SERVICE MANUAL and PARTS LIST

ROCK-OLA

Phonette Wall Box

MODEL 500
160 Selections

MODEL 501
100 Selections

ROCK-OLA MANUFACTURING CORPORATION
800 N. KEDZIE AVE., CHICAGO, ILL. 60651

■ PHONETTE SPEAKER OPERATION

Connect the Phonette audio leads to the 11 contact terminal block only. Set the Phonograph controls as shown below.

Stereo-Monaural switch to Stereo position.

Number of Phonette's used.	Main Stereo or Machine Speakers Power Switch position.	Machine speakers Pad position.
1 to 2	18 Watt	Adjust for desired balance of loudness between the Machine Speakers and Phonette Wall Box Speakers.
3 to 5	12 Watt	
6 to 8	8 Watt	
9 to 12	4 Watt	

The Model 501 Wall Box is designed to operate with a Rock-Ola 100 selection phonograph and Model 500 with a 160 selection phonograph. Both models are audio type and are operated on 24 volts, 60 cycle that is supplied from the signal generator in the Receiver Unit. The Program Lights and Select Lights are type #47 lamps, operated from the 6 volt tap on the Auto Transformer in the Wall Box. It requires a 11 wire cable to do the following:

1. Four (4) wires are required to supply power to the Wall Box. Two (2) of the four wires supply power to the Gear Motor, Auto Transformer, Relays and the Accumulator Check-Off Solenoid. The third wire is a over-lapping lock-out circuit from the Receiver to the Lock-Out Relay. The fourth wire in conjunction with one of the power circuit wires constitute the Signal circuit that keys the Receiver Unit.

2. Four (4) wires to operate the Wall Box Audio System. Three (3) of the wires operate the left and right channel wall box speakers. The fourth wire establishes a "locking" circuit from the phonograph to the Audio Control Relay in the Wall Box. This allows speakers to be ON in that particular wall box that is registering a selection. The wall box Volume Level is controlled by the customer thru the use of an external 3 Position Volume Control Switch.

3. The last three (3) wires are Coin counting circuits from the wall box to the Wall Box Adapter mounted in the Coin Counter Unit. (This equipment is optional.)

The wire inter-connecting cable should not be smaller than #18 gauge (for each wire) in order that the voltage drop from the phonograph to the wall boxes be kept to a minimum. Do not use excessively long lengths of cable (80 ft. max. for #18 gauge) and do not connect more than six wall boxes to any one length of cable.

The 25 volt signal transformer in the Receiver Unit is capable of supplying power to 12 Wall Boxes. Using more than this number of boxes may result in burning out the 3 Amp. Fustat on the Receiver Unit, or the prolonged heating of the transformer may cause it to fail.

The operation of the system requires intermittent pulsing of the Pulse relays in the receiver unit and is accomplished when the grounded Contact Wiper Arm on the wall box Gear Motor passes over the connected contacts on the Contact Biscuit Assembly. (Sequence Diagrams of the wall box operation are shown starting with Page 8.)

Pressed on the shaft of the gear motor is a Cam Cluster which is used to perform operations as follows:

1. The bottom cam operates the pushbutton switch Lock Bar.

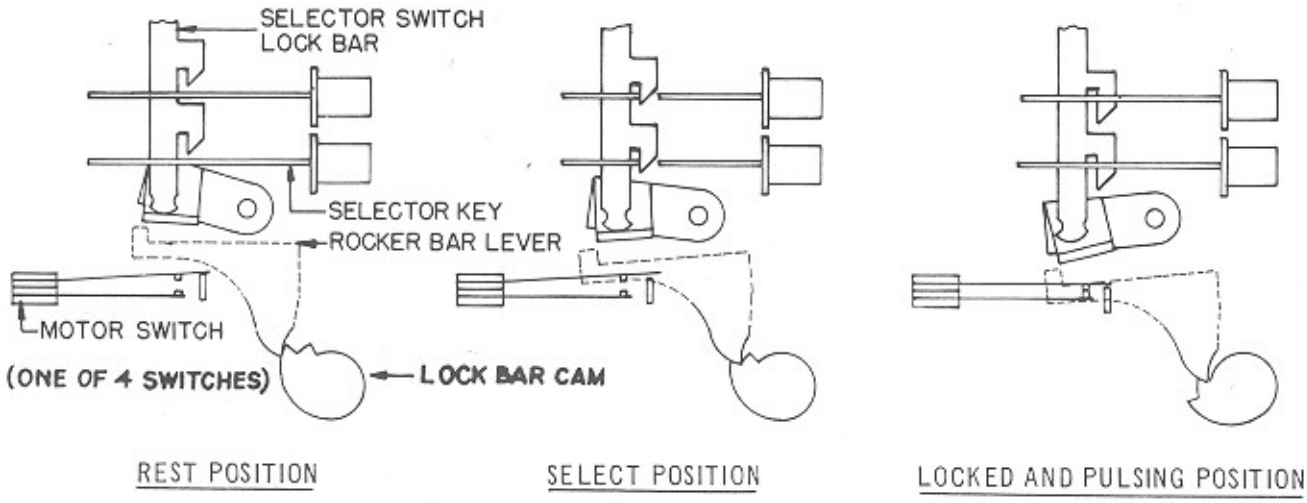


Figure 1

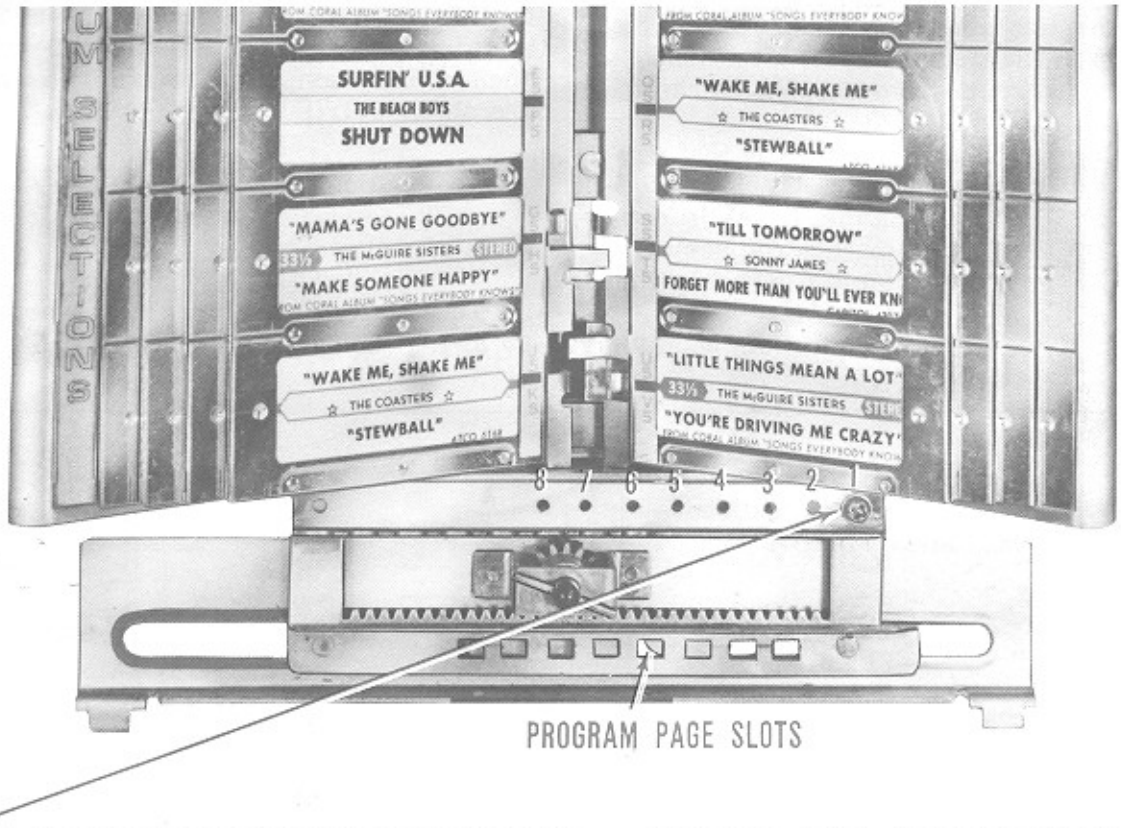
2. The center cam operates an Anti-Cheat Switch and four Motor Carry-over Switches. (See Fig. 3)

There are three important positions of the cam cluster for each cycle, namely, the Rest Position, Select Position, and the Locked and Pulsing Position. These positions are shown in Fig. 1.

At the Rest Position, in which no credits are established, the selector buttons are free to move in or out, because the lock bar cam is holding the selector lock bar switch up, thereby disengaging the selector keys. Likewise, the four motor cam switches are held open by the motor switch cam.

When a credit is established by a deposited coin, the circuit to the gear motor is completed through the accumulator switch contact and the grounded contact wiper. The contact wiper is then rotated away from the contact plate, thereby breaking the circuit to the gear motor. This is the Select Position. The rocker bar lever through the action of the lock bar cam on the cam cluster has lowered to the Select Position, moving the selector switch lock bar downward. This results in the selector button locking immediately upon being pressed.

As a pushbutton is pressed the circuit to the gear motor is again closed causing the lock bar to drop to its lowest position. This is the Locked and Pulse position. As the contact wiper rotates, a train of pulses corresponding to the selection made, are transmitted to the Receiver Unit. Simultaneously, a mechanical "page latch" is moved forward engaging the program page slot. (See Fig. 2) This action prevents pages being turned during the selection pulsing cycle.



NOTE: To accommodate Album selections (one record side for 25¢) for any page or pages, insert screw or screws into the threaded holes which correspond to the page or pages to be programmed with LP records.

Figure 2

In completing its cycle, the lock bar cam cluster allows the selector key to be released through the action of the rocker bar lever and selector switch lock bar. The switch lever, through the action of the motor switch cam of the cluster opens the circuit to the gear motor by means of the motor switch, which completes the cycle.

If only one credit was established the short contact wiper will come to rest on the contact plate and the cam cluster will resume its Rest Position. On the other hand, if more than one credit was established, the wiper will not rest on the contact plate, but will move past it and come to rest at the Select Position. The cycle will then again be repeated when a selector button is pressed.

