



WURLITZER SERVICE SLANTS

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WURLITZER SERVICE DEPT., NORTH TONAWANDA, N. Y.

SUBJECT: Modification of existing Wurlitzer Model 5134 Satellite Selective Console Speaker for use with Wurlitzer Model 3500, 200 Selection Phonographs, and Wurlitzer Model 5220-L or 5220A-L Wall Boxes.

REASON FOR MODIFICATION: The Model 268 Stepper and Model 5220-L and 5220A-L Wall Boxes, used with the Model 3500, 200 Selection Phonograph, incorporate a "Lockout" circuit. This circuit prevents selections being made from a Wall Box while any other Wall Box is in its selection cycle. At completion of selection cycle, the "Lockout" circuit drops out permitting selections to be made from any other associated Wall Box. Therefore, modification of the Model 5134 Satellite Selective Console Speaker is necessary to make the Model 5134 Satellite Selective Console Speaker compatible with the Model 3500, 200 Selection Phonograph and Model 5220-L and 5220A-L Wall Boxes.

Materials Required

1 - 76462-37	Capacitor, 25 Mfd., 50 V.
1 - 76700-20	Diode
1 - 75004-9	Wire, White/Red, 22 Ga.
1 - 73782-32	Roll Pin
1 - 125796	Cam
1 - 137884	Switch and Bracket Assembly
2 - 73533-35	Screw, 8-32 x 5/16 RD. SEM
1 - 122 133	Relay, White

- MODIFICATION:** To modify the existing Wurlitzer Model 5134 Satellite Selective Console Speaker perform the following:
1. Verify that the Satellite Line Switch is in OFF position.
 2. Unlock and open Dome Assembly.
 3. Disconnect COIN REGISTER MECHANISM PLUG from Coin Register Mechanism Socket shown in Figure 1.
 4. Remove THUMB SCREW securing COIN REGISTER MECHANISM to Selector Mechanism, then remove COIN REGISTER MECHANISM. Retain THUMB SCREW for reassembly. See Figure 1.
 5. Remove three screws securing Selector Mechanism to rear of Satellite cabinet, then remove Selector Mechanism. Retain screws for reassembly.
 6. Remove and discard Red LOCKOUT RELAY, shown in Figure 1, from Lockout Relay Socket.
 7. Remove and retain Red LP RELAY, shown in Figure 1, from LP Relay Socket.

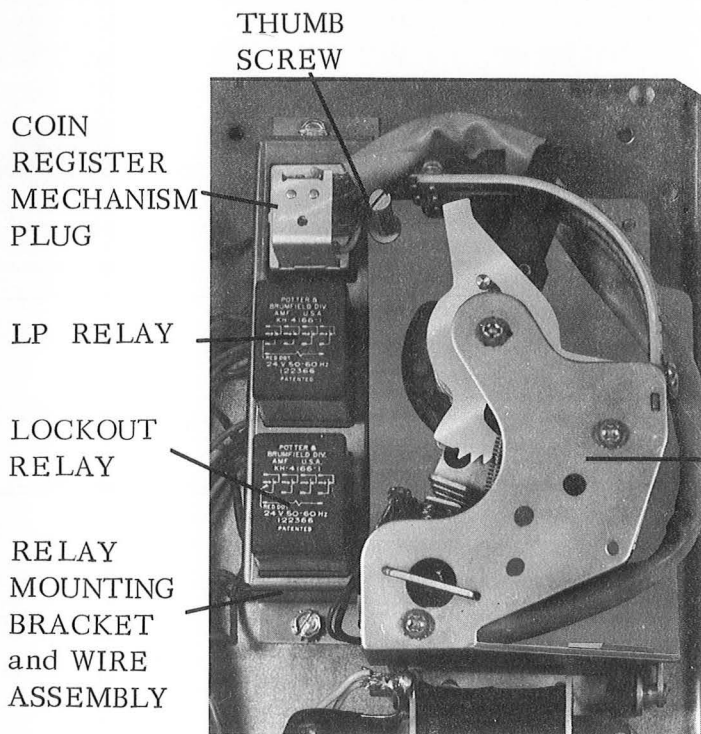


Figure 1.

