

Wallbox Translator

Connect any vintage wallbox to your jukebox ...

TRANSLATED WALLBOX MODEL TYPES

- AMI W-40
- AMI W-80
- AMI W-120
- AMI WQ-200
- Rock-Ola 500
- Rock-Ola 503
- Rock-Ola 1555
- Rock-Ola 1558
- Rowe WRA
- Rowe WRB
- Rowe WRC
- Seeburg 3W1
- Seeburg 3W100
- Seeburg 3WA
- Seeburg SC1-4
- Seeburg SCH1-4
- Wurlitzer 3020
- Wurlitzer 5207
- Wurlitzer 5210
- Wurlitzer 5220
- Wurlitzer 5225
- Wurlitzer 5250

NOTE: Your jukebox must have a stepper or wallbox receiver in order to play wallbox selections.



This wallbox translator allows you to connect any model wallbox to your specific jukebox. It does this by receiving the input wallbox signal, aligns the title strip sequence, then outputs the pulse signals matched to your jukebox. Wallbox selections are stored in memory and each selection is issued with a delay in between to allow the jukebox stepper to reset. No wallbox selected songs are ever lost.

Features

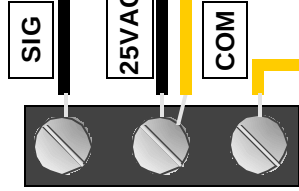
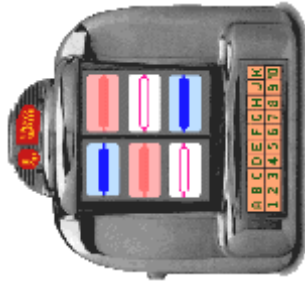
- Title strip selections are maintained in sequential order across wallbox types
- Output is blocked if the input selection exceeds the output limit
- Expandable to mixed or same wallbox type (requires a server unit)
- Wallbox can be located up to 2,000 feet from translator
- LED indicator shows translator activity
- Input/output signals are fully isolated
- Can be used as a wallbox or stepper tester
- A 50Hz line frequency version is available



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WALLBOX SELECTOR



WALLBOX POWER

NOT SUPPLIED
But required to
power wallbox



POWER TRANSFORMER
25-30 VAC, 2 Amps
Radio Shack 273-1512
or equivalent

In-line
fuse holder
with 1A fuse



22AWG distance of up to
2,000 feet (609.6 meters)

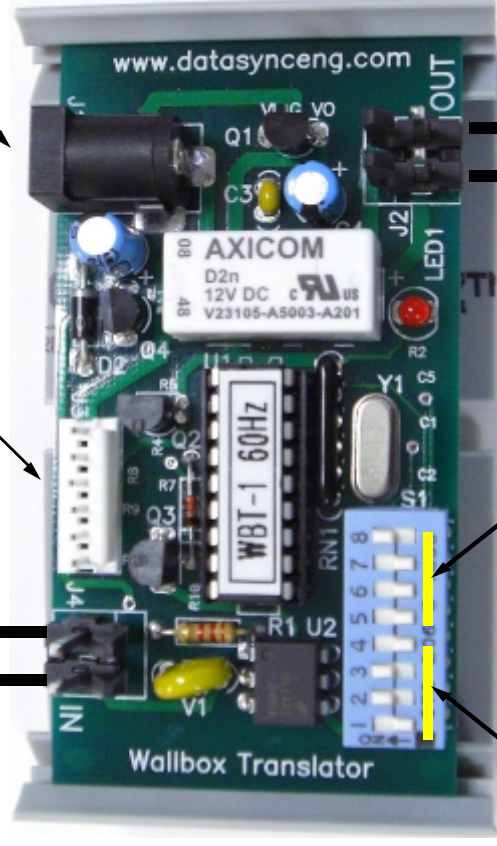
(YELLOW)
(YELLOW)

Black wire is not used.
Apply tape or wire nut.

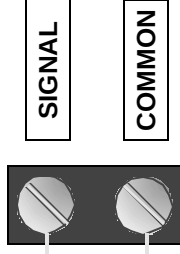
DC POWER SUPPLY
Included with kit
(2.1mm Center pin positive)



DATA LINK CONNECTOR
Connects to one or more "Server
Units" to expand wallbox capacity.
Up to 50 mixed or same WB types.



