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Wireless Wallbox Transmitter

Installation Instructions

Thank you for purchasing this Wireless Wallbox Transmitter from Victory Glass!

The Victory Glass Wireless Wallbox System allows you to connect any supported wallbox with any supported jukebox, without the hassle of running wires!

Previously, wallboxes could only interface with the machines their manufacturers designed them to work with. Victory Glass has broken down that barrier, using the simple theory of numbering the selections inside of jukeboxes and then "translating" that to the various lettering and numbering schemes used by each manufacturer. Here's how it works...

The records in every jukebox are held in a basket, rack, or tray. The "A" side of the very first record is considered selection #1. The next selection, which would be the "B" side of the first record, is considered selection #2. The "A" side of the second record is selection #3, and the "B" side of the second record is selection #4, and so on. Therefore, the "A" sides are always the odd numbers, and the "B" sides are always the even numbers.

Using this numbering technique allows us to "translate" what the selections numbers equal between manufacturers. For example Selection #21 is C1 on a Seeburg M100C, A2 on a Seeburg VL200, 110 on a Seeburg Entertainer, B1 on an AMI H200 A21 on a Wurlitzer 1800, and 21 on a Rock-Ola Empress. All of those are the "A" side of the 11th record in each of those machines.

This becomes important when we begin to determine what each selections mean when mixing wallboxes with jukeboxes that weren't originally intended to be used together.

Using the selection charts available on the Victory Glass website, it is easy to determine what each selection is equivalent to, in order to properly place the title strips in your wallbox.

For example, let's say you have a Seeburg 3W1 (a 100-selection wallbox) connected to a Wurlitzer 1800 (a 104-selection jukebox). The title strips for A1 through A10 would be the same on both the wallbox *and* the jukebox. But for the next record on the jukebox (A11/A12), you would place the title strip in the B1/B2 slot of the wallbox, since there is no such thing as A11/A12 on the Seeburg 3W1. For the following record (A13/A14), you would place the title strip in the B3/B4 slot of the wallbox.

The charts show you how to correlate the selections between all types of wallboxes and machines. Simply look at the Selection Number in the left side of the chart for your jukebox, and compare that with the Selection Number in the left side of the chart for your wallbox.

Translations on 20/24/40/48 Selection Wallboxes & Machines

On 20, 24, 40, and 48 selection wallboxes (such as the Seeburg W1-L56, Wurlitzer 3020, AMI WL40, or Wurlitzer 4820), the "even" numbers are skipped. This allows you to access the maximum number of "A" sides when using them with a newer, higher-capacity jukebox such as a Seeburg VL200 or Wurlitzer 2000.

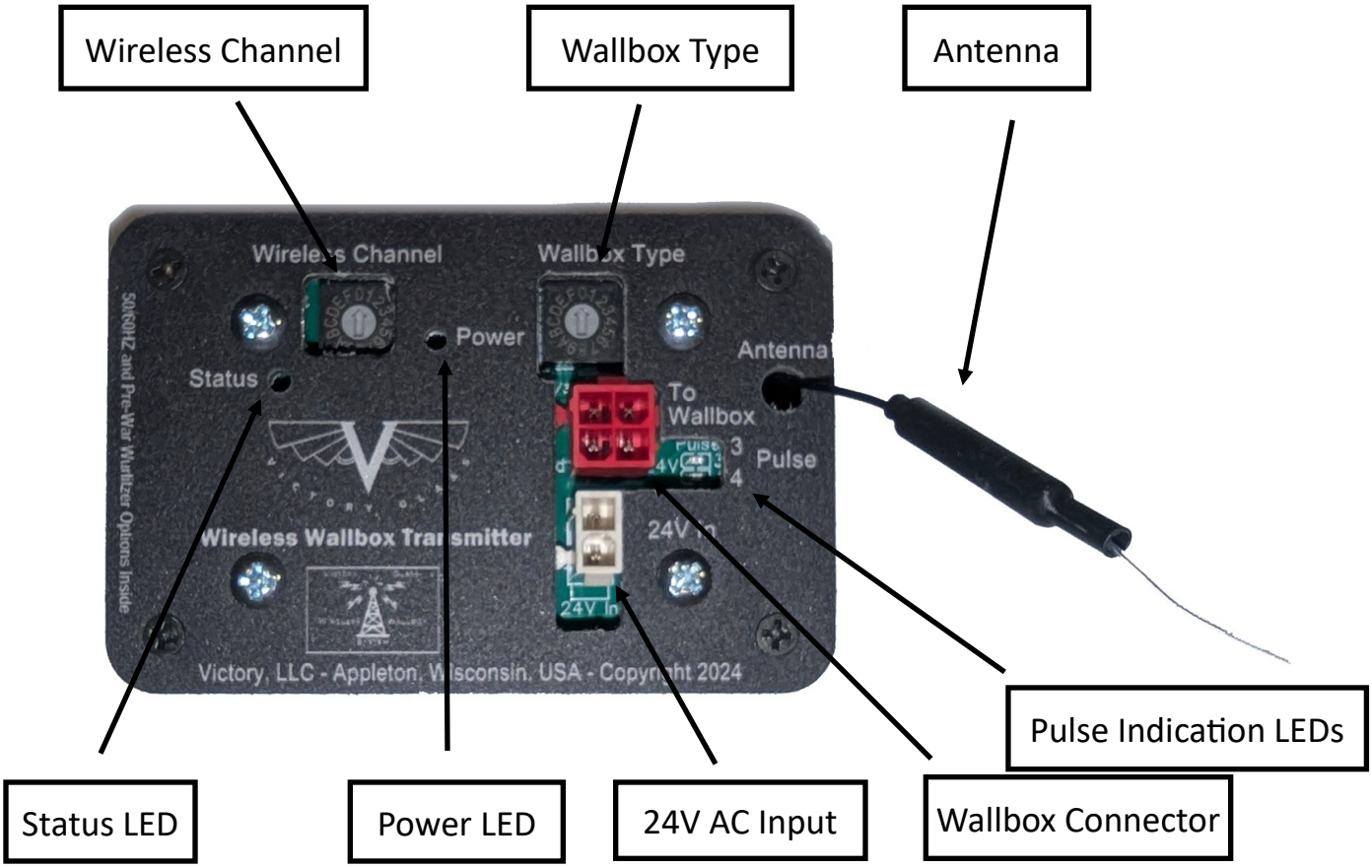
For example, button #1 on a 3020 will play selection 1 (A1), button #2 will play selection 3 (C1), button #3 will play selection 5 (E1), etc.