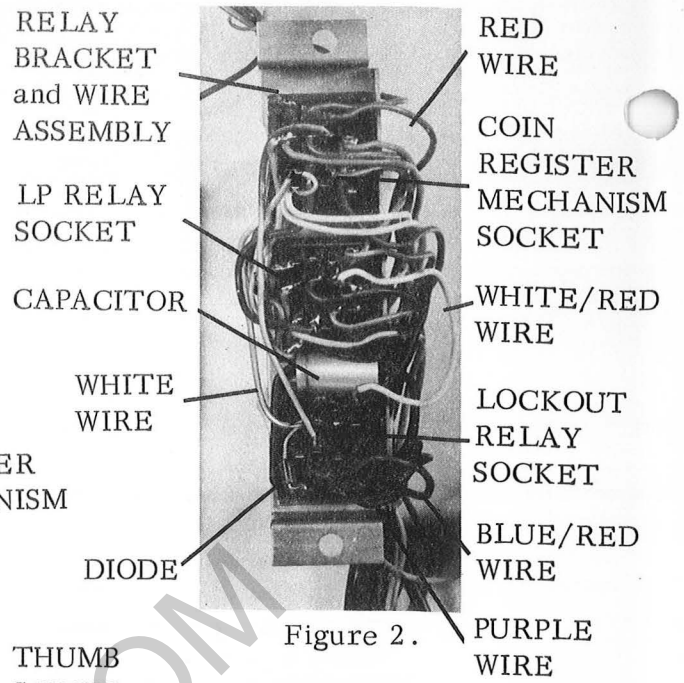


Figure 2.

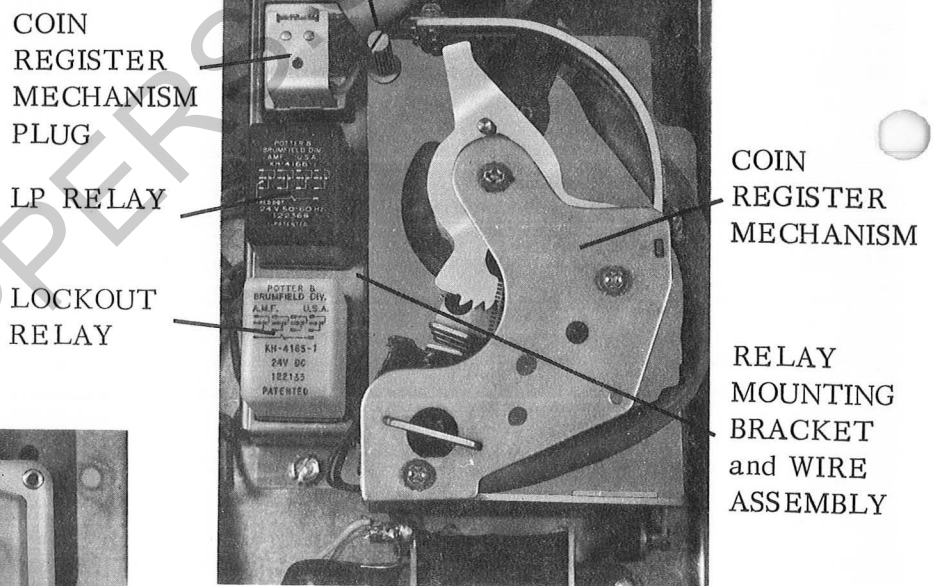


Figure 4.