TO JUKEBOX OR
PLAYER SYSTEM



SWITCHES 5 6 7 8
Selects the output
wallbox type

SWITCHES 1 2 3 4
Selects the input
wallbox type

WALLBOX TRANSLATOR / REPEATER

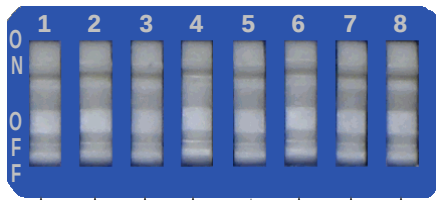
Translates any 3-wire electro-mechanical wallbox

Data Sync Engineering

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50Hz or 50Hz/60Hz mixed
input/output is available.

CONFIGURATION SWITCHES



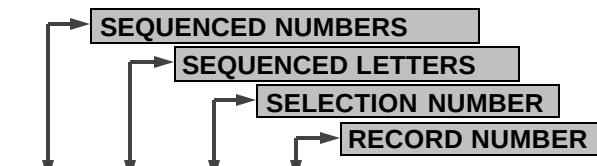
WALLBOX ADAPTER TEST

Set wallbox model to "Test Mode", touch a 9 -volt battery to the adapters' wallbox wires. Selection # 005 s should play.

5	6	7	8	OUTPUT WALLBOX MODEL
OFF	OFF	OFF	OFF	Rock-Ola 500, 1555, 1558 (and most other models)
OFF	OFF	OFF	ON	Seeburg Consolette SC1/2/3/4, SCH1/2/3/4
OFF	OFF	ON	OFF	Wurlitzer 5210, 5220, 5250
OFF	OFF	ON	ON	Seeburg Wall-O-Matic 3W1, 3W100
OFF	ON	OFF	OFF	Seeburg Wall-O-Matic 3WA
OFF	ON	OFF	ON	Rowe WRA, WRB, WRC
OFF	ON	ON	OFF	AMI W-40, W-80, W-120, WQ200
OFF	ON	ON	ON	Wurlitzer 5207
ON	OFF	OFF	OFF	Wurlitzer 5225
ON	OFF	OFF	ON	Wurlitzer 3020
ON	OFF	ON	OFF	-NA-
ON	OFF	ON	ON	-NA-
ON	ON	OFF	OFF	-NA-
ON	ON	OFF	ON	-NA-
ON	ON	ON	OFF	-NA-
ON	ON	ON	ON	-NA-

1	2	3	4	INPUT WALLBOX MODEL	Max Sel	Seq
OFF	OFF	OFF	OFF	Rock-Ola 500, 1555, 1558 (and most other models)	200	Page
OFF	OFF	OFF	ON	Seeburg Consolette SC1/2/3/4, SCH1/2/3/4	160	Letter
OFF	OFF	ON	OFF	Wurlitzer 5210, 5220, 5250	200	Number
OFF	OFF	ON	ON	Seeburg Wall-O-Matic 3W1, 3W100	100	Number
OFF	ON	OFF	OFF	Seeburg Wall-O-Matic 3WA	200	Letter
OFF	ON	OFF	ON	Rowe WRA, WRB, WRC	200	Letter
OFF	ON	ON	OFF	AMI W-40, W-80, W-120, WQ200	200	Page
OFF	ON	ON	ON	Wurlitzer 5207	104	Button
ON	OFF	OFF	OFF	Wurlitzer 5225	100	Number
ON	OFF	OFF	ON	Wurlitzer 3020	24	Button
ON	OFF	ON	OFF	Rowe WRA, WRB, WRC (Translated to "200/Number" format)	200	Letter
ON	OFF	ON	ON	Alternate Rowe WRA, WRB, WRC	200	Letter
ON	ON	OFF	OFF	Alternate Seeburg Wall-O-Matic 3W1, 3W100	100	Number
ON	ON	OFF	ON	Alternate Wurlitzer 5225	100	Number
ON	ON	ON	OFF	"Test Mode" Plays song number "005" on any wallbox voltage signal		
ON	ON	ON	ON	Factory use only		

