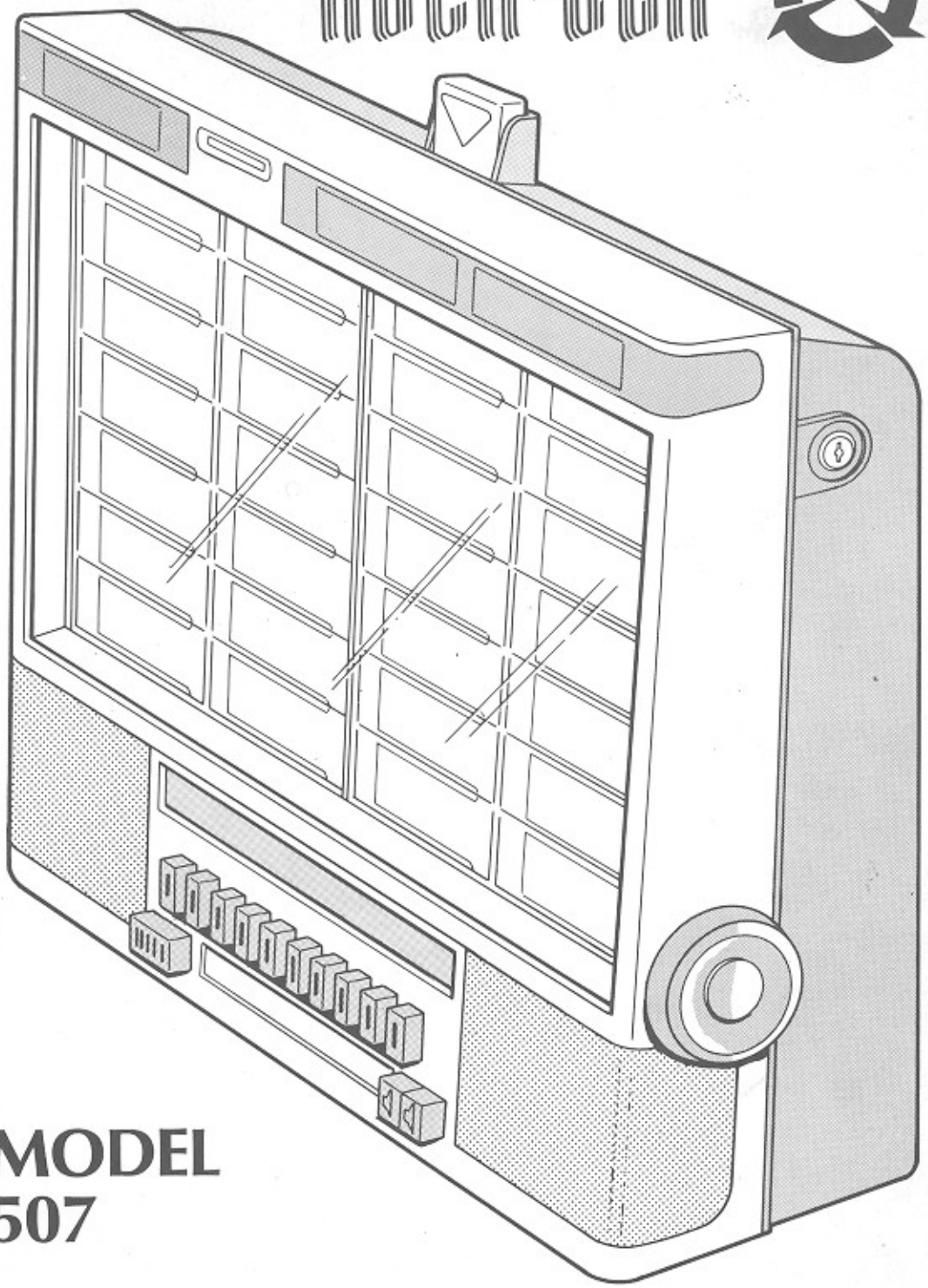
ROCK-OLA



# TRI-VUE STEREO WALL BOX

## MODEL 507

# SERVICE MANUAL AND PARTS CATALOG

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# DIGITAL/ALPHA NUMERIC WALL BOX, PHONO REFERENCE CHART
(Started with Model 461 — 100 Selection Phono)

DIGITAL WALL BOX MODELS 506-507
100 SELECTION OPERATION

WALL BOX / PHONO

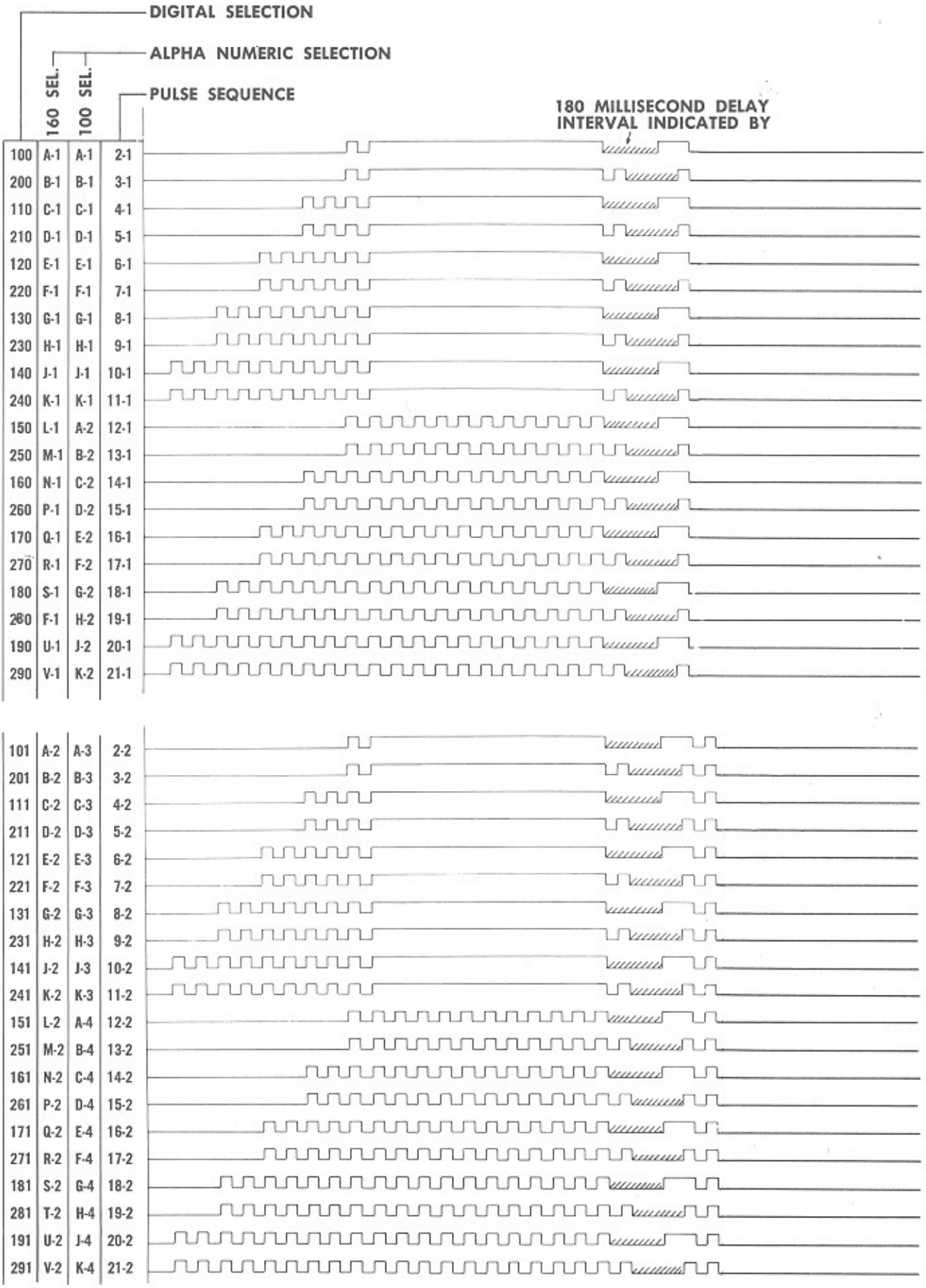
| | | | |
|---|---|---|---|
| 100 A1 / 200 B1 | 110 C1 / 210 D1 | 120 E1 / 220 F1 | 130 G1 / 230 H1 |
| 140 J1 / 240 K1 | 150 A2 / 250 B2 | 160 C2 / 260 D2 | 170 E2 / 270 F2 |
| 180 G2 / 280 H2 | 190 J2 / 290 K2 | 101 A3 / 201 B3 | 111 C3 / 211 D3 |
| 121 E3 / 221 F3 | 131 G3 / 231 H3 | 141 J3 / 241 K3 | 151 A4 / 251 B4 |
| 161 C4 / 261 D4 | 171 E4 / 271 F4 | 181 G4 / 281 H4 | 191 J4 / 291 K4 |
| 102 A5 / 202 B5 | 112 C5 / 212 D5 | 122 E5 / 222 F5 | 132 G5 / 232 H5 |
| TURN KNOB TO VIEW PROGRAM | 142 J5 / 242 K5 | 152 A6 / 252 B6 | 162 C6 / 262 D6 |

1ST. VIEWING PROGRAM SECTION

| | | | |
|---|---|---|---|
| 172 E6 / 272 F6 | 182 G6 / 282 H6 | 192 J6 / 292 K6 | 103 A7 / 203 B7 |
| 113 C7 / 213 D7 | 123 E7 / 223 F7 | 133 G7 / 233 H7 | 143 J7 / 243 K7 |
| 153 A8 / 253 B8 | 163 C8 / 263 D8 | 173 E8 / 273 F8 | 183 G8 / 283 H8 |
| 193 J8 / 293 K8 | 104 A9 / 204 B9 | 114 C9 / 214 D9 | 124 E9 / 224 F9 |
| 134 G9 / 234 H9 | 144 J9 / 244 K9 | 154 A0 / 254 B0 | 164 C0 / 264 D0 |
| 174 E0 / 274 F0 | 184 G0 / 284 H0 | 194 J0 / 294 K0 | 100 SELECTIONS FOR YOUR ENTERTAINMENT |
| TURN KNOB TO VIEW PROGRAM | 100 SELECTIONS FOR YOUR ENTERTAINMENT | 100 SELECTIONS FOR YOUR ENTERTAINMENT | TURN KNOB TO VIEW PROGRAM |

2ND. VIEWING PROGRAM SECTION

# WALL BOX PULSE TRAIN SEQUENCE




| | | | |
|---|---|---|---|
| 100 | A-1 | A-1 | 2-1 |
| 200 | B-1 | B-1 | 3-1 |
| 110 | C-1 | C-1 | 4-1 |
| 210 | D-1 | D-1 | 5-1 |
| 120 | E-1 | E-1 | 6-1 |
| 220 | F-1 | F-1 | 7-1 |
| 130 | G-1 | G-1 | 8-1 |
| 230 | H-1 | H-1 | 9-1 |
| 140 | J-1 | J-1 | 10-1 |
| 240 | K-1 | K-1 | 11-1 |
| 150 | L-1 | A-2 | 12-1 |
| 250 | M-1 | B-2 | 13-1 |
| 160 | N-1 | C-2 | 14-1 |
| 260 | P-1 | D-2 | 15-1 |
| 170 | Q-1 | E-2 | 16-1 |
| 270 | R-1 | F-2 | 17-1 |
| 180 | S-1 | G-2 | 18-1 |
| 280 | F-1 | H-2 | 19-1 |
| 190 | U-1 | J-2 | 20-1 |
| 290 | V-1 | K-2 | 21-1 |
| 101 | A-2 | A-3 | 2-2 |
| 201 | B-2 | B-3 | 3-2 |
| 111 | C-2 | C-3 | 4-2 |
| 211 | D-2 | D-3 | 5-2 |
| 121 | E-2 | E-3 | 6-2 |
| 221 | F-2 | F-3 | 7-2 |
| 131 | G-2 | G-3 | 8-2 |
| 231 | H-2 | H-3 | 9-2 |
| 141 | J-2 | J-3 | 10-2 |
| 241 | K-2 | K-3 | 11-2 |
| 151 | L-2 | A-4 | 12-2 |
| 251 | M-2 | B-4 | 13-2 |
| 161 | N-2 | C-4 | 14-2 |
| 261 | P-2 | D-4 | 15-2 |
| 171 | Q-2 | E-4 | 16-2 |
| 271 | R-2 | F-4 | 17-2 |
| 181 | S-2 | G-4 | 18-2 |
| 281 | T-2 | H-4 | 19-2 |
| 191 | U-2 | J-4 | 20-2 |
| 291 | V-2 | K-4 | 21-2 |

# WALL BOX PULSE TRAIN SEQUENCE

DIGITAL SELECTION

ALPHA NUMERIC SELECTION

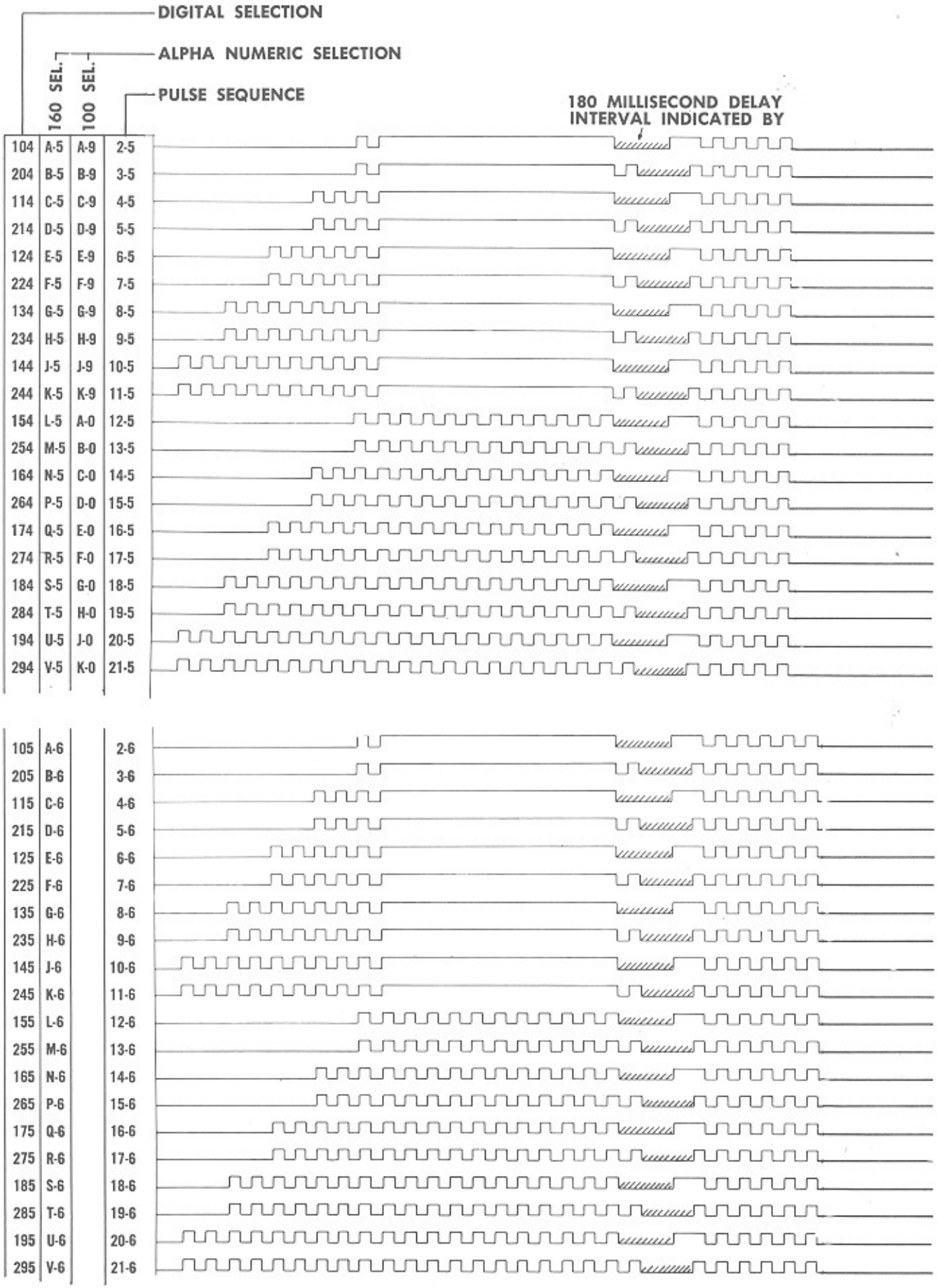
PULSE SEQUENCE

180 MILLISECOND DELAY INTERVAL INDICATED BY

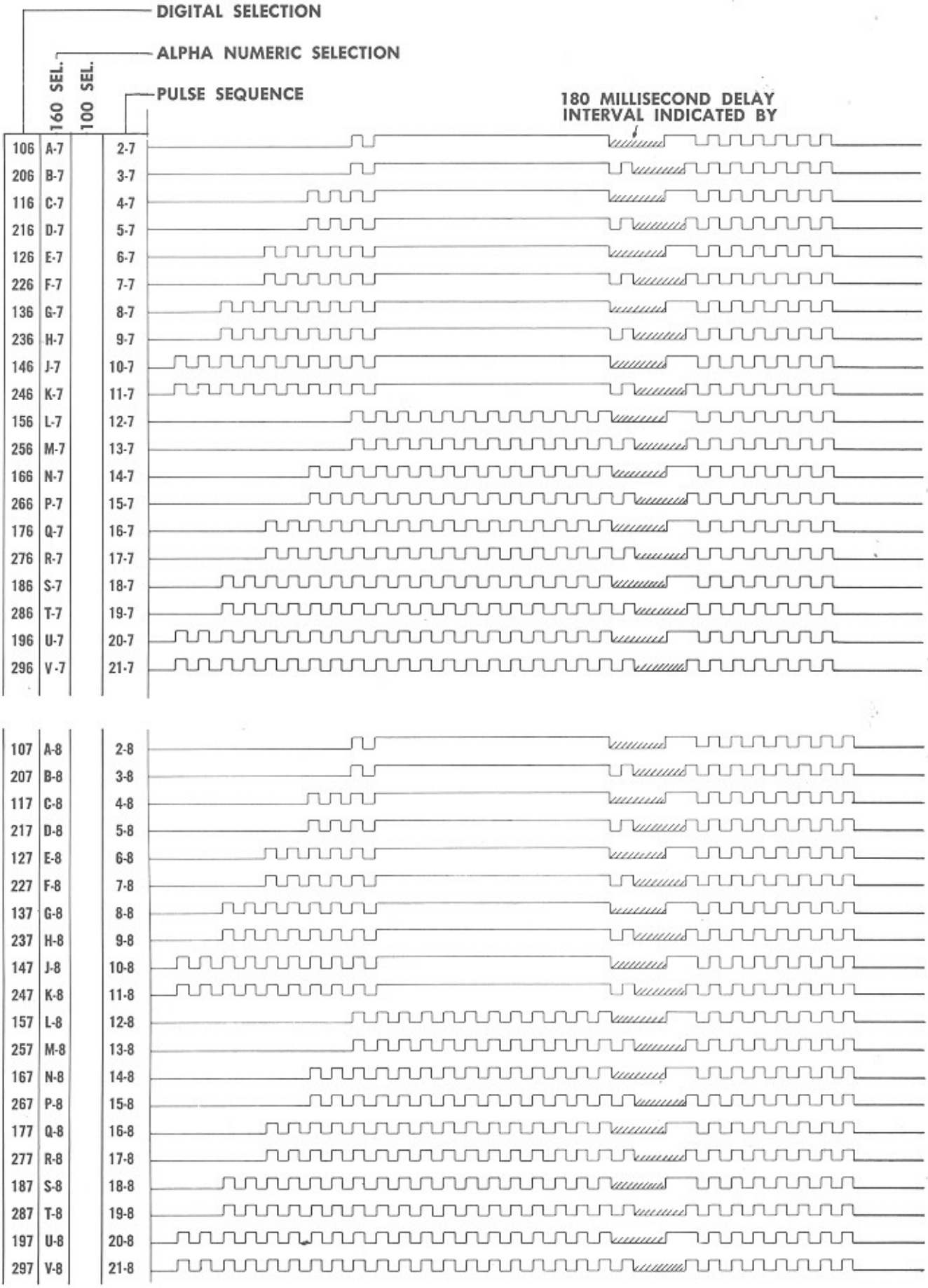
| DIGITAL SELECTION | 160 SEL. | 100 SEL. | PULSE SEQUENCE |
|---|---|---|---|
| 102 | A-3 | A-5 | 2-3 |
| 202 | B-3 | B-5 | 3-3 |
| 112 | C-3 | C-5 | 4-3 |
| 212 | D-3 | D-5 | 5-3 |
| 122 | E-3 | E-5 | 6-3 |
| 222 | F-3 | F-5 | 7-3 |
| 132 | G-3 | G-5 | 8-3 |
| 232 | H-3 | H-5 | 9-3 |
| 142 | J-3 | J-5 | 103 |
| 242 | K-3 | K5 | 11-3 |
| 152 | L-3 | A-6 | 12-3 |
| 252 | M-3 | B-6 | 13-3 |
| 162 | N-3 | C-6 | 14-3 |
| 262 | P-3 | D-6 | 15-3 |
| 172 | Q-3 | E-6 | 16-3 |
| 272 | R-3 | F-6 | 17-3 |
| 182 | S-3 | G-6 | 18-3 |
| 282 | T-3 | H-6 | 19-3 |
| 192 | U-3 | J-6 | 20-3 |
| 292 | V-3 | K-6 | 21-3 |

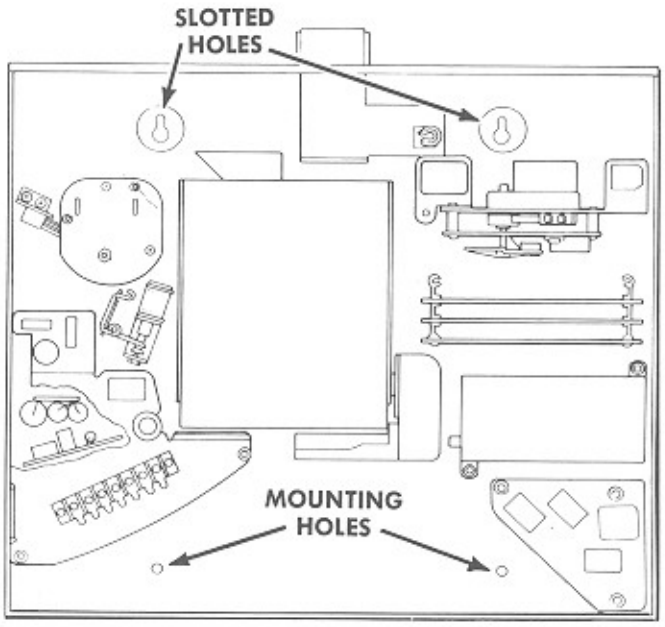
| | | | |
|---|---|---|---|
| 103 | A-4 | A-7 | 2-4 |
| 203 | B-4 | B-7 | 3-4 |
| 113 | C-4 | C-7 | 4-4 |
| 213 | D-4 | D-7 | 5-4 |
| 123 | E-4 | E-7 | 6-4 |
| 223 | F-4 | F-7 | 7-4 |
| 133 | G-4 | G-7 | 8-4 |
| 233 | H-4 | H-7 | 9-4 |
| 143 | J-4 | J-7 | 10-4 |
| 243 | K-4 | K-7 | 11-4 |
| 153 | L-4 | A-8 | 12-4 |
| 253 | M-4 | B-8 | 13-4 |
| 163 | N-4 | C-8 | 14-4 |
| 263 | P-4 | D-8 | 15-4 |
| 173 | Q-4 | E-8 | 16-4 |
| 273 | R-4 | F-8 | 17-4 |
| 183 | S-4 | G-8 | 18-4 |
| 283 | T-4 | H-8 | 19-4 |
| 193 | U-4 | J-8 | 20-4 |
| 293 | V-4 | K-8 | 21-4 |

# WALL BOX PULSE TRAIN SEQUENCE



# WALL BOX PULSE TRAIN SEQUENCE






## MOUNTING THE WALL BOX

A Wall Box Mounting Plate is provided for rigidly mounting the Wall Box on the wall or Bar Brackets, Kit. No. 2149.

For wall installations hang the mounting plate over a nail already set at the proper height.

Level and mark the two top and two bottom corner holes. Use the four mounting points for anchoring, it may be necessary to shim the plate if the wall is uneven. Place two nuts on the upper two mounting studs.

On the Wall Box back plate there are four holes for mounting over the four mounting studs. The upper two are slotted for placing over the top studs with the nuts. The two lower holes is for rigid mounting after the wall box has been hung in place.

Unlock the Wall Box and remove the cash box. Place nuts over the two bottom mounting studs and tighten the four nuts.

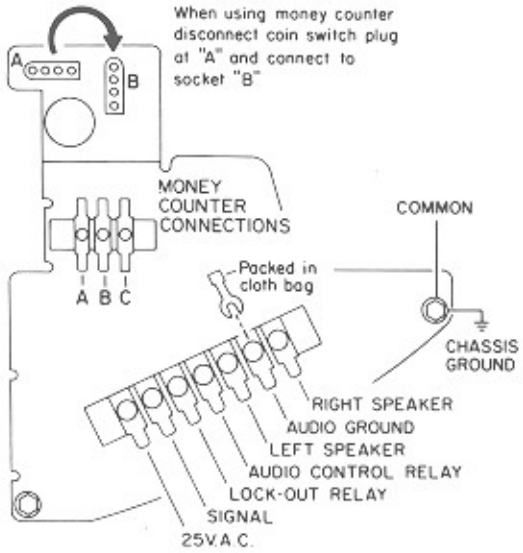
## WIRING THE WALL BOX

Use a 12 conductor interconnecting cable Rock-Ola Part No. 38815 to connect the Wall Box to the Phonograph.

In order that the voltage drop from the Phonograph to the Wall Box be kept to a minimum, it is recommended that the wire size shall be the following:

Number of wires: 8 – No. 22 AWG (Signal and Coin Counting circuits)
1 – No. 20 AWG (Lockout circuit)
2 – No. 16 AWG (Power supply)

Note: Color code matching must be strictly observed between wall box and phonograph terminal connections.




Four wires are required to supply power to the wall box. Solder each lead. Two of the four wires supply 25 V.A.C. The third wire is an overlapping lock-out circuit from the receiver to the lockout relay. The fourth wire constitutes the signal circuit that keys the receiver unit.

Four wires are required to operate the wall box audio system. Three of the wires operate the left and right channel 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 control is controlled by the customer thru the use of two external volume control pushbutton switches.

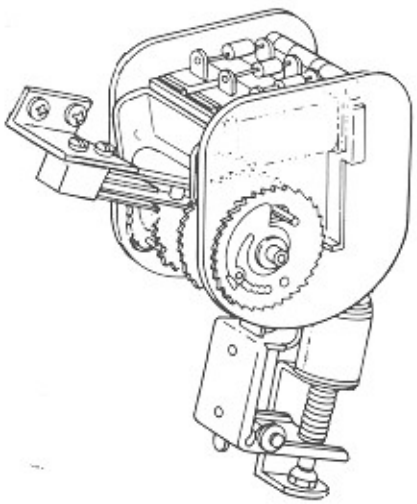
The last three wires are coin counting circuits from the wall box to the wall box Adapter Kit No. 2183 mounted on the Coin Counter Kit No. 2182. This equipment is optional.

The other end of the inter-connecting cable is connected to the phonograph terminal strip located below the rear door.

## AUXILIARY POWER SUPPLY

The 25 volt signal transformer in the Receiver is capable of supplying power to six (6) wall boxes. Using more than this number without an auxiliary power supply, Kit No. 2121, may result in burning out the 3 ampere fustat on the Receiver unit, or the prolong heating of the transformer may cause it to fail.

**CREDIT UNIT**



## CREDIT SYSTEM — DOMESTIC

The pricing system is preset to accept quarters and half-dollars only. Nickels and dimes are returned to the customer.

As standard equipment the Quarter Pricing Ratchet, part no. 44947-A, permits a 2–3–3–3 credit arrangement upon insertion of more than 1 quarter.

The accumulator is adjusted so that the quarters and half-dollars have the following credit value.

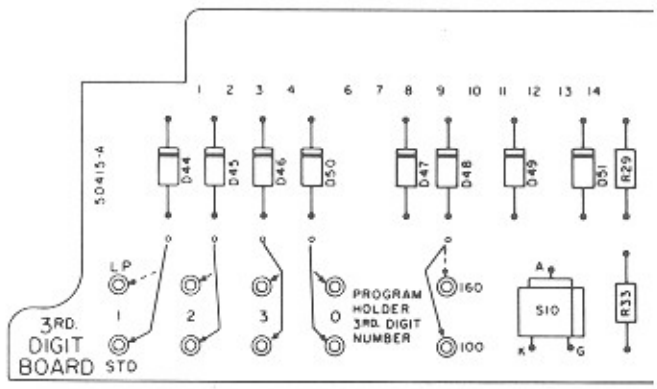
Quarter – 2 Plays
2 Quarters or Half-Dollar – 5 Plays
4 Quarters – 11 Plays

Make sure the wall box and phono record play pricing correspond. Credit adjustment procedure for the wall box is the same as for phono as illustrated in the phono service manual.

LP pricing Kit #2184 is available as optional equipment.

## WALL BOX ADJUSTMENT FOR 100 SELECTION OPERATION

The wall box as shipped from the factory is preset for 160 selection operation. To convert the wall box for 100 selection operation do the following:




Remove the 3rd Digit Board and move the jumper from "160" position to "100". This new position of the jumper disables circuits to the last 60 selections and if selected will cause the "Reset & Reselect" lamp to turn on.

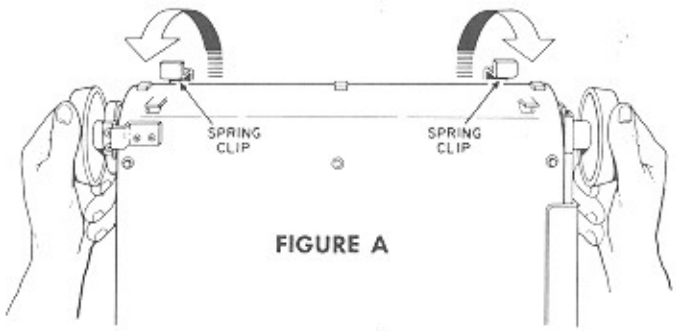
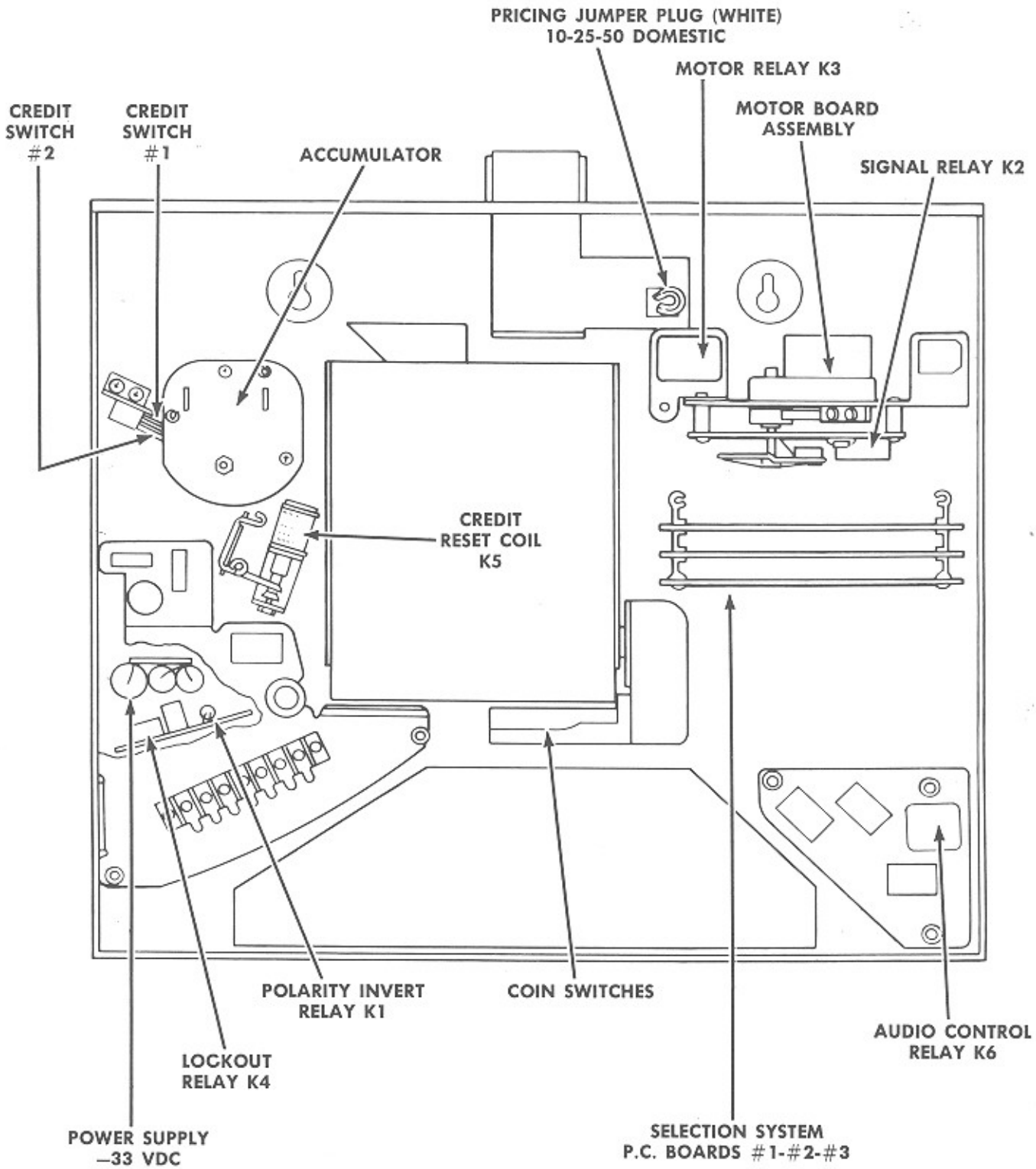


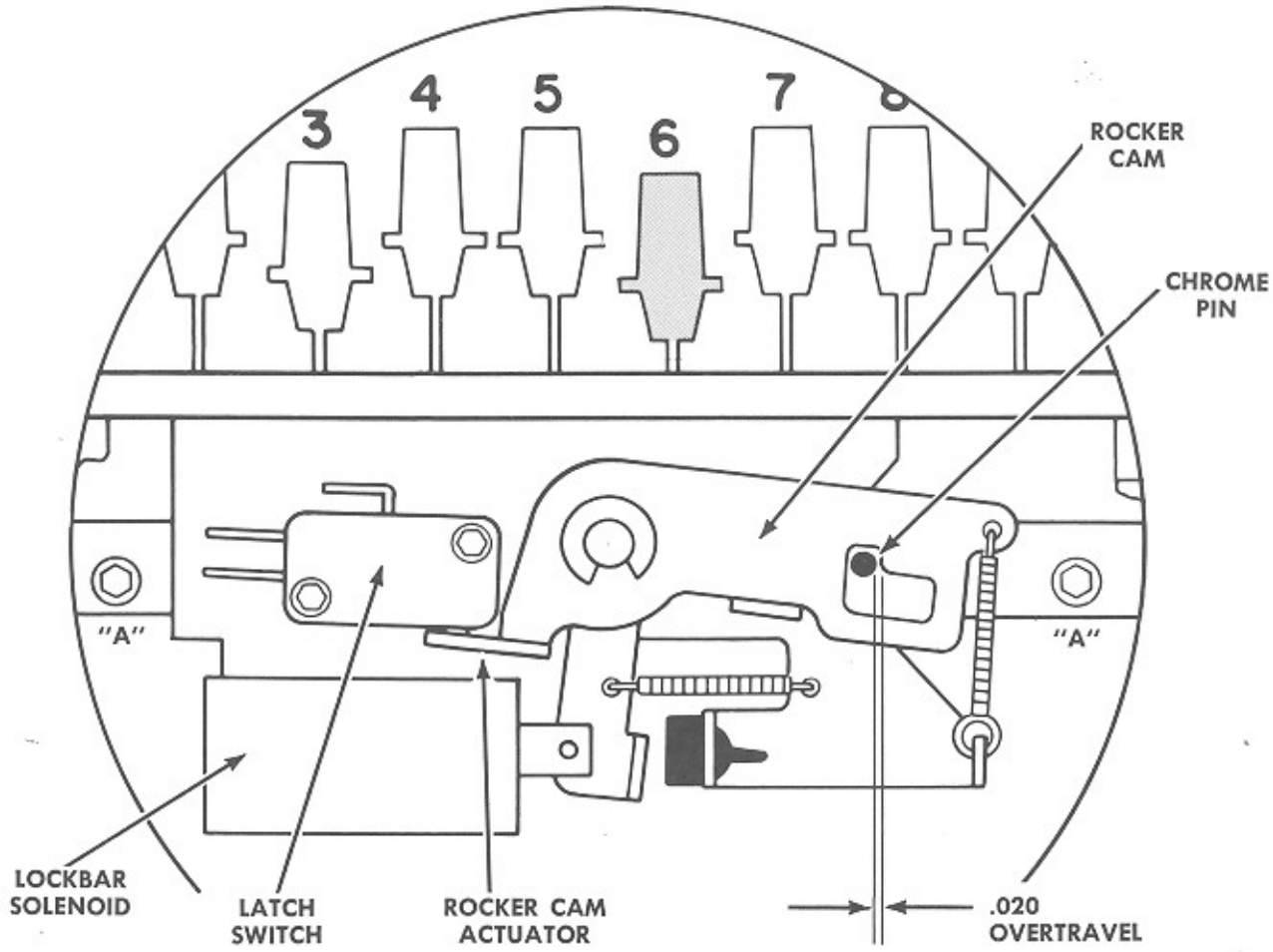

**FIGURE A**

Remove the Program Holder. The program holder is secured inside the front housing by two spring clips. Lift the program upward for removal as shown in Fig. A.