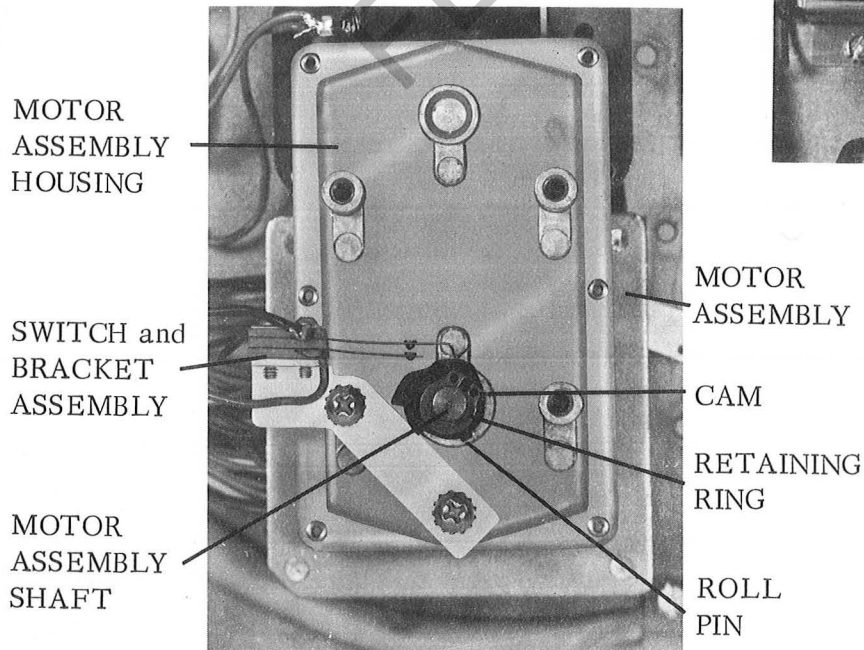


Figure 3.

8. Remove two screws securing RELAY MOUNTING BRACKET and WIRE ASSEMBLY, shown in Figure 1, to Selector Mechanism, then remove RELAY MOUNTING BRACKET and WIRE ASSEMBLY. Retain screws for reassembly.
9. Unsolder and disconnect White wire from Contact 13 of LOCKOUT RELAY SOCKET. Refer to Figure 2 for socket location.
10. Connect CAPACITOR, Part No. 76462-37, between Contacts 13 and 14 of LOCKOUT RELAY SOCKET (plus side of CAPACITOR to Contact 13) as shown in Figure 2. Do not solder at this time.
11. Connect DIODE, Part No. 76700-20, between Contacts 13 and 5 of LOCKOUT RELAY SOCKET (Cathode to Contact 13) as shown in Figure 2. Do not solder at this time.
12. Connect White wire, disconnected in Step 9, to Contact 5 of LOCKOUT RELAY SOCKET, as shown in Figure 2. Do not solder at this time.
13. Unsolder and disconnect the Blue/Red wire from Contact 8 of LP RELAY SOCKET. Refer to Figure 2. for socket location.
14. Connect Blue/Red wire, disconnected in Step 13, to Contact 12 of LOCKOUT RELAY SOCKET as shown in Figure 2. Do not solder at this time.
15. Connect three inch WHITE/RED WIRE, Part No. 75004-9, between Contact 8 of LP RELAY SOCKET and Contact 4 of LOCKOUT RELAY SOCKET as shown in Figure 2. Do not solder at this time.
16. Install ROLL PIN, Part No. 73782-32, in MOTOR ASSEMBLY SHAFT as shown in Figure 3.
17. Verify that MOTOR ASSEMBLY is in normal rest position then install CAM, Part No. 136524, on MOTOR ASSEMBLY SHAFT as shown in Figure 3.
18. Install RETAINING RING, Part No. 125797, on MOTOR ASSEMBLY SHAFT as shown in Figure 3.
19. Install and position SWITCH and BRACKET ASSEMBLY, Part No. 137884, on MOTOR ASSEMBLY HOUSING as shown in Figure 3. Secure SWITCH and BRACKET ASSEMBLY to MOTOR ASSEMBLY HOUSING with two Screws, Part No. 73533-25. Do not tighten screws at this time.
20. With V portion of switch blade resting on CAM as shown in Figure 3, adjust switch so that contacts are open .015" minimum. Tighten screw.
21. Manually rotate CAM until V portion of Switch blade drops off CAM. Switch should close with good wiping action.
22. Connect Red wire of SWITCH and BRACKET ASSEMBLY to Contact 2 of COIN REGISTER MECHANISM SOCKET as shown in Figure 2. Do not solder at this time.
23. Connect Purple wire of SWITCH and BRACKET ASSEMBLY to Contact 14 of LOCKOUT RELAY SOCKET as shown in Figure 2.
24. Solder all connections at this time.
25. Reinstall RELAY MOUNTING BRACKET and WIRE ASSEMBLY on Selector Mechanism Assembly as shown in Figure 4 and secure with two screws removed in Step 8.
26. Install new White LOCKOUT RELAY, Part No. 122133, in Lockout Relay Socket as shown in Figure 4.