WALLBOX TRANSLATION CHART



NBR	LTR	SEL	REC
A1	A1	001	100
A2	B1	002	200
A3	C1	003	101
A4	D1	004	201
A5	E1	005	102
A6	F1	006	202
A7	G1	007	103
A8	H1	008	203
A9	J1	009	104
A0	K1	010	204
B1	L1	011	105
B2	M1	012	205
B3	N1	013	106
B4	P1	014	206
B5	Q1	015	107
B6	R1	016	207
B7	S1	017	108
B8	T1	018	208
B9	U1	019	109
B0	V1	020	209
C1	A2	021	110
C2	B2	022	210
C3	C2	023	111
C4	D2	024	211
C5	E2	025	112
C6	F2	026	212
C7	G2	027	113
C8	H2	028	213
C9	J2	029	114
C0	K2	030	214
D1	L2	031	115
D2	M2	032	215
D3	N2	033	116
D4	P2	034	216
D5	Q2	035	117
D6	R2	036	217
D7	S2	037	118
D8	T2	038	218
D9	U2	039	119
D0	V2	040	219
E1	A3	041	120
E2	B3	042	220
E3	C3	043	121
E4	D3	044	221
E5	E3	045	122
E6	F3	046	222
E7	G3	047	123
E8	H3	048	223
E9	J3	049	124
E0	K3	050	224

NBR	LTR	SEL	REC
F1	L3	051	125
F2	M3	052	225
F3	N3	053	126
F4	P3	054	226
F5	Q3	055	127
F6	R3	056	227
F7	S3	057	128
F8	T3	058	228
F9	U3	059	129
F0	V3	060	229
G1	A4	061	130
G2	B4	062	230
G3	C4	063	131
G4	D4	064	231
G5	E4	065	132
G6	F4	066	232
G7	G4	067	133
G8	H4	068	233
G9	J4	069	134
G0	K4	070	234
H1	L4	071	135
H2	M4	072	235
H3	N4	073	136
H4	P4	074	236
H5	Q4	075	137
H6	R4	076	237
H7	S4	077	138
H8	T4	078	238
H9	U4	079	139
H0	V4	080	239
J1	A5	081	140
J2	B5	082	240
J3	C5	083	141
J4	D5	084	241
J5	E5	085	142
J6	F5	086	242
J7	G5	087	143
J8	H5	088	243
J9	J5	089	144
J0	K5	090	244
K1	L5	091	145
K2	M5	092	245
K3	N5	093	146
K4	P5	094	246
K5	Q5	095	147
K6	R5	096	247
K7	S5	097	148
K8	T5	098	248
K9	U5	099	149
K0	V5	100	249

NBR	LTR	SEL	REC
L1	A6	101	150
L2	B6	102	250
L3	C6	103	151
L4	D6	104	251
L5	E6	105	152
L6	F6	106	252
L7	G6	107	153
L8	H6	108	253
L9	J6	109	154
L0	K6	110	254
M1	L6	111	155
M2	M6	112	255
M3	N6	113	156
M4	P6	114	256
M5	Q6	115	157
M6	R6	116	257
M7	S6	117	158
M8	T6	118	258
M9	U6	119	159
M0	V6	120	259
N1	A7	121	160
N2	B7	122	260
N3	C7	123	161
N4	D7	124	261
N5	E7	125	162
N6	F7	126	262
N7	G7	127	163
N8	H7	128	263
N9	J7	129	164
N0	K7	130	264
P1	L7	131	165
P2	M7	132	265
P3	N7	133	166
P4	P7	134	266
P5	Q7	135	167
P6	R7	136	267
P7	S7	137	168
P8	T7	138	268
P9	U7	139	169
P0	V7	140	269
Q1	A8	141	170
Q2	B8	142	270
Q3	C8	143	171
Q4	D8	144	271
Q5	E8	145	172
Q6	F8	146	272
Q7	G8	147	173
Q8	H8	148	273
Q9	J8	149	174
Q0	K8	150	274