Insert filler strips (included with the wall box) on 2nd viewing side of holder as shown on page 3.

## OPERATING ELEMENTS OF THE WALL BOX



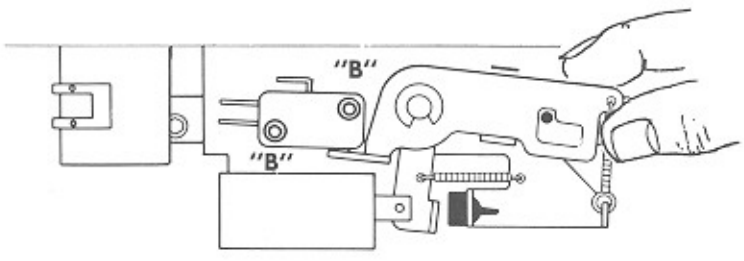



## SELECTION BUTTON LOCKING AND LATCH SWITCH ADJUSTMENTS

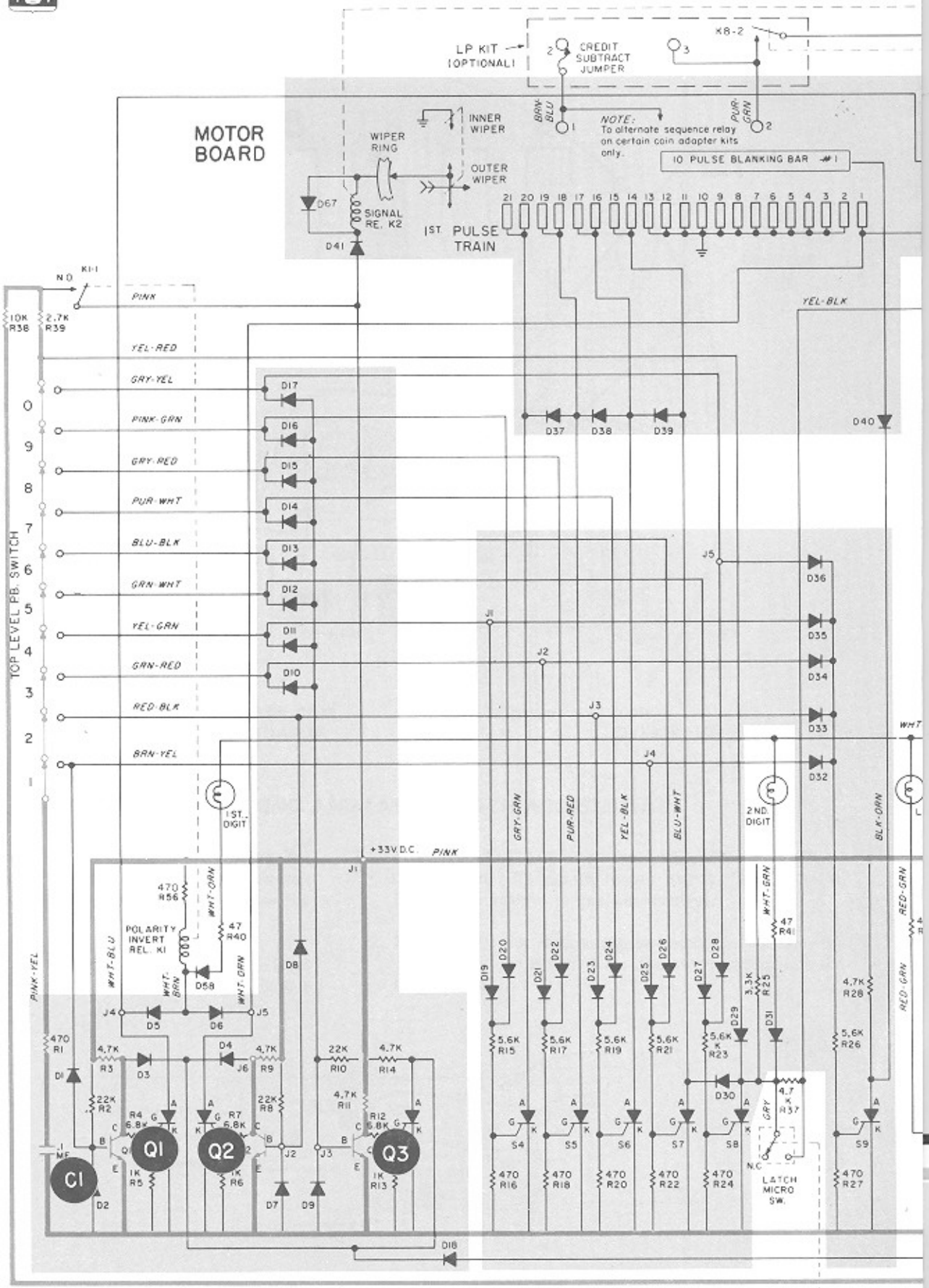
For proper operation of the selection system the 3rd Digit number button must be latched and the Latch Switch must be "on". Should adjustments be necessary follow the procedure as outlined.

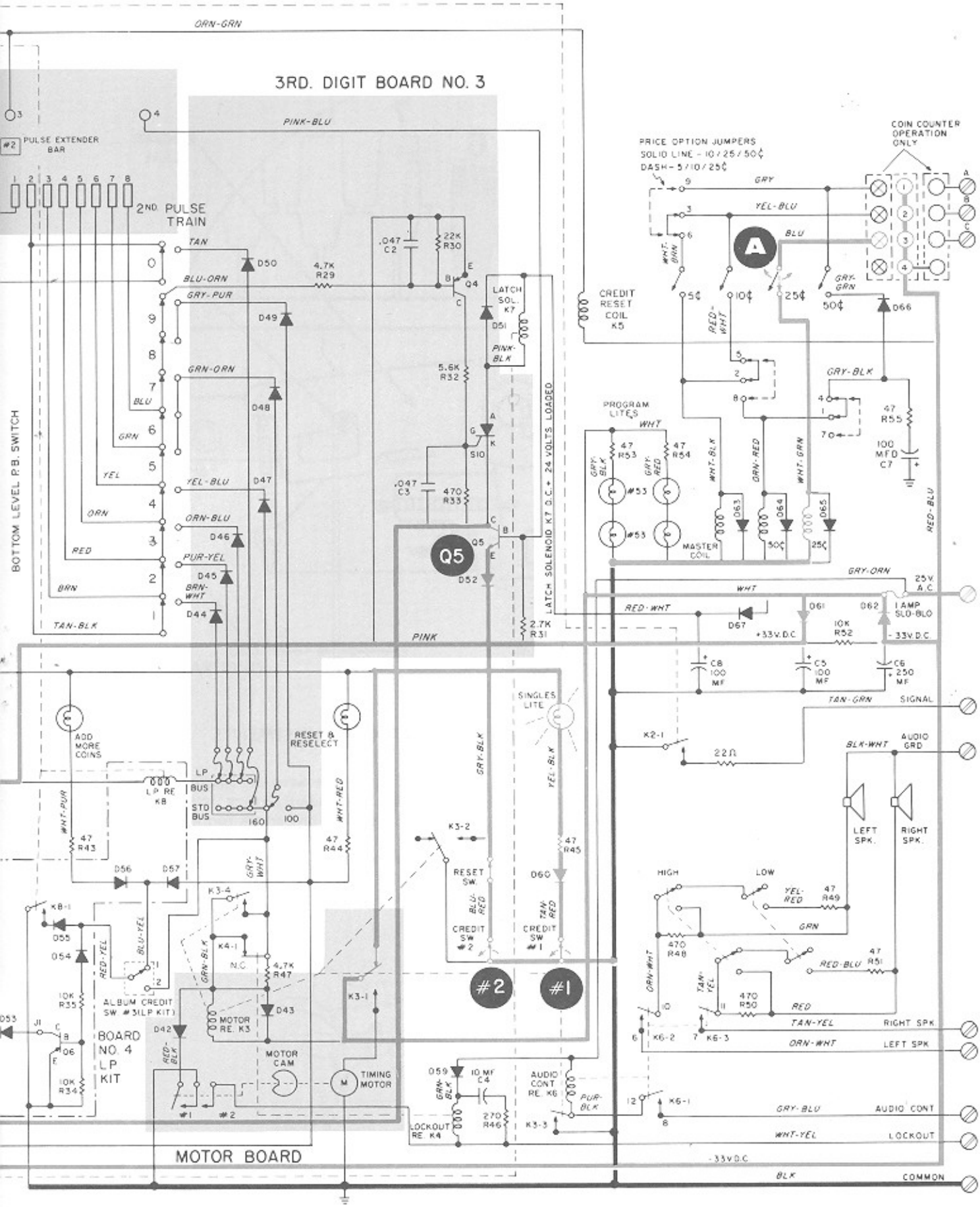
1. With an energized Lockbar Solenoid and the 3rd Digit pressed in fully, the chrome pin should latch and have a overtravel of .020 between the Rocker Cam drop off and Chrome Pin. To adjust, loosen screws "A" and move Lockbar to achieve proper pin overtravel.

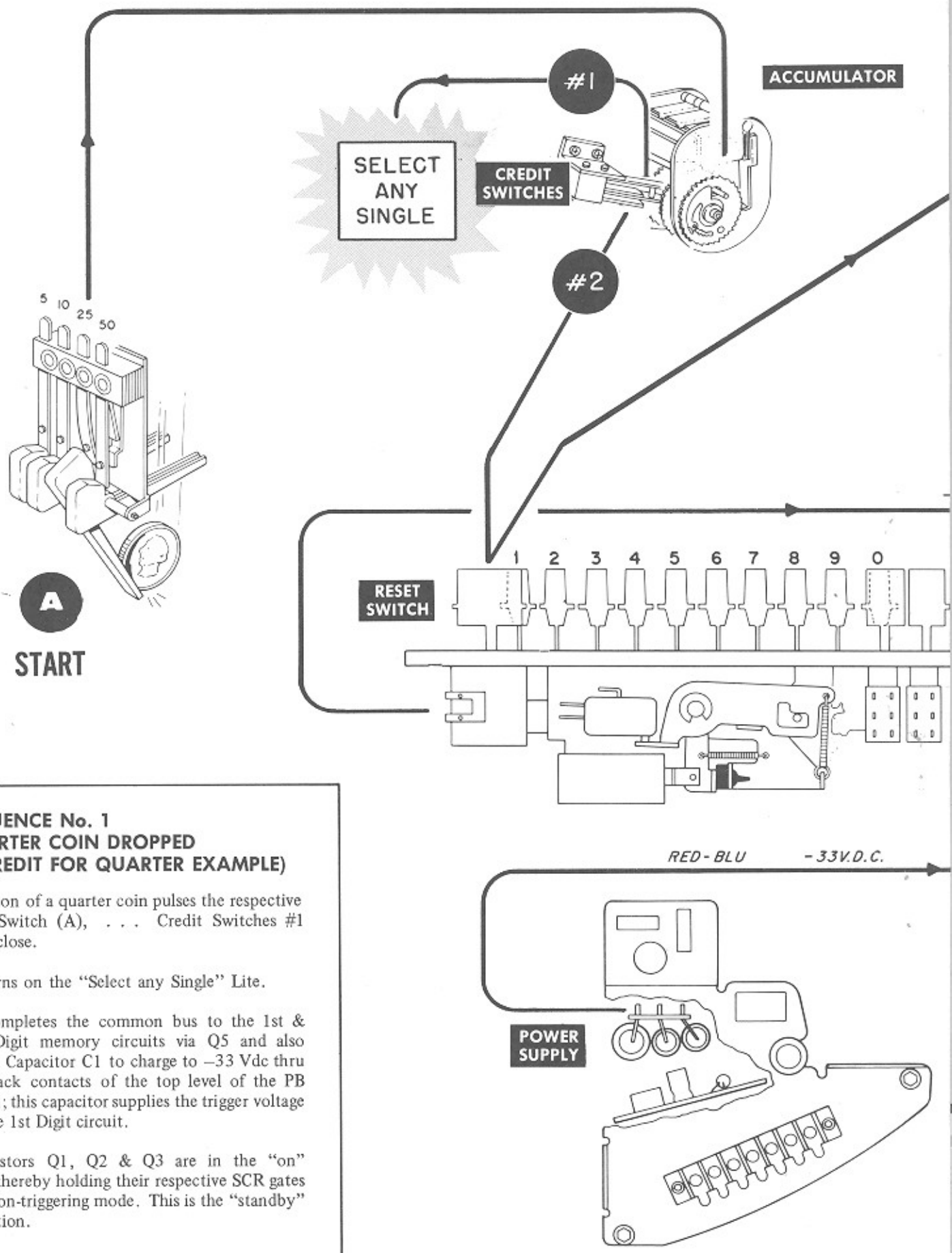
2. Just prior to the chrome pin bottoming in the cam, the up stroke of the Rocker Cam Actuator must operate the Latch Switch.




To test this adjustment, move the Rocker Cam in short up and down movements; at this point the Chrome Pin should remain latched and the Latch Switch must operate. To adjust, loosen screws "B" and adjust switch position accordingly.


MOTOR BOARD
LP KIT (OPTIONAL)
CREDIT SUBTRACT JUMPER
K8-2
NOTE: To alternate sequence relay on certain coin adapter kits only.
10 PULSE BLANKING BAR #1
INNER WIPER
OUTER WIPER
WIPER RING
SIGNAL RE. K2
1ST PULSE TRAIN
TOP LEVEL PB. SWITCH
PINK
YEL-RED
GRY-YEL
PINK-GRN
GRY-RED
PUR-WHT
BLU-BLK
GRN-WHT
YEL-GRN
GRN-RED
RED-BLK
BRN-YEL
YEL-BLK
+33V.D.C.
1ST. DIGIT
2ND. DIGIT
POLARITY INVERT REL. K1
LATCH MICRO SW.
Q1
Q2
Q3
C1
1ST. DIGIT BOARD NO. 1
2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
ORN-GRN
PINK-BLU
#2 PULSE EXTENDER BAR
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
TAN
BLU-ORN
GRY-PUR
GRN-ORN
YEL-BLU
ORN-BLU
PUR-YEL
BRN-WHT
TAN-BLK
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
Q4
LATCH SOL. K7
D51
PINK-BLK
5.6K R32
S10
.047 C3
470 R33
Q5
D52
2.7K R31
LATCH SOLENOID K7 D.C. + 24 VOLTS LOADED
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-BRN
GRY-GRN
5¢
10¢
25¢
50¢
D66
CREDIT RESET COIL K5
RED-WHT
GRY-BLK
47 R55
100 MFD C7
PROGRAM LITES
WHT
47 R53
47 R54
#53
GRY-RED
WHT-BLK
ORN-RED
WHT-GRN
D63
D64
D65
MASTER COIL
RED-BLU
GRY-ORN
25V. A.C.
WHT
RED-WHT
D67
+33V.D.C.
D61
D62
LAMP SLO-BLO
10K R52
-33V.D.C.
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
22Ω
BLK-WHT
AUDIO GRD
LEFT SPK.
RIGHT SPK.
ADD MORE COINS
RESET & RESELECT
LP
LP RE K8
BUS
STD BUS
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
D56
D57
GRY-WHT
SINGLES LITE
GRY-BLK
YEL-BLK
K3-2
RESET SW.
BLU-RED
CREDIT SW #2
TAN-RED
CREDIT SW #1
47 R45
D60
#2
#1
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
ORN-WHT
47 R51
RED-BLU
TAN-YEL
470 R50
RED
RIGHT SPK
ORN-WHT
LEFT SPK
K6-2
K6-3
K8-1
D55
D54
RED-YEL
BLU-YEL
K3-4
K4-1
N.C.
4.7K R47
GRN-BLK
ALBUM CREDIT SW #3 (LP KIT)
10K R35
10K R34
D53
J1
Q6
BOARD NO. 4 LP KIT
MOTOR RE. K3
D43
D42
RED-BLK
MOTOR CAM
TIMING MOTOR
K3-1
#1
#2
D59
GRN-BLK
10 MF C4
270 R46
LOCKOUT RE. K4
AUDIO CONT RE. K6
PUR-BLK
K3-3
K6-1
GRY-BLU
AUDIO CONT
WHT-YEL
LOCKOUT
-33V.D.C.
BLK
COMMON
MOTOR BOARD



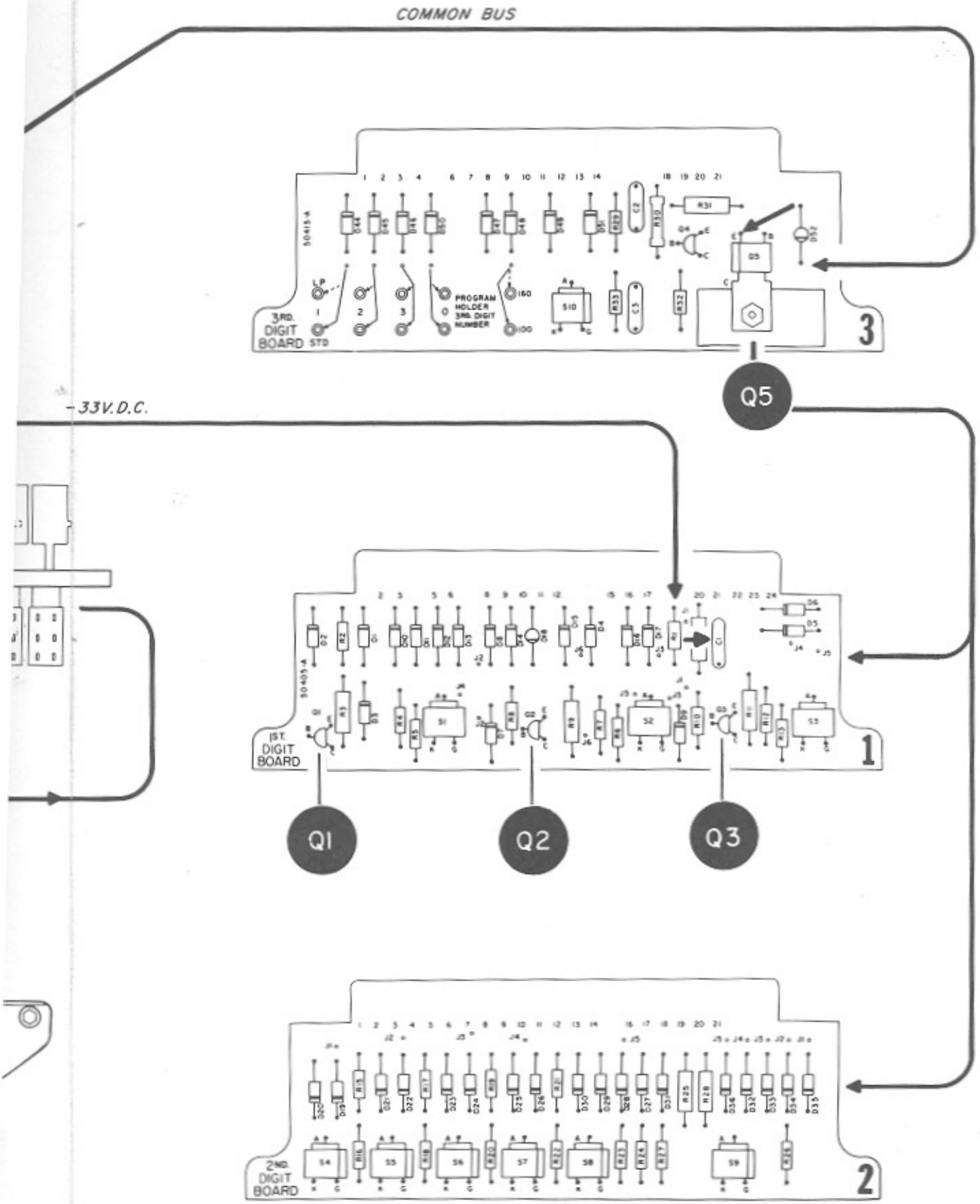

**SEQUENCE No. 1**
**QUARTER COIN DROPPED**
**(1 CREDIT FOR QUARTER EXAMPLE)**

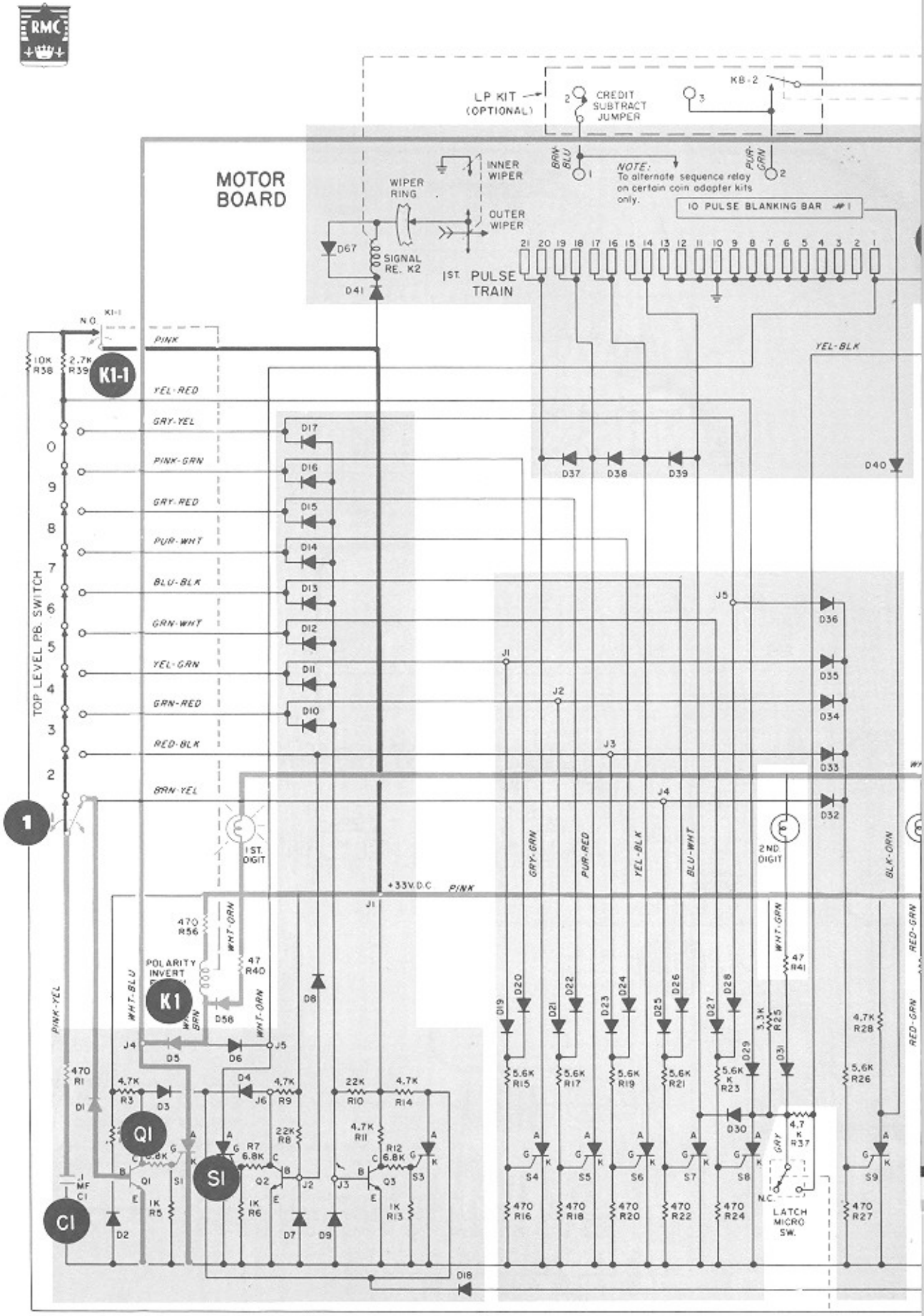
Insertion of a quarter coin pulses the respective Coin Switch (A), . . . Credit Switches #1 & #2 close.

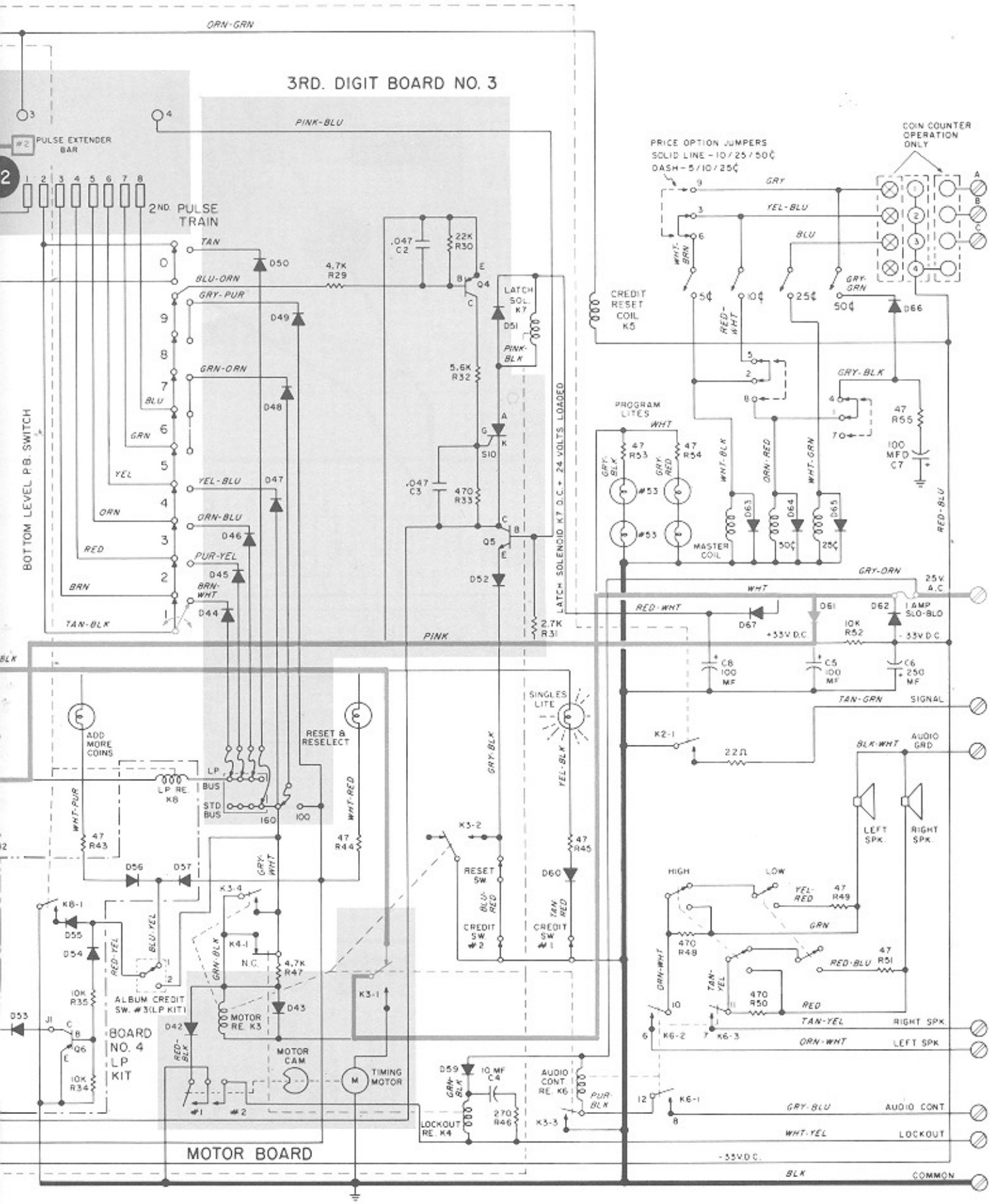
#1 turns on the "Select any Single" Lite.

#2 completes the common bus to the 1st & 2nd Digit memory circuits via Q5 and also allows Capacitor C1 to charge to –33 Vdc thru the back contacts of the top level of the PB switch; this capacitor supplies the trigger voltage for the 1st Digit circuit.

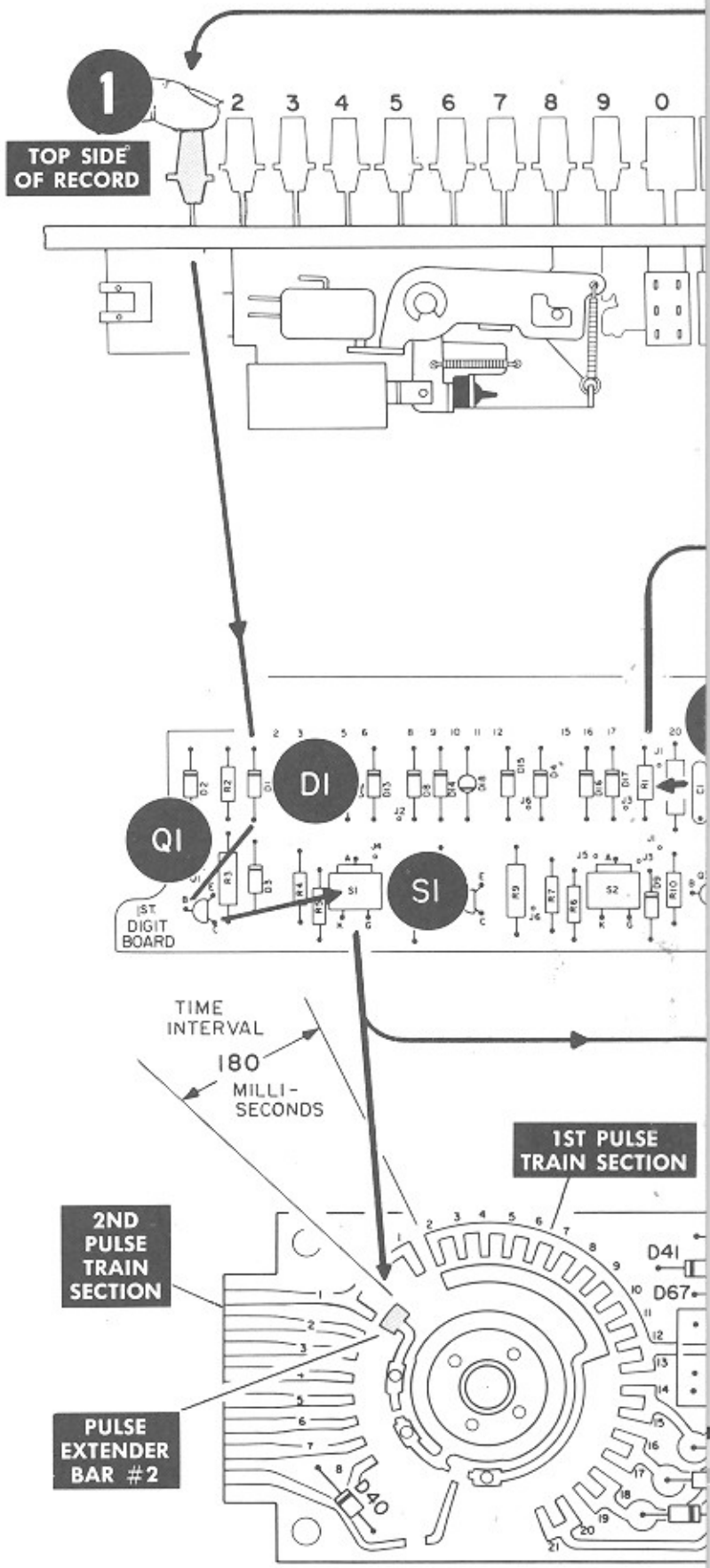
Transistors Q1, Q2 & Q3 are in the "on" state thereby holding their respective SCR gates in a non-triggering mode. This is the "standby" condition.