Likewise, on the 20, 24, and 48 selection jukeboxes, even though the trays are numbered 1 through 24 (on a Wurlitzer 1015, for example), the "selection" numbers increment in odd numbers (1,3, 5, 7, 9, etc.). Our Wireless Wallbox Receivers will translate those numbers back to the correct tray numbers when used in a 20, 24, or 48 selection machine. This means all 20/24/48 selections are available when pairing a matching wallbox with these jukeboxes.

Position	Seeburg 100	Seeburg 160	Seeburg 200	Seeburg SC	Seeburg DEC	Seeburg 20	AMI E-F-G	AMI 120/200	AMI 100	AMI1963	W24
001	A1	A1	A1	A1	100	1	1	A1	A1	A1	1
002	A2	B1	B1	B1	200		2	A2	A2	B1	
003	A3	C1	C1	C1	101	2	3	A3	A3	C1	2
004	A4	D1	D1	D1	201		4	A4	A4	D1	
005	A5	E1	E1	E1	102	3	5	A5	A5	E1	3
006	A6	F1	F1	F1	202		6	A6	A6	F1	

Sample Of Selection Chart

Transmitter Overview



Wireless Channel—Sets the channel that this transmitter will broadcast on. Channel 0 means disabled.

Wallbox Type—Sets the type of wallbox(es) this transmitter will be connected to (see types on the following pages). Up to 6 wallboxes **of the same type** can be wired in parallel to a transmitter.

Antenna—Used to broadcast the signal to the receivers.

Status LED—Indicates the current status of the device. LED will flash every second to indicate it is ready, and will "wink" 3 times when sending a selection to the receivers.

Power LED—indicates there is 24V AC power applied to the device.

24V AC Input—24V AC Supply harness connects to this jack.

Wallbox Connector—The harness that connects to the wallbox will plug into this jack.

Pulse Indication LEDs—LEDs will blink whenever there is an incoming pulse from the wallbox. There is an LED for the 3 wire input (which includes 2 wire / "dual wire"), and one for the 4-wire input.

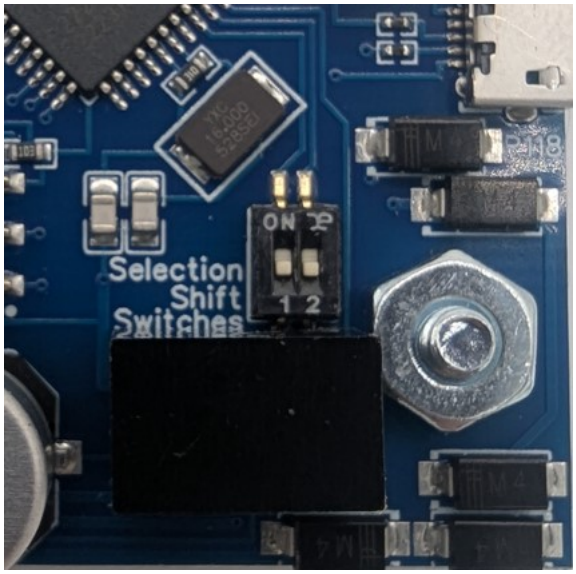
Selection Shift Option

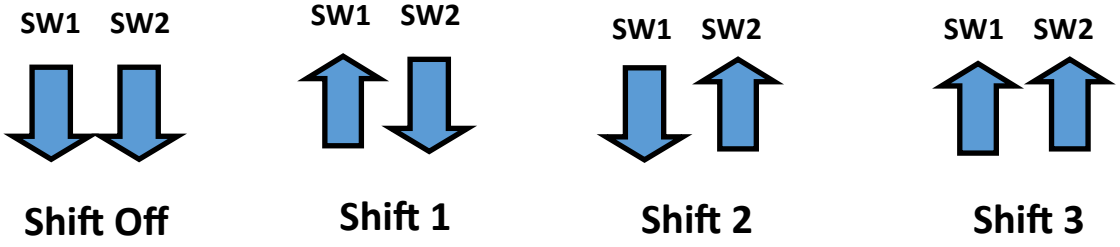
Some of the best wallbox designs were the early 20, 24, and 40 selection models. However, when you connect these models to higher-capacity machines such as a 100, 160, or 200 selection model, you may not want to be limited to only the first 24 records if you have multiple 20/24/40 selection wallboxes.

With this in mind, we have added a feature that allows you to “shift” to the next group of selections. For example, if you “shift” by 1, instead of playing records 1-24, it will actually play records 25-48. If you “shift” by 2, it will play records 49-72. If you “shift” by 3, it will play records 73-96. Keep in mind on 24-selection wallboxes, it plays only the “A” sides of each record, so shifting up to the maximum level allows you to access almost all “A” sides in a 200-selection machine.