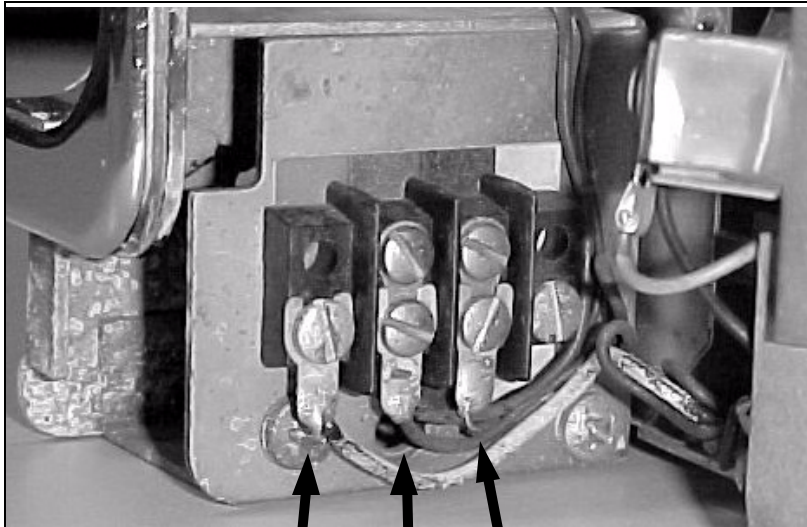
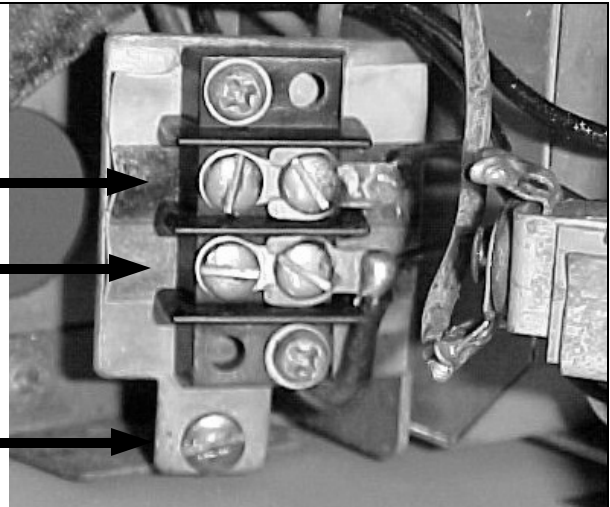
NBR	LTR	SEL	REC
R1	L8	151	175
R2	M8	152	275
R3	N8	153	176
R4	P8	154	276
R5	Q8	155	177
R6	R8	156	277
R7	S8	157	178
R8	T8	158	278
R9	U8	159	179
R0	V8	160	279
S1	A9	161	180
S2	B9	162	280
S3	C9	163	181
S4	D9	164	281
S5	E9	165	182
S6	F9	166	282
S7	G9	167	183
S8	H9	168	283
S9	J9	169	184
S0	K9	170	284
T1	L9	171	185
T2	M9	172	285
T3	N9	173	186
T4	P9	174	286
T5	Q9	175	187
T6	R9	176	287
T7	S9	177	188
T8	T9	178	288
T9	U9	179	189
T0	V9	180	289
U1	A0	181	190
U2	B0	182	290
U3	C0	183	191
U4	D0	184	291
U5	E0	185	192
U6	F0	186	292
U7	G0	187	193
U8	H0	188	293
U9	J0	189	194
U0	K0	190	294
V1	L0	191	195
V2	M0	192	295
V3	N0	193	196
V4	P0	194	296
V5	Q0	195	197
V6	R0	196	297
V7	S0	197	198
V8	T0	198	298
V9	U0	199	199
V0	V0	200	299

Wallbox Wiring Diagrams

CAUTION: Do not attempt to hook up a wallbox power supply if you are not familiar with electrical wiring, consult with a qualified person or an electrician. Do not leave any wires exposed, always use wire-nuts or electrical tape on all connections. Improper wiring can result in a fire or shock hazard.

