WallboxPlayer Install – DEC (+interface)

www.wallboxplayer.com

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This WallboxPlayer is a device that turns your wallbox into a music player. This manual provides instructions on how to install the WallboxPlayer. For operation and options, refer to the full manual. In case you have any questions, contact me anytime.

1   General Description

The WallboxPlayer supports a range of 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.

The WallboxPlayer on top of the DEC interface (DMT) board has connectors for most of the connections to be made to jukebox, wallbox, speakers. The on-board MP3 player accepts a user-filled microSD card. It has a jack plug for external audio. The board has an optional data microSD for supporting functions. There are buttons for HW reset on the microprocessor and on the board to do the setup, cancel or add a play. All settings are done in the setup through software and stored. The on-board processor can be updated (refer to the website). The board is powered by a 24VAC (48VA; 2A) transformer. The WallboxPlayer, including the DEC interface backboard is 7.5 cm x 12 cm and can be mounted in the wallboxes (with a coin-slide housing), or outside in a separate housing.

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 onboard amplifier, two speakers (max 2*3W) can be connected. These speakers can be within the wallbox or be 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-lead speaker connection (see further below)!
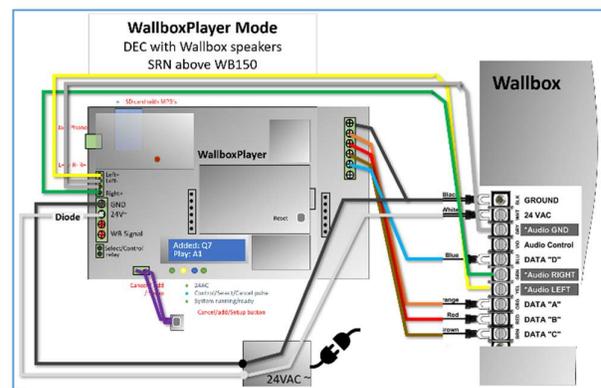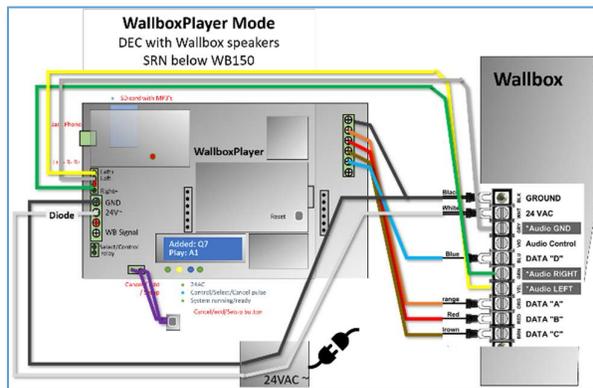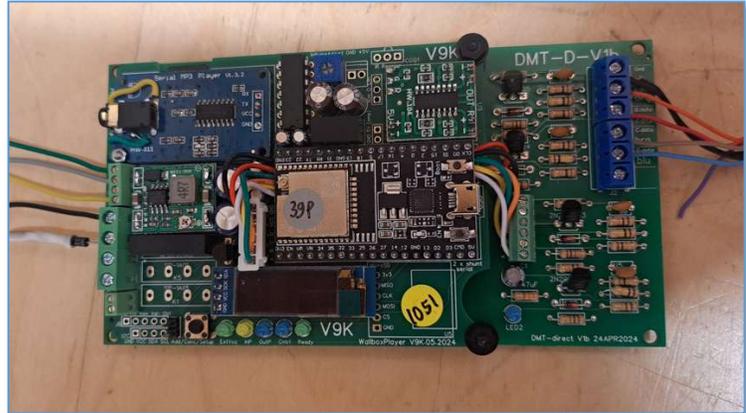
LEDs onboard are used to display status:
- ExtVcc [green] Lights when an external 24V is connected (converted to 5V), supplying the board
- InP   [yellow] – optional: lights up when a wallbox pulse is detected
- Cntrl   [blue] – optional: indicates enabling 'make selection' lightbulb or external on/off.
- 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. The blue led on the DEC interface panel indicated the DEC interface is also getting the supply voltage.

2   Installation

Make connections to the board as shown. After the connections have been made, powering up should show

screen startup messages with release version, jukebox type DEC-direct, 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'. If the control relay is set up to enable the lightbulb, the blue led will also be on. When during startup, the MP3 files cannot be read, the red MP3 player LED will not be on.

General overview of wiring to wallbox

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 button for 5 seconds. After the display 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. No need to use the tools if only settings are to be changed. "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,**

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, and more. Use **Sb_DEC-direct** for this board type**.**

- **Jukebox Out:** if selectable, for WallboxPlayer mode and audio output, this must be **MP3**. For other selections, it will send out a pulse to a connected jukebox.
- **AutoPlay:** If selectable, 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. 22 is a good setting for DEC.
- **Equalizer**: This will select one of the available equalizers (jack output and speakers). Choices: FLAT, POP, ROCK, CLASSIC, BASS. BASS is recommended.
- **AutoPlay_number**: If selecting this number with the buttons, (1=100, 2=200, 160=279) selects autoplay and plays random songs until selected again. (0, 1 … 159, 160, (default is 0)
- **Control_mode**: 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:** If selectable, 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.