COMMON BUS
3RD. DIGIT BOARD
PROGRAM HOLDER 3RD. DIGIT NUMBER
STD
160
100
Q5
-33V.D.C.
1ST. DIGIT BOARD
Q1
Q2
Q3
2ND. DIGIT BOARD


MOTOR BOARD
LP KIT (OPTIONAL)
CREDIT SUBTRACT JUMPER
KB-2
NOTE: To alternate sequence relay on certain coin adapter kits only.
WIPER RING
INNER WIPER
OUTER WIPER
SIGNAL RE. K2
1ST. PULSE TRAIN
10 PULSE BLANKING BAR
TOP LEVEL PB. SWITCH
K1-1
K1
S1
C1
Q1
Q2
Q3
1ST. DIGIT
2ND. DIGIT
+33V.D.C.
POLARITY INVERT
LATCH MICRO SW.
1ST. DIGIT BOARD NO. 1
2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
ORN-GRN
PINK-BLU
#2 PULSE EXTENDER BAR
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
TAN
BLU-ORN
GRY-PUR
GRN-ORN
YEL-BLU
ORN-BLU
PUR-YEL
BRN-WHT
TAN-BLK
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
Q4
LATCH SOL. K7
D51
PINK-BLK
5.6K R32
S10
.047 C3
470 R33
Q5
D52
2.7K R31
LATCH SOLENOID K7 D.C.+ 24 VOLTS LOADED
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-BRN
GRY-GRN
5¢
10¢
25¢
50¢
D66
RED-WHT
CREDIT RESET COIL K5
GRY-BLK
47 R55
100 MFD C7
PROGRAM LITES
WHT
47 R53
47 R54
#53
MASTER COIL
WHT-BLK
ORN-RED
WHT-GRN
D63
D64
D65
50¢
25¢
RED-BLU
GRY-ORN
25V A.C
WHT
RED-WHT
D67
+35V D.C
D61
D62
LAMP SLO-BLO
10K R52
35V D.C
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
22Ω
BLK-WHT
AUDIO GRD
LEFT SPK.
RIGHT SPK.
ADD MORE COINS
RESET & RESELECT
LP
BUS
STD BUS
LP RE. K8
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
SINGLES LITE
GRY-BLK
YEL-BLK
47 R45
K3-2
RESET SW
BLU-RED
CREDIT SW #2
D60
TAN-RED
CREDIT SW #1
D56
D57
GRY-WHT
K3-4
K8-1
D55
D54
RED-YEL
BLU-YEL
K4-1
N.C.
4.7K R47
GRN-BLK
ALBUM CREDIT SW. #3 (LP KIT)
10K R35
10K R34
Q6
D53
J1
BOARD NO. 4 LP KIT
MOTOR RE. K3
D43
D42
RED-BLK
MOTOR CAM
K3-1
TIMING MOTOR
#1
#2
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
47 R51
RED-BLU
ORN-WHT
TAN-YEL
470 R50
RED
RIGHT SPK.
LEFT SPK.
K6-2
K6-3
D59
10 MF C4
GRN-BLK
LOCKOUT RE. K4
270 R46
AUDIO CONT RE. K6
PUR-BLK
K3-3
K6-1
GRY-BLU
AUDIO CONT.
WHT-YEL
LOCKOUT
-35V D.C.
BLK
COMMON
MOTOR BOARD

START




## SEQUENCE No. 2
## 1ST DIGIT NUMBER #1 PRESSED

The 1st Digit number determines the record side. . . . No. 1 pushbutton selects "Top Side" of record selections, . . . No. 2 "Bottom Side".

Digit numbers "3" thru "0" if pressed for the 1st Digit result in a "no go" condition and cause the "Reset & Reselect" lamp to lite. This circuit is explained in Sequence No. 3.

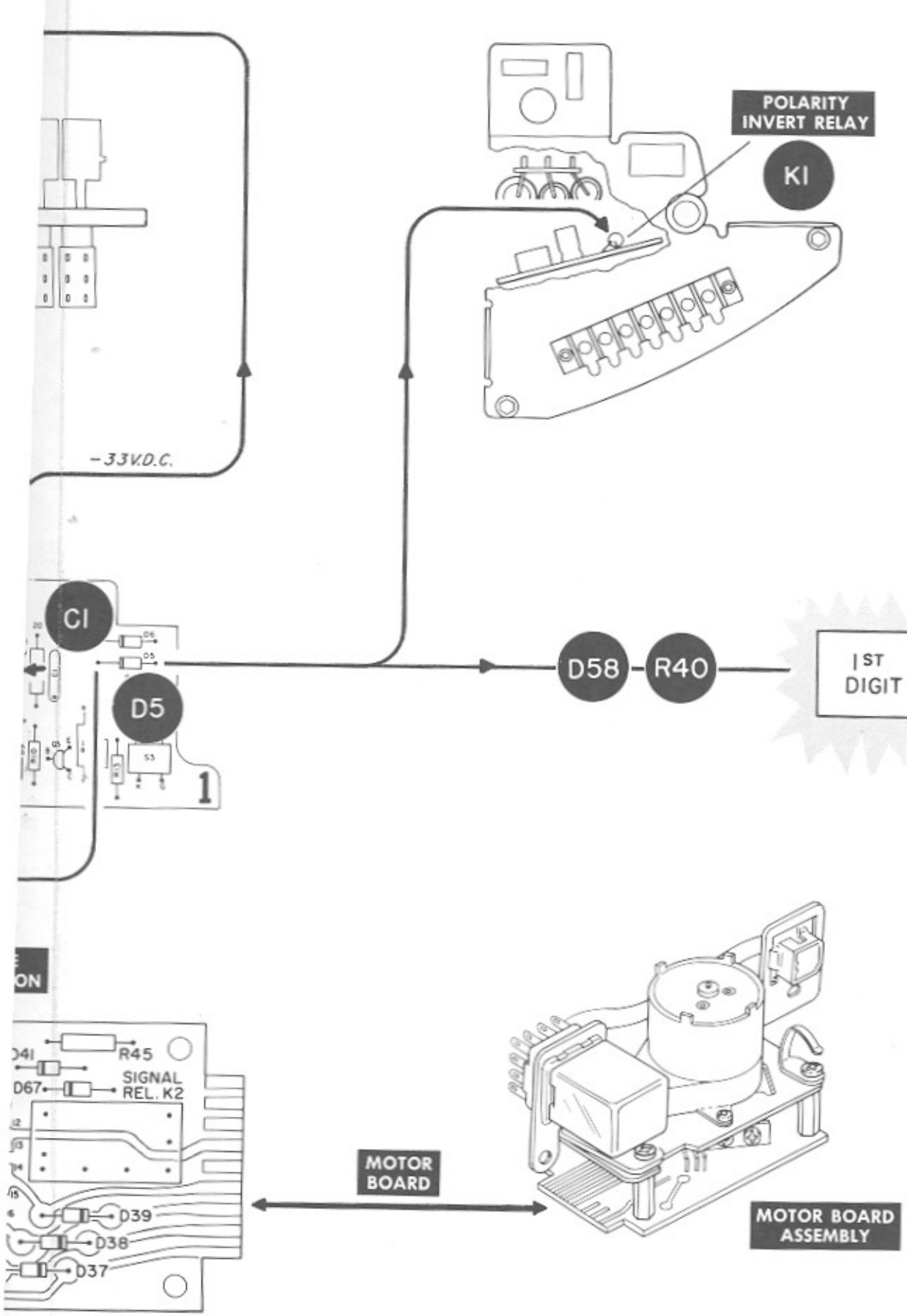
Upon pressing PB switch #1 (for example), Capacitor C1 previously charged to a –33 Vdc, results in a small negative voltage (–.7Vdc) pulse being applied to the base of Q1 via D1. This causes Q1 to cut off which in turn raises the collector of Q1 to +21 Vdc; this triggers the gate of SCR S1 which now latches to the "on" state. The conducting SCR S1 causes 3 actions to take place.

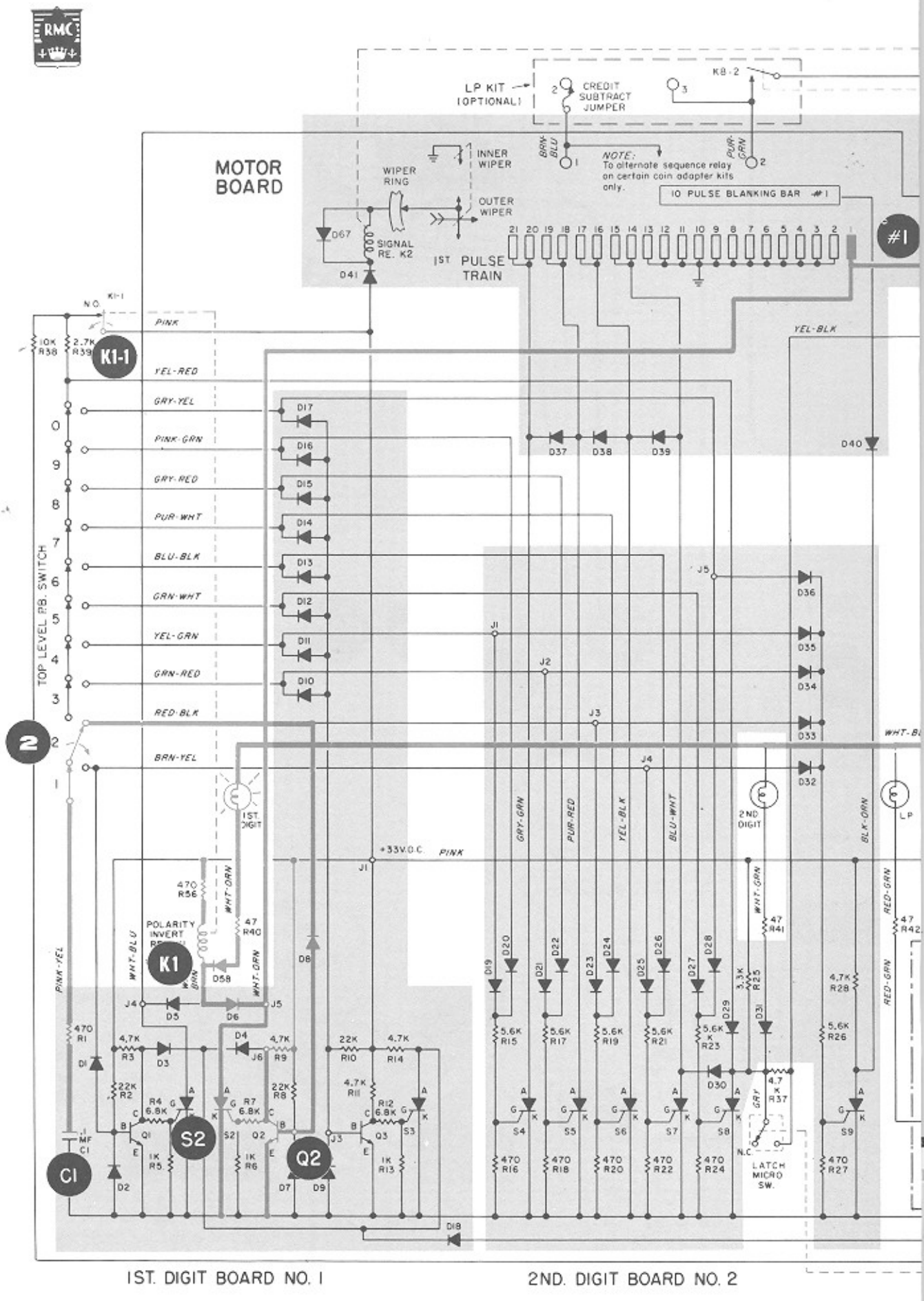
1. Polarity Invert Relay K1 energizes via D5; relay contacts K1–1 close.

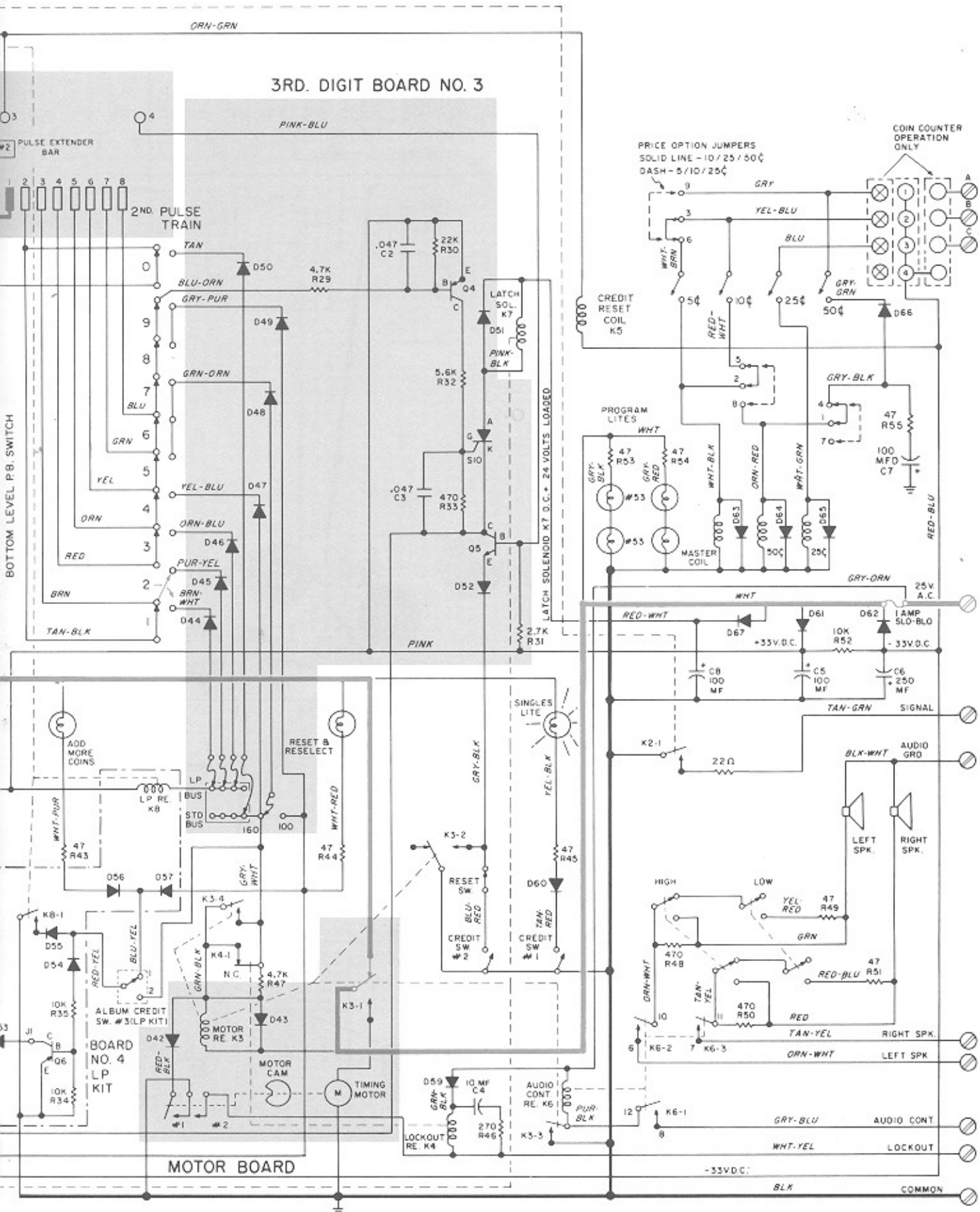
2. 1st Digit lite turns on via D58 and R40.

3. A circuit is connected to the Motor Board "Pulse Extender Bar" #2 which establishes a 180 millisecond time interval between the 1st and 2nd pulse train for proper operation of the receiver.

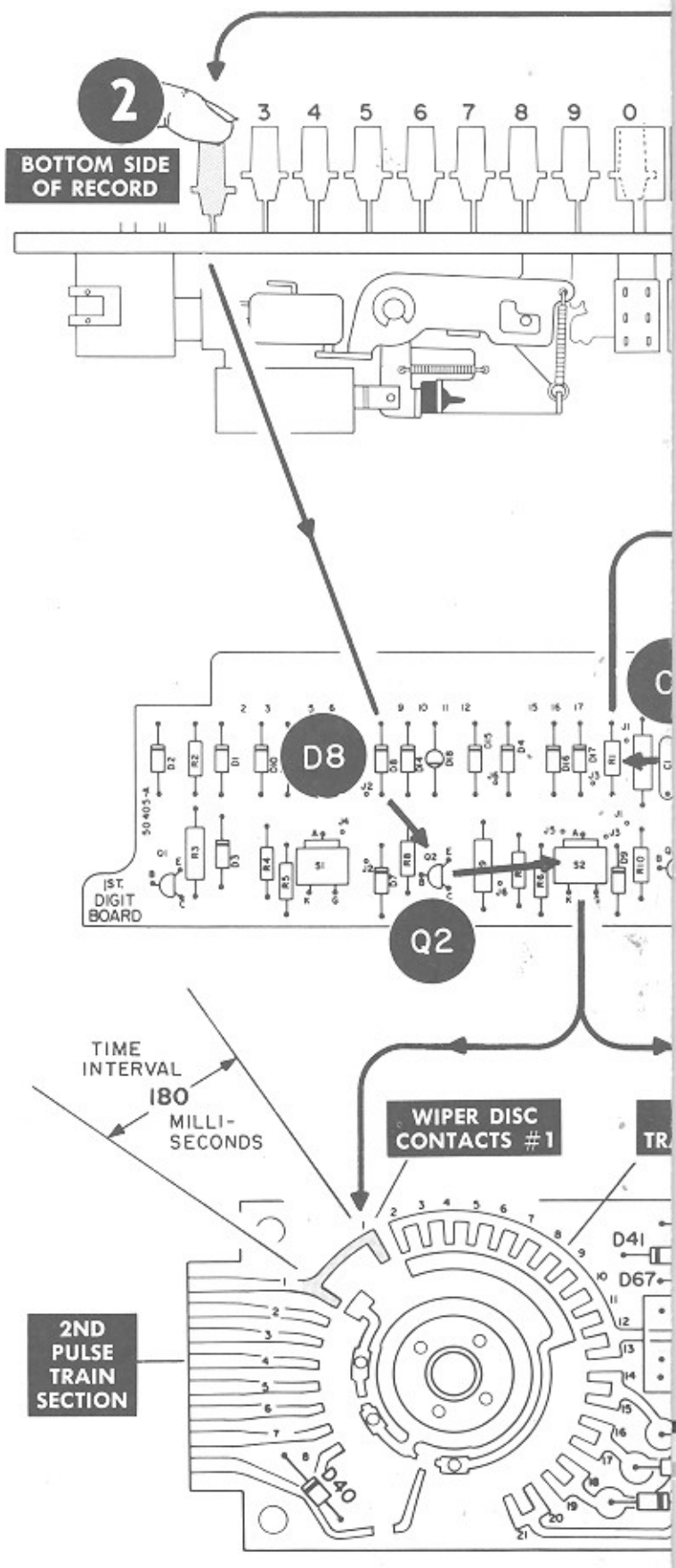
When #1 PB switch returns, Capacitor C1 receives a positive charge (+33 Vdc) via the closed Polarity Invert Relay Contacts K1–1 and thru the back contacts of the Top Level of the PB switch. This positive voltage will trigger the 2nd Digit memory. See Sequence #4.


POLARITY
INVERT RELAY
K1
-33V.D.C.
C1
D5
D58
R40
1ST
DIGIT
R45
SIGNAL
REL. K2
D41
D67
D39
D38
D37
MOTOR
BOARD
MOTOR BOARD
ASSEMBLY


MOTOR BOARD
LP KIT (OPTIONAL)
CREDIT SUBTRACT JUMPER
K8-2
NOTE: To alternate sequence relay on certain coin adapter kits only.
10 PULSE BLANKING BAR #1
INNER WIPER
OUTER WIPER
WIPER RING
SIGNAL RE. K2
1ST PULSE TRAIN
TOP LEVEL P.B. SWITCH
K1-1
K1
S2
Q2
C1
PINK
YEL-RED
GRY-YEL
PINK-GRN
GRY-RED
PUR-WHT
BLU-BLK
GRN-WHT
YEL-GRN
GRN-RED
RED-BLK
BRN-YEL
YEL-BLK
WHT-BLU
WHT-ORN
BRN
PINK-YEL
+33V.D.C.
GRY-GRN
PUR-RED
BLU-WHT
BLK-ORN
RED-GRN
1ST DIGIT
2ND DIGIT
LP
LATCH MICRO SW.
1ST. DIGIT BOARD NO. 1
2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
PULSE EXTENDER BAR
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
ORN-GRN
PINK-BLU
TAN
BLU-ORN
GRY-PUR
GRN-ORN
BLU
GRN
YEL
YEL-BLU
ORN
ORN-BLU
RED
PUR-YEL
BRN
BRN-WHT
TAN-BLK
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
Q4
LATCH SOL. K7
D51
PINK-BLK
5.6K R32
S10
.047 C3
470 R33
Q5
D52
2.7K R31
LATCH SOLENOID K7 D.C.+ 24 VOLTS LOADED
PINK
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-BRN
GRY-GRN
5¢
10¢
25¢
50¢
D66
CREDIT RESET COIL K5
RED-WHT
GRY-BLK
47 R55
100 MFD C7
RED-BLU
PROGRAM LITES
WHT
47 R53
47 R54
GRY-BLK
GRY-RED
#53
WHT-BLK
ORN-RED
WHT-GRN
D63
D64
D65
MASTER COIL
GRY-ORN
25V A.C.
WHT
RED-WHT
D67
D61
D62
1 AMP SLO-BLO
+33V.D.C.
10K R52
-33V.D.C.
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
22Ω
BLK-WHT
AUDIO GRD
LEFT SPK.
RIGHT SPK.
ADD MORE COINS
RESET & RESELECT
LP
LP RE. K8
BUS
STD BUS
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
GRY-WHT
D56
D57
K3-4
K8-1
D55
D54
RED-YEL
BLU-YEL
K4-1
N.C.
4.7K R47
GRN-BLK
IOK R35
ALBUM CREDIT SW. #3 (LP KIT)
BOARD NO. 4 LP KIT
Q6
IOK R34
MOTOR RE. K3
D43
D42
RED-BLK
MOTOR CAM
#1
#2
K3-1
TIMING MOTOR
M
SINGLES LITE
GRY-BLK
YEL-BLK
K3-2
RESET SW.
BLU-RED
CREDIT SW. #2
TAN-RED
CREDIT SW. #1
47 R45
D60
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
47 R51
RED-BLU
ORN-WHT
TAN-YEL
470 R50
RED
TAN-YEL
RIGHT SPK.
ORN-WHT
LEFT SPK
K6-2
K6-3
D59
10 MF C4
GRN-BLK
270 R46
LOCKOUT RE. K4
AUDIO CONT. RE. K6
PUR-BLK
K3-5
K6-1
GRY-BLU
AUDIO CONT
WHT-YEL
LOCKOUT
-33V.D.C.
BLK
COMMON
MOTOR BOARD

START




## ALTERNATIVE SEQUENCE No. 2
## 1ST DIGIT NUMBER #2 PRESSED

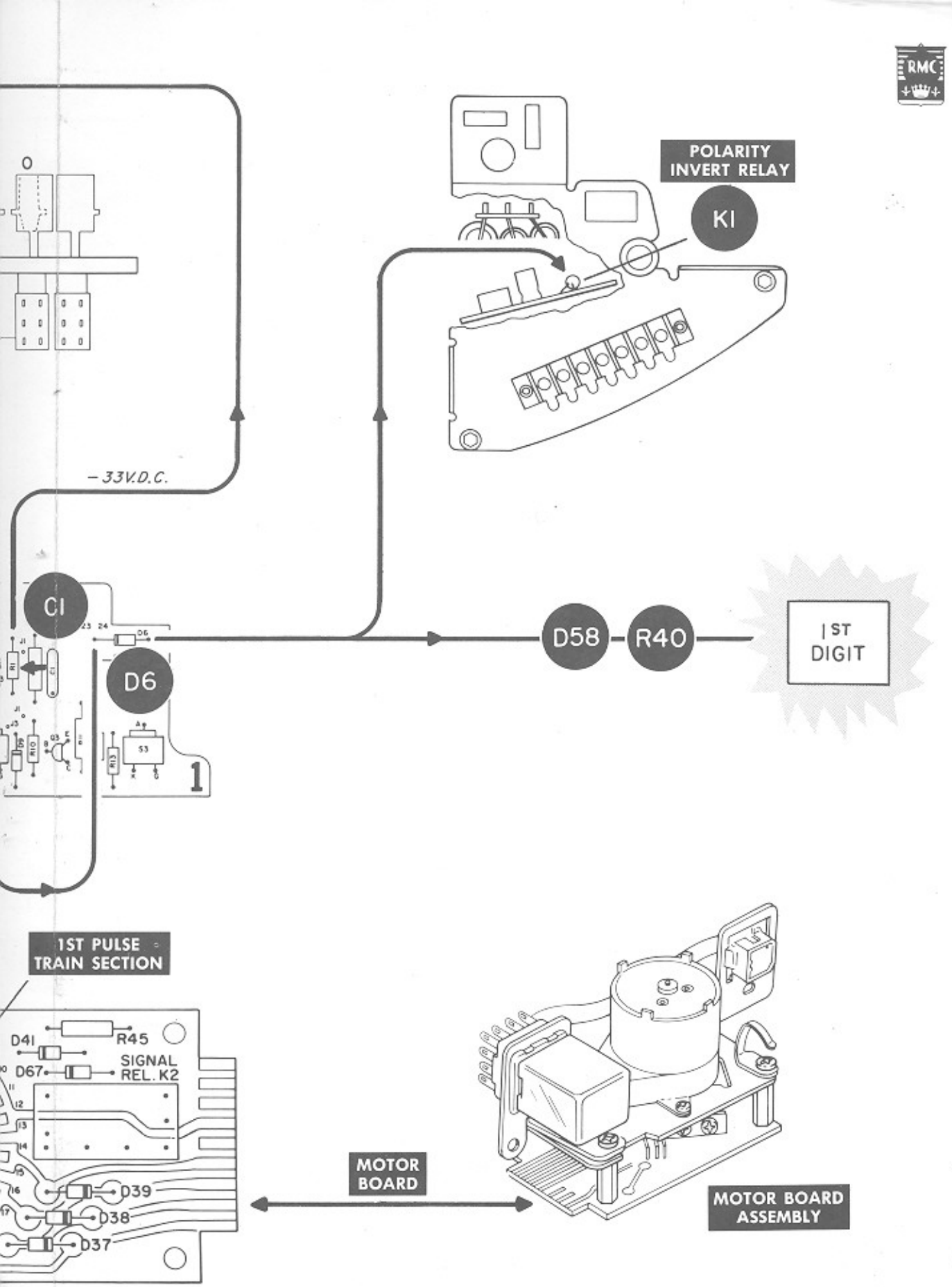
In this example PB switch #2 is pressed for the 1st Digit. Capacitor C1 discharge pulse now is applied to the base of Q2 via D8. This causes Q2 to cut off which in turn raises the collector of Q2 to +21 Vdc; this triggers the gate of SCR S2 which now latches to the "on" state. The conducting SCR S2 causes the following actions to take place.

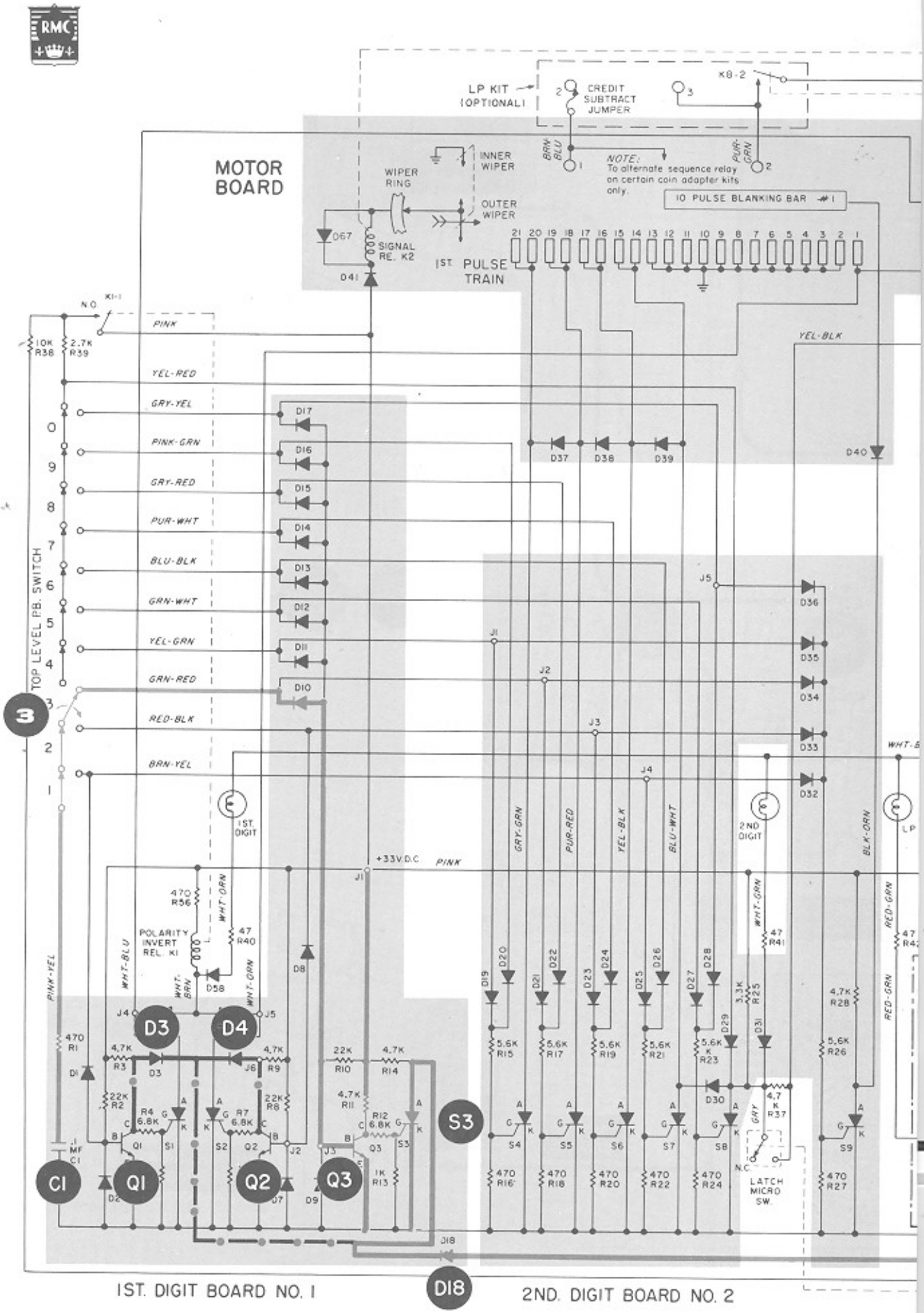
1. Polarity Invert Relay K1 energizes via D6; relay contacts K1–1 close.

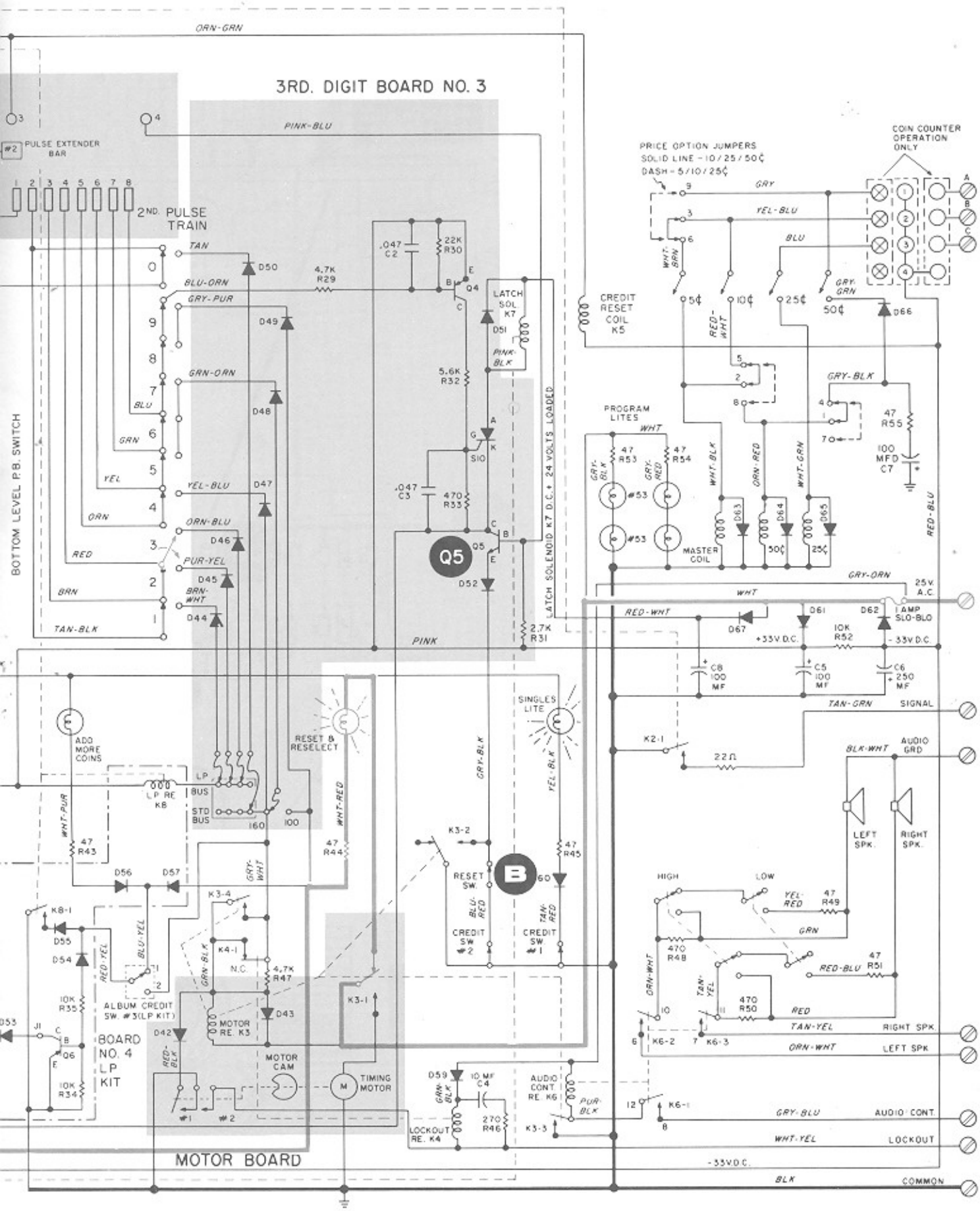
2. 1st Digit lite turns on via D58 and R40.