**Seeburg Wall-o-matic
3W1 / 3W100
100 select**

SIGNAL →
25VAC →
COMMON →



**Seeburg Wall-o-matic
3WA
200 select**

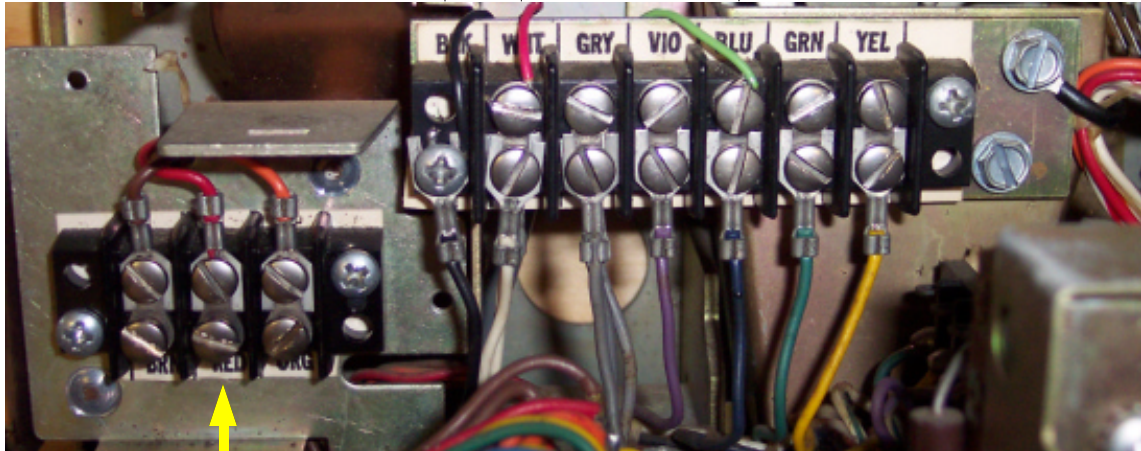
COMMON 25VAC SIGNAL

**Seeburg Consolette
SC1-4 / SCH1-4
160 select**

BLK
COMMON

WHT
25VAC

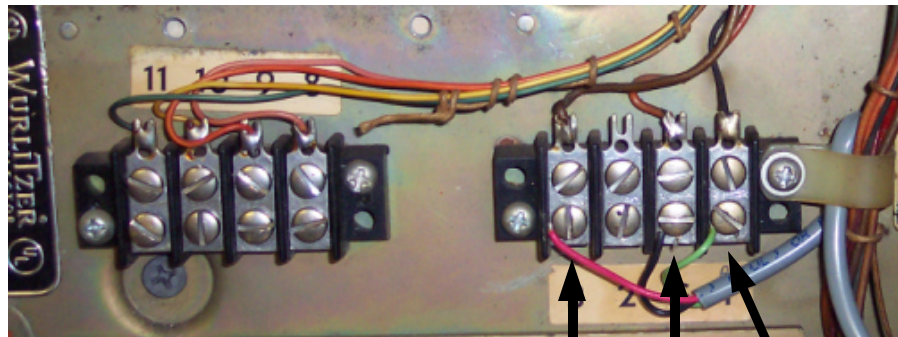
BLU
SIGNAL



To enable coin operation, the BRN / RED / ORG terminals must be shorted together and connected to the 25VAC terminal (WHT) using a 40-50 Ohm, 10 Watt power resistor (solenoid current = 400mA).