27. Install Red LP RELAY, removed in Step 7, in LP Relay Socket as shown in Figure 4.
28. Reinstall Selector Mechanism Assembly in Satellite. Secure to rear of cabinet with three screws removed in Step 5.
29. Reinstall COIN REGISTER MECHANISM in Selector Mechanism Assembly. Secure with THUMB SCREW removed in Step 4 as shown in Figure 4.
30. Reconnect COIN REGISTER MECHANISM PLUG in Coin Register Mechanism Socket as shown in Figure 4.

Preparation For Operation

The Satellite is equipped with a low impedance stereophonic volume control. This control will provide a moderate sound level at the Satellite provided the cable run is not over fifty feet. To operate the Satellite at a high sound level, or in installations requiring a cable run in excess of fifty feet, this control may be aided with a Kit 213 Stereo Matching Transformer Unit, Part No. 135783. Installation Instructions are packed with the kit.

Twelve conductor cable (same as used for Wurlitzer Wall Boxes) should be used to connect the Satellite to the Phonograph Accessory Terminal Panel.

If Wall Boxes are to be used, DO NOT connect Wall Boxes to the Satellite cable. Separate cables must be used for the Satellite and the Wall Boxes. A Maximum of three Wall Boxes may be connected to the Phonograph Accessory Terminal Panel in parallel with the Satellite.

Connect the cable from the Satellite to the WALL BOX Terminal Strip, located on the Phonograph Accessory Terminal Panel, as follows:

NOTE

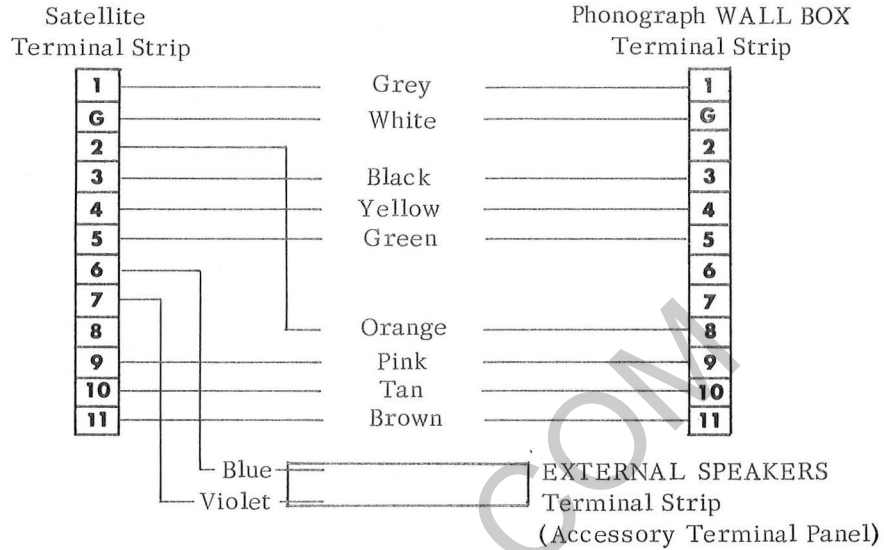
DO NOT connect the Blue and Violet wires from the Satellite cable to the Phonograph WALL BOX Terminals. Due to audio considerations, these wires from Terminals 6 and 7 of the Satellite must be connected to the EXTERNAL SPEAKERS Low Impedance Terminal Strip (located on the Phonograph Accessory Terminal Panel) in accordance with the limitations set forth on Page 5G of the Model 3500 Series Service Manual. The Satellite speakers should be considered as one 16 ohm speaker per channel as are the Phonograph speakers.