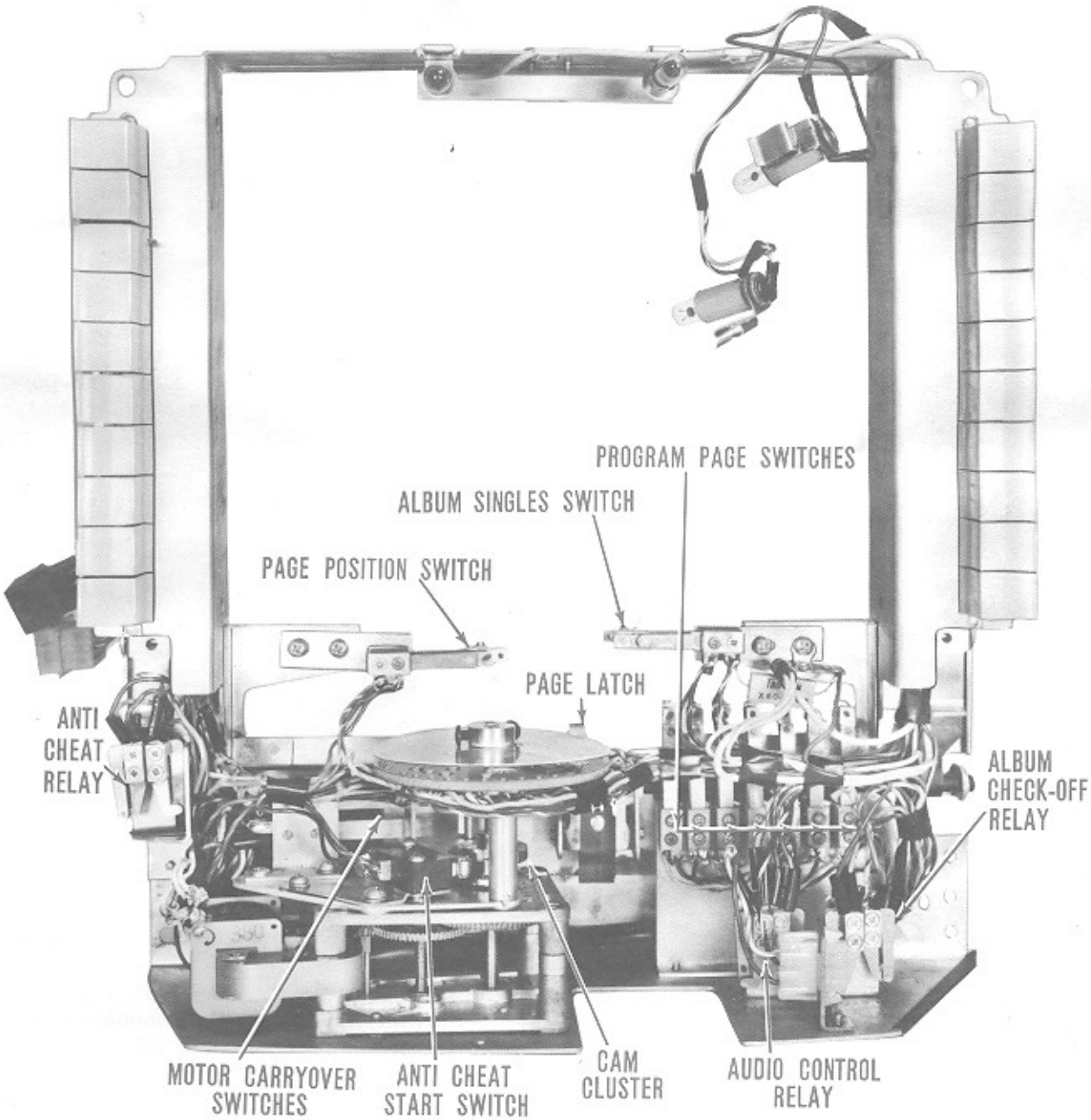


Figure 3

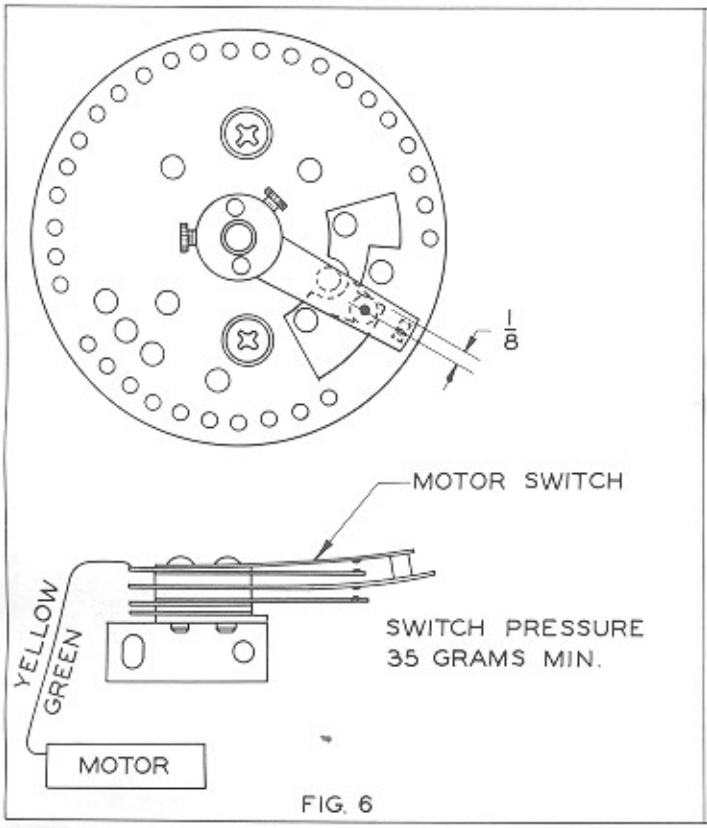


FIG. 6

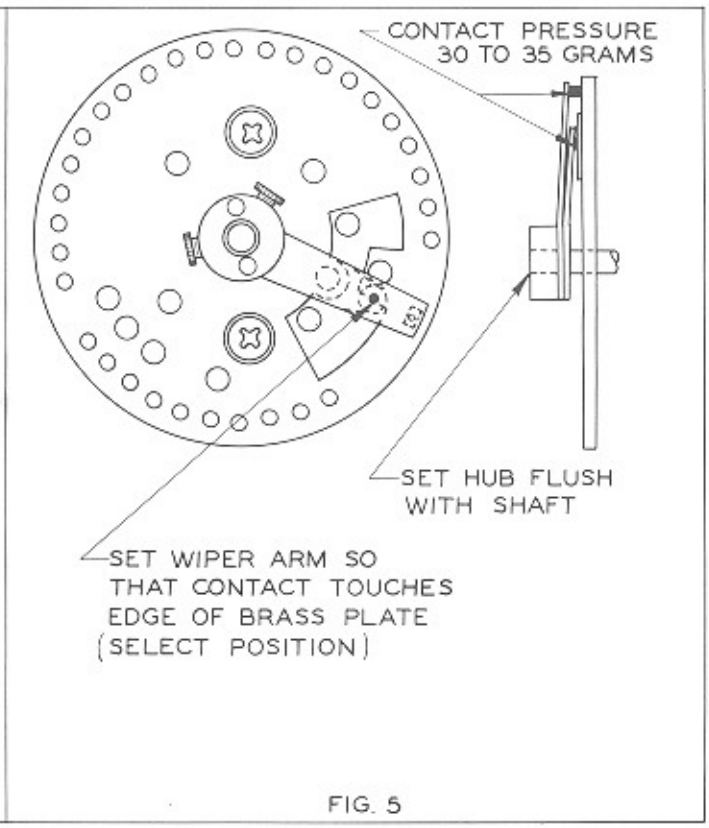


FIG. 5

■ GEAR MOTOR

The gear motor is designed to operate at a normal speed of 20 revolutions per minute. The acceptable speed tolerances are between 19 and 21 revolutions per minute. If the motor speed is slow, or fast, erratic selection will result. If there are no binds in the motor, and the gear train is free from dirt or foreign material, the gear motor must be replaced. Because of its construction, individual parts cannot be replaced.

The cam cluster of the gear motor should be lubricated with #105 Lubriplate, and the shaft bearings with a drop of S.A.E. 10 motor oil. Never lubricate the motor clutch mechanism.

The contacts of the contact disc assembly must not be lubricated. A lint-free cloth, saturated with carbon tetra-chloride can be used to clean the contact biscuit disc.

The #105 Lubriplate can also be used to lubricate the pivot points of the rocker bar lever, and the switch lever. To reduce friction, use #105 Lubriplate at the point where the rocker bar lever engages the selector switch lock bar.

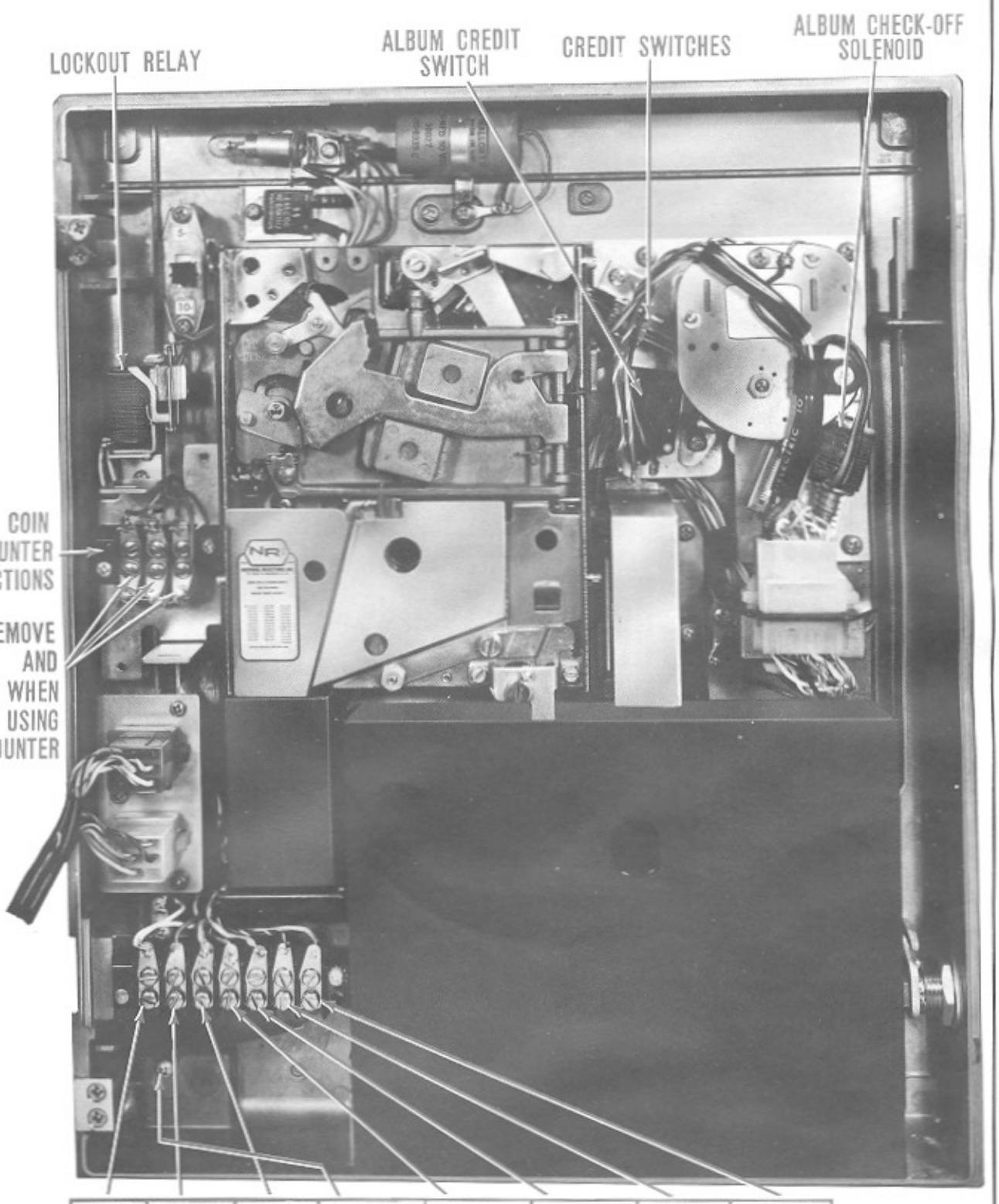
If it becomes necessary to re-position the contact wiper arm on the contact biscuit assembly, the following procedure is to be followed:

1. Turn the gear motor manually until the rocker bar lever falls into the first notch of the cam farthest away from the contact biscuit assembly. (See "Select Position" of Fig. 1.)