**Wurlitzer 5220
200 select**

**Wurlitzer 5225
100 select**

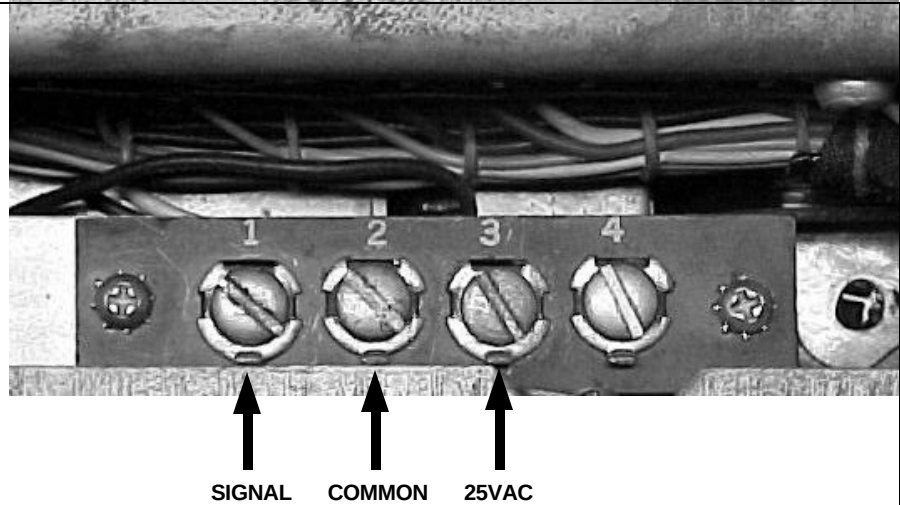


25VAC
3

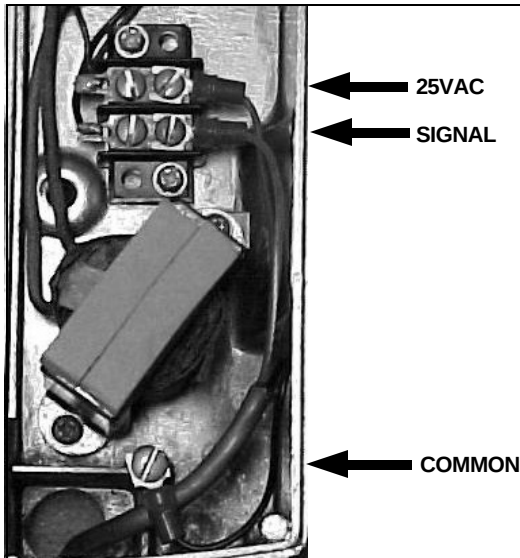
COMMON
G

SIGNAL
1

**Wurlitzer 5207
104 select**

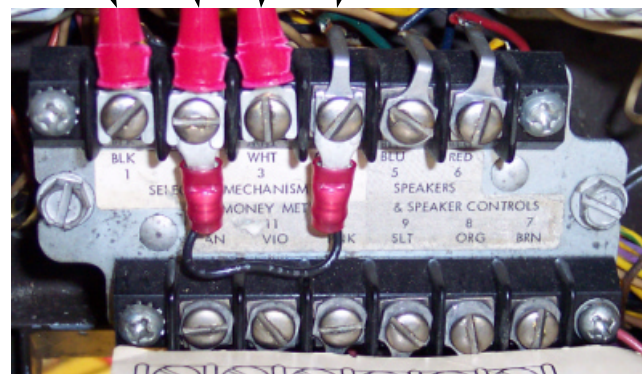


**AMI W-40 / W-80 / W-120
40 / 80 / 120 select**

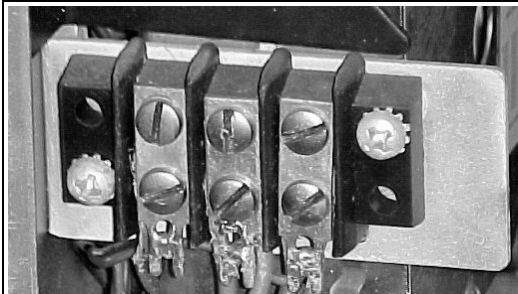


**Rowe WRA / WRB / WRC
200 select**

1 2 3 4
COMMON 25VAC SIGNAL 25VAC*



A wire jumper must be inserted from the 25VAC main power terminal (#2) to the 25VAC* keypad motor terminal (#4).