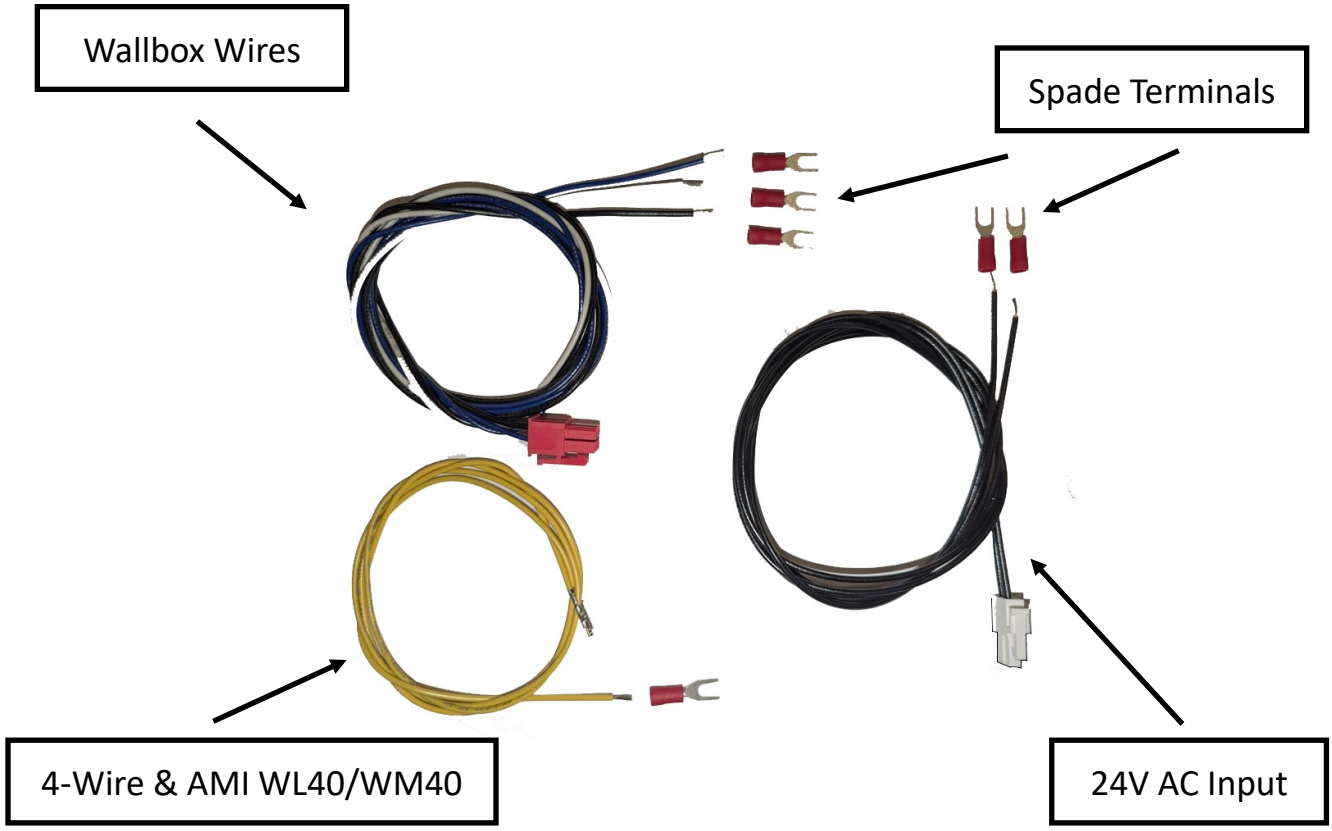
Shifting also applies to the Seeburg and Wurlitzer 100-selection model wallboxes, which will shift them to selections 101 through 200 for use with 200-selection jukeboxes.

The Selection Shift Switches are located on the inside of the transmitter. Remove the 4 corner screws, and inside you will find them. When both switches are down, there is no shift.





Wiring Harnesses Included



Wallbox Wires — Connects the transmitter to the wallbox. The three wires are **Black (Gnd), White (24VAC), and Blue (Signal).** On 3-wire wallboxes, all 3 wires are used. On 2-wire (Wurlitzer dual wire) wallboxes, Gnd and Signal are always used, and 24VAC is used if you are powering the transmitter **from** the wallbox.

4-Wire & AMI WL40/WM40 Wire - Add this wire & pin to the red socket when using a 4-wire wallbox such as the Wurlitzer 4820, 4825 and 4851. This wire is also used when connecting to an AMI WL40 or WM40.

24V AC Input Wires—Connects to the 24VAC power source, such as the optional 24VAC Wall Transformer.

Spade Terminals—Included to crimp onto the wires after cutting them to the desired length.