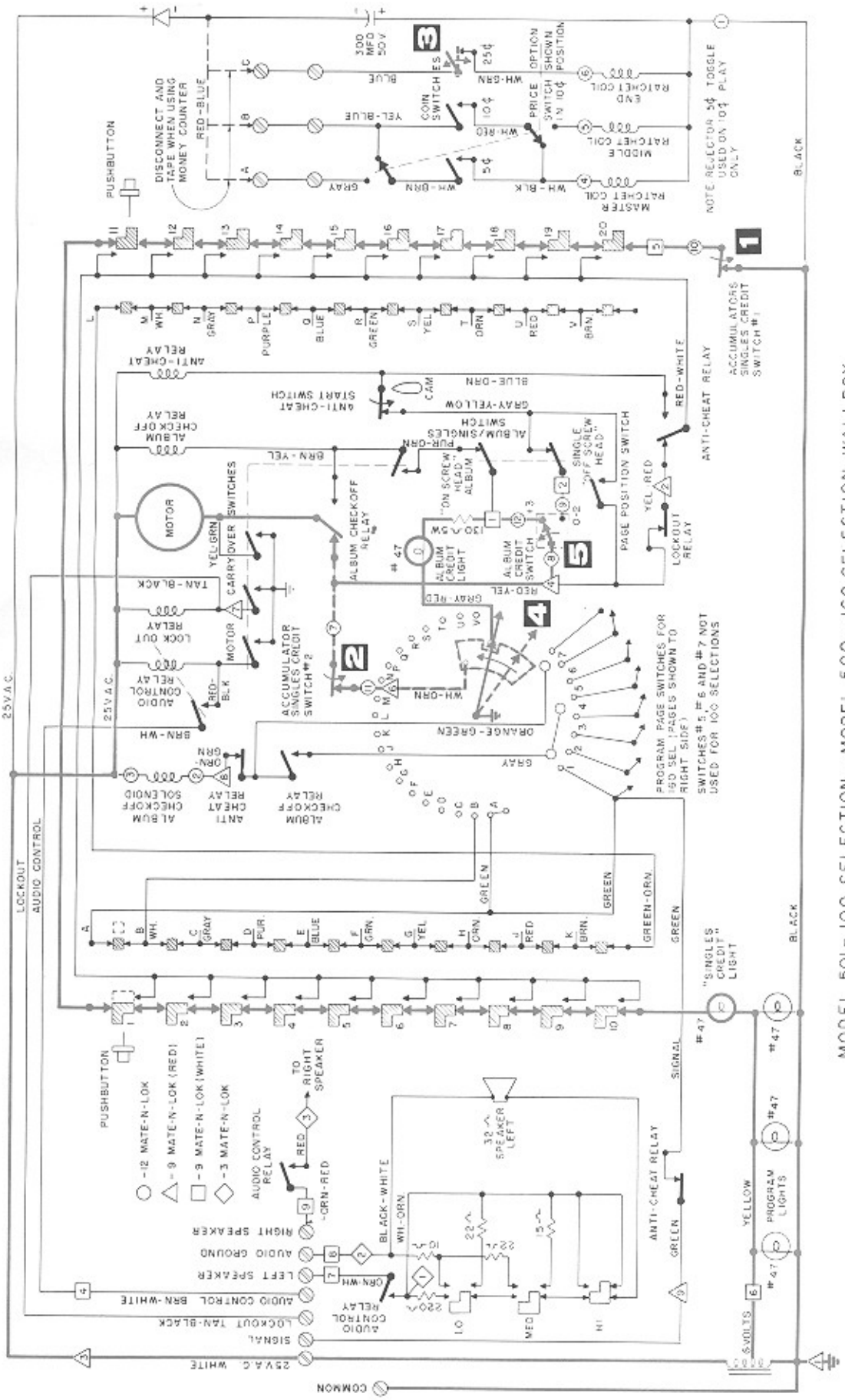
2. Set wiper arm on the gear motor shaft so that the center of the contact of the short wiper arm rests on the edge of the lower left side of the "U" position of the contact plate. Set hub flush with shaft. (See Fig. 5.)

3. Tighten the set screws in the collar of the contact wiper arm, and adjust the contact wiper arm pressure to approximately 40 grams on both contacts. (See Fig. 5.)

4. The motor switch pressure is 35 grams minimum. The switch should be adjusted to open when the center of the contact of the short wiper arm comes to rest about 1/8" before it reaches the edge of the lower left side of the "U" position of the brass contact plate. (See Fig. 6.)



25 V. A.C.	SIGNAL LINE	LOCK OUT RELAY	COMMON	AUDIO CONTROL RELAY	LEFT SPEAKER	AUDIO GROUND	RIGHT SPEAKER


MODEL 501 - 100 SELECTION - MODEL 500 - 160 SELECTION WALLBOX
COMMON
25V A.C. WHITE
SIGNAL
LOCKOUT TAN-BLACK
AUDIO CONTROL BRN-WHITE
LEFT SPEAKER
AUDIO GROUND
RIGHT SPEAKER
AUDIO CONTROL RELAY
ORN-WH
BLACK-WHITE
WH-ORN
32Ω SPEAKER LEFT
ANTI-CHEAT RELAY
SIGNAL
GREEN
YELLOW
PROGRAM LIGHTS
#47
6 VOLTS
LO
MED
HI
220Ω
22Ω
15Ω
10Ω
PUSHBUTTON
- 12 MATE-N-LOK
- 9 MATE-N-LOK (RED)
- 9 MATE-N-LOK (WHITE)
- 3 MATE-N-LOK
TO RIGHT SPEAKER
RED
ORN-RED
"SINGLES CREDIT" LIGHT
GREEN
GREEN-ORN
BLACK
LOCKOUT
AUDIO CONTROL
25V A.C.
ALBUM CHECKOFF SOLENOID
ANTI CHEAT RELAY
ALBUM CHECKOFF RELAY
BRN-WH
RED-BLK
ORN
GRAY
ORANGE-GREEN
PROGRAM PAGE SWITCHES FOR 160 SEL. (PAGES SHOWN TO RIGHT SIDE)
SWITCHES #5, #6 AND #7 NOT USED FOR 100 SELECTIONS
ACCUMULATOR SINGLES CREDIT SWITCH #2
AUDIO CONTROL RELAY
LOCK OUT RELAY
TAN-BLACK
CARRY OVER SWITCHES
MOTOR
YEL-GRN
ALBUM CHECKOFF RELAY
#47
ALBUM CREDIT LIGHT
ALBUM CREDIT SWITCH
130Ω 5W
RED-YEL
GRAY-RED
WH-ORN
ALBUM CHECK OFF RELAY
ANTI-CHEAT START SWITCH
CAM
BLUE-ORN
GRAY-YELLOW
ALBUM/SINGLES SWITCH
PUR-ORN
BRN-YEL
ON SCREW HEAD = ALBUM
SINGLE OFF SCREW HEAD
PAGE POSITION SWITCH
YEL-RED
LOCKOUT RELAY
ANTI-CHEAT RELAY
RED-WHITE
ACCUMULATORS SINGLES CREDIT SWITCH #1
BLACK
NOTE: SELECTOR 5¢ TOGGLE USED ON 10¢ PLAY
MASTER RATCHET COIL
WH-BLK
WH-ORN
5¢
MIDDLE RATCHET COIL
WH-RED
10¢
END RATCHET COIL
WH-GRN
25¢
PRICE OPTION SWITCH SHOWN IN 10¢ POSITION
COIN SWITCH
YEL-BLUE
GRAY
BLUE
DISCONNECT AND TAPE WHEN USING MONEY COUNTER
RED-BLUE
PUSHBUTTON
300 MFD 50V
1
2
3
4
5

■ SEQUENCE NO. 1—25c COIN DROPPED

After the coin passes through the slug rejector, the 25¢ coin switch No. 3 is pulsed, closing circuit to the proper electro magnet in the accumulator. This allows the master ratchet to escape three teeth. Each tooth represents a "single" play. The released ratchet will:

(a) Close accumulator Credit Switches No. 1 and No. 2 and,

(b) actuate the Album Credit Switch No. 5 to a "3 or more" credit position.

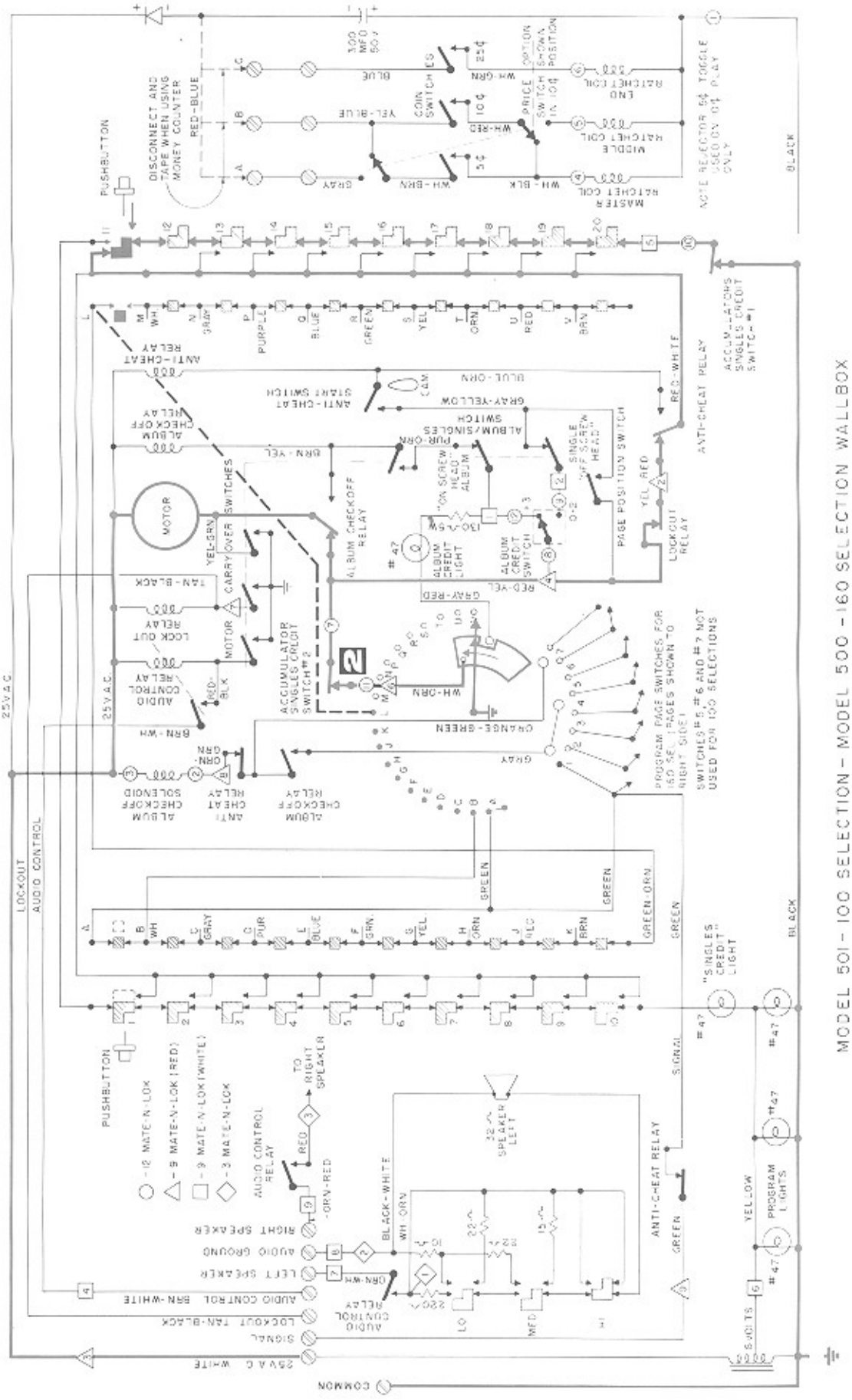
Accumulator Credit Switch No. 1 completes a circuit to the "Single Credit" light through the pushbuttons' switches.