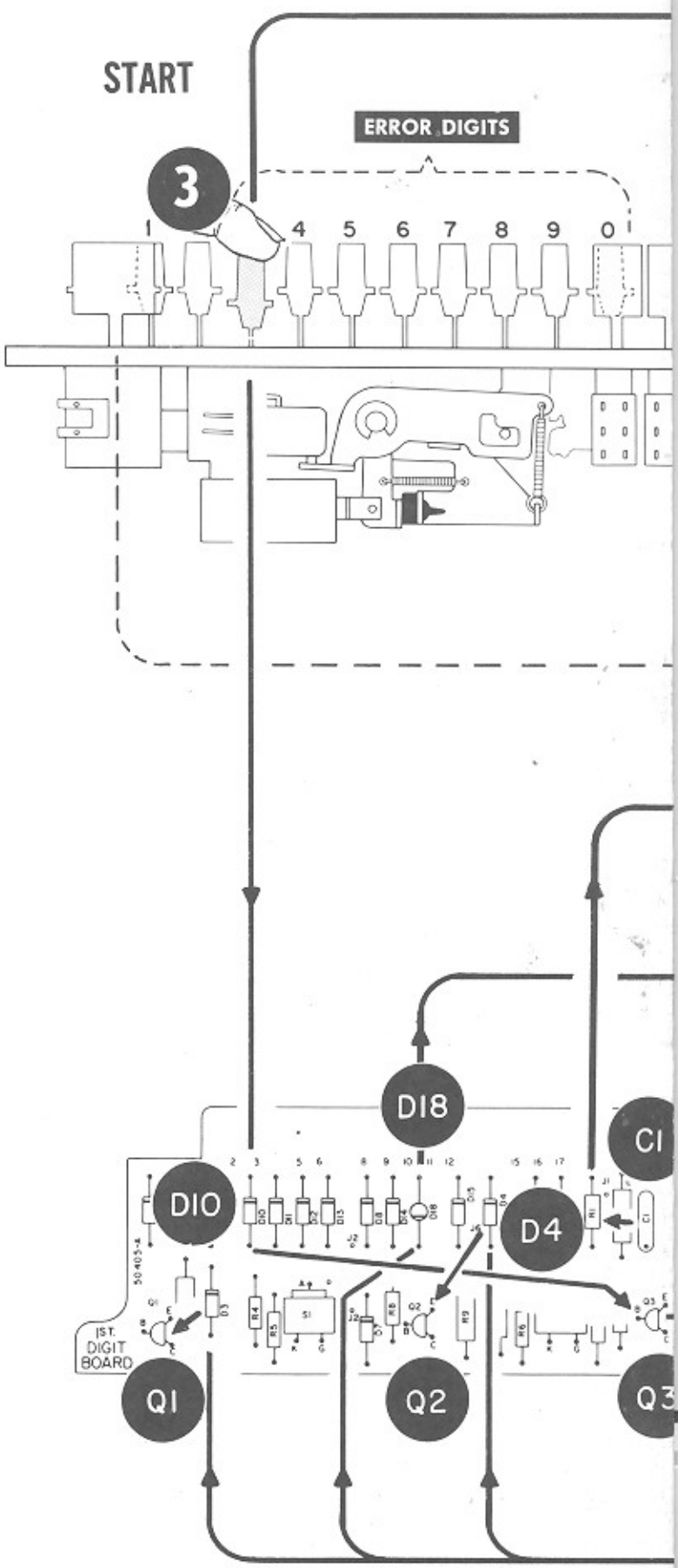
3. The 180 millisecond time interval between the 1st and 2nd pulse trains now will be maintained by the "live" Wiper Disc Contacts #1 connected by the "on" state of SCR S2.

When #2 PB switch returns, Capacitor C1 receives a positive charge (+33 Vdc) via the closed Polarity Invert Relay Contacts K1–1 which will be the trigger for the 2nd Digit memory.


POLARITY
INVERT RELAY
K1
-33V.D.C.
C1
D6
D58
R40
1ST
DIGIT
1ST PULSE
TRAIN SECTION
D41
R45
D67
SIGNAL
REL. K2
D39
D38
D37
MOTOR
BOARD
MOTOR BOARD
ASSEMBLY


MOTOR BOARD
LP KIT (OPTIONAL)
CREDIT SUBTRACT JUMPER
K8-2
NOTE: To alternate sequence relay on certain coin adapter kits only.
INNER WIPER
WIPER RING
OUTER WIPER
SIGNAL RE. K2
1ST PULSE TRAIN
10 PULSE BLANKING BAR
TOP LEVEL PB. SWITCH
PINK
YEL-RED
GRY-YEL
PINK-GRN
GRY-RED
PUR-WHT
BLU-BLK
GRN-WHT
YEL-GRN
GRN-RED
RED-BLK
BRN-YEL
YEL-BLK
1ST. DIGIT
2ND DIGIT
LP
+33V.D.C.
POLARITY INVERT REL. K1
LATCH MICRO SW.
1ST. DIGIT BOARD NO. 1
2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
ORN-GRN
PINK-BLU
PULSE EXTENDER BAR
#2
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
TAN
BLU-ORN
GRY-PUR
GRN-ORN
YEL-BLU
ORN-BLU
PUR-YEL
BRN-WHT
TAN-BLK
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
Q4
LATCH SOL. K7
D51
PINK-BLK
5.6K R32
S10
.047 C3
470 R33
Q5
D52
2.7K R31
LATCH SOLENOID K7 D.C.+ 24 VOLTS LOADED
PINK
PRICE OPTION JUMPERS
SOLID LINE = 10/25/50¢
DASH = 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-GRN
GRY-GRN
5¢
10¢
25¢
50¢
D66
CREDIT RESET COIL K5
RED-WHT
GRY-BLK
47 R55
100 MFD C7
RED-BLU
PROGRAM LITES
WHT
47 R53
47 R54
#53
MASTER COIL
WHT-BLK
ORN-RED
WHT-GRN
D63
D64
D65
50¢
25¢
GRY-ORN
25 V. A.C.
WHT
RED-WHT
D67
D61
D62
LAMP SLO-BLO
+33 V.D.C.
10K R52
-33 V.D.C.
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
22Ω
BLK-WHT
AUDIO GRD
LEFT SPK.
RIGHT SPK.
ADD MORE COINS
RESET & RESELECT
SINGLES LITE
LP
LP RE. K8
BUS
STD BUS
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
GRY-BLK
YEL-BLK
47 R45
K3-2
RESET SW.
60
BLU-RED
TAN-RED
CREDIT SW. #2
CREDIT SW. #1
D56
D57
GRY-WHT
K3-4
K8-1
D55
D54
RED-YEL
BLU-YEL
K4-1
N.C.
4.7K R47
ALBUM CREDIT SW. #3 (LP KIT)
10K R35
10K R34
Q6
J1
D53
BOARD NO. 4 LP KIT
MOTOR RE. K3
D43
D42
RED-BLK
MOTOR CAM
TIMING MOTOR
K3-1
#1
#2
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
47 R51
RED-BLU
ORN-WHT
TAN-YEL
470 R50
RED
RIGHT SPK.
LEFT SPK.
K6-2
K6-3
D59
10 MF C4
GRN-BLK
270 R46
LOCKOUT RE. K4
AUDIO CONT RE. K6
PUR-BLK
K6-1
K3-3
GRY-BLU
AUDIO CONT.
WHT-YEL
LOCKOUT
-33 V.D.C.
BLK
COMMON
MOTOR BOARD




## SEQUENCE No. 3
## INCORRECT 1ST DIGIT NUMBER PRESSED

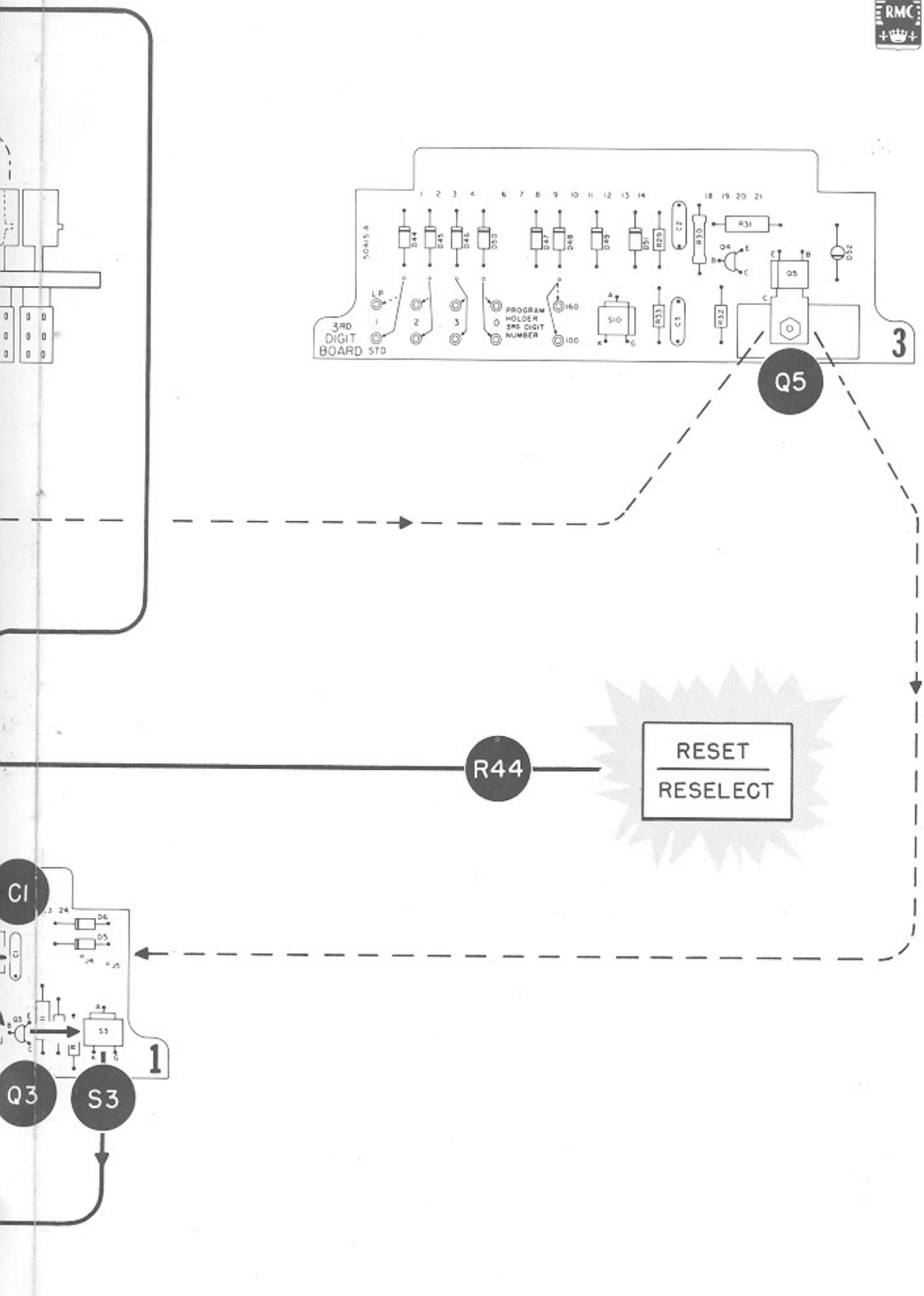
Error Digit numbers #3 thru #0 if pressed for the 1st Digit result in a "no go" condition. Error Digit number #3 pressed for this example.

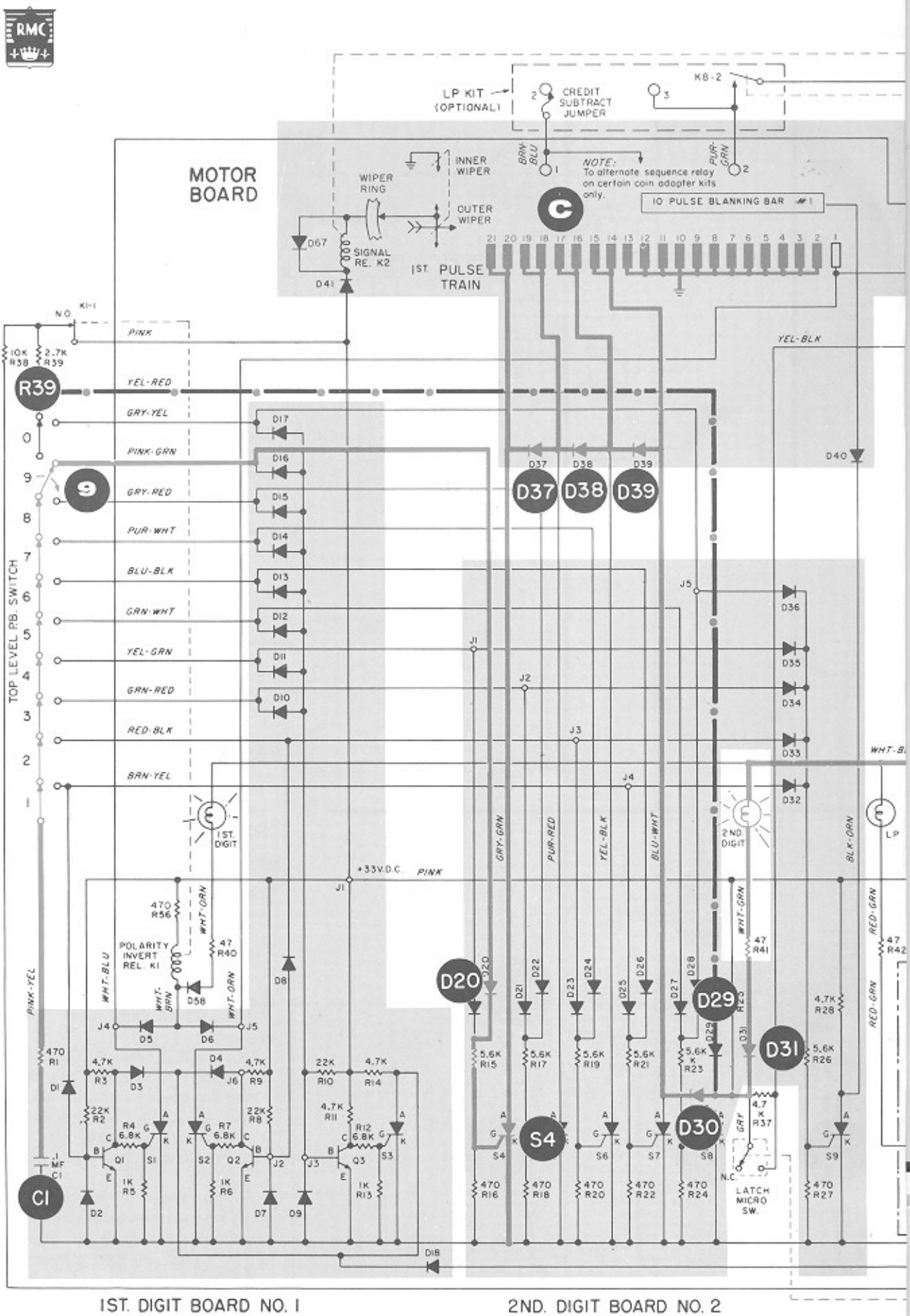
Capacitor C1 (previously charged to a negative 33 Vdc) now applies a small negative voltage (–.7 Vdc) pulse to the base of Q3. This causes Q3 to cut off which in turn raises the collector of Q3 to +33 Vdc; this triggers the gate of SCR S3 which now latches to the "on" state. The conducting SCR S3 causes the following:

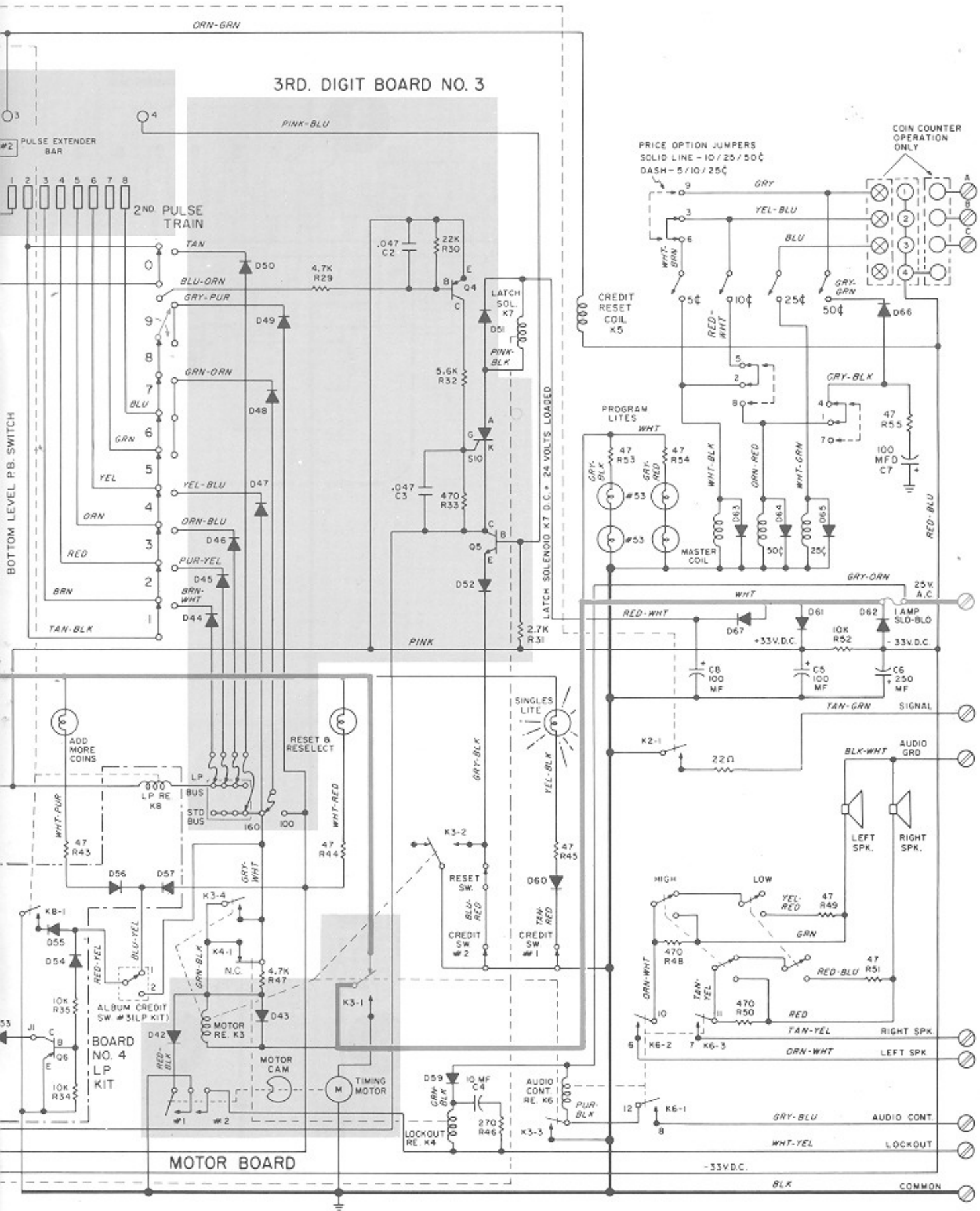
1. "Reset Reselect" lamp turns on via D18.

2. Current flow thru D3, D4 and SCR S3 now clamps the collector voltage of Q1 and Q2 to about plus 1 Vdc; this low voltage prevents the triggering of either S1 or S2 on subsequent pushbutton operations and thereby stops any further sequences from occurring.

When the Reset Button (B) is pressed, the Q5 emitter circuit is disconnected which opens the common bus to the 1st Digit memory thus resetting the selection system to "Select Any Single" condition.


3RD DIGIT BOARD ST0
PROGRAM HOLDER 3RD DIGIT NUMBER
Q5
R44
RESET
RESELECT
C1
Q3
S3


MOTOR BOARD
LP KIT (OPTIONAL)
CREDIT SUBTRACT JUMPER
KB-2
NOTE: To alternate sequence relay on certain coin adapter kits only.
INNER WIPER
OUTER WIPER
WIPER RING
SIGNAL RE. K2
1ST. PULSE TRAIN
10 PULSE BLANKING BAR
TOP LEVEL PB. SWITCH
POLARITY INVERT REL. K1
1ST. DIGIT
2ND. DIGIT
LATCH MICRO SW.
+33V.D.C.
IST. DIGIT BOARD NO. 1
2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
MOTOR BOARD
BOARD NO. 4 LP KIT
BOTTOM LEVEL P.B. SWITCH
PULSE EXTENDER BAR
2ND. PULSE TRAIN
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
CREDIT RESET COIL K5
LATCH SOL. K7
LATCH SOLENOID K7 D.C. + 24 VOLTS LOADED
PROGRAM LITES
MASTER COIL
ADD MORE COINS
RESET & RESELECT
SINGLES LITE
RESET SW.
CREDIT SW #2
CREDIT SW #1
ALBUM CREDIT SW #3 (LP KIT)
MOTOR RE. K3
MOTOR CAM
TIMING MOTOR
AUDIO CONT. RE. K6
LOCKOUT RE. K4
LP RE K8
LEFT SPK.
RIGHT SPK.
25V. A.C.
+33V.D.C.
-33V.D.C.
SIGNAL
AUDIO GRD
AUDIO CONT.
LOCKOUT
COMMON
ORN-GRN
PINK-BLU
TAN
BLU-ORN
GRY-PUR
GRN-ORN
YEL-BLU
ORN-BLU
PUR-YEL
BRN-WHT
TAN-BLK
PINK
GRY
YEL-BLU
BLU
GRY-GRN
RED-WHT
GRY-BLK
WHT
WHT-BLK
ORN-RED
WHT-GRN
RED-BLU
GRY-ORN
RED-WHT
WHT
TAN-GRN
BLK-WHT
GRY-BLK
YEL-BLK
WHT-RED
GRY-WHT
BLU-RED
TAN-RED
BLU-YEL
RED-YEL
GRN-BLK
YEL-RED
GRN
ORN-WHT
TAN-YEL
RED
PUR-BLK
GRN-BLK
WHT-YEL
BLK
22K R30
.047 C2
4.7K R29
5.6K R32
470 R33
.047 C3
2.7K R31
47 R53
47 R54
47 R55
100 MFD C7
47 R43
47 R44
47 R45
47 R49
470 R48
47 R51
470 R50
4.7K R47
10K R35
10K R34
10K R52
270 R46
10 MF C4
C8 100 MF
C5 100 MF
C6 250 MF
22Ω
1 AMP SLO-BLO
D50
D49
D48
D47
D46
D45
D44
D52
D51
D66
D63
D64
D65
D67
D61
D62
D56
D57
D60
D55
D54
D43
D42
D59
Q4
Q5
Q6
S10
5¢
10¢
25¢
50¢
50¢
25¢
160
100
K3-2
K3-4
K4-1
N.C.
K3-1
K2-1
K6-2
K6-3
K6-1
K3-3
HIGH
LOW
#1
#2
#3
#53
#53

## SEQUENCE No. 4
## TYPICAL CIRCUIT FOR 2ND DIGIT NUMBERS 5 TO 9
## 2ND DIGIT #9 PRESSED

The 2nd Digit of a selection relates to a record. (Not record side).

Pressing PB Switch #9 as in this example, the down position discharges the positive charge of Capacitor C1 previously stored by the operation of the Polarity Invert Relay K1 in the 1st Digit memory.

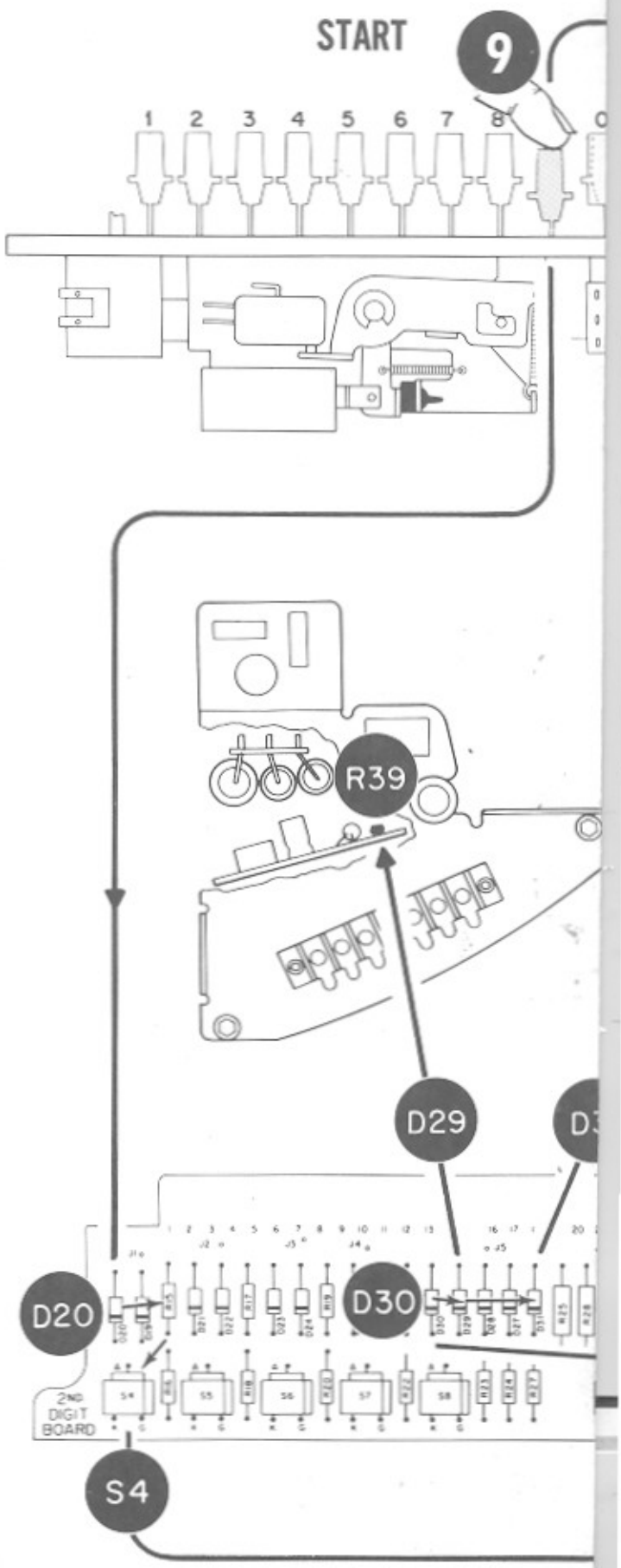
The discharge pulse is applied to the gate of SCR S4 via D20 which triggers S4 to the "on" state causing the following to take place.

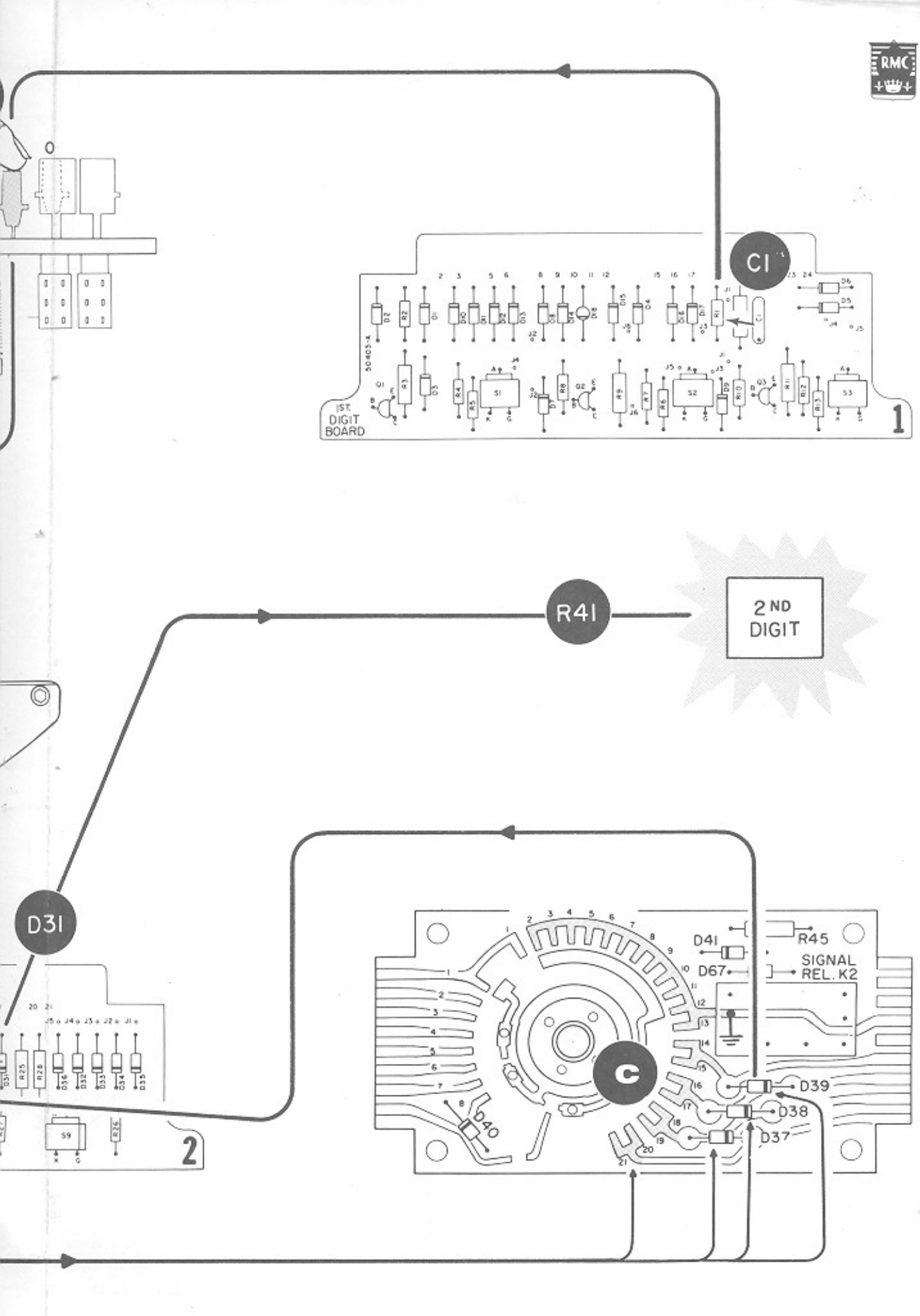
1. The 2nd Digit lite turns on via D37, D38, D39, D30 and D31 in addition to activating Wiper Disc Contacts #14 thru #21 at (C).

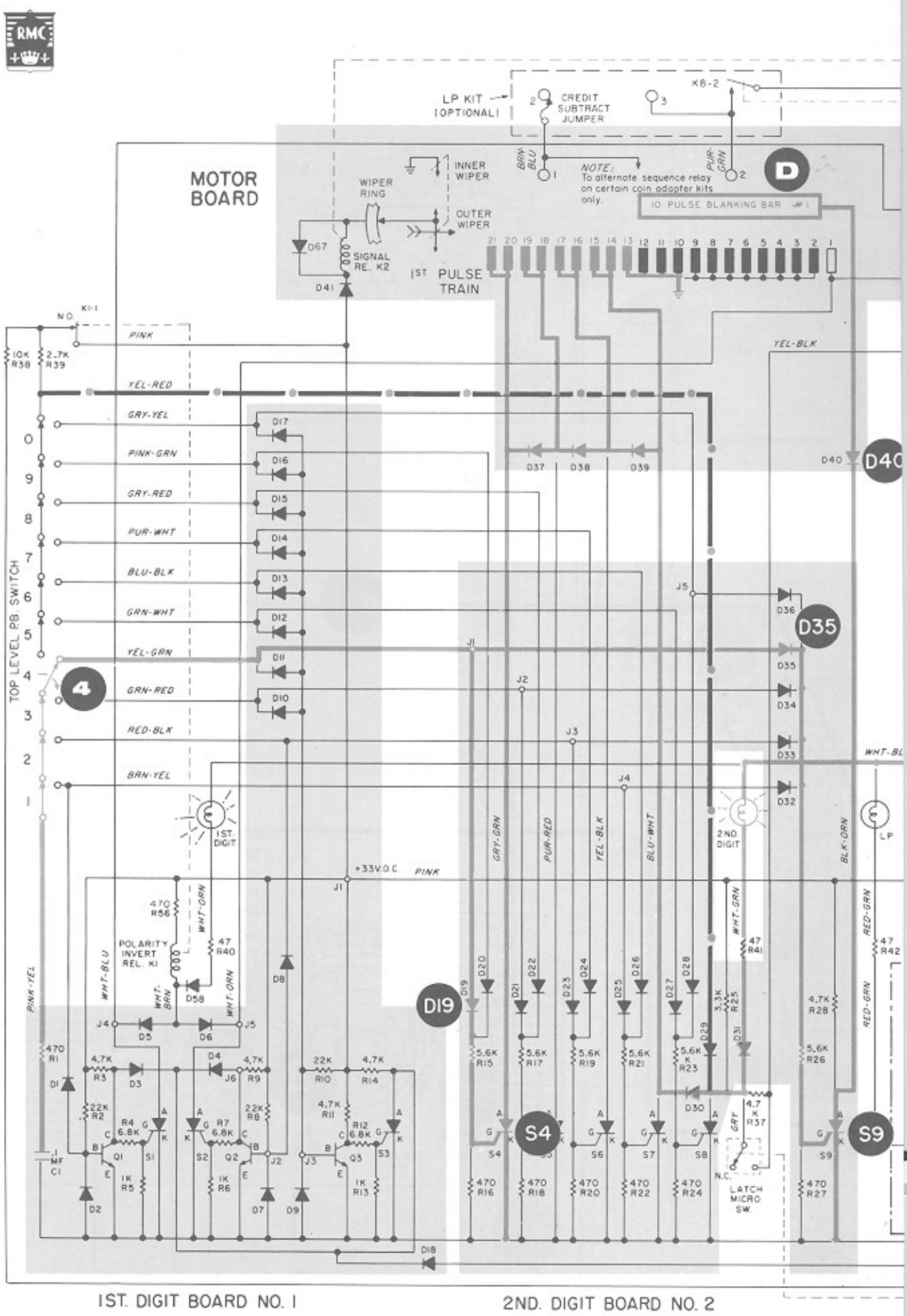
Since Disc Contacts #2 thru #13 are normally grounded, a total of 20 pulses will be conveyed to the Receiver for storage of the 2nd Digit selection No. 9.