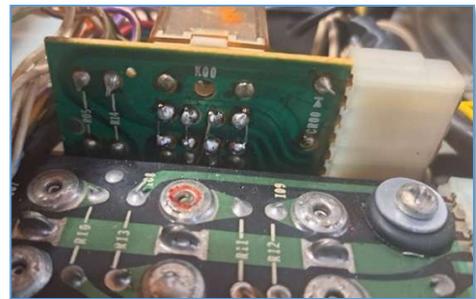## 3   INSTALLATION:

Seeburg DEC:

The best place is replacing the coin unit. If you are not using the coin slide housing, ensure there is an isolation layer or plate below the unit. Connect the wires (black = ground; white = ~24V) to the wallbox as it needs to be powered by 24V on the black and white connector slugs. Mounting the optional external 'select' button will allow cancel and adding random songs by pressing a button.

3.1   Prepare to mount the board

- Remove coin unit
- Remove any old grey 10-lead cables that may have been cut

3.2   Preparing the wallbox

- To enable Freeplay, remove the narrow credit card on the right in the black-box unit.
- Important: The DEC has a relay 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 – see picture (or ensure the relay is mechanically locked).
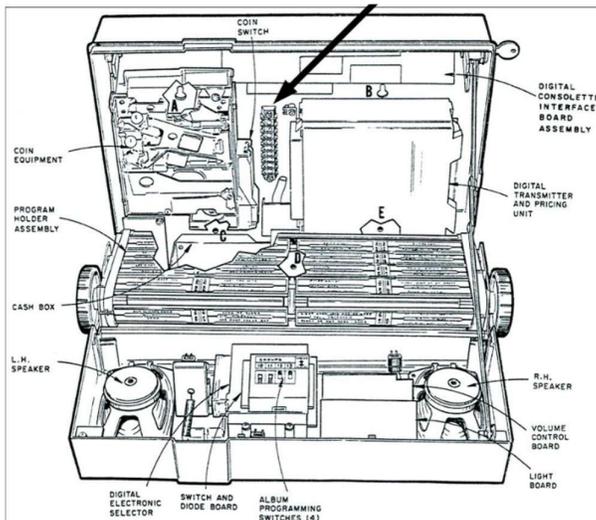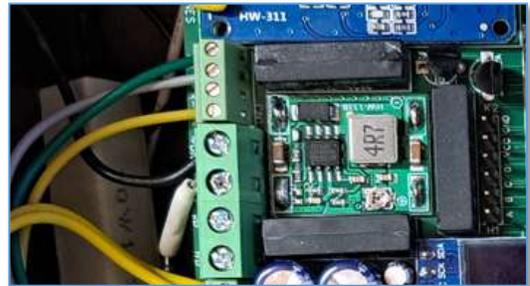

3.3   Mounting the board and button

- Use the coin unit housing or make holes for player (with DEC interface backboard - DMT, use screws to mount the boards at distance and isolate from the back cover).
- Mount the select/cancel/setup button in a (drilled) hole on the back or bottom
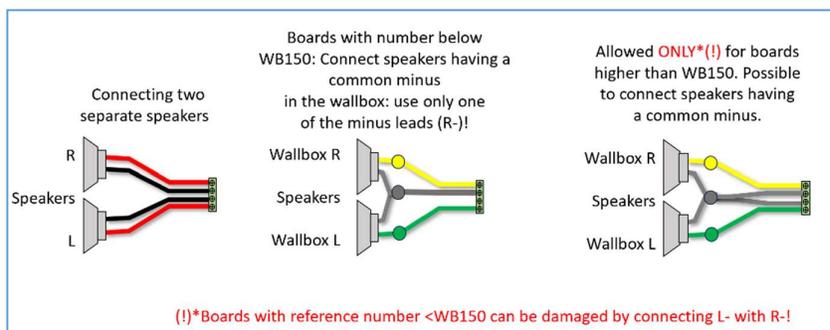
3.4   Making connections to the PLAYER

- Connect the 2 power leads (BLK and WHT) to WallboxPlayer (large middle screw connector, only 2 of 4p will be used). IMPORTANT on the other (wallboxplayer) side connect the black to screw connector GND and the white with the **DIODE** to 24-25V~.

- Make audio connections with wires (YEL, GRY, GRN) to the wallbox speakers (top small 4p screw connector) – for internal consolette speakers only 3 of 4p will be used. See **the important** note below.

- Make digital signal connections (5 wires, black … to blue)

- Connect the select/cancel/setup button (pin header or green screw connector on the board next to the button) see picture. Polarity is not important. This is a simple make-contact.

Important: Connecting the speakers in a wallbox (or a set of 2 speakers). For DEC use the correct picture (with green /yellow /grey leads) depending on WB number (lower or higher than 150)! Boards with reference number <WB150 can be damaged by connecting L- with R-!

Connecting two separate speakers

R
Speakers
L

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

Wallbox R
Speakers
Wallbox L

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

Wallbox R
Speakers
Wallbox L

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

3.5   Making connections to the DEC terminal strip and connecting the 24VAC transformer

- Ensure the 24VAC (2A) transformer is correctly connected to the player: the BLK (=gnd) and the WHITE (that has THE DIODE to WallboxPlayer).
- Connect the black wire from wallbox GND and black wire from one of the 5 data wires with one of the 24VAC wires onto the DEC ground terminal (1)
- Connect the white wire from the wallbox [24V~] with the other wire of the 24VAC transformer onto the WHT DEC terminal (2).
- Connect the three audio wires from the wallbox to the GRN YEL WHT terminals in the DEC.
- Connect the 4 remaining data wires to the corresponding terminals, ORG, RED, BRN, BLU on the DEC.

3.6   Powering up, switch 24V transformer on

- After powering up, the WallboxPlayer will also power-up, 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 a song will start. Press again to cancel.
- Make selection (e.g., 123) on the Wallbox with the buttons 1-9 If properly functioning, a song will start, and the number played will be shown.

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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