Accumulator Credit Switch No. 2 completes a circuit to the gear motor through the grounded Wiper Contact No. 4.

The Wiper is rotated away from the Contact Plate to the notched portion, thereby breaking the circuit to the motor. This is the Select Position and allows the Selector Button to lock immediately upon being pressed.

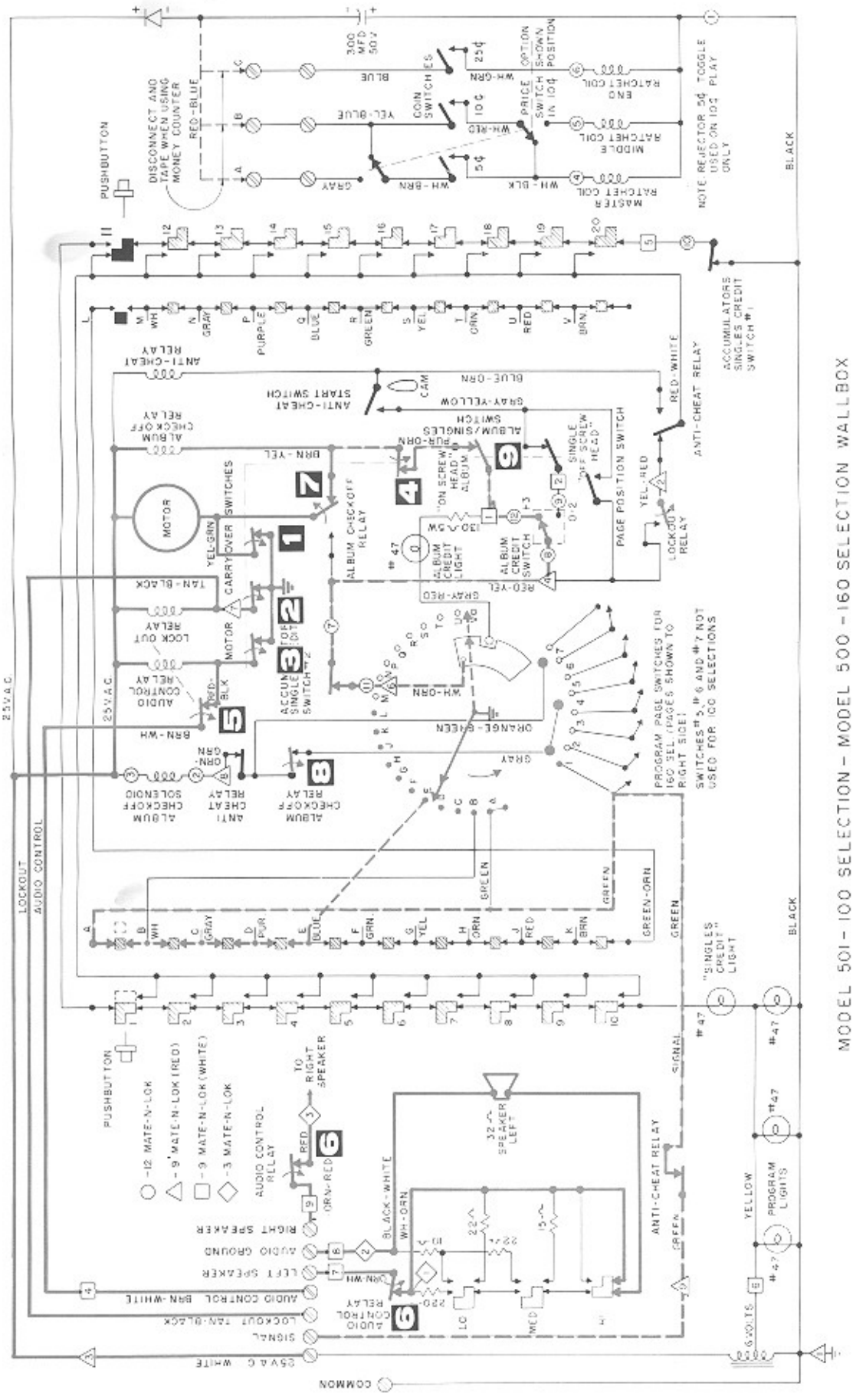
The Wiper in the notch contacts the Album Credit Light Rivet which completes a circuit to the lamp through the Album Credit Switch No. 5.

The customer can now make one Album Selection or three Single Selections.


MODEL 501 - 100 SELECTION - MODEL 500 - 160 SELECTION WALLBOX
DISCONNECT AND TAPE WHEN USING MONEY COUNTER
RED-BLUE
PUSHBUTTON
300 MFD 50V
COIN SWITCH ES
25¢
10¢
5¢
PRICE SWITCH SHOWN IN 10¢ POSITION
MASTER RATCHET COIL
MIDDLE RATCHET COIL
END RATCHET COIL
VOLUME REJECTOR 5¢ TOGGLE USED ON 10¢ PLAY ONLY
BLACK
ANTI-CHEAT RELAY
ANTI-CHEAT START SWITCH
CAM
ALBUM CHECK OFF RELAY
ALBUM/SINGLES SWITCH
SINGLE "PIP SCREW HEAD" ALBUM
"ON SCREW HEAD" ALBUM
ALBUM CHECKOFF RELAY
ALBUM CREDIT LIGHT
ALBUM CREDIT SWITCH
PAGE POSITION SWITCH
LOCKOUT RELAY
ANTI-CHEAT RELAY
ACCUMULATIONS SINGLES CREDIT SWITCH #1
MOTOR
SWITCHES
YEL-GRN
CARRYOVER
TAN-BLACK
LOCK OUT RELAY
AUDIO CONTROL RELAY
RED-BLK
BRN-WH
ACCUMULATOR SINGLES CREDIT SWITCH #2
ORANGE-GREEN
GRAY
PROGRAM PAGE SWITCHES FOR 160 SELECTIONS SHOWN TO RIGHT SIDE)
SWITCHES #5, #6 AND #7 NOT USED FOR 100 SELECTIONS
ALBUM CHECKOFF SOLENOID
ANTI CHEAT RELAY
ALBUM CHECKOFF RELAY
25VAC
LOCKOUT
AUDIO CONTROL
"SINGLES CREDIT" LIGHT
PUSHBUTTON
-12 MATE-N-LOK
-9 MATE-N-LOK (RED)
-9 MATE-N-LOK (WHITE)
-3 MATE-N-LOK
AUDIO CONTROL RELAY
TO RIGHT SPEAKER
RED
-ORN-RED
RIGHT SPEAKER
AUDIO GROUND
LEFT SPEAKER
AUDIO CONTROL BRN-WHITE
LOCKOUT TAN-BLACK
SIGNAL
25VAC WHITE
COMMON
BLACK-WHITE
WH-ORN
32Ω SPEAKER LEFT
ANTI-CHEAT RELAY
GREEN
YELLOW
PROGRAM LIGHTS
#47
S.GRN.
SWITCHES

■ SEQUENCE NO. 2—ALBUM RECORD SELECTED (EXAMPLE—NO. 11)

When the push button is pressed, the circuit to the gear motor is closed through the center contacts of the PB switches. The Wiper rotates across the brass plate, connecting a momentary holding circuit to the motor through the Accumulator Credit Switch No. 2. Simultaneously, the PB Lock Bar drops to its lowest position, locking the selected button and Program Pages. This is the Locked and Pulsing Position.


MODEL 501-100 SELECTION - MODEL 500-160 SELECTION WALLBOX
25V A.C.
LOCKOUT
AUDIO CONTROL
COMMON
PUSHBUTTON
DISCONNECT AND TAPE WHEN USING MONEY COUNTER
RED-BLUE
300 MFD 50V
COIN SWITCHES
25¢
10¢
5¢
PRICE SWITCH SHOWN IN 10¢ POSITION
OPTION
MASTER RATCHET COIL
MIDDLE RATCHET COIL
END RATCHET COIL
NOTE: REJECTOR 5¢ TOGGLE USED ON 10¢ PLAY ONLY
ACCUMULATORS SINGLES CREDIT SWITCH #1
ANTI-CHEAT RELAY
ANTI-CHEAT START SWITCH
CAM
ALBUM CHECKOFF RELAY
ALBUM/SINGLES SWITCH
"ON SCREW HEAD" ALBUM
"OFF SCREW HEAD" SINGLE
PAGE POSITION SWITCH
LOCK OUT RELAY
ALBUM CREDIT LIGHT
ALBUM CREDIT SWITCH
MOTOR
CARRY OVER SWITCHES
TOP OF 1ST
ACCUM SINGLE SWITCH #2
AUDIO CONTROL RELAY
ALBUM CHECKOFF RELAY
ANTI CHEAT RELAY
ALBUM CHECKOFF SOLENOID
PROGRAM PAGE SWITCHES FOR 160 SEL (PAGES SHOWN TO RIGHT SIDE)
SWITCHES #5, #6 AND #7 NOT USED FOR 100 SELECTIONS
"SINGLES CREDIT LIGHT
PROGRAM LIGHTS
SIGNAL
6 VOLTS
#47
12 MATE-N-LOK
9 MATE-N-LOK (RED)
9 MATE-N-LOK (WHITE)
3 MATE-N-LOK
TO RIGHT SPEAKER
32Ω SPEAKER LEFT
RIGHT SPEAKER
AUDIO GROUND
LEFT SPEAKER
AUDIO CONTROL BRN-WHITE
LOCKOUT TAN-BLACK
SIGNAL
25V A.C. WHITE
ANTI-CHEAT RELAY
LO
MED
HI
BLACK
GREEN
YELLOW
RED-WHITE
BLUE-ORN
GRAY-YELLOW
PUR-ORN
BRN-YEL
YEL-GRN
TAN-BLACK
RED-BLK
BRN-WH
ORN-GRN
ORANGE-GREEN
WH-ORN
GRAY-RED
RED-YEL
YEL-RED
BLACK-WHITE
ORN-RED
GRN-WH
GREEN-ORN
WH-GRN
WH-RED
WH-BRN
WH-BLK
YEL-BLUE
RED-BLUE
BLUE
GRAY
WH
GRAY
PURPLE
BLUE
GREEN
YEL
ORN
RED
BRN