<u>Satellite Terminal No.</u>		<u>Phonograph WALL BOX Terminal No.</u>	<u>Wire Color</u>	<u>Wire Gauge</u>	<u>Function</u>
1	to	1	Grey	20	Pulse
G	to	G	White	16	Ground
2	to	8	Orange	22	Lockout Circuit
3	to	3	Black	16	24 Volts A.C.
4	to	4	Yellow	22	Speaker Ground
5	to	5	Green	22	Audio Relay Ground
6	See NOTE above.		Blue	22	Channel "B" Audio
7			Violet	22	Channel "A" Audio
9	to	9	Pink	22	10 Cents
10	to	10	Tan	22	25 Cents
11	to	11	Brown	22	50 Cents

Tape and stow both ends of Red wire.

NOTE

The Pink, Tan and Brown wires from Terminals 9, 10, and 11 are for Income Computer operation only. However, connecting these wires as outlined on Page 4 will in no way affect the operation of the Satellite/Phonograph. If an Income Computer has not been installed in the Phonograph, these wires may be taped and stowed.



Pricing

The standard factory setting of the Satellite is as follows:

- 2 credits for a quarter
- 5 credits for a half dollar or two consecutive quarters.

	Playrak Stop Lever Position
	25¢ 50¢
Quarter 2 Singles or 1 LP	2
Half Dollar or 2 Consecutive Quarters 5 Singles or 2 LP 1 LP + 2 Singles	5

A single selection may be made upon establishment of one or more credits. An Album selection may be made upon establishment of 2 or more credits.

One credit will be cancelled when a single selection is made. Three credits will be cancelled when an LP selection is made.

Optional Pricing

Pricing may be easily changed to other combinations. For example, to change pricing from factory setting to one credit for a dime or two nickels, three credits for a quarter, and seven credits for a half dollar or two consecutive quarters, proceed as follows:

- A. Verify that the Satellite line switch is in the OFF position.
- B. Remove the coin register mechanism from the Satellite.
- C. Reposition the 10¢, 25¢, and 50¢ stop levers to the 1, 3 and 7 credit positions.

- D. Establish three credits by manually actuating the 25¢ Lever, Hub and Stud Assembly .
- E. Loosen the LP CONTROL SWITCH ADJUSTING SCREW and reposition the LP CONTROL SWITCH to close with good wiping action .
- F. Manually cancel off one credit. The LP CONTROL SWITCH must open with .025" clearance between contacts . Tighten the LP CONTROL SWITCH ADJUSTING SCREW .
- G. Reinstall the coin register mechanism in the Satellite .
- H. Remove the nickel and dime return wire from the slug rejector .
- I. Replace the standard coin denomination and instruction label with the appropriate label found in the Satellite cash bag .

The Satellite pricing will now be as follows:

- 1 credit for a dime or two nickels .
- 3 credits for a quarter .
- 7 credits for a half dollar or two consecutive quarters .

	Playrak Stop Lever Position
	10¢ 25¢ 50¢
Dime or Two Nickels 1 Single	1
Quarter 3 Singles or 1 LP	3
Half Dollar or 2 Consecutive Quarters 7 Singles or 2 LP + 1 Single 1 LP + 4 Singles	7

LP Programming

Satellites are shipped from the factory with A and B selections set for LP Album play. All other selections are singles .

Various combinations of LP Album and single selection programming may be obtained by changing the position of the LP conversion switches . There are two LP conversion switches located on the selector switch assembly identified as to the selections each control. In the "ON" position the specified selections are LP's, and in the "OFF" position - singles .

COMPUTER OPERATION

Coins deposited in the Satellite will register on the Model 223 Income Computer, Part No. 137214, provided the Phonograph is so equipped .