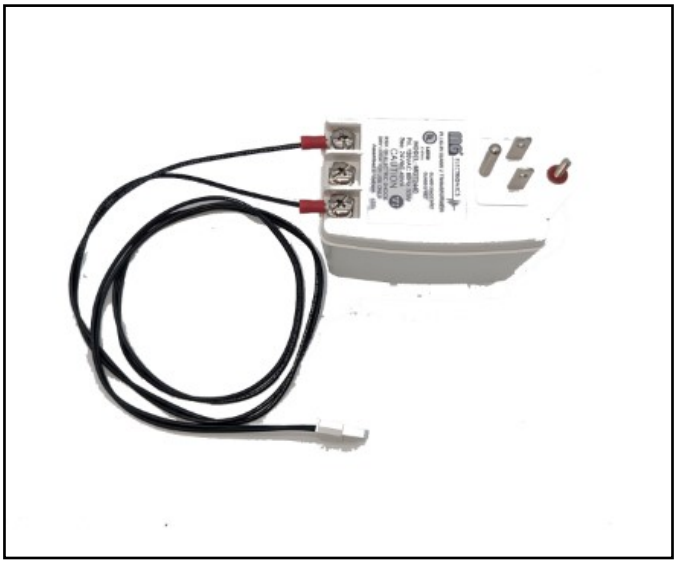
Optional Accessories

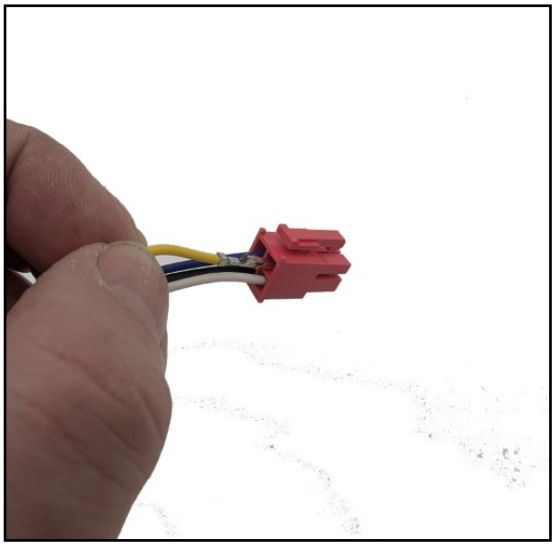
24V AC Wall Transformer

In-Line Power Switch

Connection Instructions

1. Set the Wireless Channel to match the jukebox you intend to pair this wallbox to.
2. Set the Wallbox Type to the appropriate type (listed on the following pages).
3. Connect the two black 24V AC wires to the transformer (or other 24V AC power source). You may cut (or extend) the wires to meet your length requirements.
4. **Only for AMI WM40/WL40 and Wurlitzer 48-Selection 4-Wire Wallboxes:** Add the yellow wire to the open spot on the 4-position Molex plug.
5. Connect the wallbox wire harness to the transmitter, and connect to the wallbox terminals. See the examples provided for various models on the following pages.





Wallboxes Supported

The Victory Glass Wireless Wallbox transmitter supports most 2-Wire (aka “Wurlitzer Dual Wire”), 3-Wire, and 4-Wire wallboxes. The wallbox type is selected using the rotary switch on the transmitter.

It is possible to connect multiple wallboxes **of the same type** to the same transmitter, even if they are different manufacturers. Simply connect the signal, power, and ground wires in parallel for the same wallbox types.

The list of supported wallboxes and their associates types are as follows:

Seeburg

Type 8

WS-1Z WB-1Z WS-2Z WS-5Z

DS20-1Z S20-1Z W1-L56

W4-L56 W6-L56

Type 0

3W1 3W100

Type 1

3WA 3WU 3W160

Type 9

SC1 SC2 SCH1 SCH3

Wurlitzer

Type 4

111 115 120 123 125 430 3020

3025 3045 580 4820 4825 4851 5206

Type C

320 330 331 332 340

Type 5

5204A 5205

(Note—Regular 5204 Not Supported.)

Type 6

5207

Type 1

5210 5220 5250 5252

Type 0

5200 5202 5225

Wallboxes Supported (Continued)