■ SEQUENCE NO. 3—FIRST TRAIN OF PULSES START—WALLBOX SPEAKERS OPERATE

The rotating motor causes the center cam on the cam cluster to close four (4) Motor Carry-Over Switches. Their function is as follows:

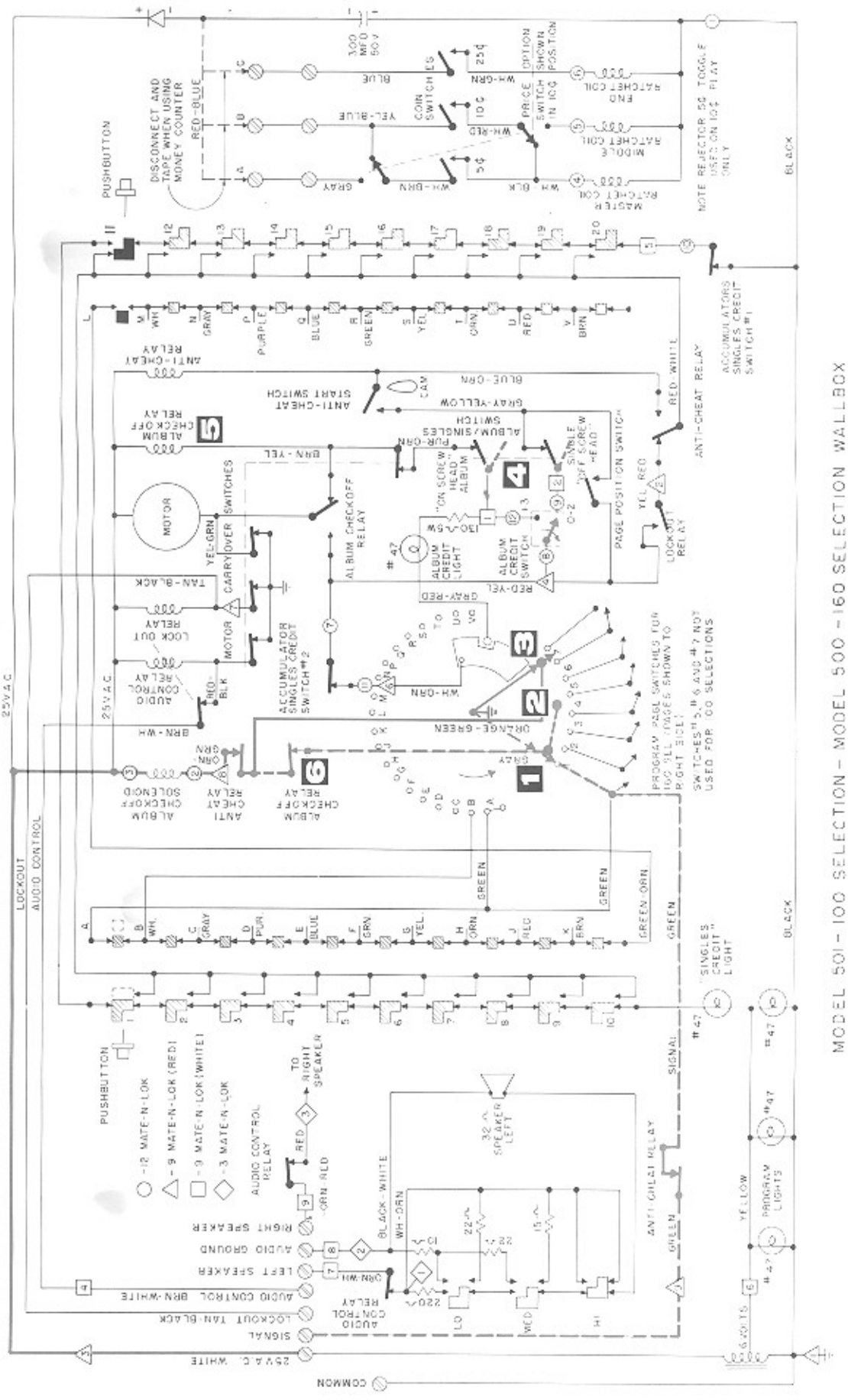
Switch No. 1 is a motor holding circuit which provides for a complete revolution.

Switch No. 2 completes a circuit to every Wall Box Lock-Out Relay in the system. This "holds" all Wall Box selections in abeyance except the one that is in operation until the receiver and write-in system have registered a selector lever.

Switch No. 3 operates the Audio Control Relay which will connect audio circuits to the wall box speakers through the closed audio control relay contacts No. 6. Contact No. 5 connects holding circuit to the audio control line from the phonograph.

Switch No. 4 energizes the Album Check-Off Relay through Album/Singles Credit Switch No. 9, which "locks up" through its own transferred relay contact No. 7. Closed contact No. 8 connects accumulator check-off circuits to the disc contacts.

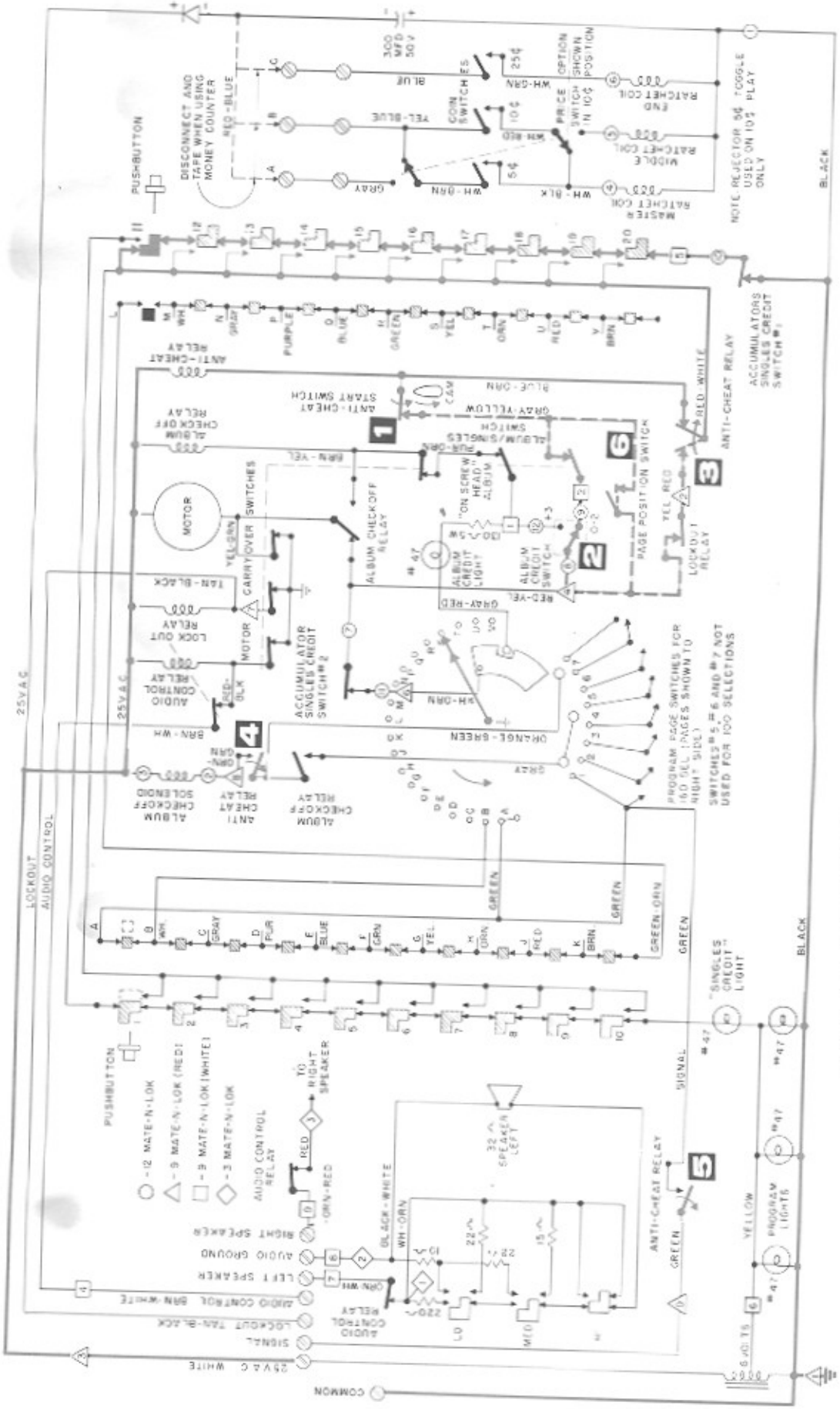
NOTE: If the phonograph is in a Music Cycle during the time the Wall Box is registering a selection, the audio system to that wall box will be connected for the duration of all selections registered on the phonograph selector.


MODEL 501 - 100 SELECTION - MODEL 500 - 160 SELECTION WALLBOX
PUSHBUTTON
DISCONNECT AND TAPE WHEN USING MONEY COUNTER
RED-BLUE
300 MFD 50V
BLUE
YEL-BLUE
GRAY
COIN SWITCHES
25¢
10¢
5¢
WH-ORN
WH-RED
WH-BRN
WH-BLK
PRICE SWITCH IN 10¢
OPTION SHOWN POSITION
MASTER RATCHET COIL
MIDDLE RATCHET COIL
END RATCHET COIL
NOTE REJECTOR 5¢ TOGGLE USED ON 10¢ PLAY ONLY
BLACK
ACCUMULATORS SINGLES CREDIT SWITCH #1
ANTI-CHEAT RELAY
RED-WHITE
BLUE-ORN
GRAY-YELLOW
ANTI-CHEAT START SWITCH
CAM
ALBUM/SINGLES SWITCH
PUR-ORN
SINGLE "OFF SCREW HEAD" ALBUM
ON SCREW HEAD" ALBUM
PAGE POSITION SWITCH
YEL-RED
LOCKOUT RELAY
ALBUM CHECK OFF RELAY
BRN-YEL
MOTOR
YEL-GRN
CARRYOVER SWITCHES
ALBUM CREDIT LIGHT
#47
130Ω 5W
ALBUM CREDIT SWITCH
RED-YEL
GRAY-RED
ALBUM CHECKOFF RELAY
ANTI-CHEAT RELAY
ALBUM CHECKOFF SOLENOID
ACCUMULATOR SINGLES CREDIT #2
TAN-BLACK
LOCK OUT RELAY
AUDIO CONTROL RELAY
RED-BLK
BRN-WH
ORN
WH-ORN
ORANGE-GREEN
GRAY
PROGRAM PAGE SWITCHES FOR 160 SELECTIONS SHOWN TO RIGHT SIDE
SWITCHES #5 & #6 AND #7 NOT USED FOR 100 SELECTIONS
25V A.C.
LOCKOUT
AUDIO CONTROL
GREEN
GREEN-ORN
BLACK
SINGLES CREDIT LIGHT
PUSHBUTTON
-12 MATE-N-LOK
-9 MATE-N-LOK (RED)
-9 MATE-N-LOK (WHITE)
-3 MATE-N-LOK
AUDIO CONTROL RELAY
TO RIGHT SPEAKER
RED
ORN-RED
32Ω SPEAKER LEFT
SIGNAL
ANTI-CHEAT RELAY
BLACK-WHITE
WH-ORN
ORN-WH
RIGHT SPEAKER
AUDIO GROUND
LEFT SPEAKER
AUDIO CONTROL BRN-WHITE
LOCKOUT TAN-BLACK
SIGNAL
25V A.C. WHITE
COMMON
10Ω
22Ω
15Ω
220Ω
AUDIO CONTROL RELAY
LO
MED
HI
YELLOW
PROGRAM LIGHTS
6 VOLTS

■ SEQUENCE NO. 4—SECOND PULSE TRAIN BEGINS—3 CREDITS REMOVED FROM ACCUMULATOR

During the second pulse interval, the inner wiper strikes contacts No. 1, No. 2, and No. 3. Each contact provides a pulse to the Album Check-Off Solenoid, thereby removing three credits from the Accumulator. At the same time, the Album Credit Switch is reset to "Singles" play only. The cycle is completed when the Wiper Arm comes to rest on the notched plate.