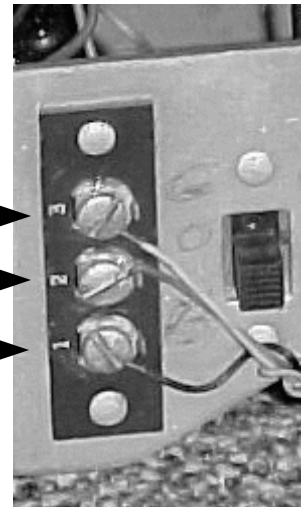


SIGNAL COMMON 25VAC

**Wurlitzer 5250
200 select**

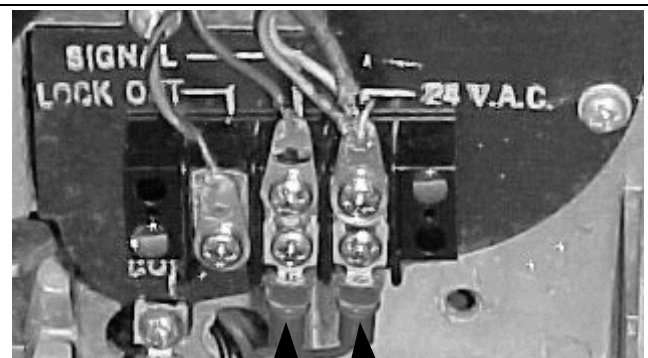
**Wurlitzer 5210
200 select**

25VAC →
COMMON →
SIGNAL →



COMMON SIGNAL 25VAC

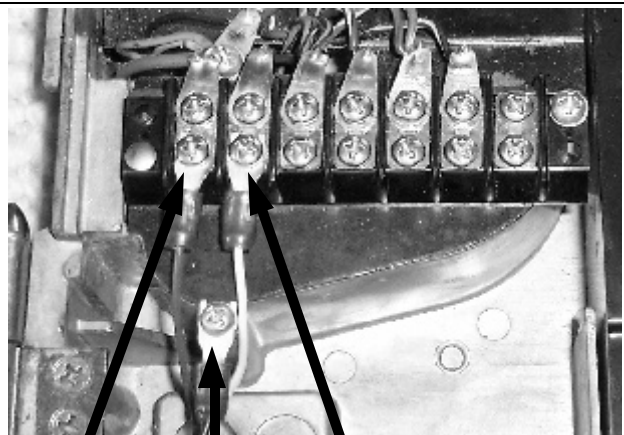
**Rock-Ola 1555
200 select**



COMMON SIGNAL 25VAC

**Rock-Ola 1558
160 select**

**Rock-Ola 500
160 select**

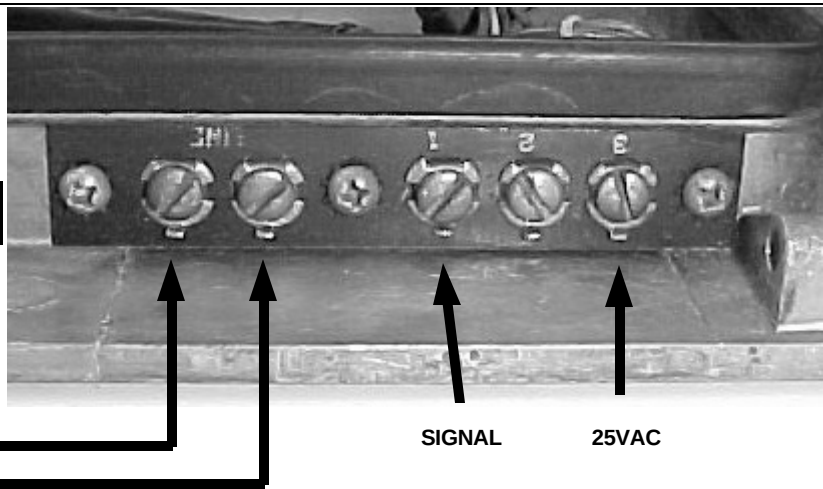


25VAC COMMON SIGNAL

Wurlitzer 3020 24 select

The Original 1015 Bubbler Wallbox

120VAC



SIGNAL

25VAC

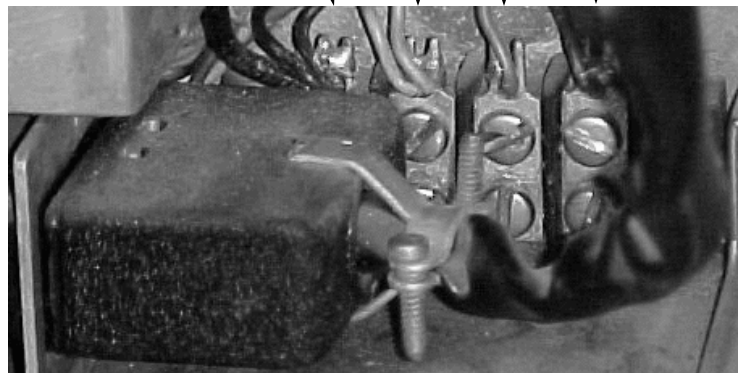
This wallbox has its own “built-in” transformer and requires a 120VAC power cord. High voltage is used so be very careful when wiring up this wallbox.

The wallbox adapter only requires the two wire connection to terminal #1 and terminal #3.

AMI WQ-200 200 select

A wire jumper must be inserted from the 25VAC main power terminal to the 25VAC* lock-out.

COMMON 25VAC SIGNAL 25VAC*



TECH NOTE

Electrical pulses transmitted by the wallbox are generated by a contact arm rotating on a selector disc containing contact points. When these contacts become gummed up and corroded, the wallbox may not make the proper selection.

Occasionally, these contacts require cleaning. They can be cleaned with a cloth saturated with isopropyl alcohol. Do not use emery cloth or sandpaper as this may remove the plating.

On really worn wallboxes, where basic cleaning doesn't seem to cure the problem, you may have successful results by using a low abrasive polish, such as “Scratch Out” or “Brasso”. This will make the contact surfaces shiny and smooth.