SELECTOR SWITCH ASSEMBLY ADJUSTMENTS

See Wurlitzer 3500 Series Phonograph Service Manual.

SELECTOR MECHANISM ADJUSTMENTS

See Wurlitzer 5220 Series Wall Box Service Manual.

Cabinet Parts not Common with 3400 Series Phonographs

Front Panel	135524
Side Panel-Right	135452
Side Panel-Left	135453
Mtg. Bracket-Bottom-Back	135476
Base-Bottom	135469
Support Bracket-Bottom	135456
Cap-Glide	135567
Grille Screen	135602
Side-Machined Left	135526
Retainer-Inner Grille Extrusion	135569
Side-Machined Right	135525
Side Extrusion-Grille Right	135531
Side Extrusion-Grille Left	135530
Grille Frame-Lower Extrusion	135529
Mtg. Bracket-Latch Right	135562
Mtg. Bracket-Latch Left	135563
Mtg. Bracket-Back Right	135598
Mtg. Bracket-Back Left	135599
Speaker Mtg. Plate and Screw Assembly	135561
Mtg. Panel & Weld Screw Assembly (Service Door)	135536
Grille Plate Assembly (Service Door)	135557
Extrusion-Service Door (Top and Bottom)	135539
Extrusion-Service Door (Sides)	135540
Pin & Mtg. Bracket Assembly-Right	135581
Pin & Mtg. Bracket Assembly-Left	135580
Retainer	135730
Chain	135731
Side Extrusion-Door	129980
Casting-Door Frame-Upper	129808
Casting-Door Frame-Lower	135686
Extrusion-Frame Wurlitzer Glass	135473
Glass & Tape Assembly	135631
Support Bracket	135553
Clamp-Wurlitzer Glass-Side	135537
Light Diffuser & Tape Assembly	135633
Glass and Tape Assembly	130090
Glass Clamp (2)	130021
Glass Clamp-Front	129983
Display and Retainer Assembly	135619
Mounting Plate and Separator Assembly	135477
Mounting Plate	131647
Clamp-Upper (2)	131651
Clamp-Lower (2)	131652
Display	135616
Extrusion-Side (2)	131653
Extrusion-Top and Bottom (2)	131654
Glass and Tape Assembly	135737
Brace (2)	131658
Mtg. Plate & Actuator Assembly-Slug Rejector	135638
Coin Entry Chute Assembly	135673
Light Bracket	135573

Selector Switch Assembly Parts not Common with 3400 Series Phonographs

Light Shield	135545
Support Bracket-Retainer	135554
Mtg. Plate	135574
Support Bracket	135548
Spring-Service Door	135564
Reject Button	135579
Spring	135690
Retainer-Reject Button	135575
Light Box & Retainer Assembly	135692
Mtg. Bracket-Light Box	135683
Light Diffuser	135500
Window Blank	135516
Window Blank	135559
Coin Denomination & Select Label	135694
Capacitor 150 Mfd., 150 V	77403

Light Diffuser	135651
Light Diffuser (White)	135743
Switch-Letter	135636
Switch-Number	135635
Switch-Reset	135696
Stop Bracket	129494
Rectifier	76700-2
Plug & Wire Assembly	135653
Tubing	76914-17
Cable Clamp	73804-9
Cable Clamp	73804-6

Selector Mechanism Assembly Parts not Common with 5220 Series Wall Boxes

Base & Pin Assembly	135655
Cable & Contact Plate Assembly	135658
Mtg. Bracket & Socket Assembly	135660
Spacer (8-32)	130335
Spacer (6-32)	130358
Mtg. Bracket-Molex	135494
Capacitor-25 Mfd. - 50 V	76462-37
Cam	136524
Roll Pin	73782-32
Diode	76700-20
Switch and Bracket Assembly	137884
Relay-Lockout-White	122133

Slug Rejector Assembly Parts not Common with 3400 Series Phonographs

Coin Switch	134093
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WIRING DIAGRAM - MODEL 5134 - SATELLITE II