NOTE: In the event a "Singles" record had been selected, the Album/Singles Switch No. 4 would be off the "screw head". This disconnects the circuit to the Album Check-Off Relay No. 5, allowing relay contact No. 6 to remain open. The Album Check-Off Solenoid would now operate once through disc contact No. 3, removing only one credit from the accumulator.


MODEL 501 - 100 SELECTION - MODEL 500 - 160 SELECTION WALLBOX
PUSHBUTTON
DISCONNECT AND TAPE WHEN USING MONEY COUNTER
RED - BLUE
300 MFD 50 V
BLUE
COIN SWITCHES
25¢
10¢
5¢
OPTION SHOWN POSITION
PRICE SWITCH IN 10¢
WH-GRN
YEL-BLUE
WH-RED
GRAY
WH-BLK
MASTER RATCHET COIL
MIDDLE RATCHET COIL
END RATCHET COIL
NOTE: REJECTOR 5¢ TOGGLE USED ON 10¢ PLAY ONLY
BLACK
ACCUMULATORS SINGLES CREDIT SWITCH #1
ANTI-CHEAT RELAY
RED-WHITE
ANTI-CHEAT START SWITCH
BLUE-ORN
GRAY-YELLOW
ALBUM/SINGLES SWITCH
PUR-ORN
ALBUM CHECK OFF RELAY
BRN-YEL
MOTOR
SWITCHES
YEL-GRN
CARRYOVER
ALBUM CHECKOFF RELAY
ON SCREW HEAD ALBUM
5W
ALBUM CREDIT LIGHT
ALBUM CREDIT SWITCH
RED-YEL
PAGE POSITION SWITCH
YEL-RED
LOCKOUT RELAY
GRAY-RED
TAN-BLACK
LOCK OUT RELAY
AUDIO CONTROL RELAY
RED-BLK
ACCUMULATOR SINGLES CREDIT SWITCH #2
BRN-WH
ORANGE-GREEN
PROGRAM PAGE SWITCHES FOR 160 SELECTIONS SHOWN TO RIGHT SIDE)
SWITCHES #5, #6 AND #7 NOT USED FOR 100 SELECTIONS
ORN-GRN
ALBUM CHECKOFF SOLENOID
ANTI CHEAT RELAY
ALBUM CHECKOFF RELAY
GREEN
GREEN-ORN
"SINGLES CREDIT" LIGHT
SIGNAL
#47
PUSHBUTTON
-12 MATE-N-LOK
-9 MATE-N-LOK (RED)
-8 MATE-N-LOK (WHITE)
-3 MATE-N-LOK
TO RIGHT SPEAKER
AUDIO CONTROL RELAY
RED
ORN-RED
32Ω SPEAKER LEFT
ANTI-CHEAT RELAY
YELLOW
PROGRAM LIGHTS
BLACK-WHITE
WH-ORN
22Ω
15Ω
220Ω
RIGHT SPEAKER
AUDIO GROUND
LEFT SPEAKER
AUDIO CONTROL BRN-WHITE
LOCKOUT TAN-BLACK
SIGNAL
25VAC WHITE
COMMON
AUDIO CONTROL
LOCKOUT
25VAC
25VAC

■ SEQUENCE NO. 5—LESS THAN 3 CREDITS ESTABLISHED—ALBUM SELECTION MADE

To play an Album selection, the electrical circuits require that the Album Credit Switch No. 2 must be transferred whenever three or more credits are established on the Accumulator. If less than three credits are registered, the Album Credit Switch will remain in a "Singles" credit position only.

Any Album selection now made will energize the Anti-Cheat Relay through the cam operated Anti-Cheat Start Switch No. 1. (This will cause a "dry run" to occur, the object of which is to release the depressed PB without removing credit or entering a selection in the phonograph. The energized Anti-Cheat Relay will transfer contacts No. 3, No. 4, and No. 5.

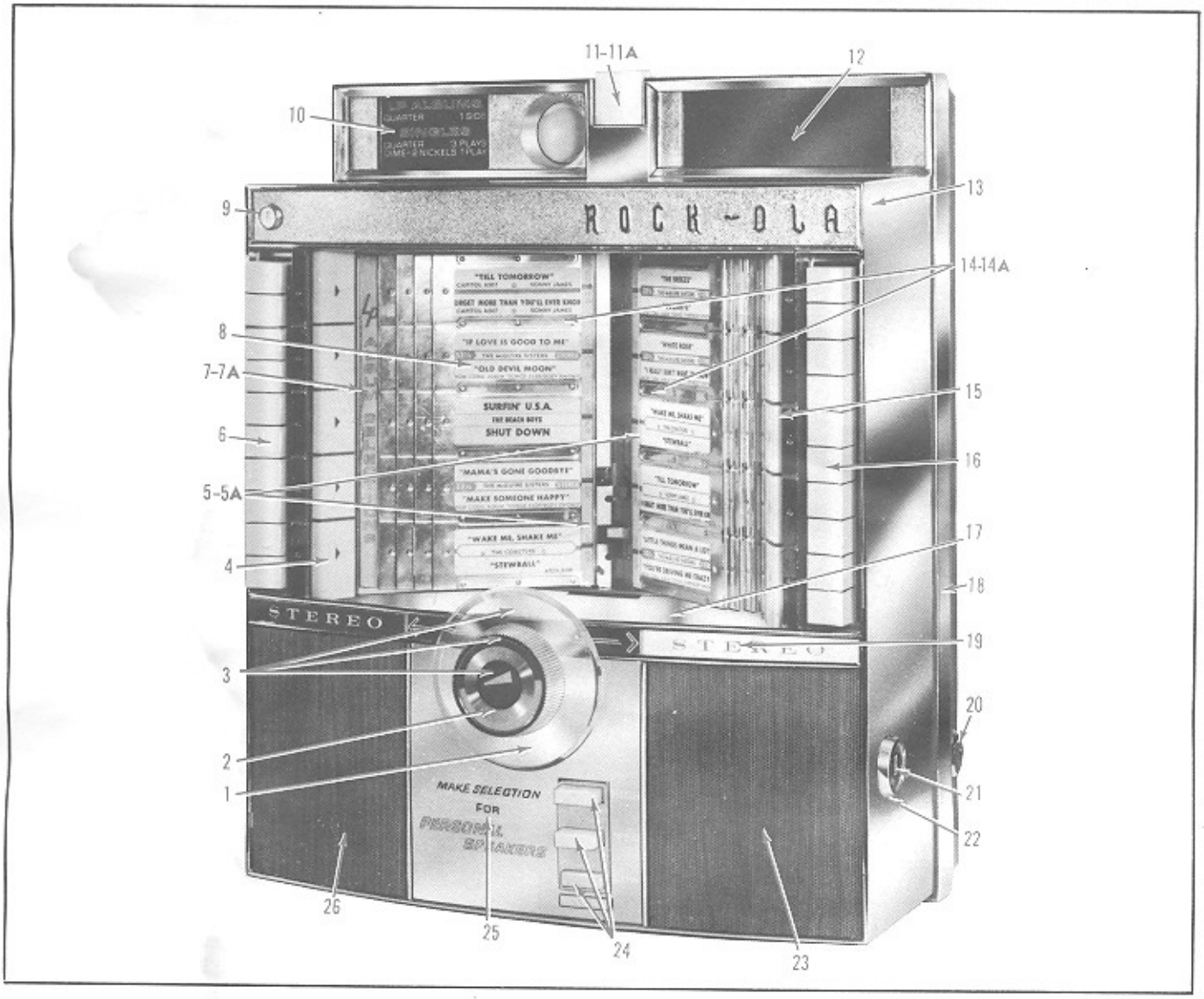
Switch No. 3 becomes a holding circuit to the anti-cheat relay for the duration of the motor rotation.

Switch No. 4 disconnects the credit check-off circuit from the disc to the check-off solenoid to prevent the removal of credits from the Accumulator.

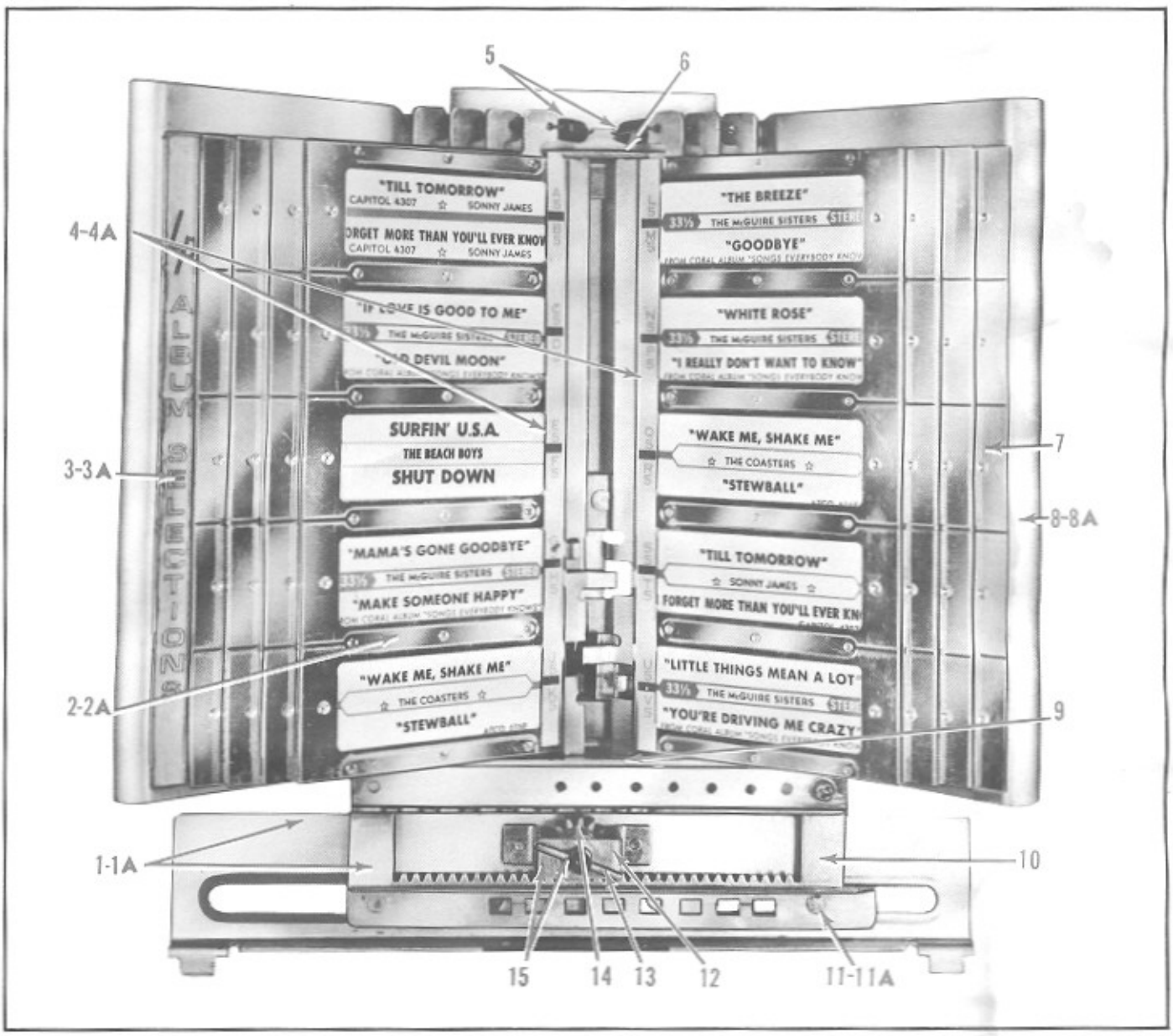
Open Switch No. 5 disconnects pulsing circuits to the Receiver during the Wiper rotation on the disc.