AMI

Type 7

WM40 WL40

Type 2

W40 W80 W120

WQ120 WQ200

WRA WRB WRC

Rock-Ola

Type 4

1501 1502 1503 1504 1512 1523

1524 1525 1526 Spectravox

Type 3

1542 1544 1546

Type 1

1555 1557 1558 1568 1578 1588 500

Deutsche Wurlitzer

Type A

FW100

Type B

FW160 FW161

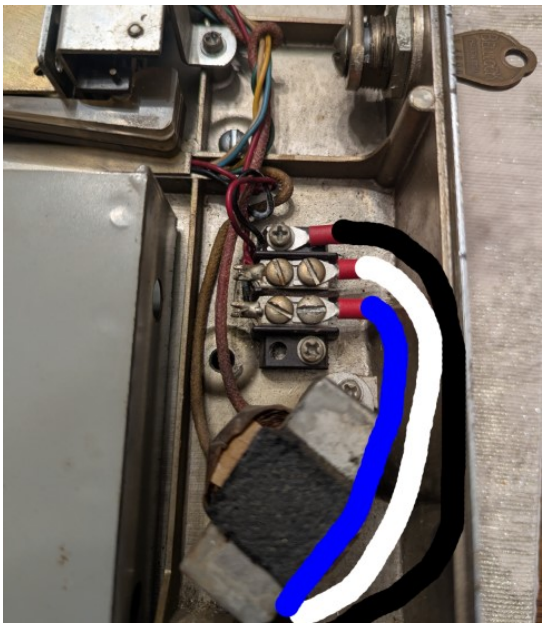
All Non-Selective Types

Type E = 1 Random Plays

Type F = 3 Random Plays

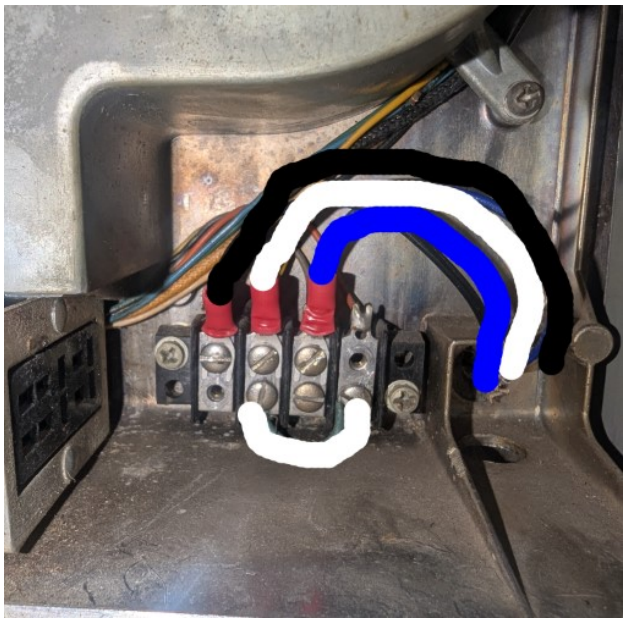
Connection Examples For AMI Wallboxes

AMI W40 / W80 / W120



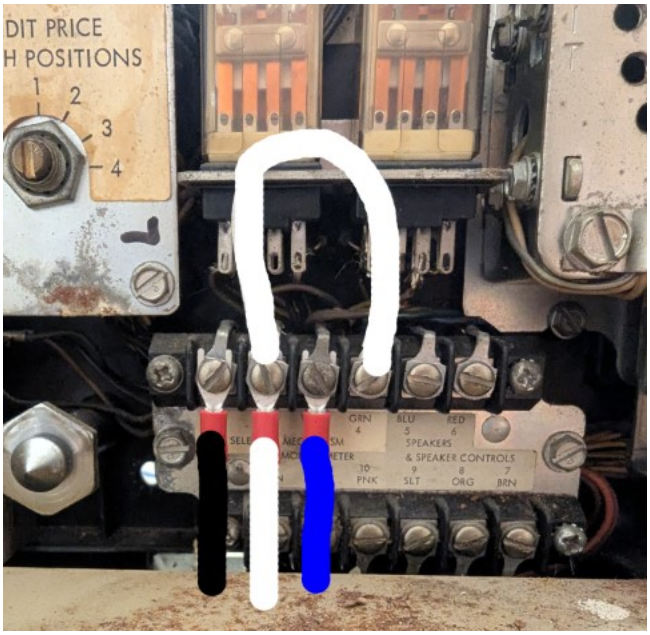
AMI WQ120 / WQ200

Note jumper wire between terminals 2 and 4.



AMI WRA/WRB/WRC

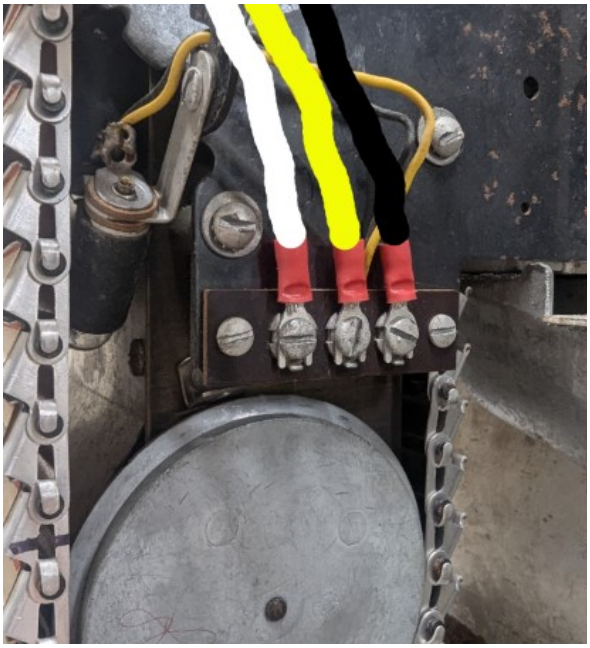
Note jumper wire between terminals 2 and 4.



AMI WM40 / WL40

Note: Use yellow wire (add to plug).

Blue wire is not used.

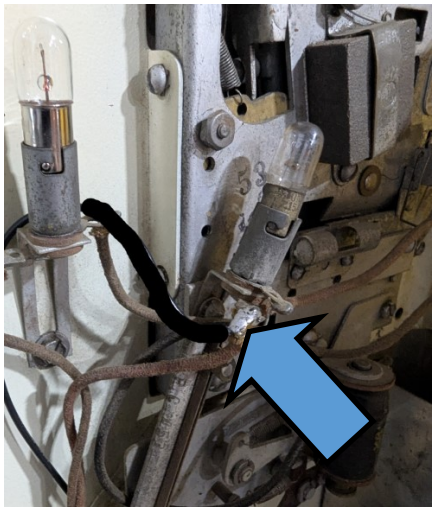


Connection Examples For Rock-Ola Wallboxes

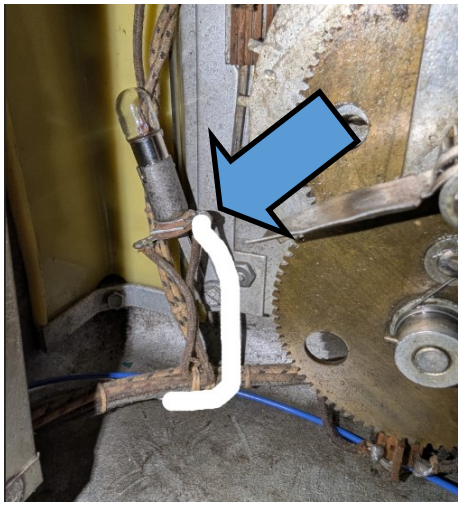
Dial-A-Tune (Models 1501—1526)

These models will vary slightly from model to model. The original wiring harness (typically with a 5-pin plug) will not be used. Instead, the wires will be soldered to the terminals on the light sockets and blade switch. There are also variants for DC and AC voltage supplies, with the DC models using 6V light bulbs wired in parallel and the AC models using 6V bulbs wired in series. When using a DC model wallbox with our Wireless Wallbox System, you MUST change the 6V bulbs to #1820 bulbs (available from Victory Glass) which are 24V bulbs. The 24V supply (white wire) is only used for illumination on Dial-A-Tune wallboxes. You can test various light socket locations on AC models to make sure you're supplying power to the beginning of the series chain (ensure all bulbs are illuminated and not over-brightness.