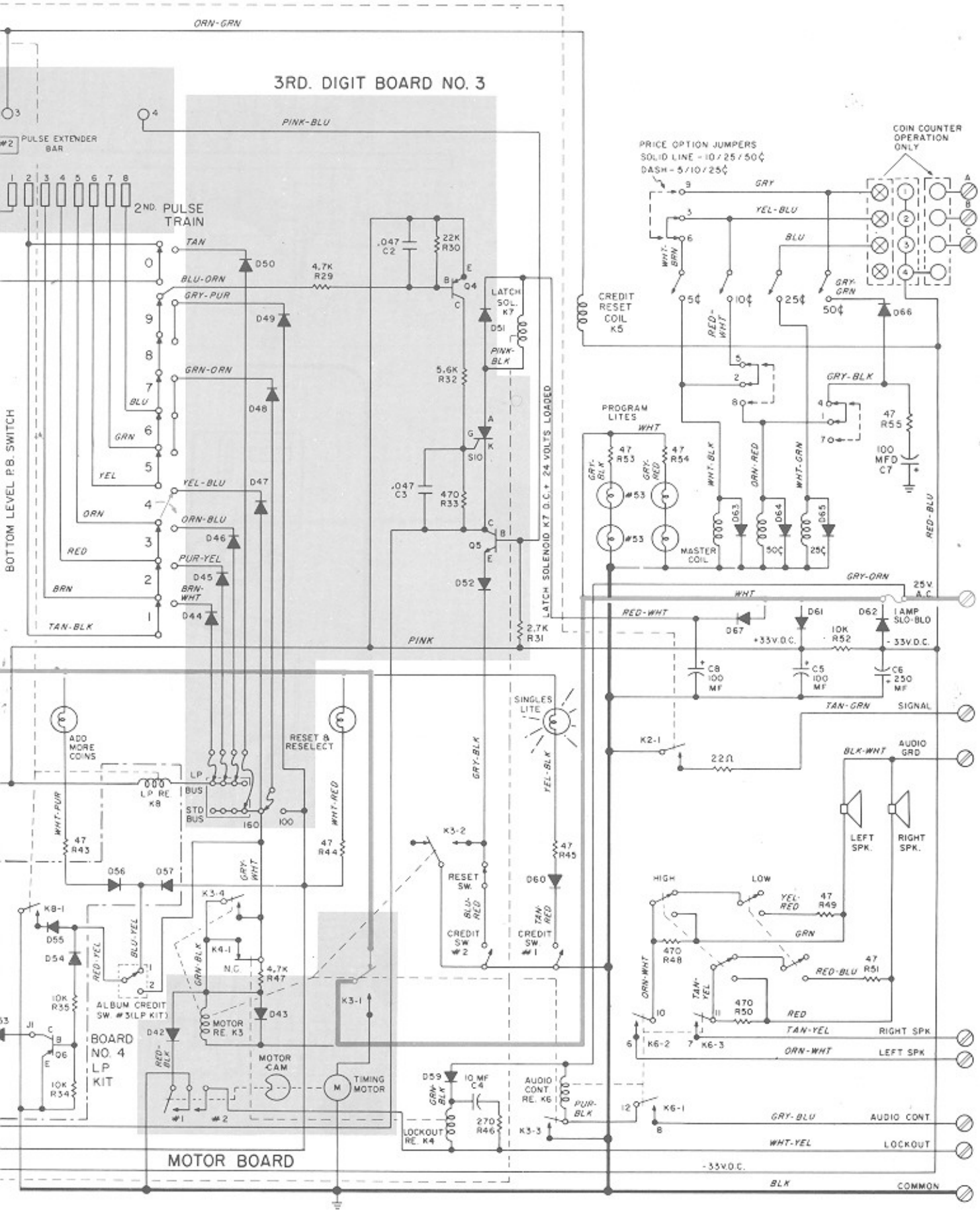
2. The circuit established via D29 now clamps the voltage at the Top Level PB end of resister R39 to about 2 Vdc; value of this voltage now is too low to trigger any other SCR in the 2nd Digit memory on subsequent pushbutton operations.

No further action takes place until PB Switch No. 9 returns and is explained in Sequence No. 6.




RMC
C1
1ST DIGIT BOARD
1
R41
2 ND DIGIT
D31
C
D41
D67
R45
SIGNAL REL. K2
D39
D38
D37
D40
2


MOTOR BOARD
LP KIT (OPTIONAL)
CREDIT SUBTRACT JUMPER
K8-2
NOTE: To alternate sequence relay on certain coin adapter kits only.
INNER WIPER
OUTER WIPER
WIPER RING
SIGNAL RE. K2
1ST. PULSE TRAIN
10 PULSE BLANKING BAR #1
TOP LEVEL P.B. SWITCH
PINK
YEL-RED
GRY-YEL
PINK-GRN
GRY-RED
PUR-WHT
BLU-BLK
GRN-WHT
YEL-GRN
GRN-RED
RED-BLK
BRN-YEL
YEL-BLK
WHT-BL
+33V.D.C.
POLARITY INVERT REL. K1
1ST. DIGIT
2ND. DIGIT
LP
LATCH MICRO SW.
1ST. DIGIT BOARD NO. 1
2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
PULSE EXTENDER BAR
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
ORN-GRN
PINK-BLU
TAN
BLU-ORN
GRY-PUR
GRN-ORN
BLU
GRN
YEL
YEL-BLU
ORN
ORN-BLU
RED
PUR-YEL
BRN
BRN-WHT
TAN-BLK
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
Q4
LATCH SOL. K7
D51
PINK-BLK
5.6K R32
S10
.047 C3
470 R33
Q5
D52
2.7K R31
LATCH SOLENOID K7 D.C. + 24 VOLTS LOADED
PINK
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-BRN
GRY-GRN
5¢
10¢
25¢
50¢
D66
CREDIT RESET COIL K5
RED-WHT
GRY-BLK
47 R55
100 MFD C7
PROGRAM LITES
WHT
GRY-BLK
GRY-RED
#53
WHT-BLK
WHT-GRN
ORN-RED
D63
D64
D65
MASTER COIL
50¢
25¢
RED-BLU
GRY-ORN
25V A.C.
WHT
RED-WHT
D67
D61
D62
1 AMP SLO-BLO
+33V.D.C.
10K R52
-33V.D.C.
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
22Ω
BLK-WHT
AUDIO GRD
LEFT SPK.
RIGHT SPK.
ADD MORE COINS
RESET & RESELECT
LP
LP RE. K8
BUS
STD BUS
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
GRY-BLK
YEL-BLK
SINGLES LITE
K3-2
47 R45
RESET SW.
BLU-RED
CREDIT SW. #2
D60
TAN-RED
CREDIT SW. #1
D56
D57
GRY-WHT
K3-4
K8-1
D55
D54
RED-YEL
BLU-YEL
K4-1
N.C.
4.7K R47
GRN-BLK
10K R35
ALBUM CREDIT SW. #3 (LP KIT)
MOTOR RE. K3
D43
D42
RED-BLK
K3-1
BOARD NO. 4 LP KIT
Q6
10K R34
MOTOR CAM
TIMING MOTOR
#1
#2
D59
10 MF C4
GRN-BLK
LOCKOUT RE. K4
270 R46
K3-3
AUDIO CONT RE. K6
PUR-BLK
K6-1
K6-2
K6-3
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
ORN-WHT
TAN-YEL
47 R51
RED-BLU
470 R50
RED
TAN-YEL
RIGHT SPK
ORN-WHT
LEFT SPK
GRY-BLU
AUDIO CONT
WHT-YEL
LOCKOUT
-33V.D.C.
BLK
COMMON
MOTOR BOARD

## SEQUENCE No. 5
## TYPICAL CIRCUIT FOR 2ND DIGIT NUMBERS 0 TO 4
## 2ND DIGIT #4 PRESSED

Note that the pressing of PB Switch #4 activates the same circuits as for PB Switch #9 shown in Sequence No. 4 with these exceptions.

1. S4 now is turned on via D19 and,

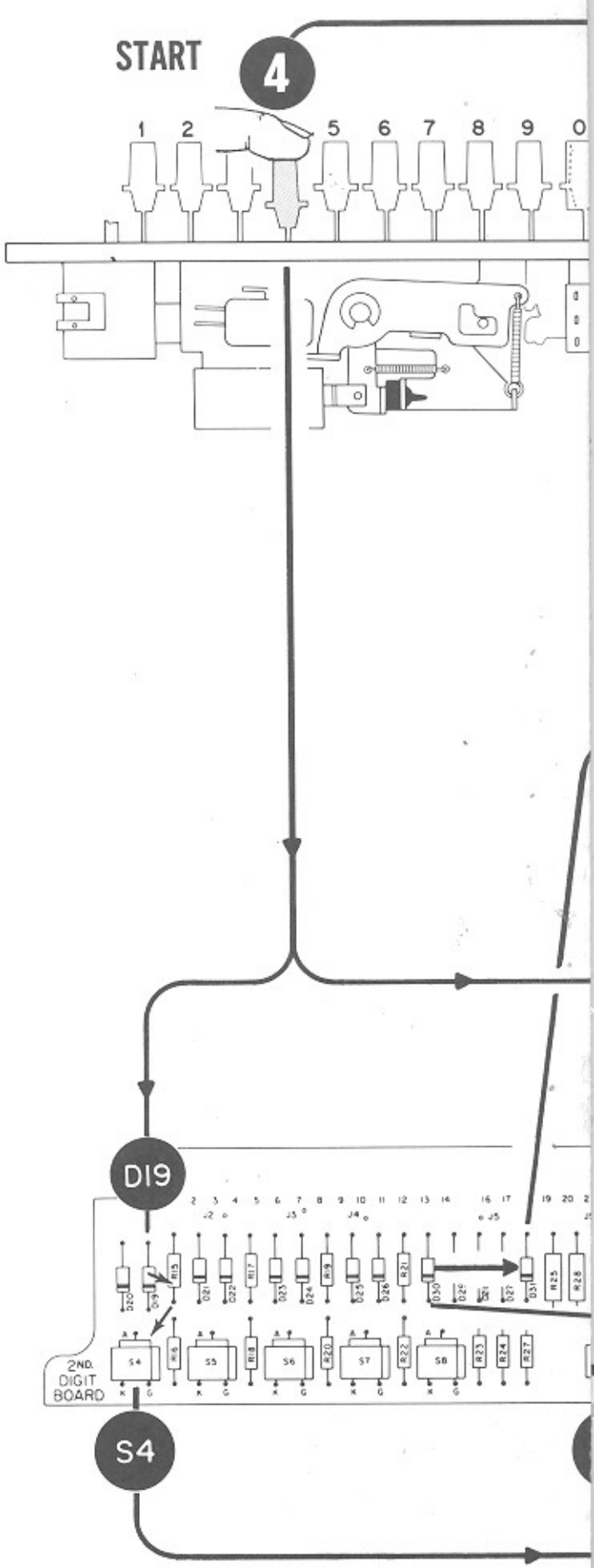
2. SCR S9 is also turned on via D35.

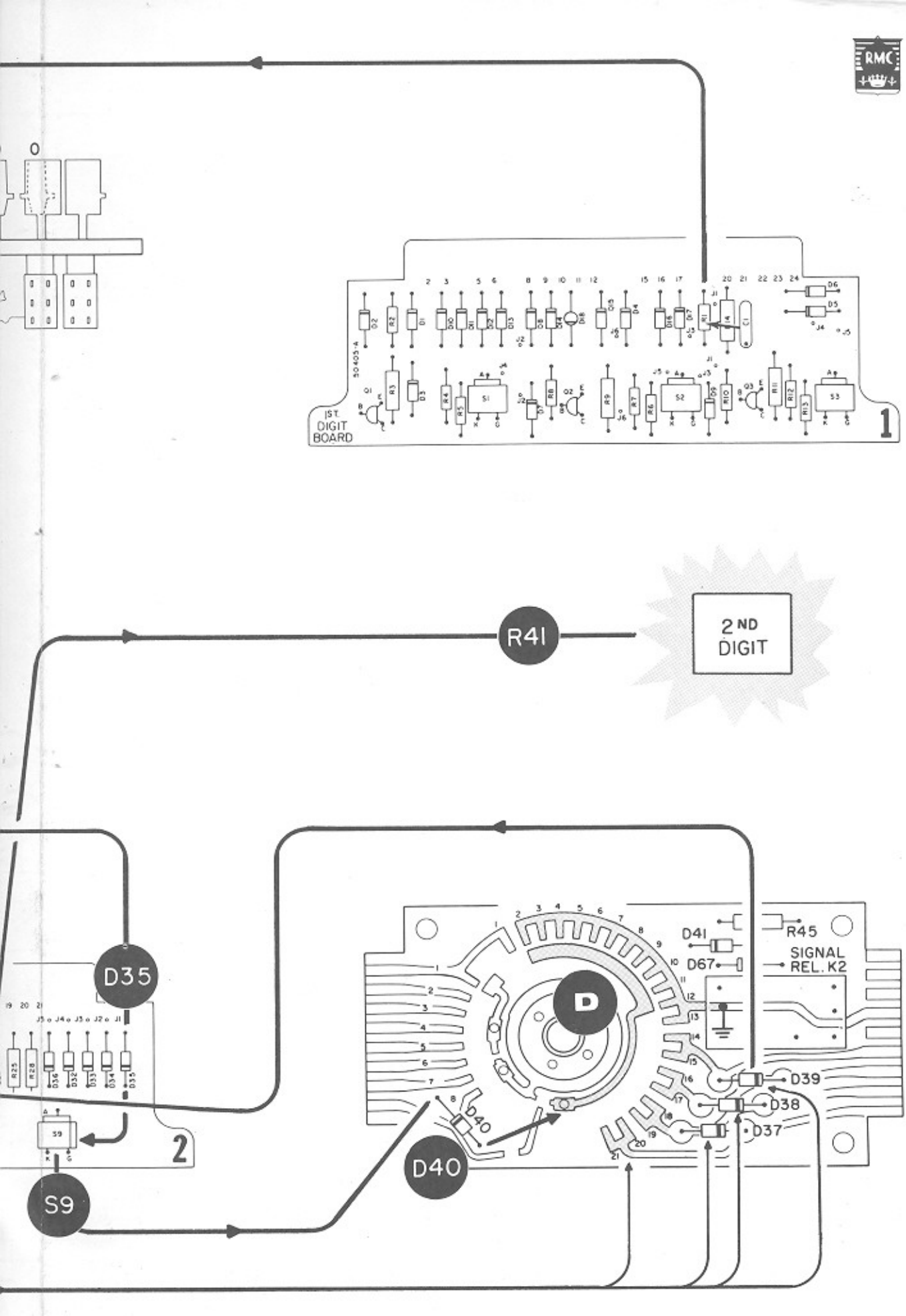
The "on" state of S9 activates the "10 Pulse Blanking Bar" at (D) via D40 which produces one long pulse for the interval the Wiper Disc Contacts #2 thru #12 are blanked out. This results in 10 pulses being subtracted from the total of 20 in the 1st Pulse Train which is the correct code to key the Receiver for storage of the 2nd Digit No. 4.

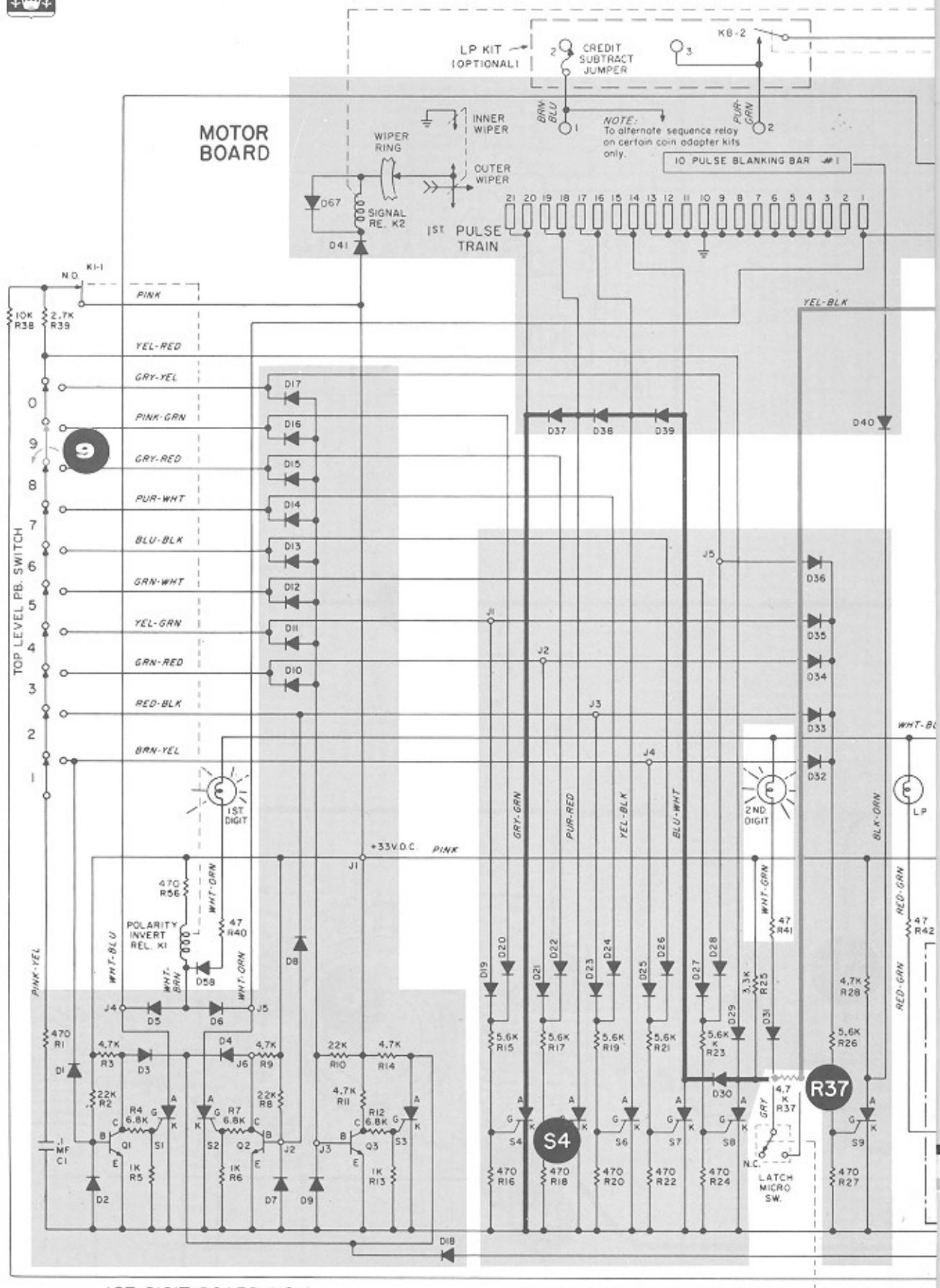
This typical circuit arrangement also prevails for selections,

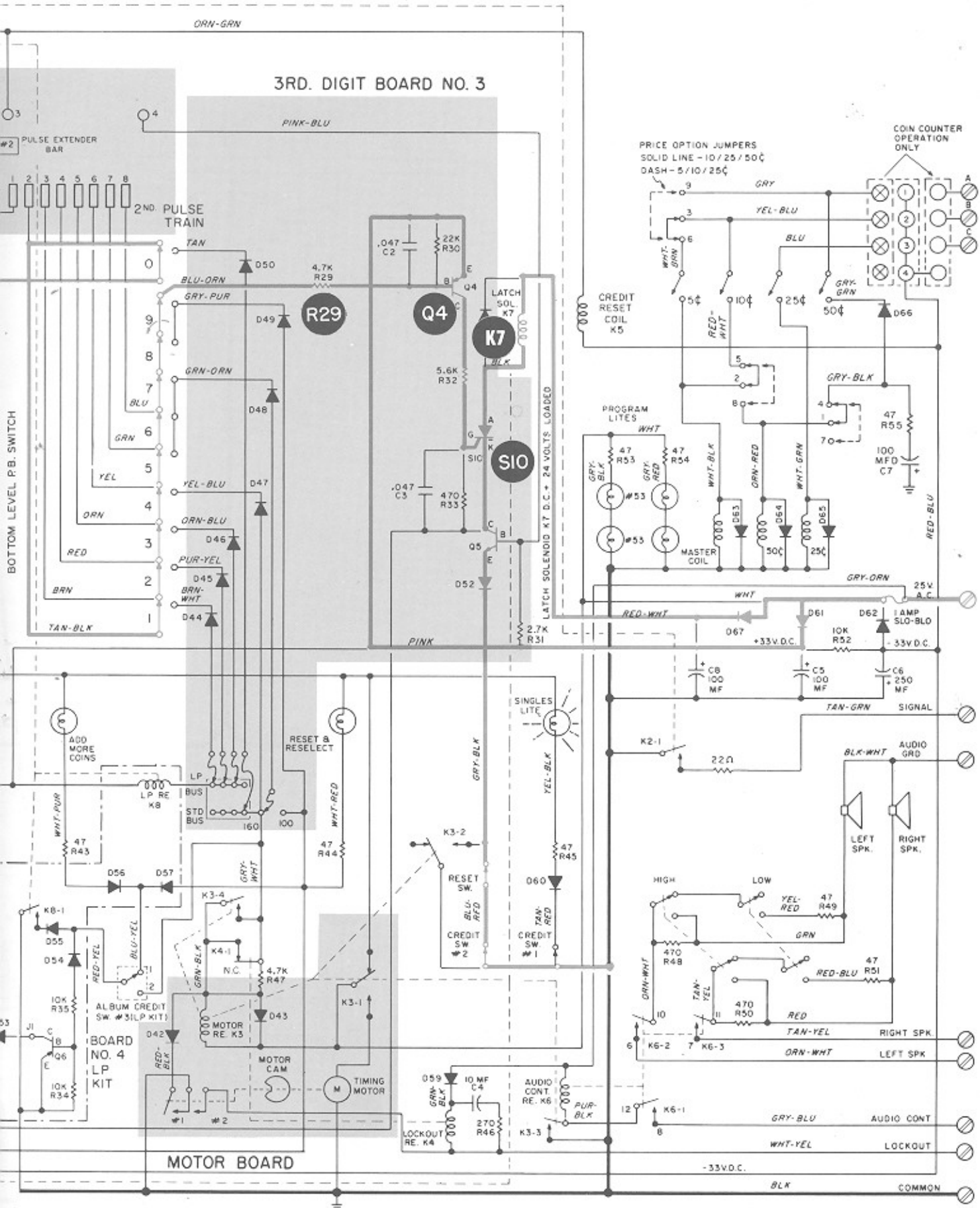
3 and 8
2 and 7
1 and 6
0 and 5 and activates

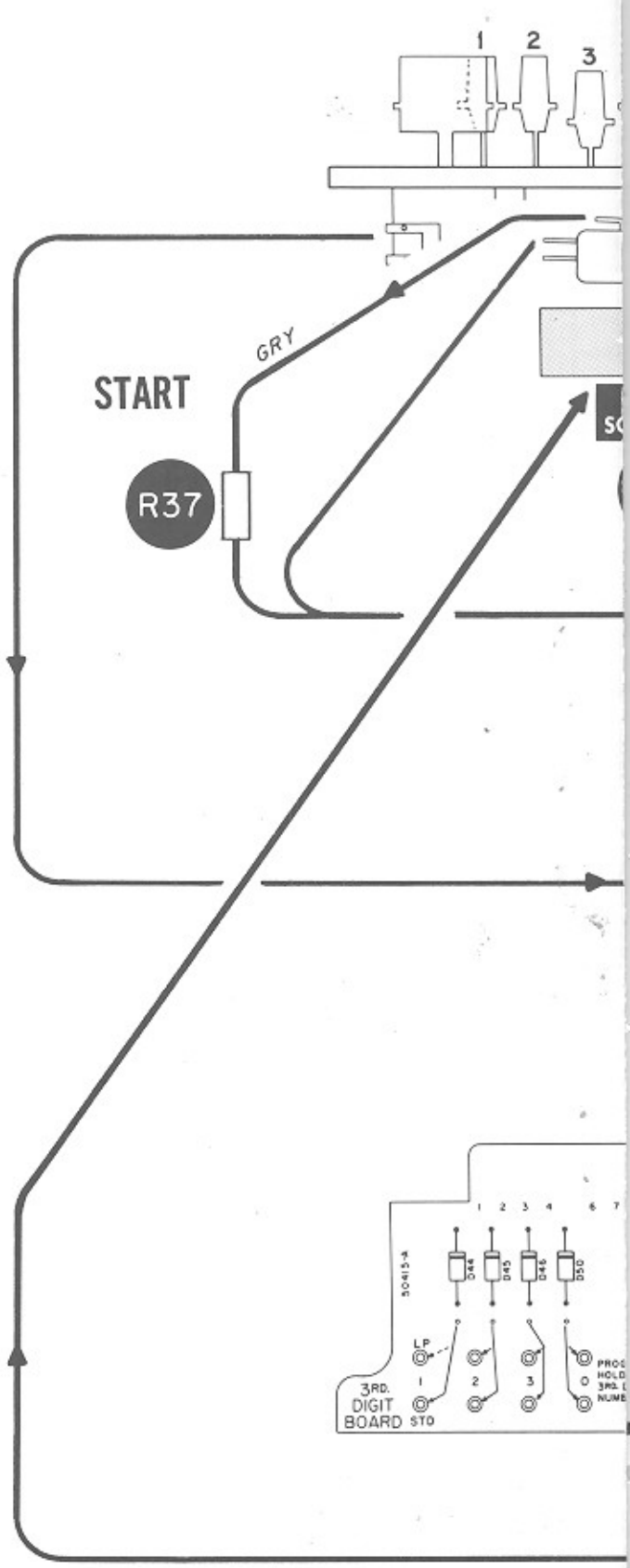
the "10 Pulse Blanking Bar" only on 2nd Digit numbers 0, 1, 2, 3, and 4.




RMC
0
1ST. DIGIT BOARD
1
R41
2 ND DIGIT
D35
2
S9
D40
D
D41
D67
R45
SIGNAL REL. K2
D39
D38
D37
D40


MOTOR BOARD
LP KIT (OPTIONAL)
CREDIT SUBTRACT JUMPER
KB-2
NOTE: To alternate sequence relay on certain coin adapter kits only.
10 PULSE BLANKING BAR #1
INNER WIPER
OUTER WIPER
WIPER RING
SIGNAL RE. K2
1ST PULSE TRAIN
TOP LEVEL PB. SWITCH
PINK
YEL-RED
GRY-YEL
PINK-GRN
GRY-RED
PUR-WHT
BLU-BLK
GRN-WHT
YEL-GRN
GRN-RED
RED-BLK
BRN-YEL
YEL-BLK
WHT-BL
+33V.D.C.
1ST DIGIT
2ND DIGIT
LP
POLARITY INVERT REL. K1
LATCH MICRO SW.
S4
R37
1ST. DIGIT BOARD NO. 1
2ND. DIGIT BOARD NO. 2

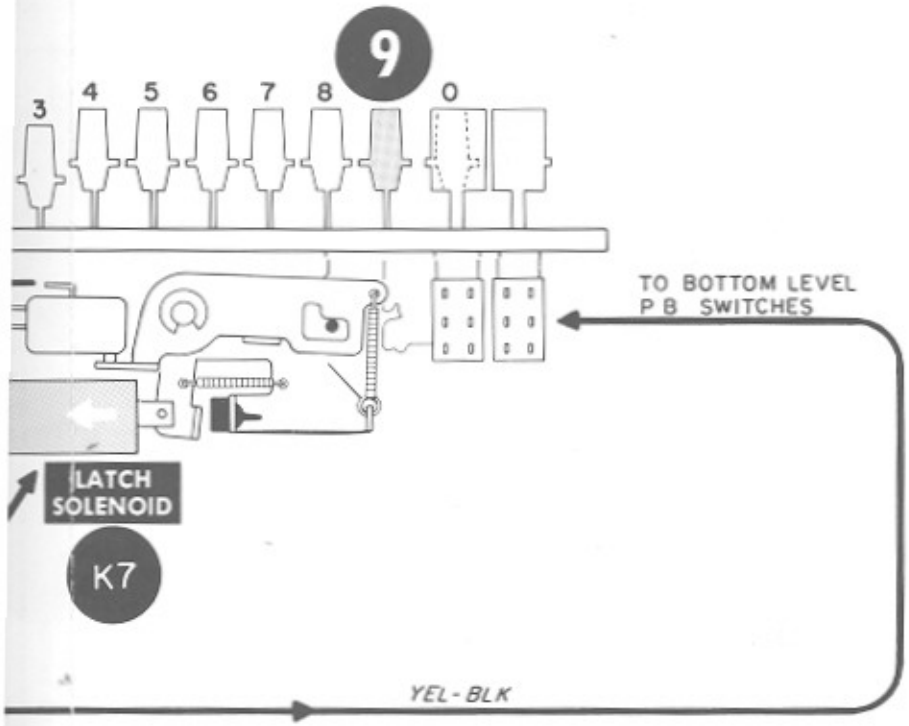

3RD. DIGIT BOARD NO. 3
#2 PULSE EXTENDER BAR
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
CREDIT RESET COIL K5
PROGRAM LITES
MASTER COIL
LATCH SOL. K7
LATCH SOLENOID K7 D.C. + 24 VOLTS LOADED
R29
Q4
K7
S10
Q5
ADD MORE COINS
RESET & RESELECT
SINGLES LITE
LP. RE. K8
ALBUM CREDIT SW. #3 (LP KIT)
BOARD NO. 4 LP KIT
MOTOR CAM
TIMING MOTOR
MOTOR RE. K3
AUDIO CONT. RE. K6
LOCKOUT RE. K4
RESET SW.
CREDIT SW. #2
CREDIT SW. #1
LEFT SPK.
RIGHT SPK.
MOTOR BOARD
ORN-GRN
PINK-BLU
TAN
BLU-ORN
GRY-PUR
GRN-ORN
YEL-BLU
ORN-BLU
PUR-YEL
BRN-WHT
TAN-BLK
PINK
GRY-ORN
WHT
RED-WHT
RED-BLU
TAN-GRN
SIGNAL
BLK-WHT
AUDIO GRD
GRY-BLU
AUDIO CONT
WHT-YEL
LOCKOUT
-33V.D.C.
BLK
COMMON
+33V.D.C.
25V. A.C.
1 AMP SLO-BLO
D50
D49
D48
D47
D46
D45
D44
D52
D53
D54
D55
D56
D57
D60
D61
D62
D65
D66
D67
D42
D43
Q6
4.7K R29
22K R30
.047 C2
5.6K R32
.047 C3
470 R33
2.7K R31
47 R53
47 R54
47 R55
100 MFD C7
10K R52
C8 100 MF
C5 100 MF
C6 250 MF
22Ω
47 R43
47 R44
47 R45
47 R49
470 R48
47 R51
470 R50
4.7K R47
10K R35
10K R34
10 MF C4
270 R46
K2-1
K3-1
K3-2
K3-3
K3-4
K4-1
K6-1
K6-2
K6-3
K8-1
N.C.
HIGH
LOW
GRY-BLK
YEL-BLK
WHT-RED
WHT-PUR
GRY-WHT
BLU-YEL
RED-YEL
GRN-BLK
RED-BLK
BLU-RED
TAN-RED
YEL-RED
ORN-WHT
TAN-YEL
WHT-BLK
ORN-RED
WHT-GRN
GRY-RED
GRY-GRN
RED
GRN
BLU
YEL
ORN
RED
BRN
WHT-BRN
PUR-BLK
GRN-BLK
LP.
BUS
STD BUS
160
100

