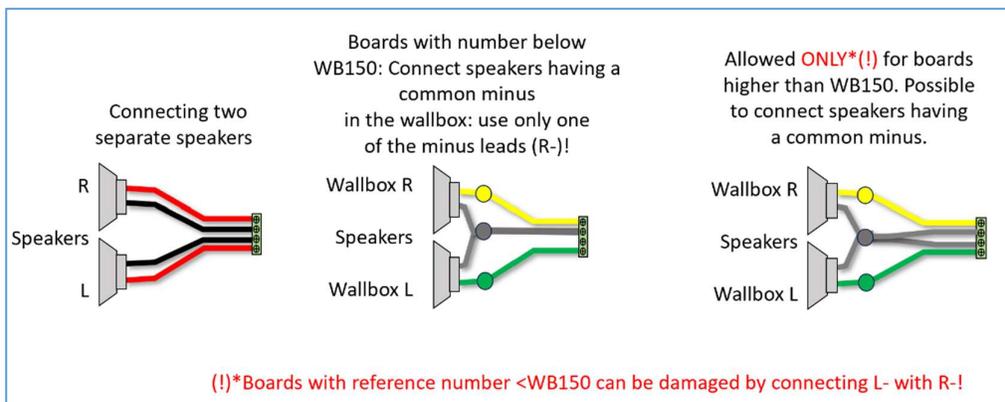
- German Vintage Phone (black 50s). Use brown and red from the dial.

- Connect the 5V to the board
- Connect the button (external, supplied button or hook).
- Connect the external speakers or audio jack plug to your audio device (see note).

3.2   Connecting speaker

Connecting the speaker or speakers

Connecting two separate speakers

Boards with number below WB150: Connect speakers having a common minus in the wallbox: use only one of the minus leads (R-)!

Allowed ONLY*(!) for boards higher than WB150. Possible to connect speakers having a common minus.

(!)*Boards with reference number <WB150 can be damaged by connecting L- with R-!

3.3   Connecting the 5VDC supply and powering up

- After powering up, the WallboxPlayer will start and the display will show relevant information on status and number of songs etc. 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 phone.

3.4   Pairing optional Bluetooth (option)

- 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) now, 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.

4   OPERATION:

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

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

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