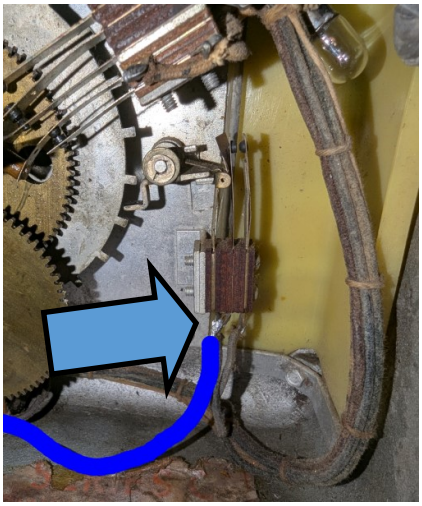
Photos Below Are Of A 1501 DC Model.



Black Wire (Common)

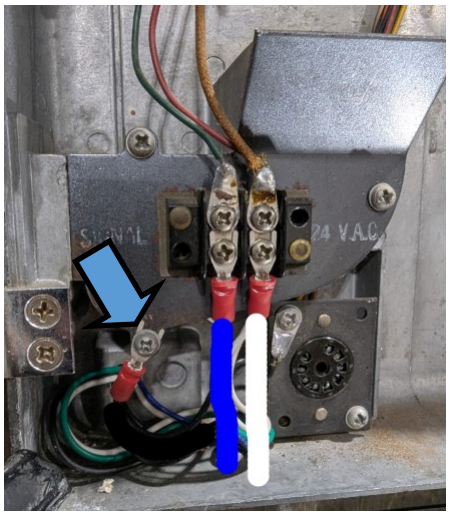


White Wire (24V)

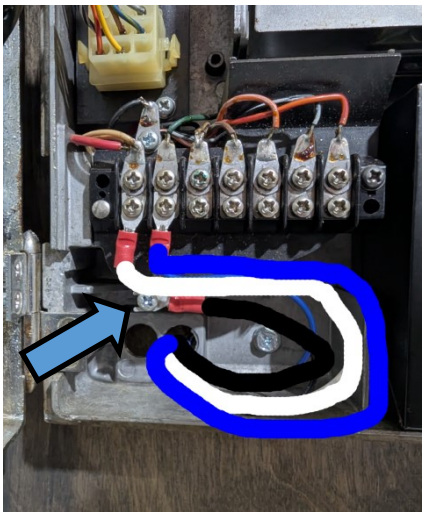


Blue Wire (Pulses)

Models 1555 / 1557



Models 1558-1594
& 501-505



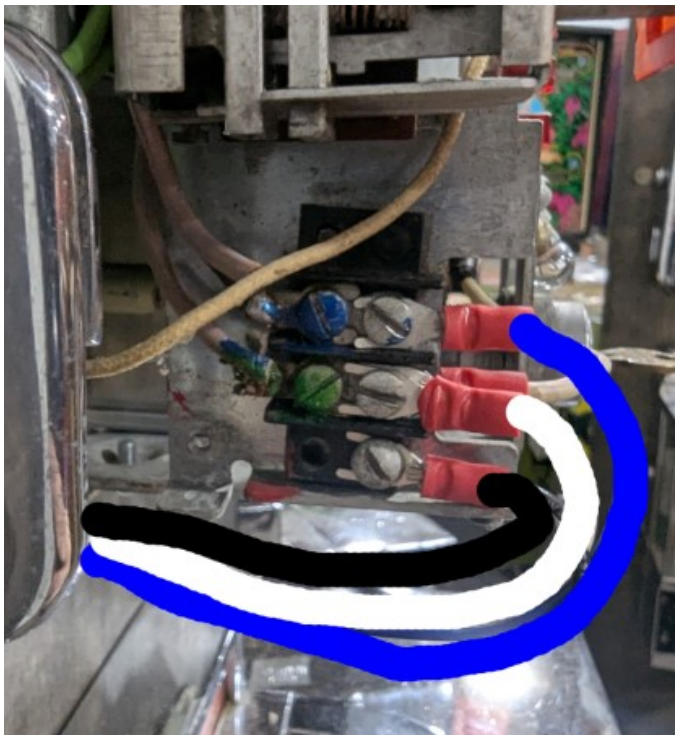
Models 506 & 507 "Tri-Vue"
(PCB Jumper Must Be Set to "B".)

Connection Examples For Seeburg Wallboxes

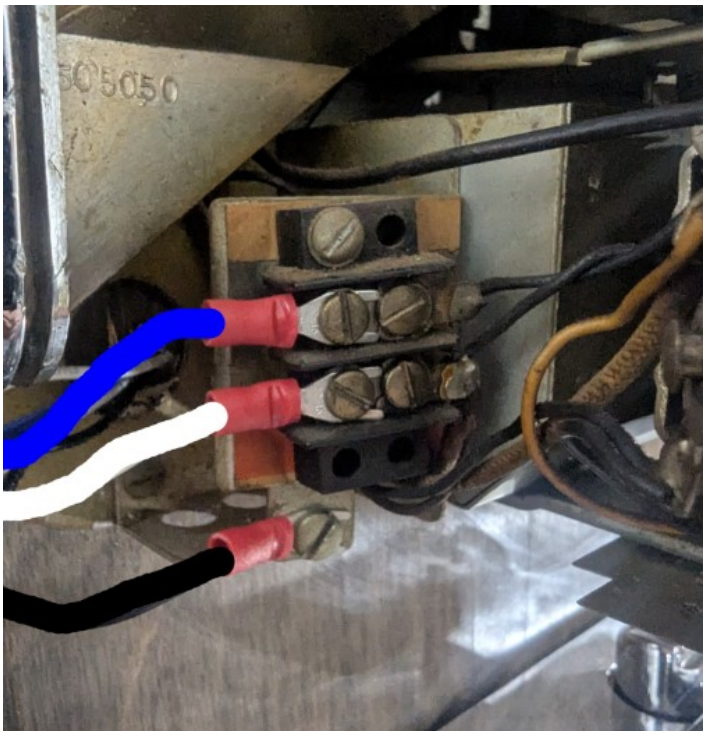
Most Common Seeburg 3-Wire Connections: Blue Wire —> Blue Terminal,