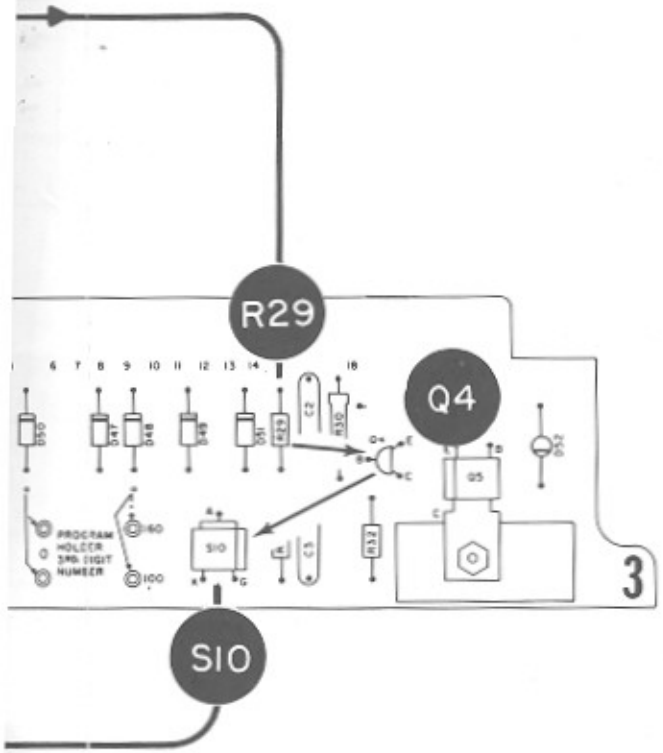


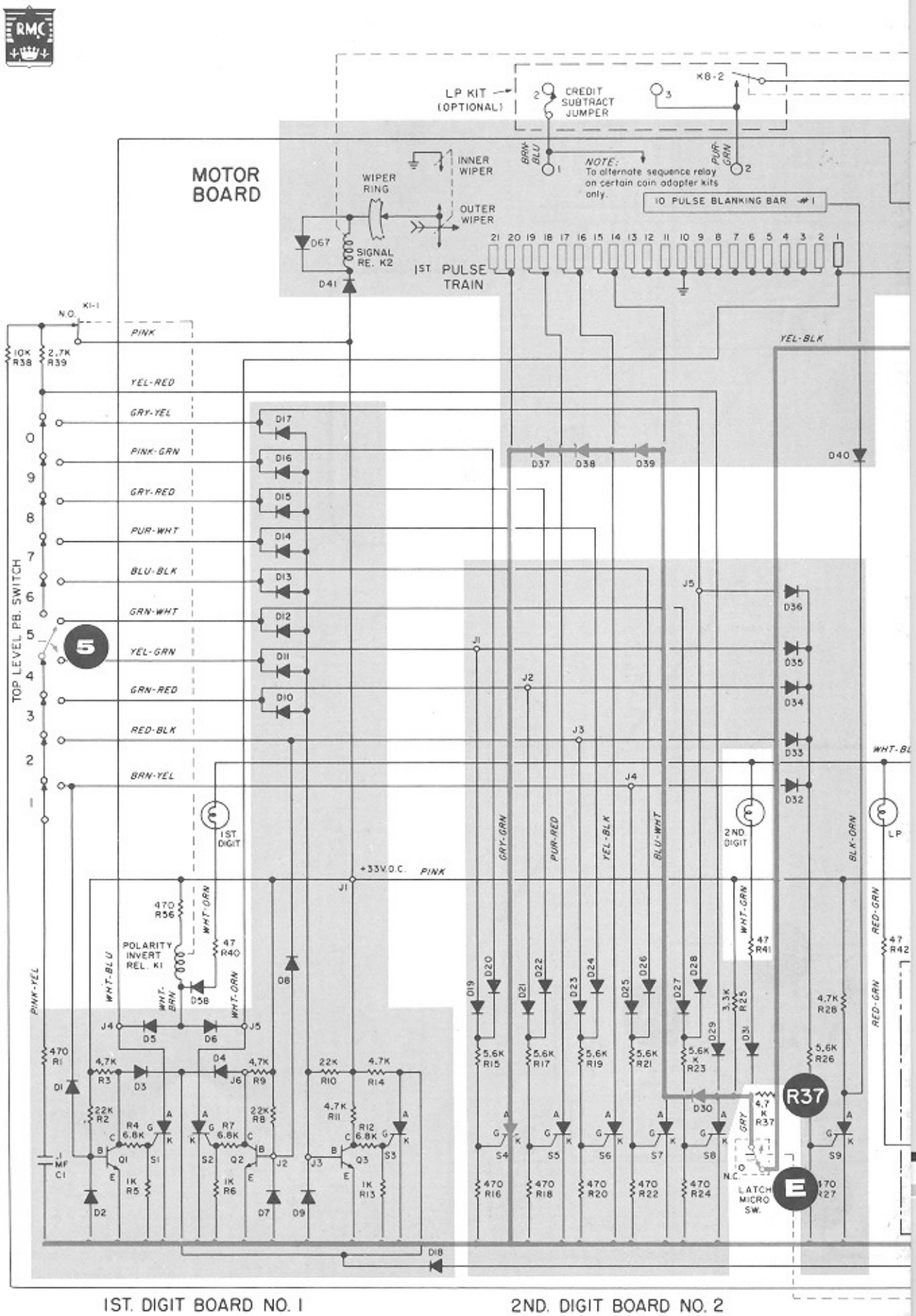

**SEQUENCE No. 6**
**PB SWITCH #9 RETURNS**

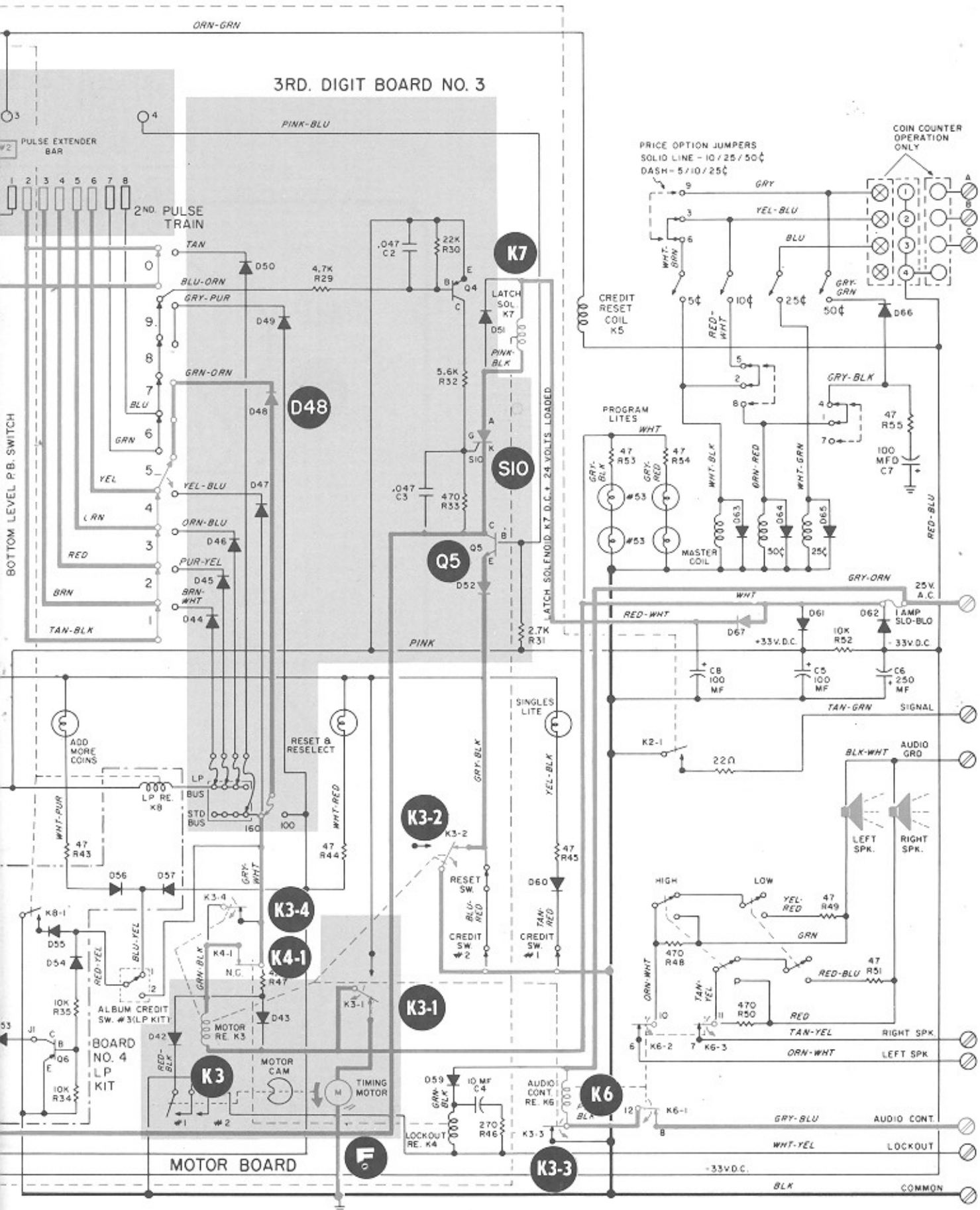
When PB Switch #9 returns, the circuit via resistor R37 provides a ground (thru S4) to the base of Q4 via the Bottom Level of PB Switches and resistor R29. This causes transistor Q4 to turn on triggering the gate of SCR S10 which now latches to the "on" state.

The conducting SCR S10 energizes the Latch Solenoid K7. Selection system now ready to accept the 3rd Digit number.


9
3
4
5
6
7
8
0
TO BOTTOM LEVEL
P B SWITCHES
LATCH
SOLENOID
K7
YEL - BLK


R29
Q4
S10
3


MOTOR BOARD
LP KIT (OPTIONAL)
CREDIT SUBTRACT JUMPER
K8-2
NOTE: To alternate sequence relay on certain coin adapter kits only.
10 PULSE BLANKING BAR #1
INNER WIPER
OUTER WIPER
WIPER RING
SIGNAL RE. K2
1ST PULSE TRAIN
TOP LEVEL PB. SWITCH
POLARITY INVERT REL. K1
+33V.D.C.
1ST DIGIT
2ND DIGIT
LP
LATCH MICRO SW.
1ST. DIGIT BOARD NO. 1
2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
PULSE EXTENDER BAR
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
ORN-GRN
PINK-BLU
TAN
BLU-ORN
GRY-PUR
GRN-ORN
BLU
GRN
YEL
LRN
RED
BRN
TAN-BLK
YEL-BLU
ORN-BLU
PUR-YEL
BRN-WHT
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
Q4
LATCH SOL K7
D51
PINK-BLK
5.6K R32
SIO
.047 C3
470 R33
Q5
D52
2.7K R31
PINK
LATCH SOLENOID K7 D.C. + 24 VOLTS LOADED
K7
D48
SIO
Q5
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-GRN
GRY-GRN
5¢
10¢
25¢
50¢
D66
RED-WHT
CREDIT RESET COIL K5
PROGRAM LITES
WHT
47 R53
47 R54
#53
GRY-BLK
GRY-RED
WHT-BLK
GRN-RED
WHT-GRN
D63
D64
D65
50¢
25¢
MASTER COIL
47 R55
100 MFD C7
RED-BLU
GRY-ORN
25V. A.C.
WHT
RED-WHT
D67
D61
D62
1 AMP SLO-BLO
+33V.D.C.
10K R52
-33V.D.C.
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
220
BLK-WHT
AUDIO GRD
LEFT SPK.
RIGHT SPK.
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
47 R51
RED-BLU
ORN-WHT
TAN-YEL
470 R50
RED
TAN-YEL
RIGHT SPK.
ORN-WHT
LEFT SPK.
K6-2
K6-3
K6-1
GRY-BLU
AUDIO CONT.
WHT-YEL
LOCKOUT
-33V.D.C.
BLK
COMMON
K6
ADD MORE COINS
RESET & RESELECT
SINGLES LITE
LP
BUS
STD BUS
LP RE. K8
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
GRY-BLK
YEL-BLK
47 R45
GRY-WHT
D56
D57
D60
K3-2
RESET SW.
BLU-RED
CREDIT SW. #2
TAN-RED
CREDIT SW. #1
K3-4
K8-1
D55
D54
RED-YEL
BLU-YEL
K4-1
N.C.
47 R47
ALBUM CREDIT SW. #3 (LP KIT)
10K R35
10K R34
Q6
BOARD NO. 4 LP KIT
MOTOR RE. K3
D43
D42
RED-BLK
K3-1
MOTOR CAM
TIMING MOTOR
#1
#2
K3
K3-1
K3-4
K4-1
D59
10 MF C4
GRN-BLK
270 R46
LOCKOUT RE. K4
AUDIO CONT. RE. K6
K3-3
MOTOR BOARD

## SEQUENCE No. 7
## 3RD DIGIT NUMBER PRESSED — WALL BOX SPEAKERS TURNED ON — TIMING MOTOR STARTS

The 3rd Digit of a selection designates the selector segment in which the record is located.

Pressing the 3rd Digit #5 for example, the PB switch is held by the energized Latch Solenoid K7. The lockup of the 3rd Digit number activates the Latch Micro Switch "E" which connects a circuit around resistor R37; this allows the full voltage to be applied to the Motor Relay K3.

Motor Relay K3 energizes via the Bottom Level PB Switches, D48 and normally closed Lockout Relay Contacts K4-1. Motor Relay contacts K3-1 thru K3-4 transfer.

The back contact of K3-1 disconnects power to all indicator lites during transmission of the 1st and 2nd pulse trains. . . . The forward contact starts the Timing Motor (F).

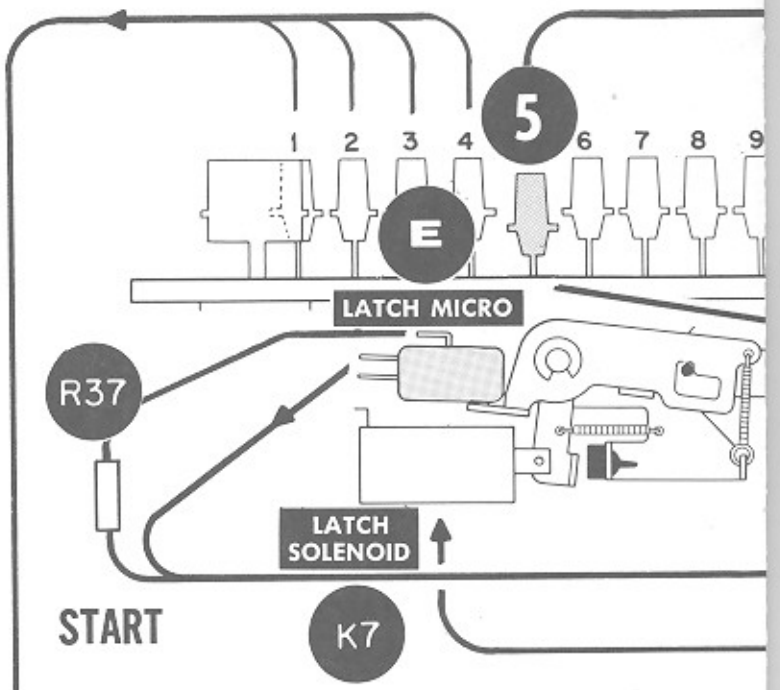
K3-2 provides a ground circuit to the memory bus via Q5 and S10 around the Credit and Reset switches which now become inoperative for the duration of the pulsing cycle.

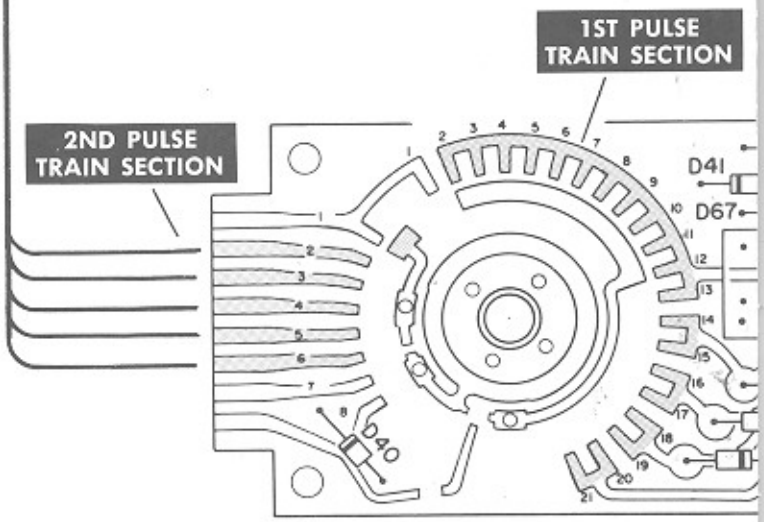
K3-3 operates the Audio Control Relay K6, wall box speakers turn on via the transferred relay contacts K6-2 and K6-3. K6-1 holds the Audio Control Relay energized for the duration of all selections registered on the phone selector.

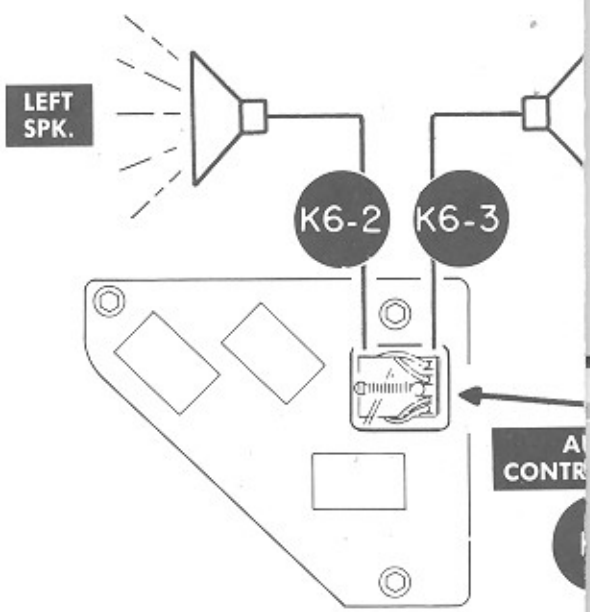
K3-4 provides a holding circuit to the Motor Relay K3.

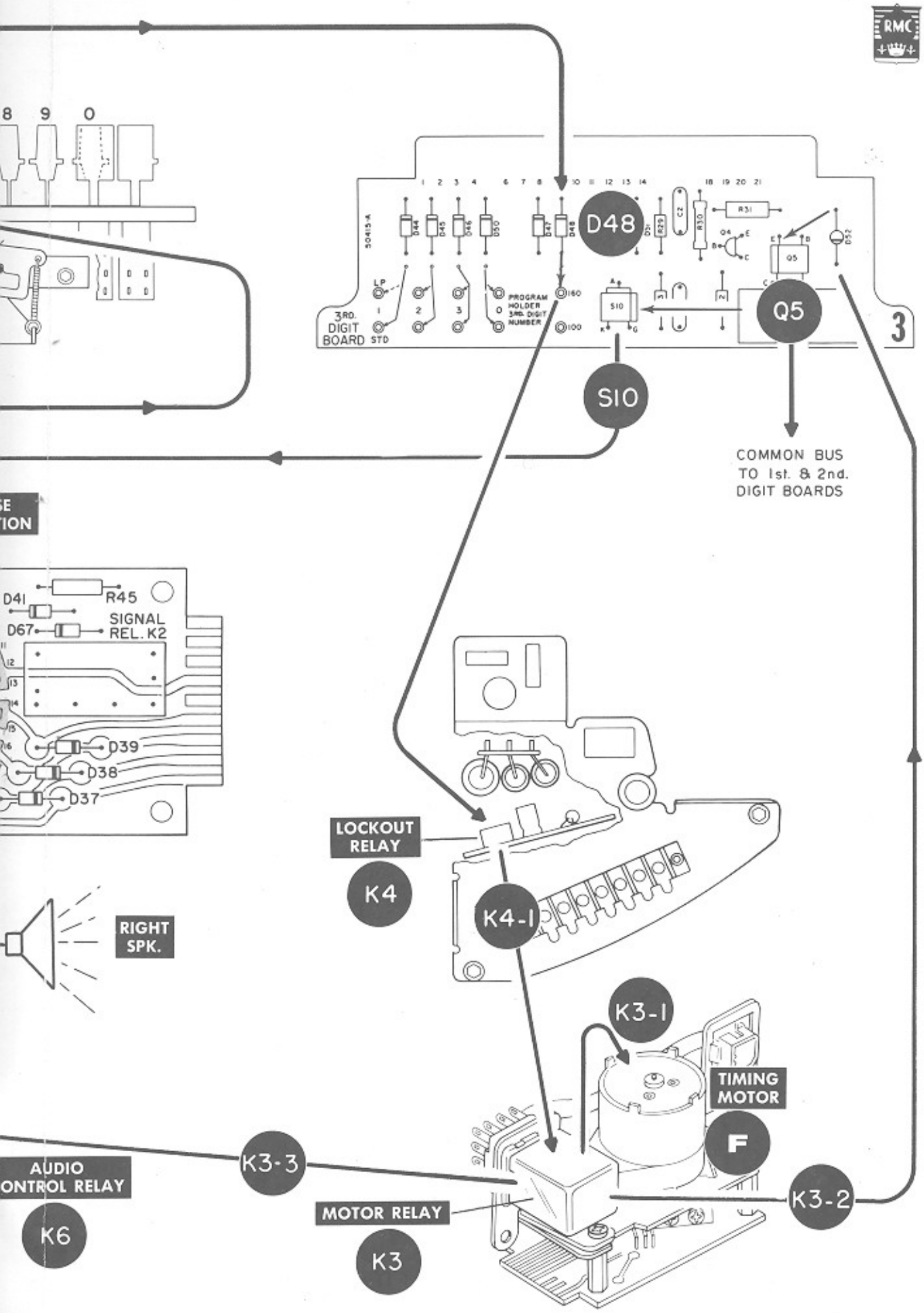
The Bottom Switch Level now provides connections to the 2nd Pulse Train Wiper Disc Contacts #2 thru #6 which will produce a transmission of 6 pulses in a later sequence.

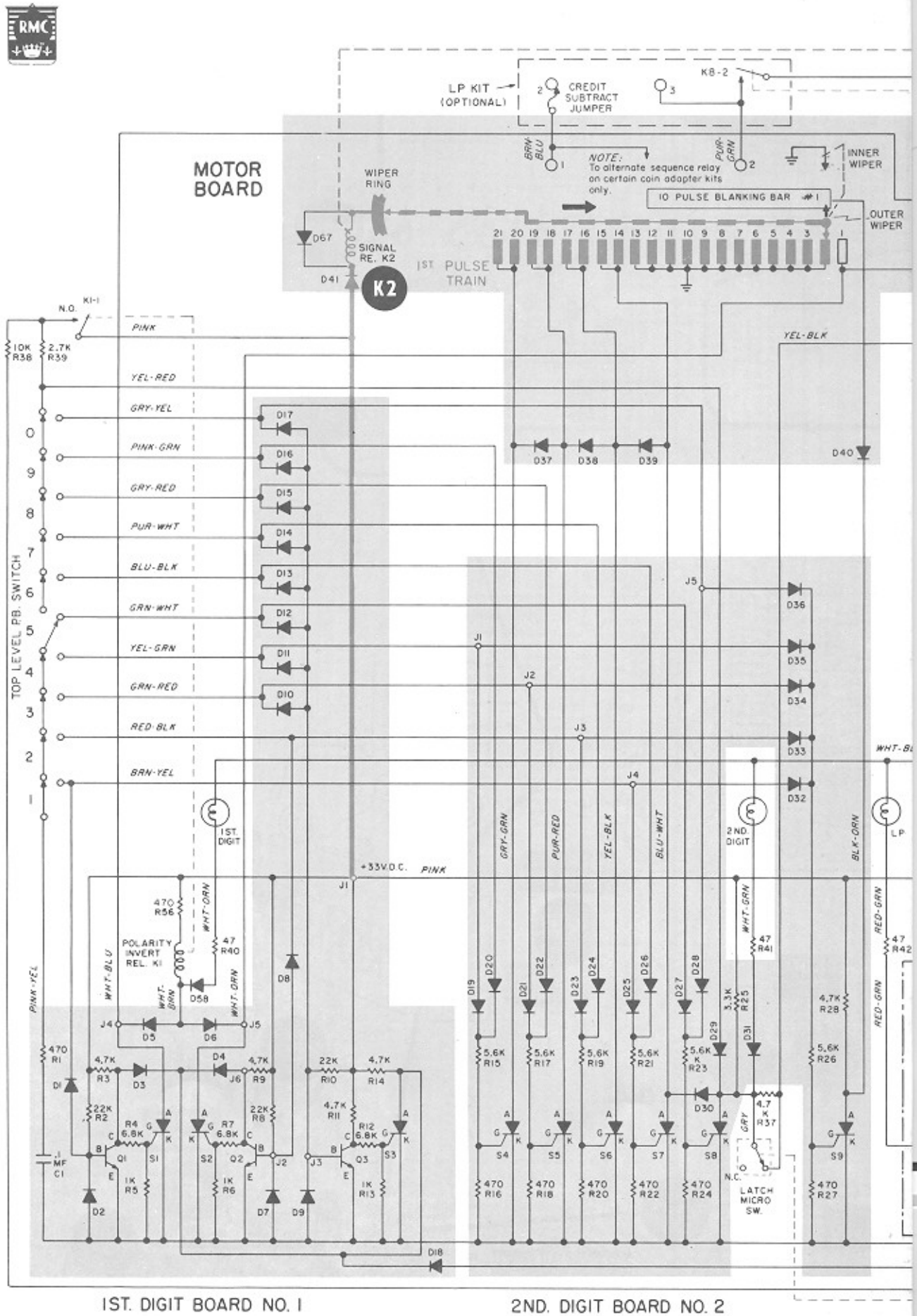
The state of the wall box memory for selection "195" is now ready to be conveyed to the Receiver for storage until the mechanism is actuated to play this selection.



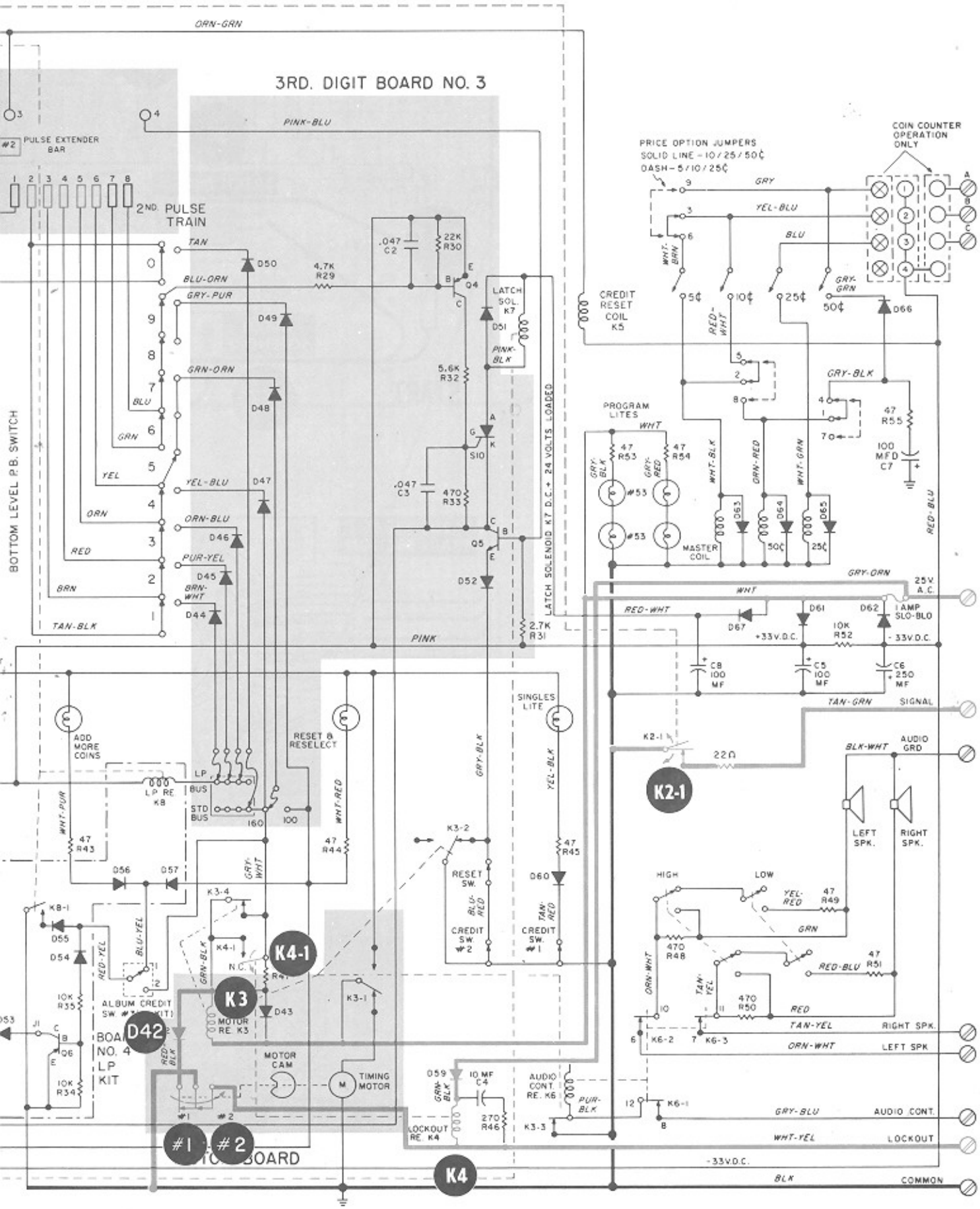



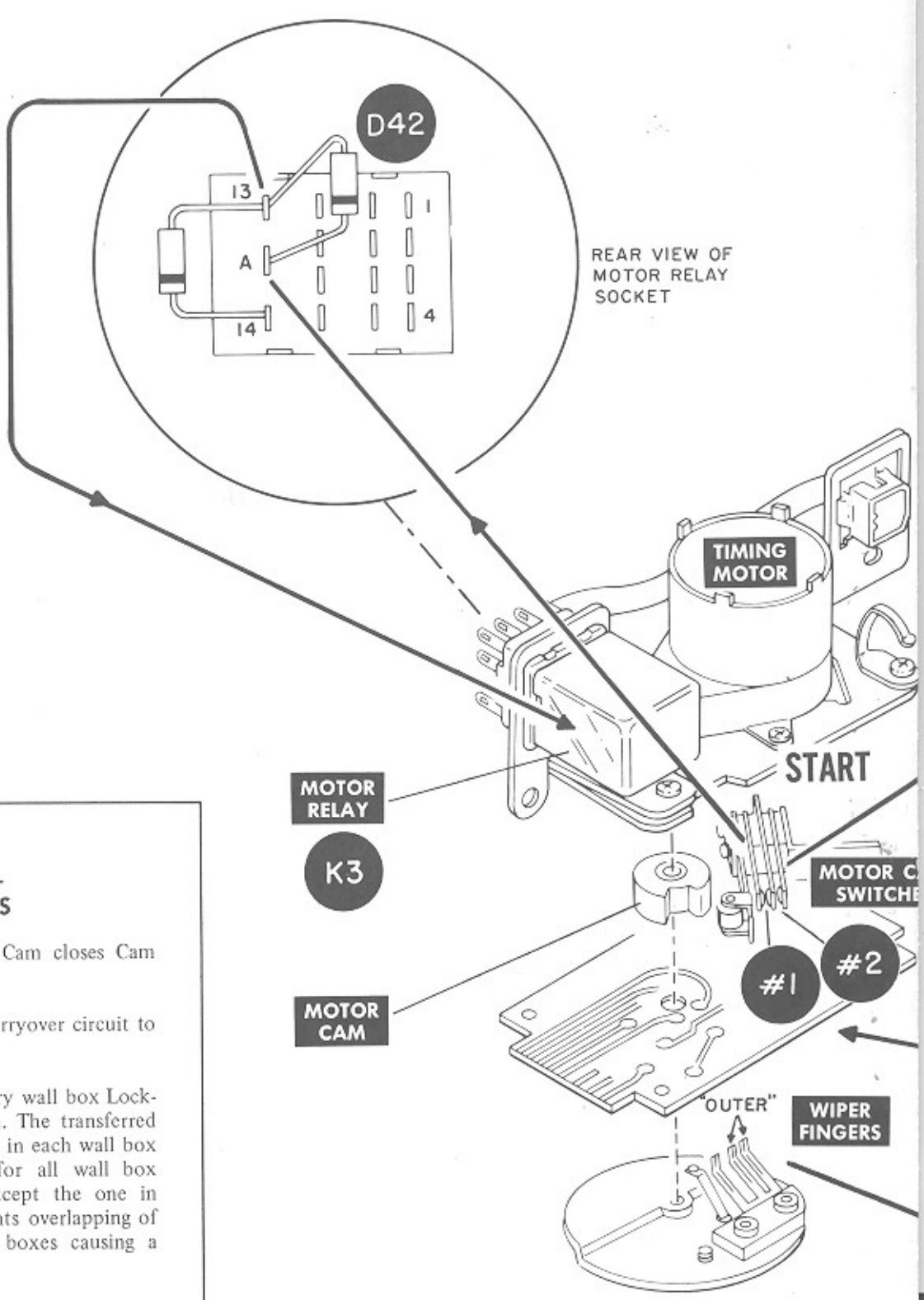

8 9 0
D48
Q5
S10
3RD. DIGIT BOARD
PROGRAM HOLDER 3RD. DIGIT NUMBER
3
COMMON BUS TO 1st. & 2nd. DIGIT BOARDS
D41
R45
SIGNAL REL. K2
D67
D39
D38
D37
LOCKOUT RELAY
K4
K4-1
RIGHT SPK.
K3-1
TIMING MOTOR
F
K3-3
K3-2
AUDIO CONTROL RELAY
K6
MOTOR RELAY
K3