After completion of the motor rotation, the depressed push button is released. The customer may now add coins to re-select an Album selection or make "Singles" selections.

NOTE: The above cycle also prevails if the customer makes a selection while the Program Pages are not in a flat position. The position of the page determines whether the Page Position Switch No. 6 is closed or open. If closed, the Anti-Cheat Relay will operate, thus preventing the customer from receiving a wrong selection.

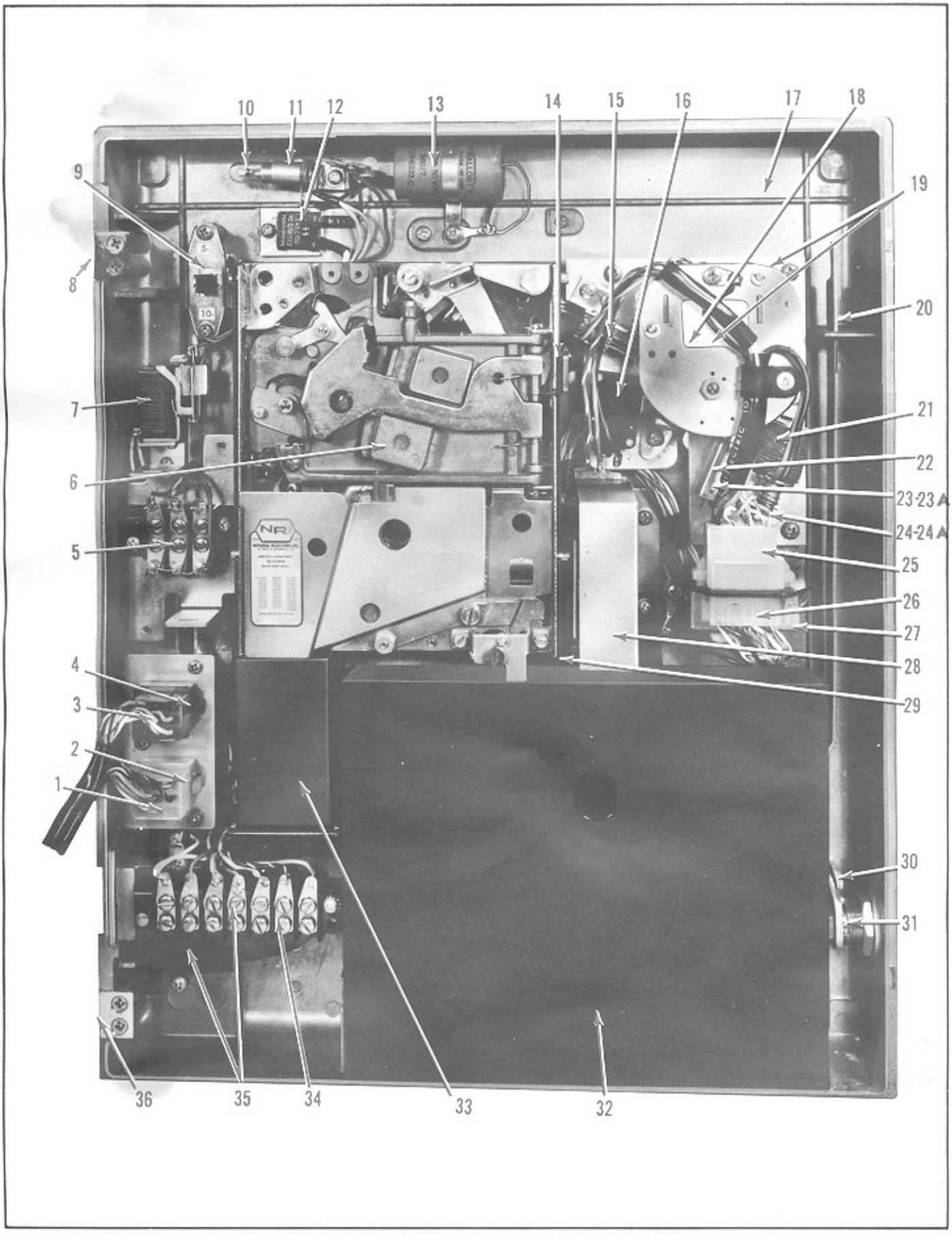


Item	Part No.	Description	Item	Part No.	Description
1	37052-2	Program Knob Disc	13	37562	Wall Box Front
2	37586	Program Knob Insert	14	37655-A	Program Holder Assembly (160 Selection)
3	37650-A	Program Knob & Disc Assembly			
4	37003-2	Glass Extrusion (L.H.)	14A	37730A	Program Holder Assembly (100 Selection)
5	37577	Index Tab (160 Selection)			
5A	37576	Index Tab (100 Selection)	15	37002-2	Glass Extrusion (R.H.)
6	37048	Key Switch Button	16	37048	Key Switch Button
7	37578	Album Indicator Strip	17	37705-A	Bottom Dress Plate Assembly
7A	37644	Single Indicator Strip (Not Shown)	18	37563	Wall Box Back
			19	37589	Stereo Insert
8	37050	Wall Box Window	20	ST-7416	Lock & Key
9	37588	Top Emblem Insert	21	37587	Side Emblem Insert
10	37608	Pricing Window	22	37009	Side Emblem
11	37058	Reject Button W/Shaft	23	37639	Speaker Grille (R.H.)
11A	37054	Reject Button Return Spring (Not Shown)	24	37580	Volume Control Button
			25	37585	Center Front Panel
12	37606	Select Glass	26	37640	Speaker Grille (L.H.)



NO. 37730-A PROGRAM HOLDER ASSEMBLY (100 SELECTION)
NO. 37655-A PROGRAM HOLDER ASSEMBLY (160 SELECTION)