White Wire —> Green Terminal, Black Wire —> Orange Terminal or Frame

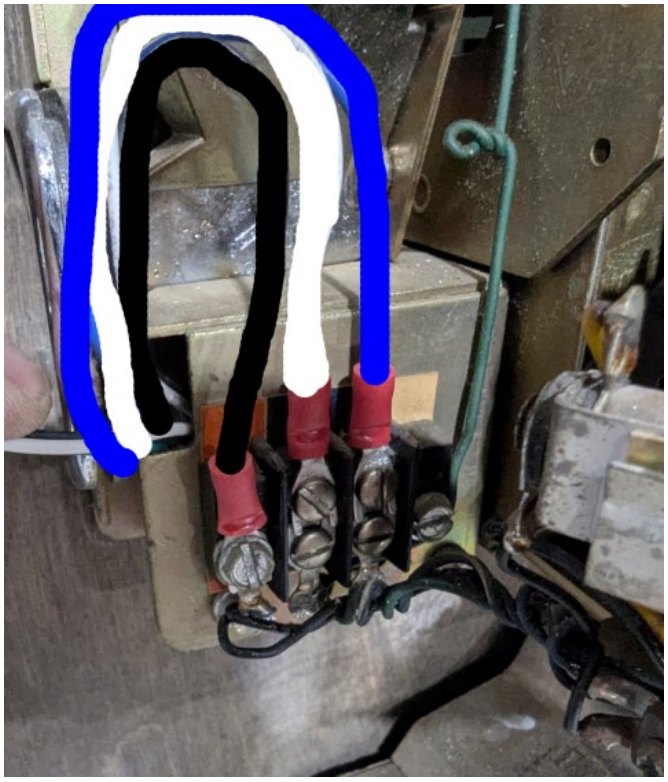
Model W4-L56



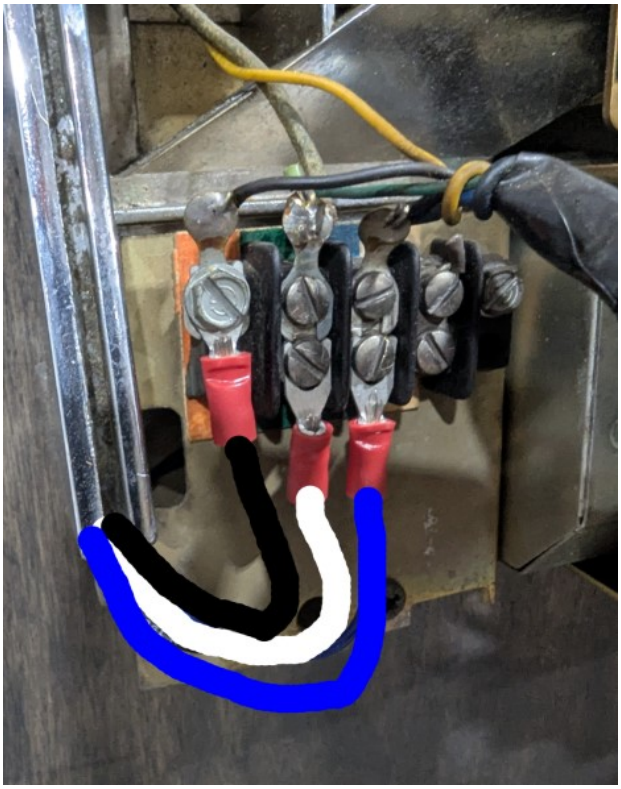
Model 3W1



Model 3W160



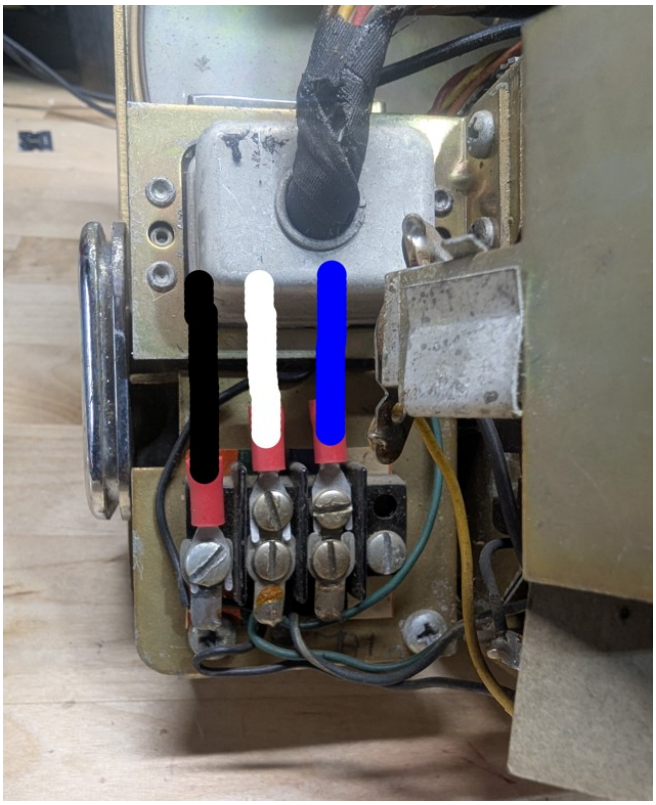
Model 3W100



Connection Examples For Seeburg Wallboxes

Continued...