1ST. DIGIT BOARD NO. 1

2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
ORN-GRN
PINK-BLU
#2 PULSE EXTENDER BAR
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
TAN
BLU-ORN
GRY-PUR
GRN-ORN
BLU
GRN
YEL
YEL-BLU
ORN
ORN-BLU
RED
PUR-YEL
BRN
BRN-WHT
TAN-BLK
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
Q4
LATCH SOL. K7
D51
PINK-BLK
5.6K R32
SIO
.047 C3
470 R33
Q5
D52
2.7K R31
LATCH SOLENOID K7 D.C. + 24 VOLTS LOADED
PINK
CREDIT RESET COIL K5
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-BRN
5¢
10¢
25¢
50¢
GRY-GRN
D66
RED-WHT
GRY-BLK
47 R55
100 MFD C7
PROGRAM LITES
WHT
47 R53
47 R54
GRY-BLK
GRY-RED
#53
MASTER COIL
WHT-BLK
WHT-GRN
GRN-RED
D63
D64
D65
50¢
25¢
RED-BLU
GRY-ORN
25V A.C.
WHT
RED-WHT
D67
+33V.D.C.
D61
D62
LAMP SLO-BLO
10K R52
-33V.D.C.
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
22Ω
BLK-WHT
AUDIO GRD
LEFT SPK.
RIGHT SPK.
ADD MORE COINS
RESET & RESELECT
SINGLES LITE
LP BUS
LP RE K8
STD BUS
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
GRY-BLK
YEL-BLK
47 R45
GRY-WHT
D56
D57
K3-4
K3-2
RESET SW.
BLU-RED
CREDIT SW. #2
D60
TAN-RED
CREDIT SW. #1
K8-1
D55
D54
RED-YEL
BLU-YEL
K4-1
N.C.
K4-1
K3
D43
K3-1
ALBUM CREDIT SW.
MOTOR RE. K3
D42
BOARD NO. 4 LP KIT
10K R35
Q6
10K R34
MOTOR CAM
TIMING MOTOR
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
47 R51
RED-BLU
ORN-WHT
TAN-YEL
470 R50
RED
TAN-YEL
RIGHT SPK.
ORN-WHT
LEFT SPK
K6-2
K6-3
K6-1
059
10 MF C4
GRN-BLK
270 R46
LOCKOUT RE. K4
AUDIO CONT. RE. K6
PUR-BLK
K3-3
GRY-BLU
AUDIO CONT.
WHT-YEL
LOCKOUT
-33V.D.C.
BLK
COMMON
K2-1
K4
#1
#2



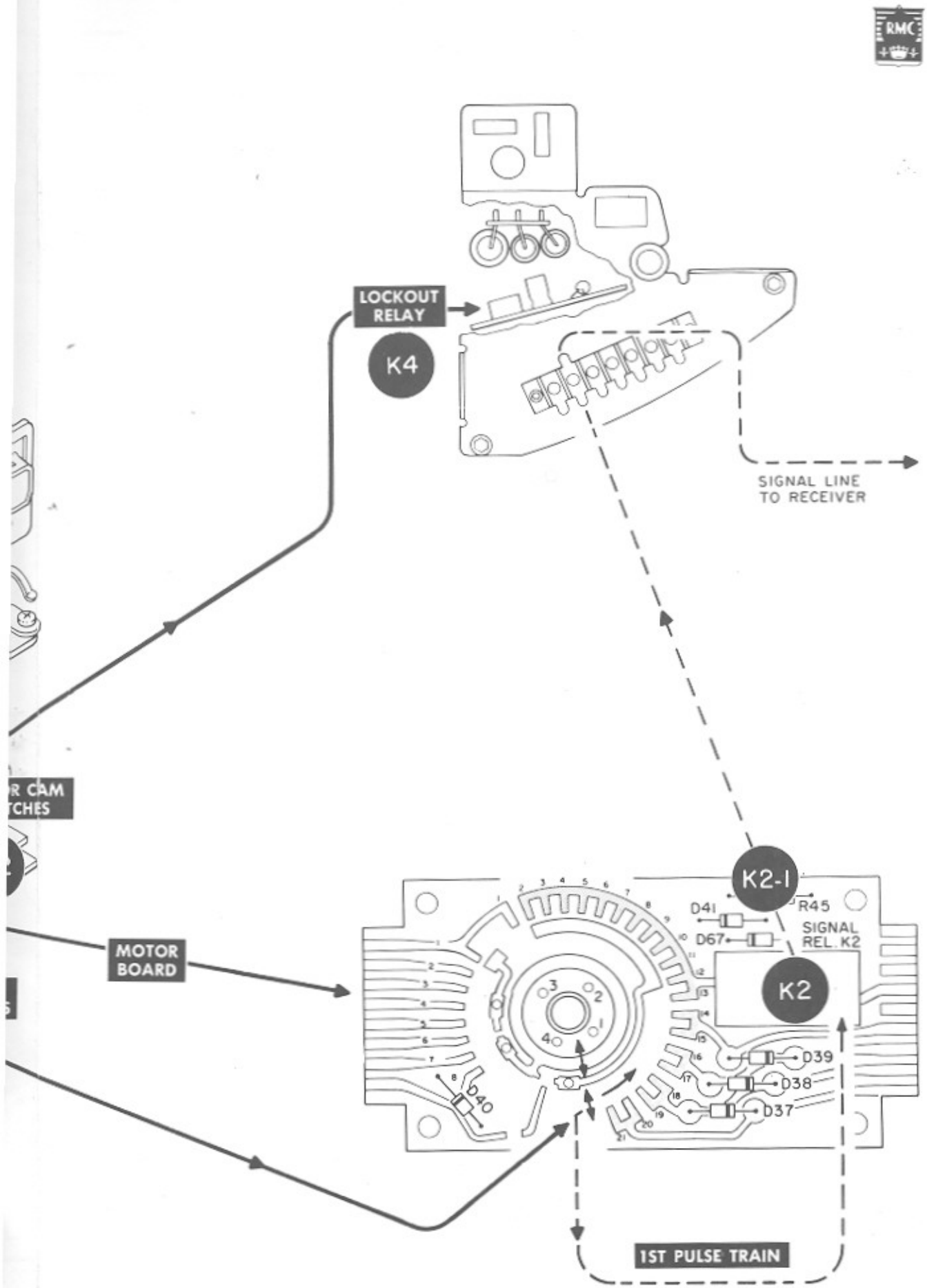

## SEQUENCE No. 8
## TIMING MOTOR RUNS—
## 1ST PULSE TRAIN STARTS

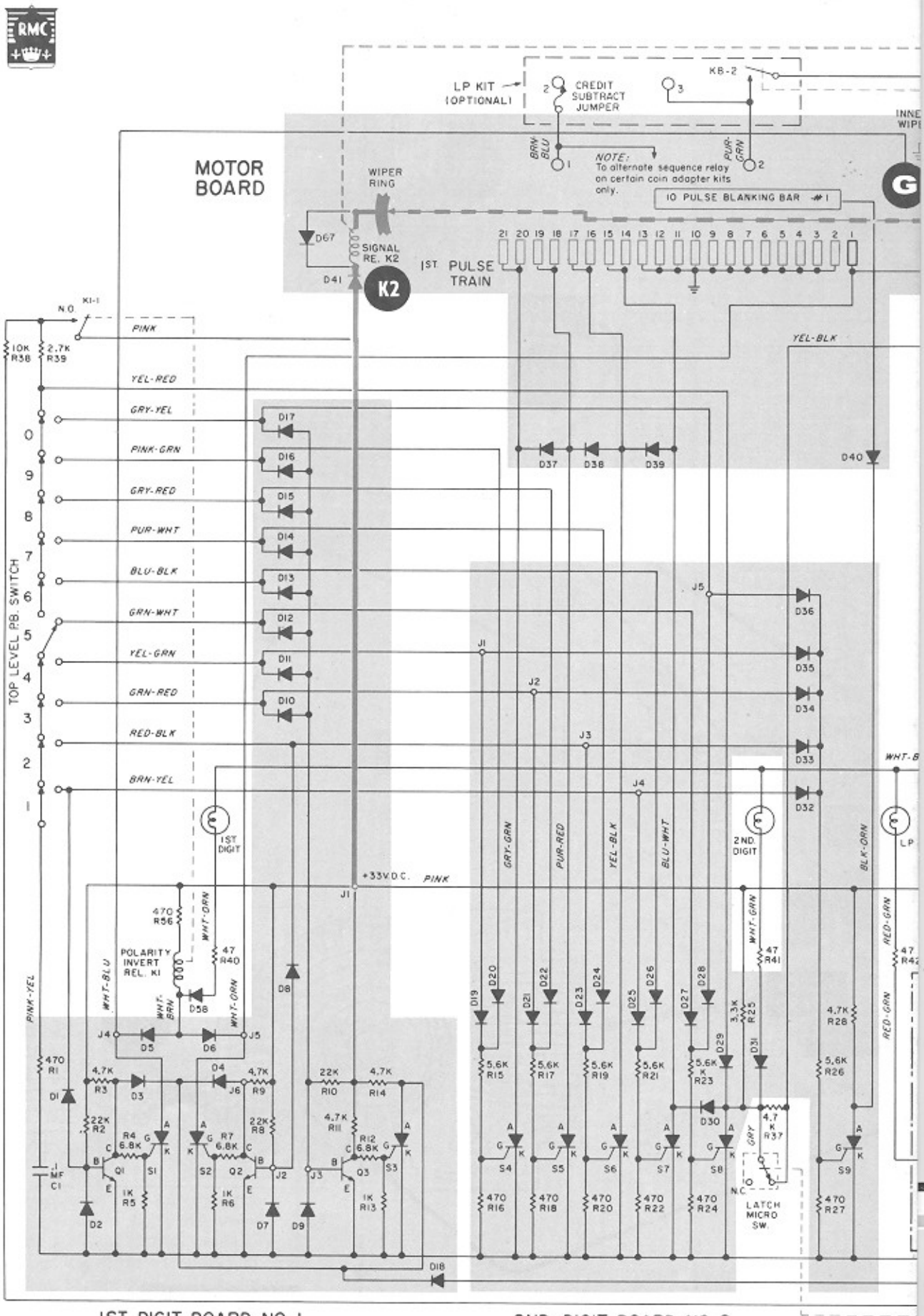
The rotating Timing Motor Cam closes Cam Switches #1 and #2.

#1 Cam Switch provides a carryover circuit to the Motor Relay K3 via D42.

#2 Cam Switch energizes every wall box Lockout Relay K4 in the system. The transferred Lockout Relay Contact K4-1 in each wall box provides a "hold" circuit for all wall box selections in the system except the one in operation. . . . This prevents overlapping of selections from other wall boxes causing a wrong selection.

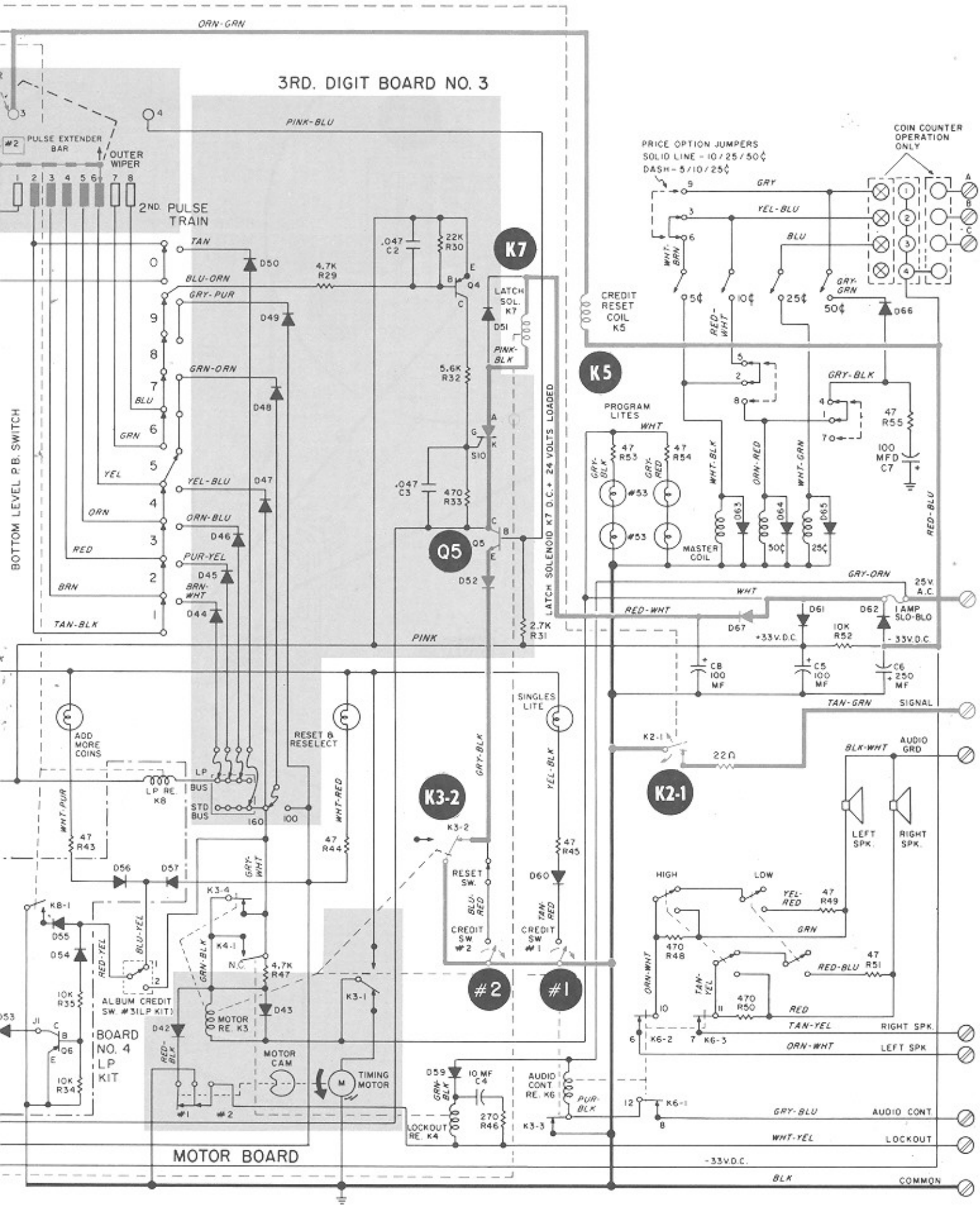
During the wiper rotation, the "outer" wiper fingers will pulse the Signal Relay K2 every time the wiper finger strikes a "live" contact. In this example 20 pulses will be transmitted in the 1st Pulse Train to the Receiver via the Signal Relay Contact K2-1.

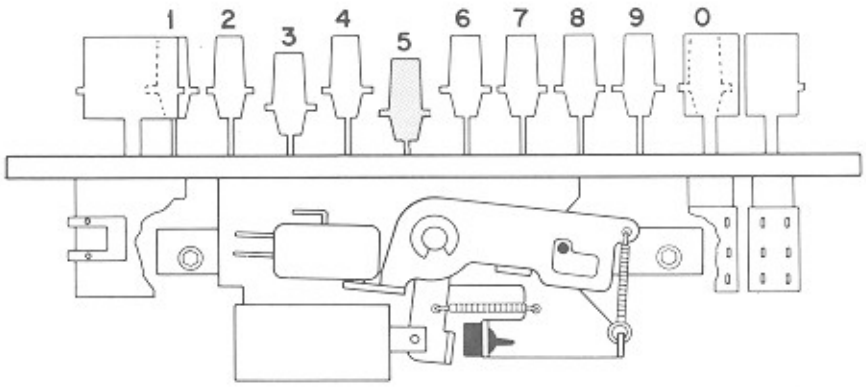

LOCKOUT RELAY
K4
SIGNAL LINE TO RECEIVER
K2-1
D41
R45
SIGNAL REL. K2
D67
K2
D39
D38
D37
D40
MOTOR BOARD
1ST PULSE TRAIN

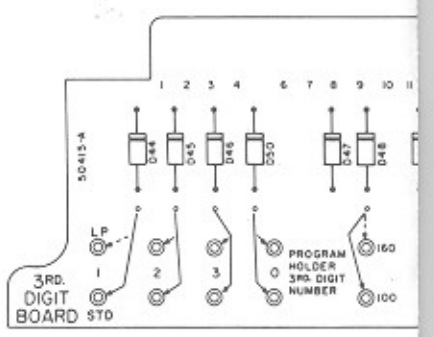



1ST. DIGIT BOARD NO. 1

2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
BOTTOM LEVEL P.B. SWITCH
PULSE EXTENDER BAR
OUTER WIPER
2ND. PULSE TRAIN
ORN-GRN
PINK-BLU
TAN
BLU-ORN
GRY-PUR
GRN-ORN
BLU
GRN
YEL
YEL-BLU
ORN
ORN-BLU
RED
PUR-YEL
BRN
BRN-WHT
TAN-BLK
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
K7
LATCH SOL. K7
D51
PINK-BLK
5.6K R32
Q4
S10
.047 C3
470 R33
Q5
D52
2.7K R31
PINK
LATCH SOLENOID K7 D.C. + 24 VOLTS LOADED
PRICE OPTION JUMPERS
SOLID LINE = 10/25/50¢
DASH = 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-BRN
GRY-GRN
CREDIT RESET COIL K5
5¢
10¢
25¢
50¢
RED-WHT
D66
K5
PROGRAM LITES
WHT
47 R53
47 R54
GRY-BLK
GRY-RED
#53
WHT-BLK
ORN-RED
WHT-GRN
D63
D64
D65
50¢
25¢
MASTER COIL
GRY-BLK
47 R55
100 MFD C7
RED-BLU
GRY-ORN
25V. A.C.
WHT
RED-WHT
D67
D61
D62
1 AMP SLO-BLO
+33V.D.C.
10K R52
-33V.D.C.
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
220
BLK-WHT
AUDIO GRD
K2-1
LEFT SPK.
RIGHT SPK.
ADD MORE COINS
RESET & RESELECT
SINGLES LITE
LP RE. K8
LP BUS
STD BUS
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
GRY-BLK
47 R45
K3-2
K3-2
RESET SW.
CREDIT SW #2
CREDIT SW #1
BLU-RED
TAN-RED
D60
D56
D57
GRY-WHT
K3-4
K8-1
D55
D54
BLU-YEL
RED-YEL
K4-1
N.C.
4.7K R47
GRN-BLK
K3-1
ALBUM CREDIT SW. #3 (LP KIT)
10K R35
10K R34
BOARD NO. 4 LP KIT
D53
D42
D43
MOTOR RE. K3
MOTOR CAM
TIMING MOTOR
#1
#2
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
47 R51
RED-BLU
ORN-WHT
TAN-YEL
470 R50
RED
TAN-YEL
RIGHT SPK.
ORN-WHT
LEFT SPK.
K6-2
K6-3
D59
10 MF C4
GRN-BLK
270 R46
LOCKOUT RE. K4
AUDIO CONT RE. K6
PUR-BLK
K6-1
K3-3
GRY-BLU
AUDIO CONT
WHT-YEL
LOCKOUT
-33V.D.C.
BLK
COMMON
MOTOR BOARD



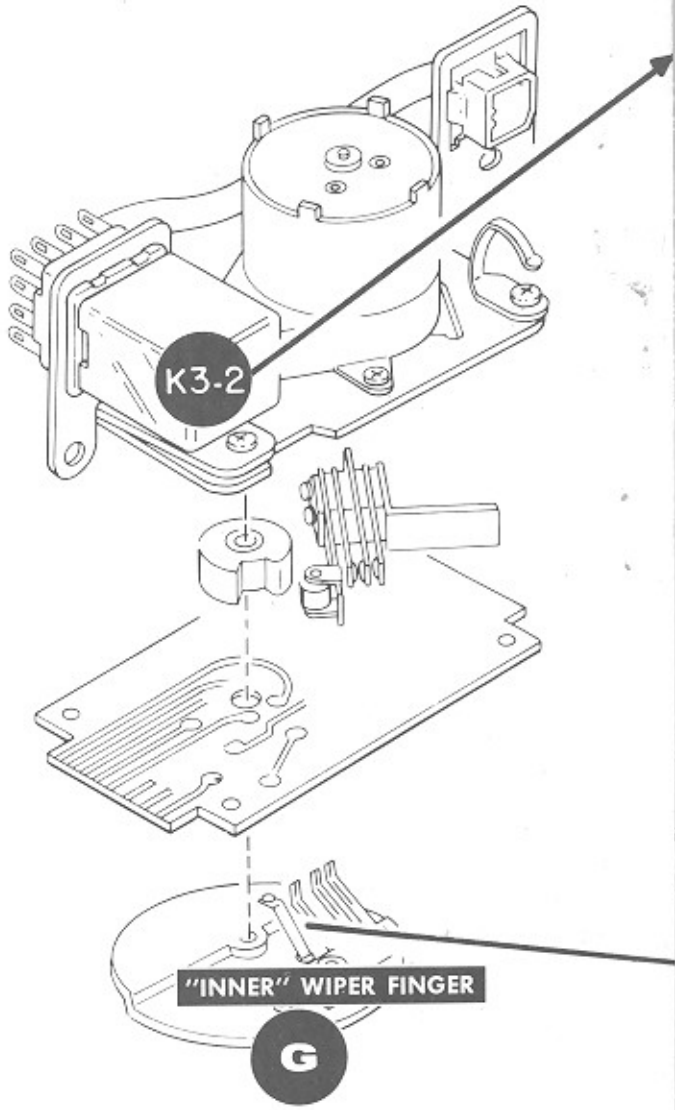




**LATCH SOLENOID**

**K7**

**MOTOR RELAY**

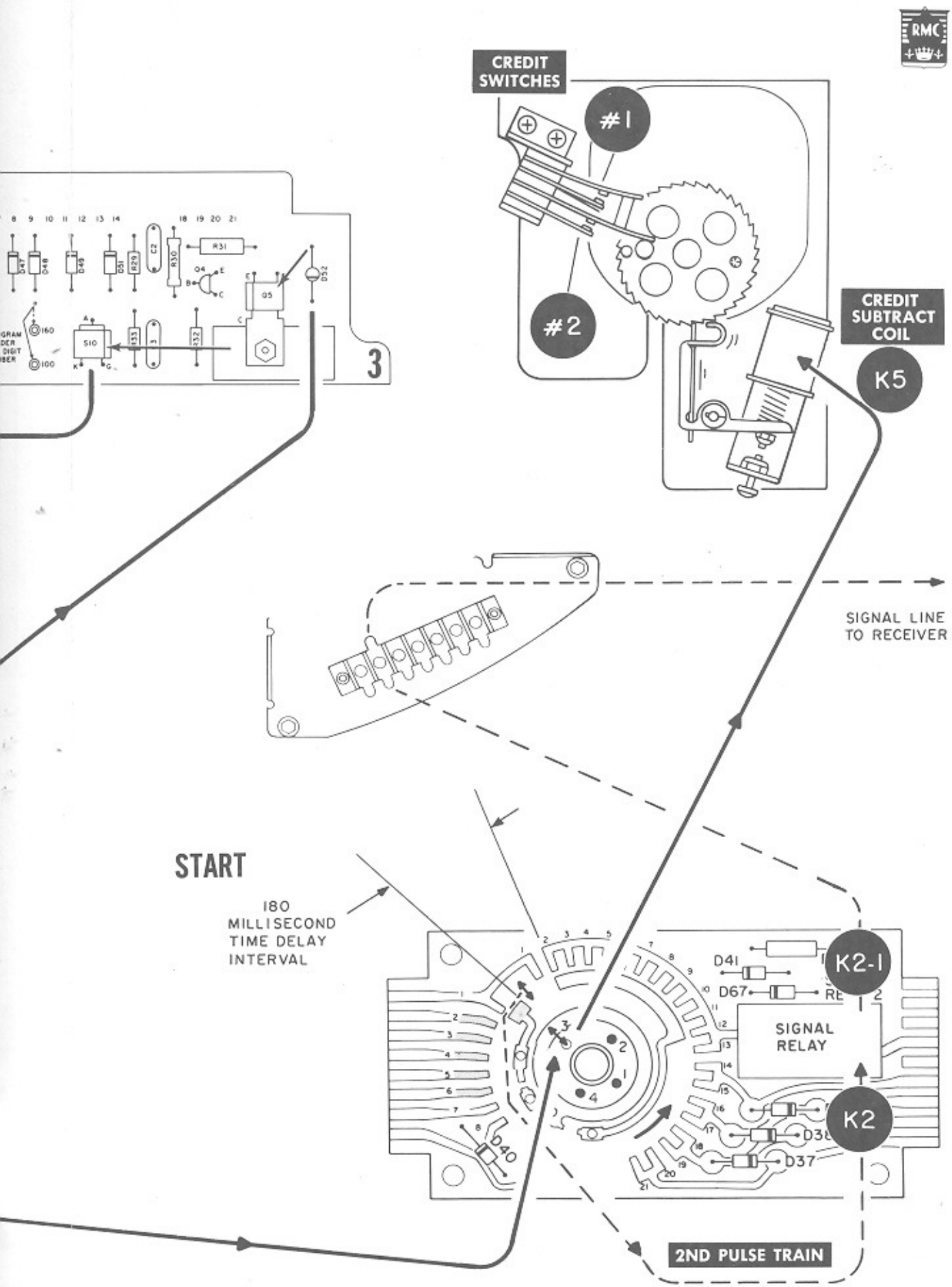
**K3**

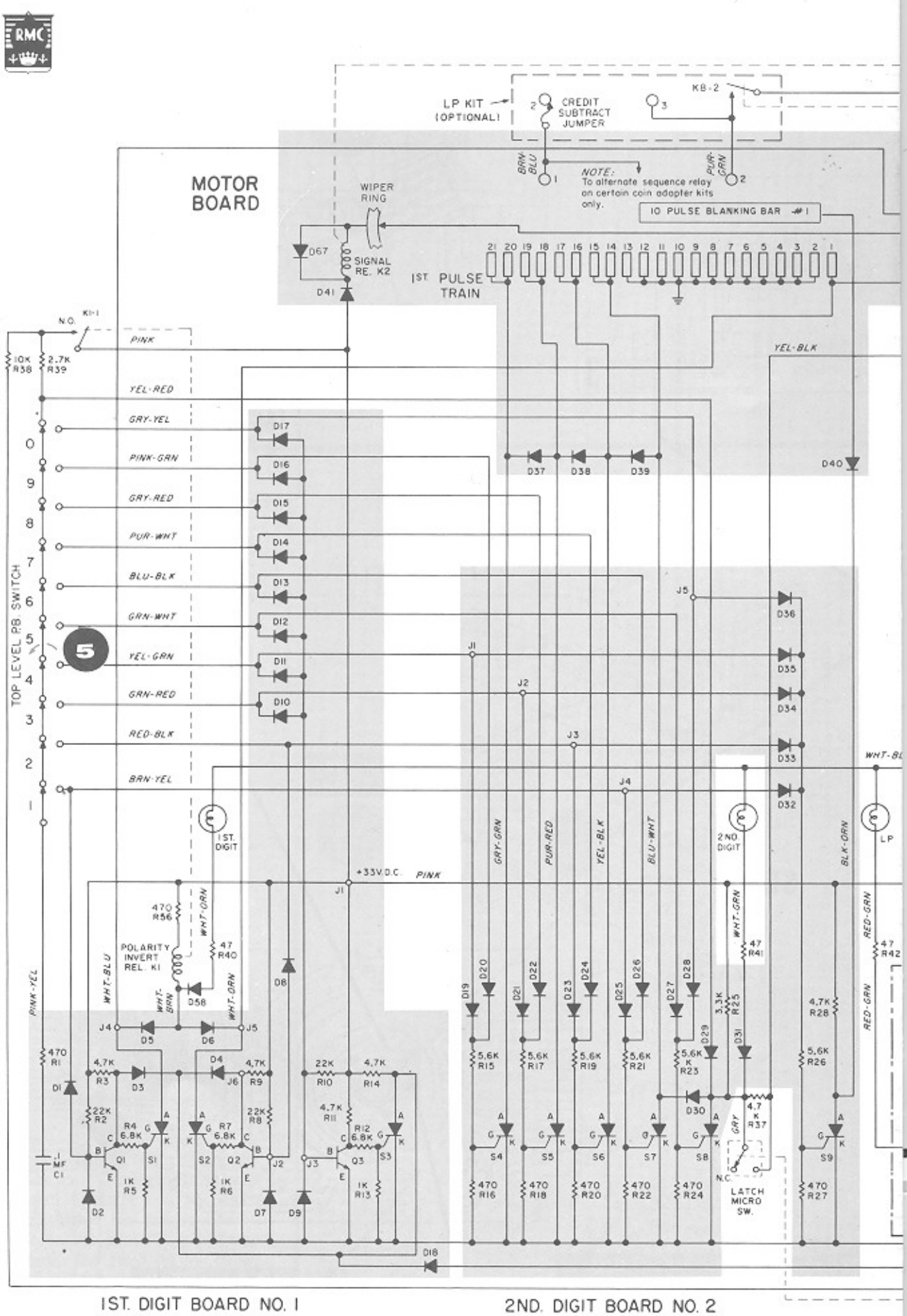



## SEQUENCE No. 9
## 2ND PULSE TRAIN STARTS — ONE CREDIT REMOVED

After a 180 millisecond delay interval between the 1st and 2nd Pulse Train, the "outer" wiper fingers transmit 6 pulses in the 2nd Pulse Train via the Signal Relay K2 and relay contacts K2-1.

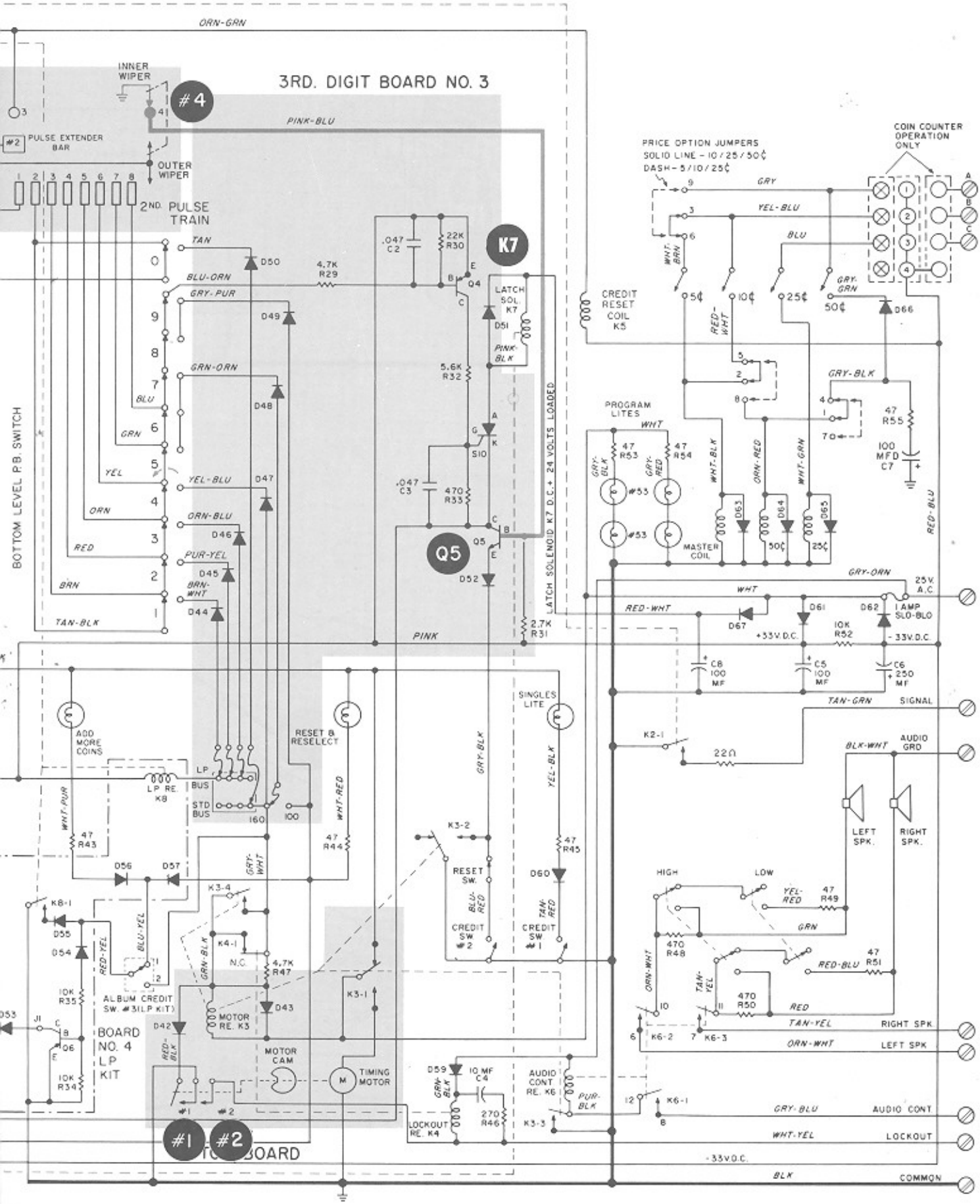
During transmission of the pulse trains, the "inner" wiper finger (G) strikes a "live" contact in the "credit subtract" section providing a pulse to the Credit Subtract Coil K5 which removes one credit from the master ratchet. . . . Credit Switches #1 and #2 open, Latch Solenoid K7 remains energized via the closed Motor Relay Contact K3-2.