Item	Part No.	Description	Item	Part No.	Description
1	37729-A	Back Plate & Slider Assembly (100)	8	37657-A	Back Plate Assembly (Only) (160)
1A	37656-A	Back Plate & Slider Assembly (160)	8A	37728-A	Back Plate Assembly (Only) (100)
2	37660-A	Program Leaf Assembly (Even)	9	37029	Page Support Bracket
2A	37661-A	Program Leaf Assembly (Odd)	10	37658-A	Slider Assembly
3	37578	Album Indicator Strip	11	37552	Slider Stud
3A	37644	Single Indicator Strip (Not Shown)	11A	37026	Slider Spacer (Not Shown)
4	37576	Index Tab (100)	12	37536	Guide Bracket
4A	37577	Index Tab (160)	13	37074	Clutch Engagement Pin
5	37672	Page Spring	14	37024	Slider Gear & Shaft
6	37030	Upper Page Bracket	15	37659-A	Slider Gear & Bracket Assembly
7	37161-A	Program Spacer Plate Assembly (100)			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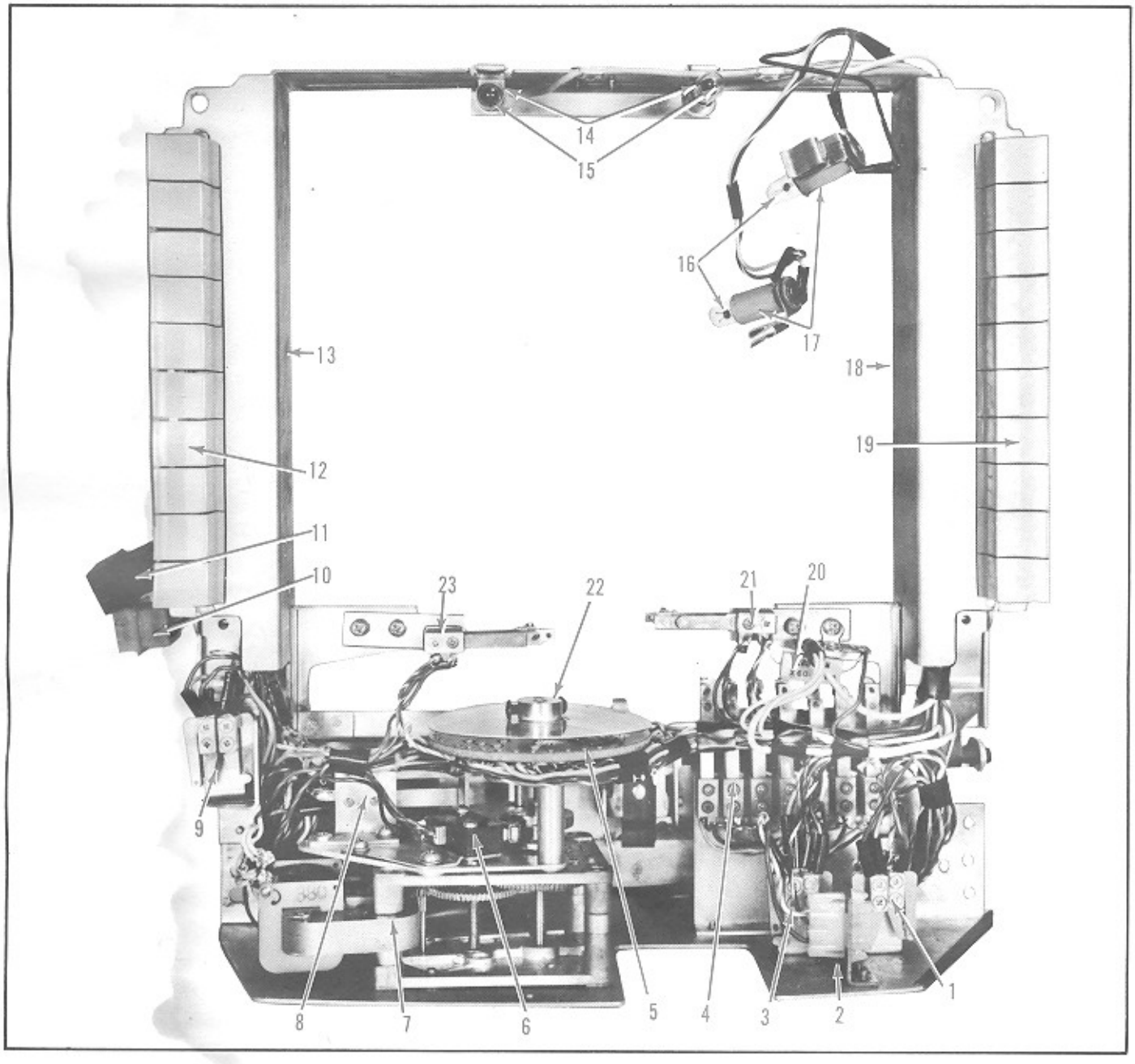
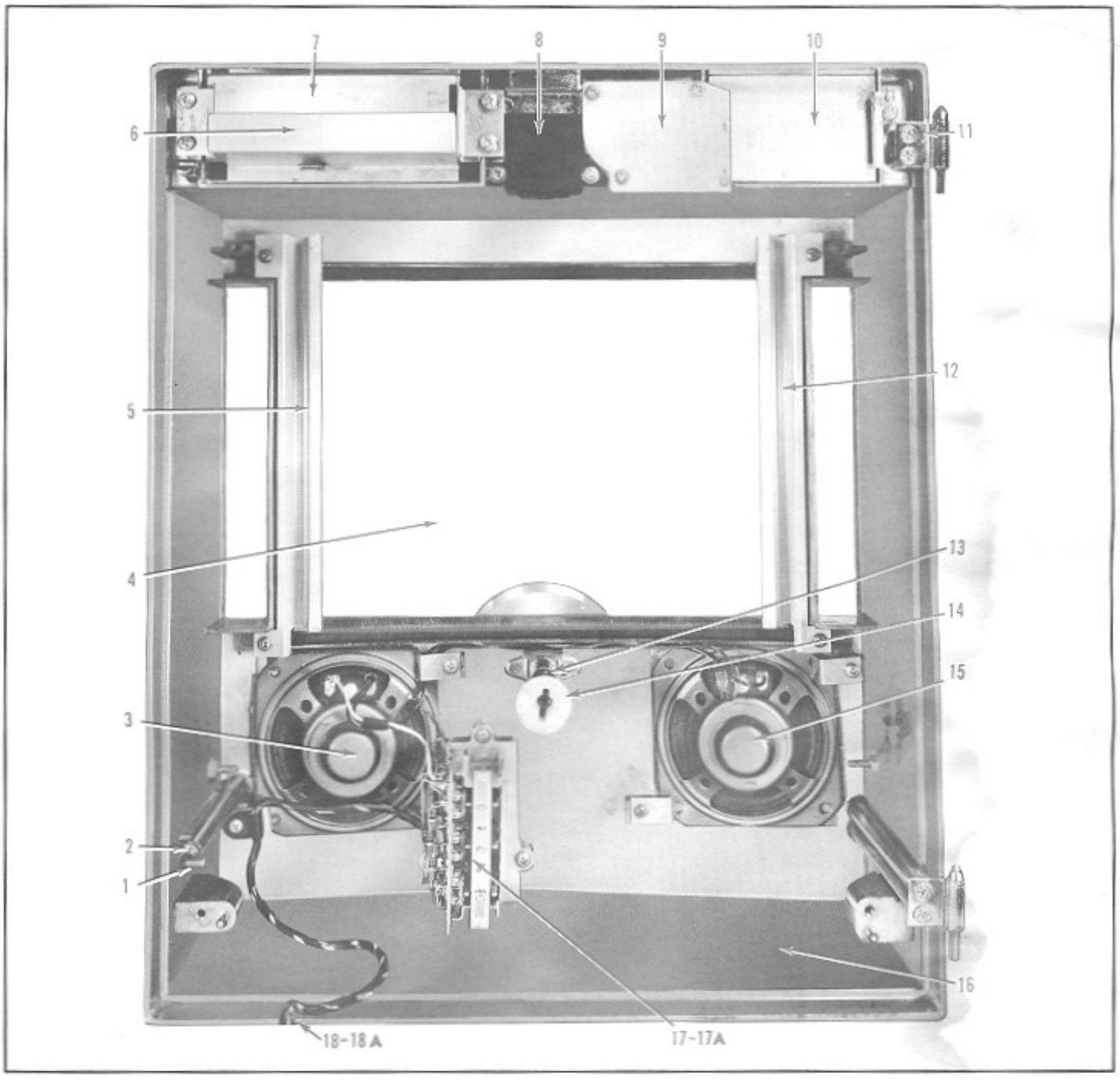
Item	Part No.	Description	Item	Part No.	Description
1	V-7012	9 M-N-L Pin Housing - White	20	37093-A	Lock Bar Riveting Assembly
2	V-7013	9 M-N-L Socket Housing - White	21	37600	Reset Coil
3	V-7014	9 M-N-L Pin Housing - Red	22	37567	Reset Pawl Guide
4	V-7015	9 M-N-L Socket Housing - Red	23	17982	Reset Pawl
5	37618	Terminal Block (3)	23A	14028	Compression Spring
6	37697-A	Rejector & Reject Arm Assembly	24	34559	Return Spring
7	14995	Lockout Relay	24A	37570	Reset Armature
8	ST-5278	Wall Box Hinge (Female)	25	V-7020	12 M-N-L Pin Housing - White
9	37420	3 Pole D.T. Switch	26	V-7021	12 M-N-L Socket Housing - White
10	ST-3072	#47 G.E. Bulb	27	14814-2	Wall Box Transformer
11	37172	Select Light Socket	28	14886	Coin Switch Cover
12	35363	Rectifier	29	37665	Coin Switch (5¢ - 10¢ - 25¢)
13	35879	300 MFD. 50 V.D.C. Capacitor	30	37033	Lock Latch
14	37426-A	Slug Rejector Housing Assembly	31	ST-7416	Lock & Keys
15	37622	Control Switch & Bracket	32	37602	Cash Box
16	39611	Album Play Switch (Acro)	33	37067	Coin Return Chute
17	37563	Wall Box Back	34	37564	Terminal Block (7)
18	37721-A	Accumulator Assembly (Only)	35	37677-A	Terminal Block Riveting Assembly
19	37663-A	Accumulator Assembly (Complete)	36	ST-5278	Wall Box Hinge (Female)



Item	Part No.	Description	Item	Part No.	Description
1	37717	Album Check-Off Relay	12	37048	Key Switch Button
2	V-7047	3 Circuit Socket Housing - White	13	37047	Selector Switch (L.H.) (Not Shown)
3	37716	Audio Control Relay	14	37173	Program Light Socket
4	37573	Page Switch (7 Req)	15	ST-3072	#47 G.E. Bulb
5	37689-A	Biscuit Assembly	16	ST-3072	#47 G.E. Bulb
6	37709	Anti-Cheat Switch (Cherry E-33-21K)	17	37625	Select Light Socket
			18	37046	Selector Switch (R.H.) (Not Shown)
7	37542	Gear Motor W/Cams	19	37048	Key Switch Button
8	37700	Motor Cycle Switch & Bracket	20	37636	130 OHM 5 Watt Resistor
9	37718	Anti-Cheat Relay	21	37702	Album Switch
10	V-7012	9 M-N-L Pin Housing - White	22	37614	Wiper Arm
11	V-7014	9 M-N-L Pin Housing - Red	23	37701	Open Page Switch



Item	Part No.	Description	Item	Part No.	Description
1	14729	Lock Pin	11	ST-5268	Wall Box Hinge (Male)
2	ST-402	8-32 Hex Nut	12	37003-2	Glass Extrusion (L.H.)
3	37582	Speaker	13	37057-1	Clutch Compression Spring
4	37050	Wall Box Window	14	37017-1	Front Clutch
5	37002-2	Glass Extrusion (R.H.)	15	37582	Speaker
6	37590	Light Box	16	37562	Wall Box Front
7	37606	Select Glass	17	37535	Volume Control Switch
8	37103-A	Reject Button Mounting Bracket Assembly	17A	37627-A	Volume Control Switch & Cable Assembly
9	37637	Coin Chute Back	18	V-7046	3 Circuit M-N-L Pin Housing
10	37608	Pricing Window	18A	V-7003	M-N-L Pin (Not Shown)

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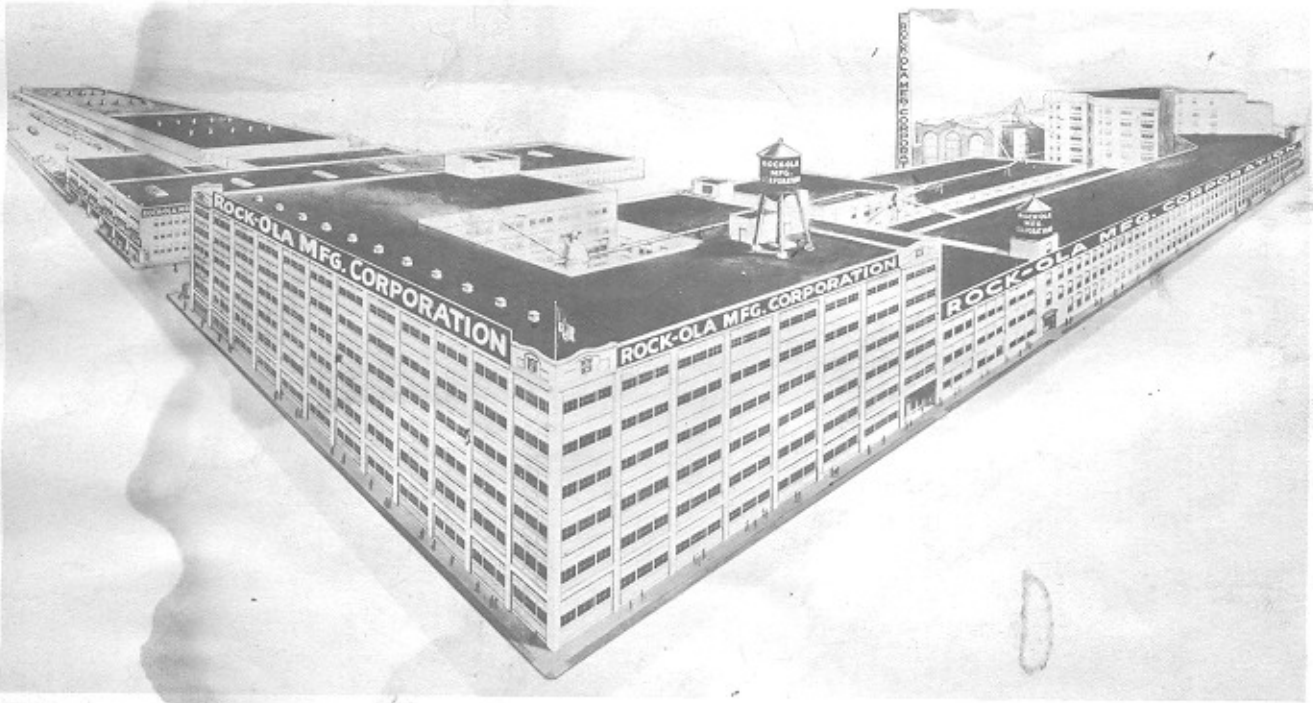

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