Model 3WA



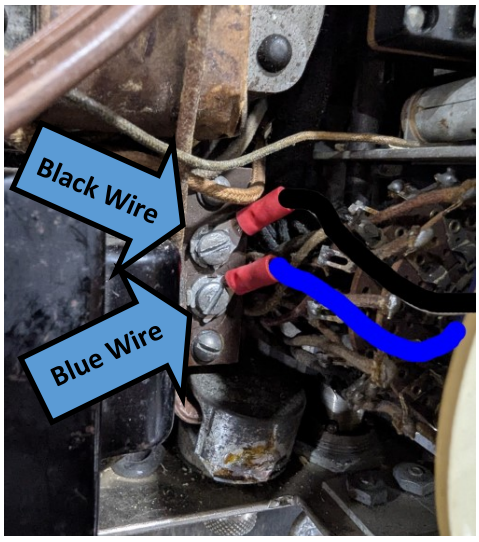
Model SC1/SC2/SCH1-SCH4

Examples For Wurlitzer “Dual-Wire” Wallboxes

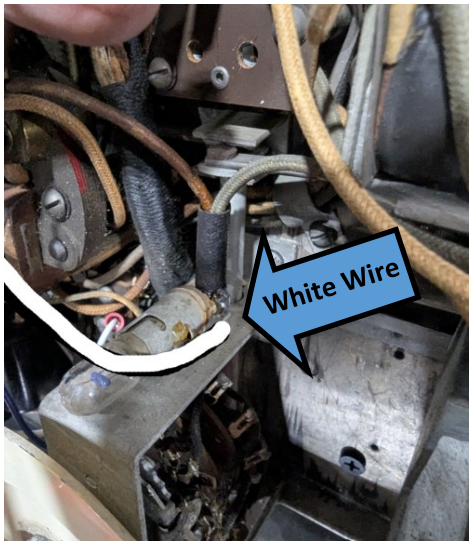
Wurlitzer’s first selectable wallboxes, the 300 series, were released in 1940. The following year, the 100 series was released and was used until the war ceased all production in 1942. Both the 300 and 100 series were known as “Dual Wire” and “2 Wire” wallboxes.

One unique aspect of Wurlitzer Dual Wire wallboxes is that they require 120VAC power to operate, as they have their own 24VAC step-down transformer inside them. Therefore, you can use this 24VAC power source to power the wireless transmitter so no external 24VAC power supply is necessary. The location of the 24V supply varies model by model, but can usually be found on the first light bulb in a series chain or on the start pulse contact blade. You can use an AC volt meter to measure between the common terminal and various points to locate the 24VAC supply point.

Model 320 - Common & Pulse Wires



Model 320 - 24VAC Supply Wire (Soldered To Light Socket)



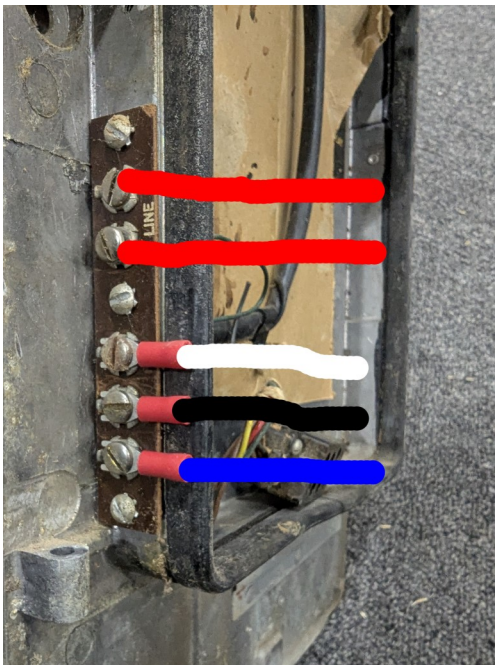
Wurlitzer 3020

The Wurlitzer 3020 is unique, as it could operate as either a dual-wire, three wire, or Wurlitzer proprietary wireless wallbox.

When used as the earlier “Dual Wire” system, it required an AC line cord, a 1A fuse, and an 11-pin jumper plug. When used as a Wurlitzer propriety wireless model, it required an AC line cord, a 1A fuse, and the Model 215 Impulse Transmitter. When used as a three-wire wallbox, it is powered by the jukebox and does not require the line cord, fuse, or jumper plug.

With the Victory Glass Wireless Wallbox System, you have the option to either power the wallbox and transmitter from an external 24VAC power supply, or you can power the wallbox and transmitter using the wallbox’s internal transformer, which would mean a cleaner installation with less clutter outside of the wallbox.

To take advantage of the 3020’s internal power transformer, please order the Victory Glass 3020 Wireless Wallbox Kit, which includes the necessary AC line cord, 1A fuse, and 11 pin jumper plug.



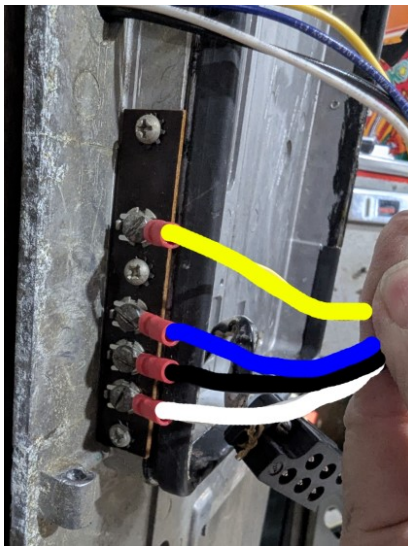
120V AC Line Cord Connects To These Two Terminals **ONLY** if self-powering the wallbox using the internal transformer!

NOTE: Do NOT connect a 24VAC power supply to the Victory Glass Wireless Transmitter if you are using the 3020’s internal transformer to power the wallbox & transmitter!

Examples For Wurlitzer “Multi-Wire” Wallboxes

Post-War Wurlitzer Wallboxes are commonly called Multi-Wire wallboxes, with 24-selection wallboxes using a total of 3 wires and 48-selection wallboxes using 4 wires. Later models of 100, 104, and 200 selections went back to using 3 wires. The examples below show the connections for various multi-wire models.

Model 4820



Model 5205/5207