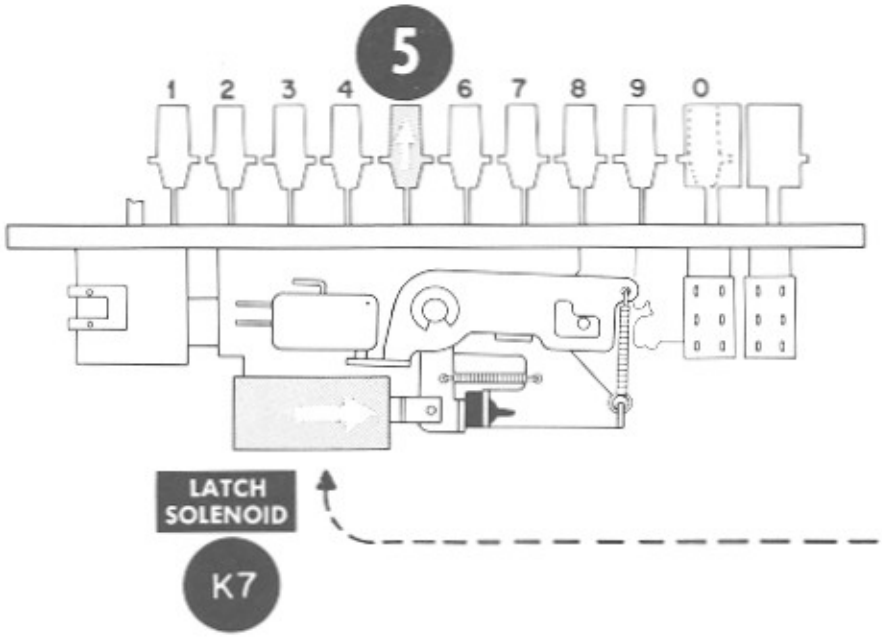

CREDIT SWITCHES
#1
#2
CREDIT SUBTRACT COIL
K5
SIGNAL LINE TO RECEIVER
START
180 MILLISECOND TIME DELAY INTERVAL
K2-1
K2
SIGNAL RELAY
2ND PULSE TRAIN
3

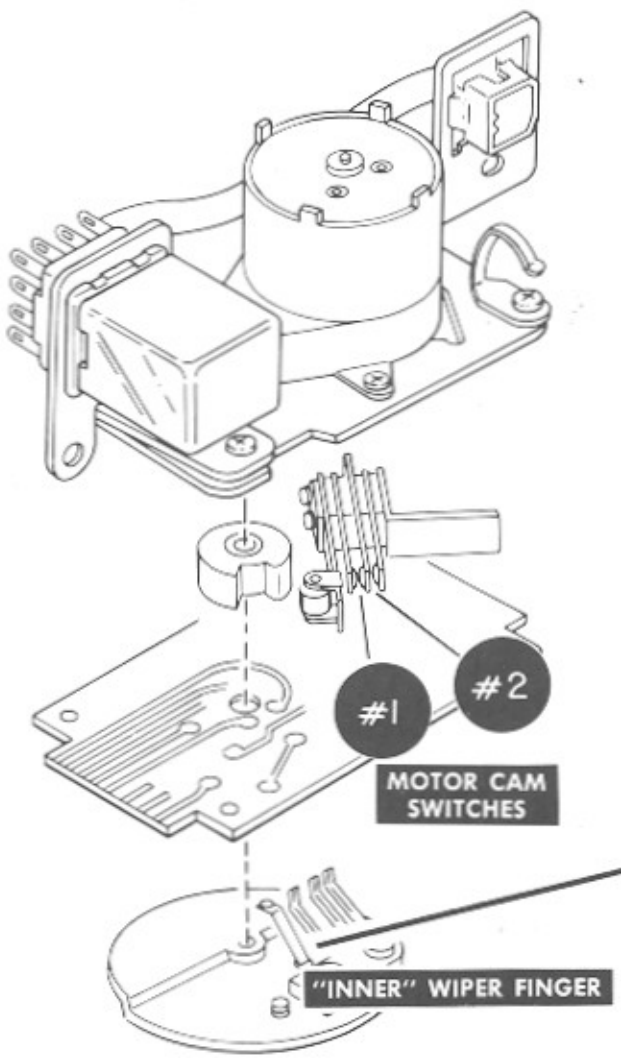



1ST. DIGIT BOARD NO. 1

2ND. DIGIT BOARD NO. 2


3RD. DIGIT BOARD NO. 3
#4
#2 PULSE EXTENDER BAR
INNER WIPER
OUTER WIPER
2ND. PULSE TRAIN
BOTTOM LEVEL P.B. SWITCH
ORN-GRN
PINK-BLU
TAN
BLU-ORN
GRY-PUR
GRN-ORN
YEL-BLU
ORN-BLU
PUR-YEL
BRN-WHT
TAN-BLK
D50
D49
D48
D47
D46
D45
D44
4.7K R29
.047 C2
22K R30
K7
LATCH SOL. K7
D51
PINK-BLK
5.6K R32
Q4
S10
.047 C3
470 R33
Q5
D52
2.7K R31
LATCH SOLENOID K7 D.C.+ 24 VOLTS LOADED
PINK
PRICE OPTION JUMPERS
SOLID LINE - 10/25/50¢
DASH - 5/10/25¢
COIN COUNTER OPERATION ONLY
GRY
YEL-BLU
BLU
WHT-BRN
GRY-GRN
CREDIT RESET COIL K5
5¢
10¢
25¢
50¢
D66
RED-WHT
GRY-BLK
47 R55
100 MFD C7
PROGRAM LITES
WHT
47 R53
47 R54
#53
WHT-BLK
ORN-RED
WHT-GRN
D63
D64
D65
MASTER COIL
RED-BLU
GRY-ORN
25V. A.C.
WHT
RED-WHT
D67
D61
D62
1 AMP SLO-BLO
10K R52
+33V.D.C.
-33V.D.C.
C8 100 MF
C5 100 MF
C6 250 MF
TAN-GRN
SIGNAL
K2-1
220
BLK-WHT
AUDIO GRD
LEFT SPK.
RIGHT SPK.
ADD MORE COINS
RESET & RESELECT
SINGLES LITE
LP
LP RE. K8
BUS
STD BUS
160
100
WHT-PUR
47 R43
WHT-RED
47 R44
GRY-BLK
YEL-BLK
47 R45
K3-2
RESET SW.
CREDIT SW #2
CREDIT SW #1
BLU-RED
TAN-RED
D60
D56
D57
GRY-WHT
K3-4
K8-1
D55
D54
RED-YEL
BLU-YEL
K4-1
N.C.
4.7K R47
GRN-BLK
ALBUM CREDIT SW. #3 (LP KIT)
10K R35
10K R34
D53
D6
BOARD NO. 4 LP KIT
MOTOR RE. K3
D43
D42
RED-BLK
MOTOR CAM
TIMING MOTOR
K3-1
HIGH
LOW
YEL-RED
47 R49
GRN
470 R48
ORN-WHT
TAN-YEL
470 R50
RED
47 R51
RED-BLU
RIGHT SPK
LEFT SPK
K6-2
K6-3
ORN-WHT
D59
10 MF C4
GRN-BLK
270 R46
LOCKOUT RE. K4
AUDIO CONT RE. K6
PUR-BLK
K3-3
K6-1
GRY-BLU
AUDIO CONT
WHT-YEL
LOCKOUT
-33V.D.C.
BLK
COMMON
#1
#2
BOARD

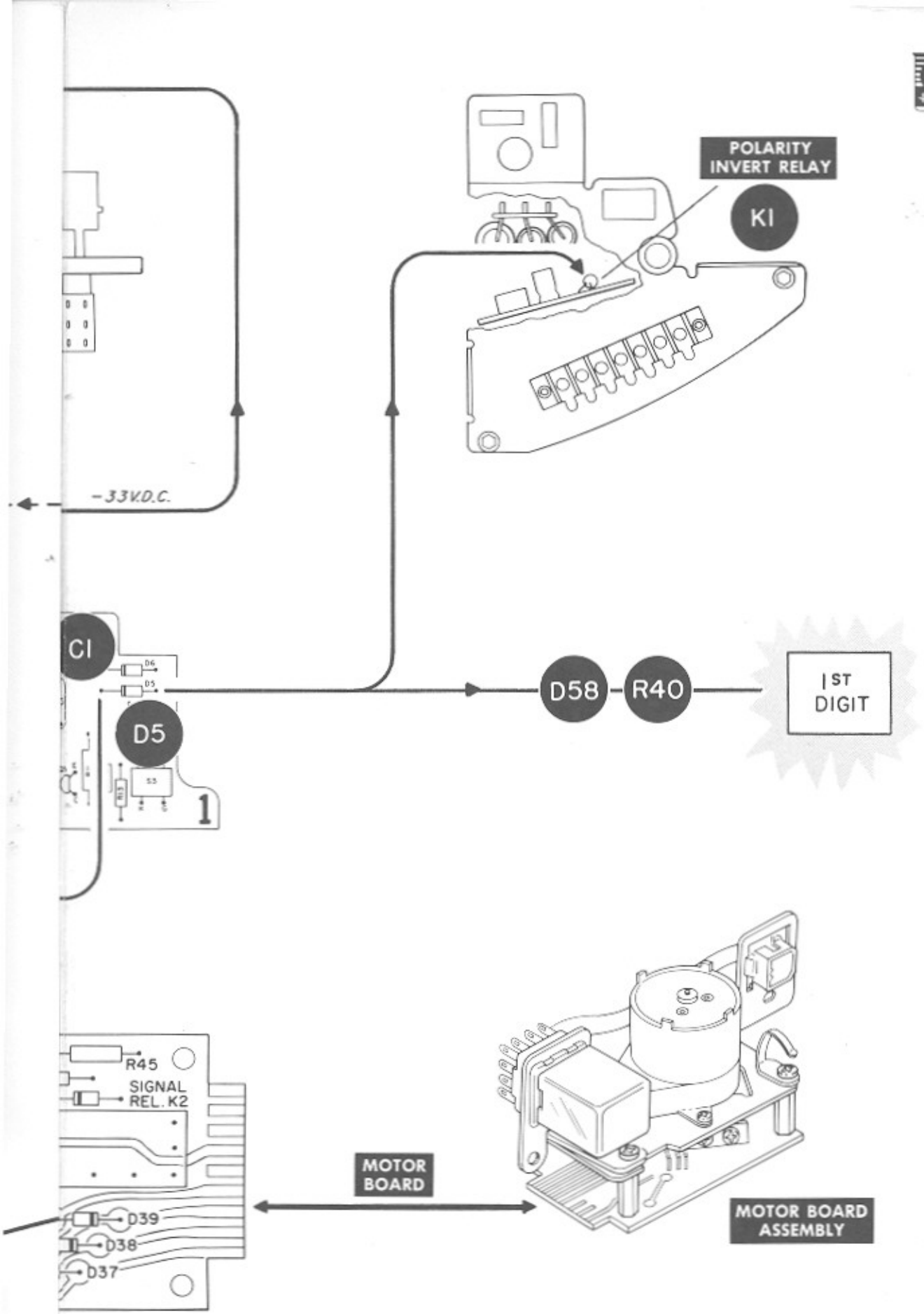


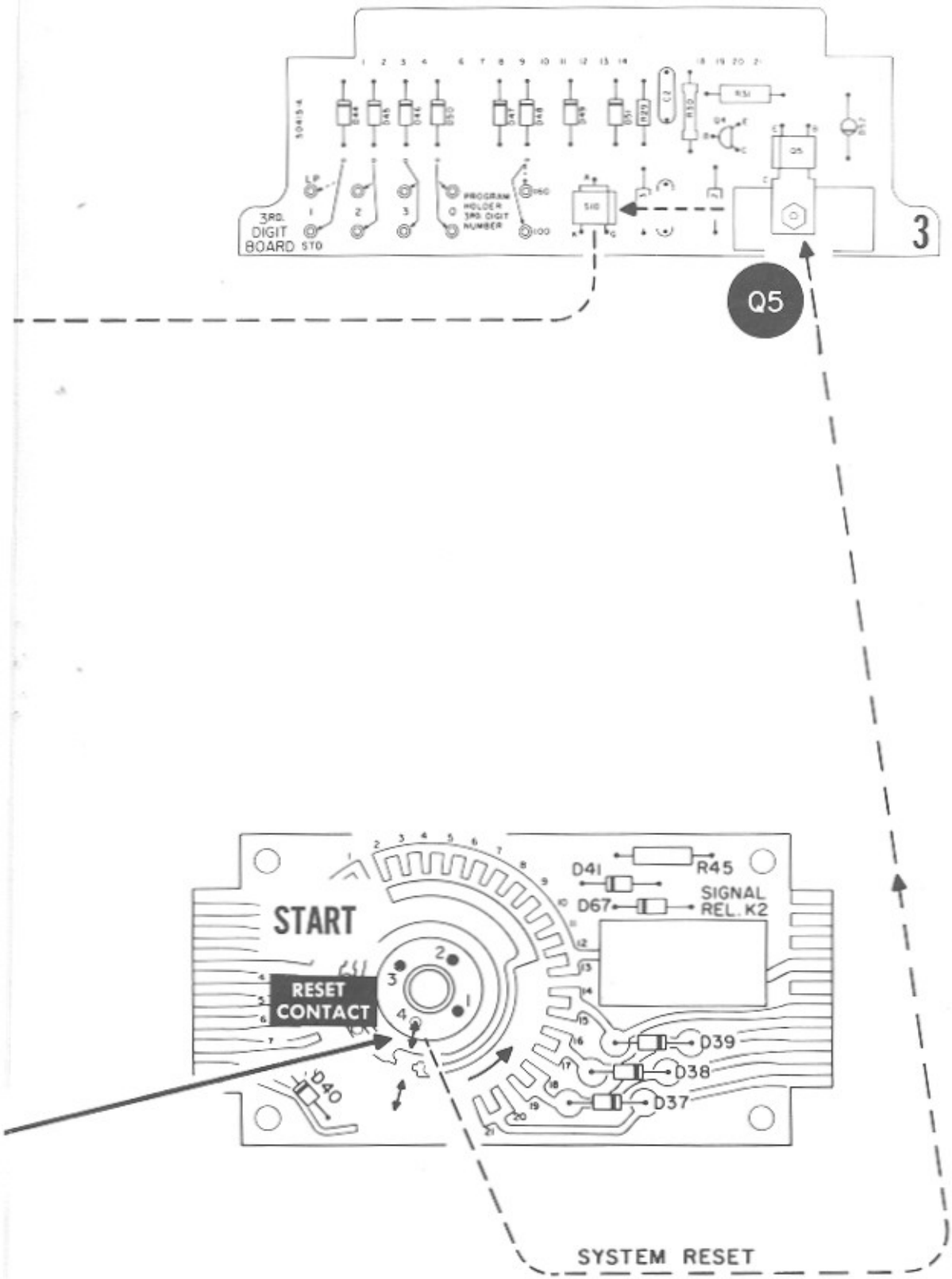



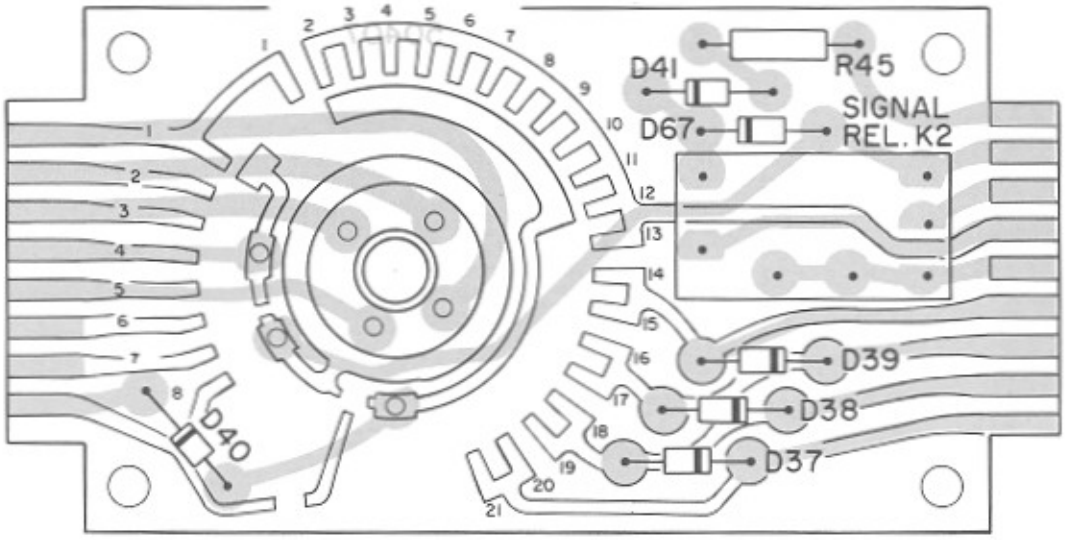

## SEQUENCE No. 10
## SYSTEM RESETS

At the end of the 2nd Pulse Train and just prior to the completion of the wiper rotation, the "inner" wiper finger strikes the "Reset" contact #4. This grounds the base of transistor Q5 causing it to shut off. . . . The SCR memory bus is de-activated and all SCR's shut off; Latch Solenoid K7 drops out thereby releasing the PB Switch #5.

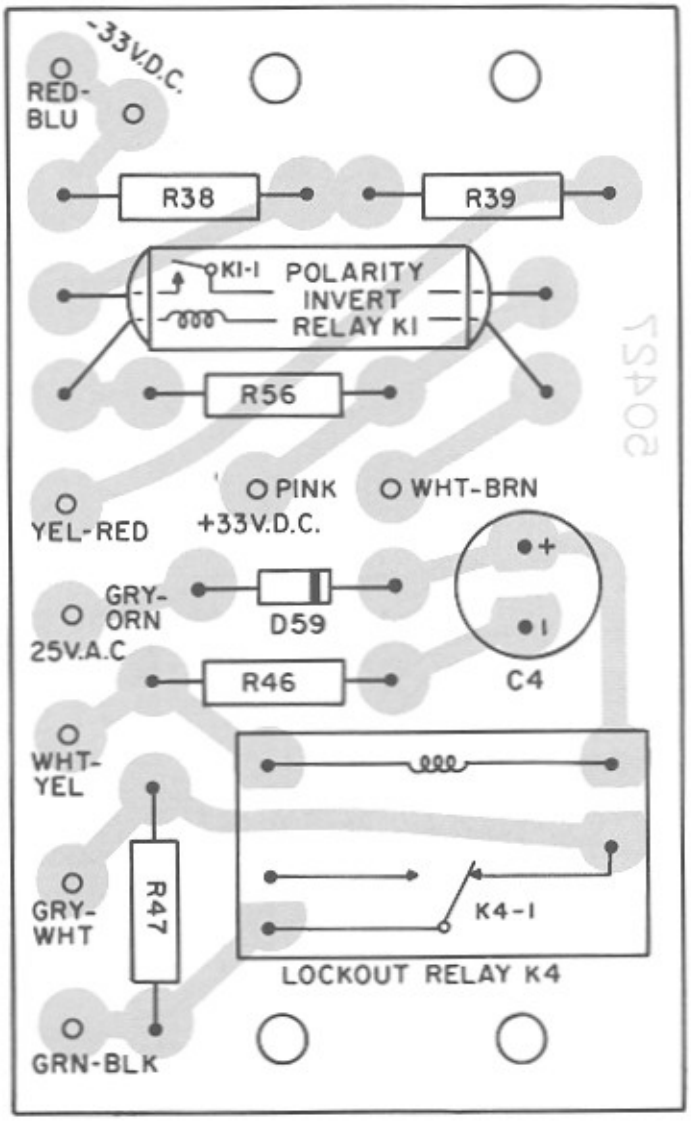
At the completion of the wiper rotation the Motor Cam Switches #1 and #2 open. Wall box resets to standby and ready to transmit the next selection provided credit is available.


POLARITY
INVERT RELAY
K1
-33V.D.C.
C1
D5
D58
R40
1ST
DIGIT
R45
SIGNAL
REL. K2
D39
D38
D37
MOTOR
BOARD
MOTOR BOARD
ASSEMBLY

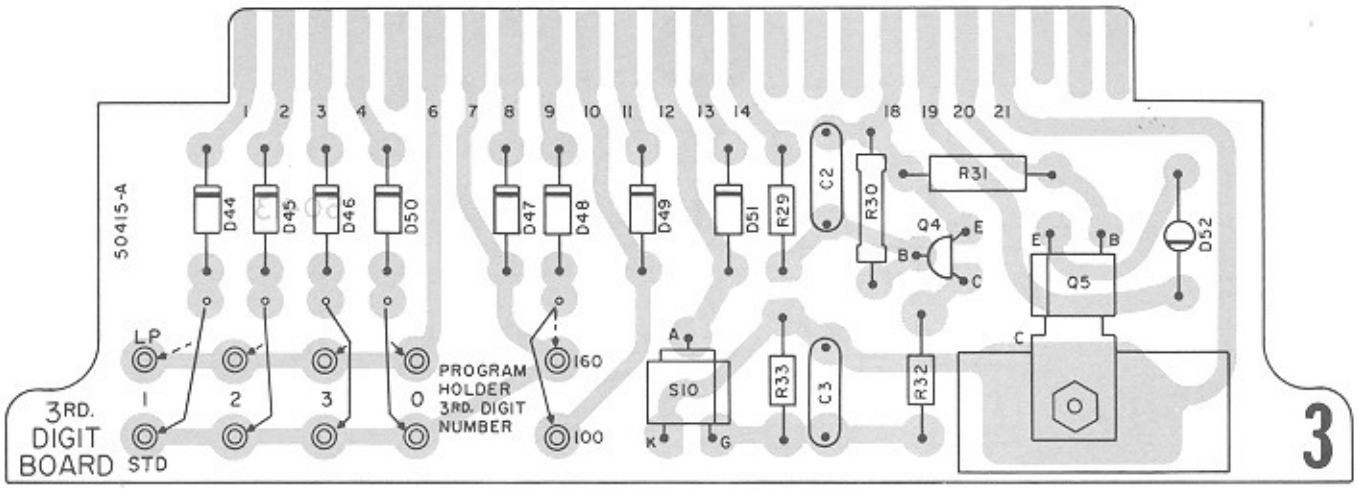

3RD. DIGIT BOARD STD
PROGRAM HOLDER 3RD. DIGIT NUMBER
3
Q5
START
RESET CONTACT
D41
R45
D67
SIGNAL REL. K2
D39
D38
D37
D40
SYSTEM RESET



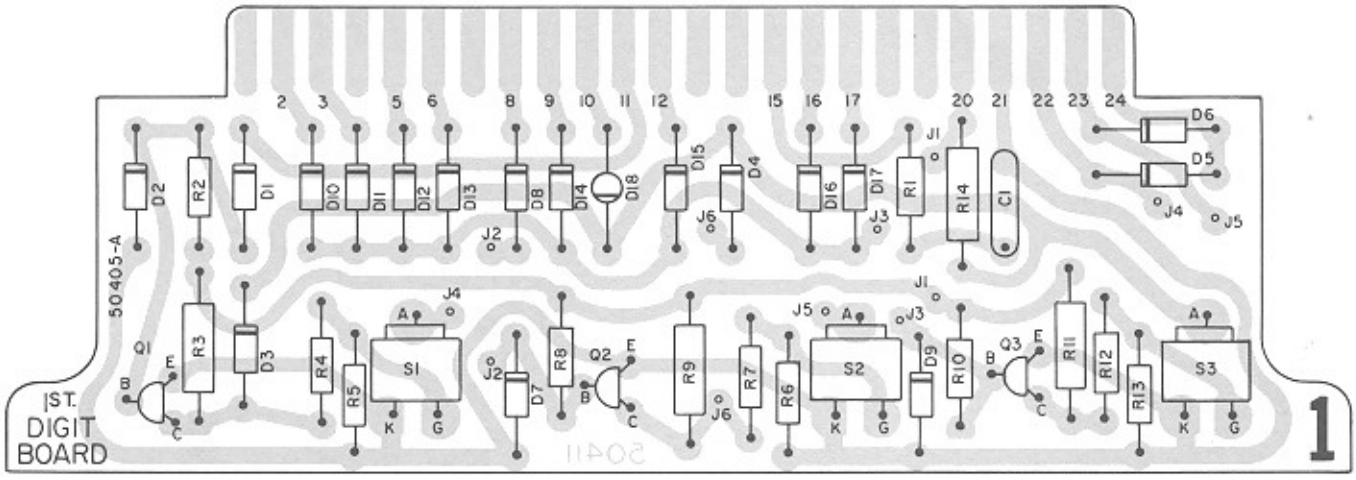

WIPER P.C. BOARD ASSEMBLY 50425-A



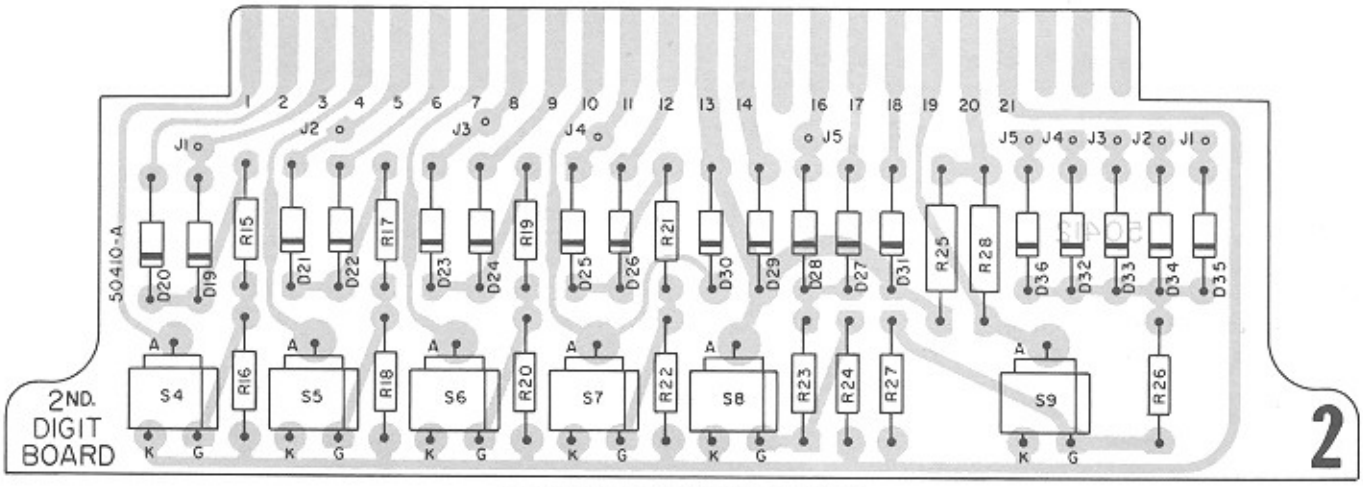

POWER SUPPLY P.C. BOARD 50381-A



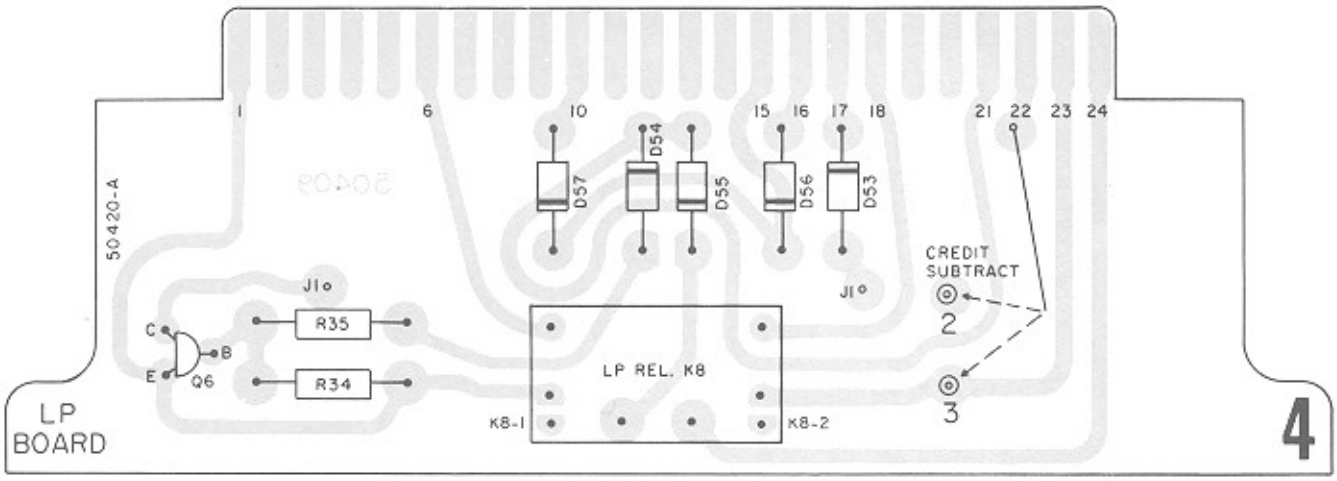

3RD. DIGIT P.C. BOARD 50415-A



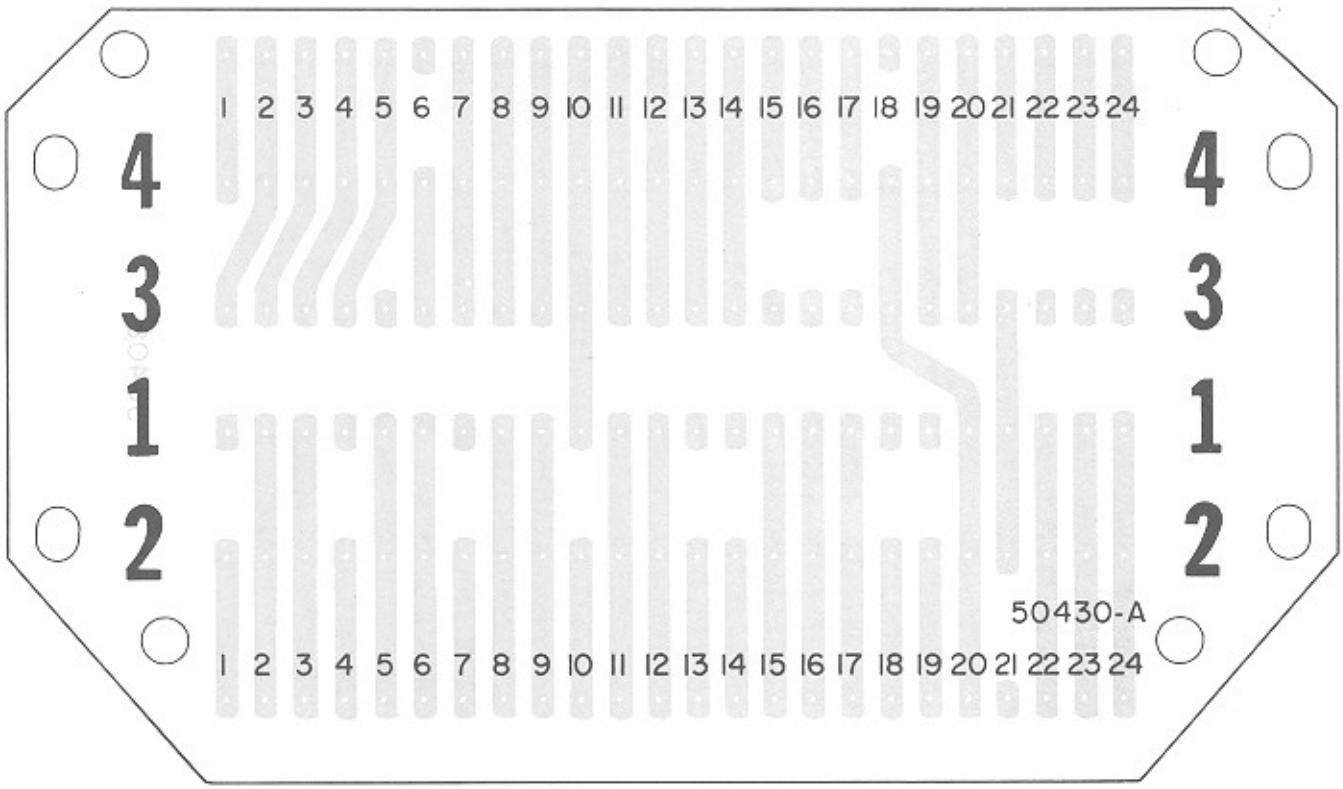

1ST. DIGIT P.C. BOARD 50405-A




2ND. DIGIT P.C. BOARD 50410-A

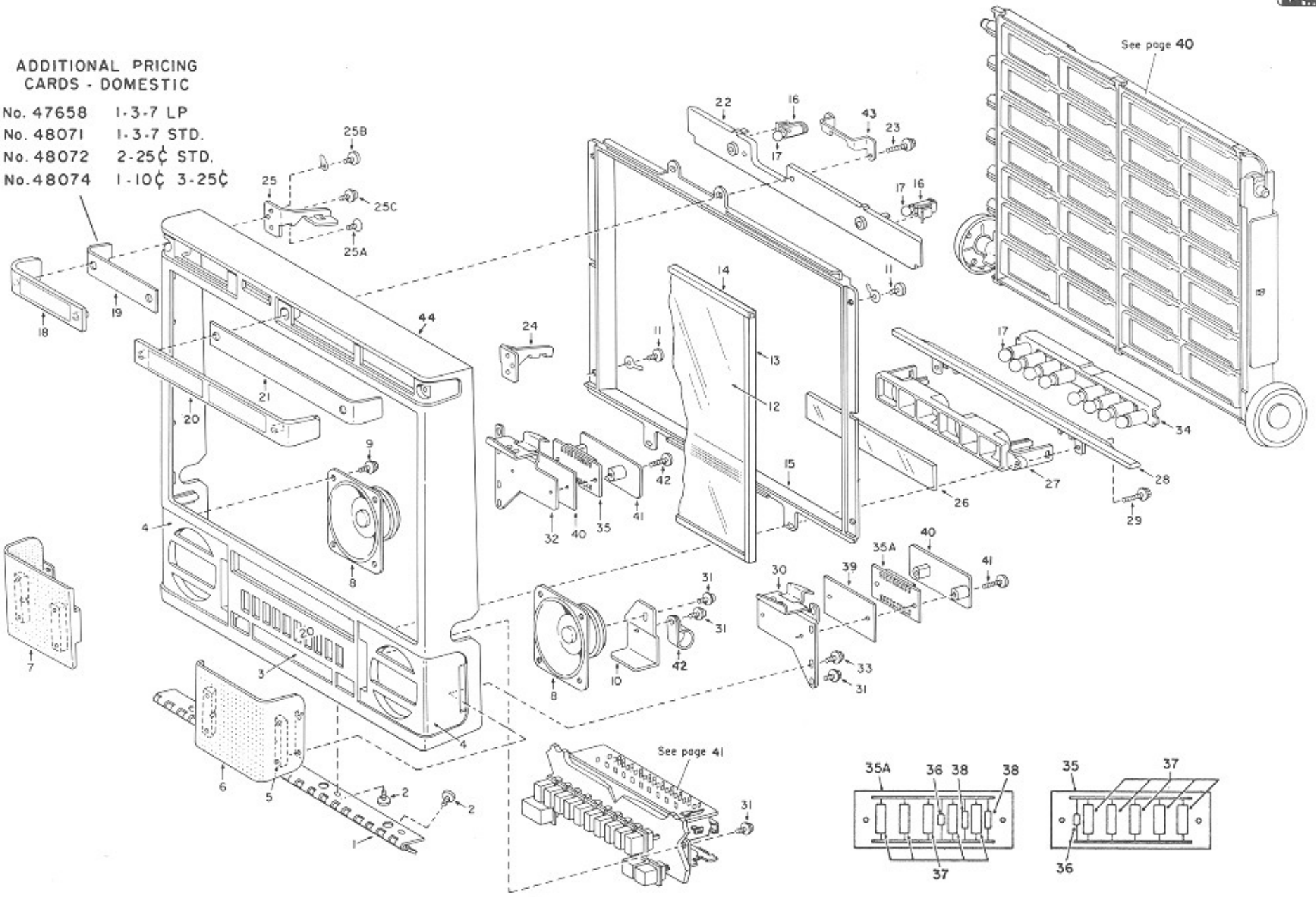



LP P.C. BOARD 50420-A



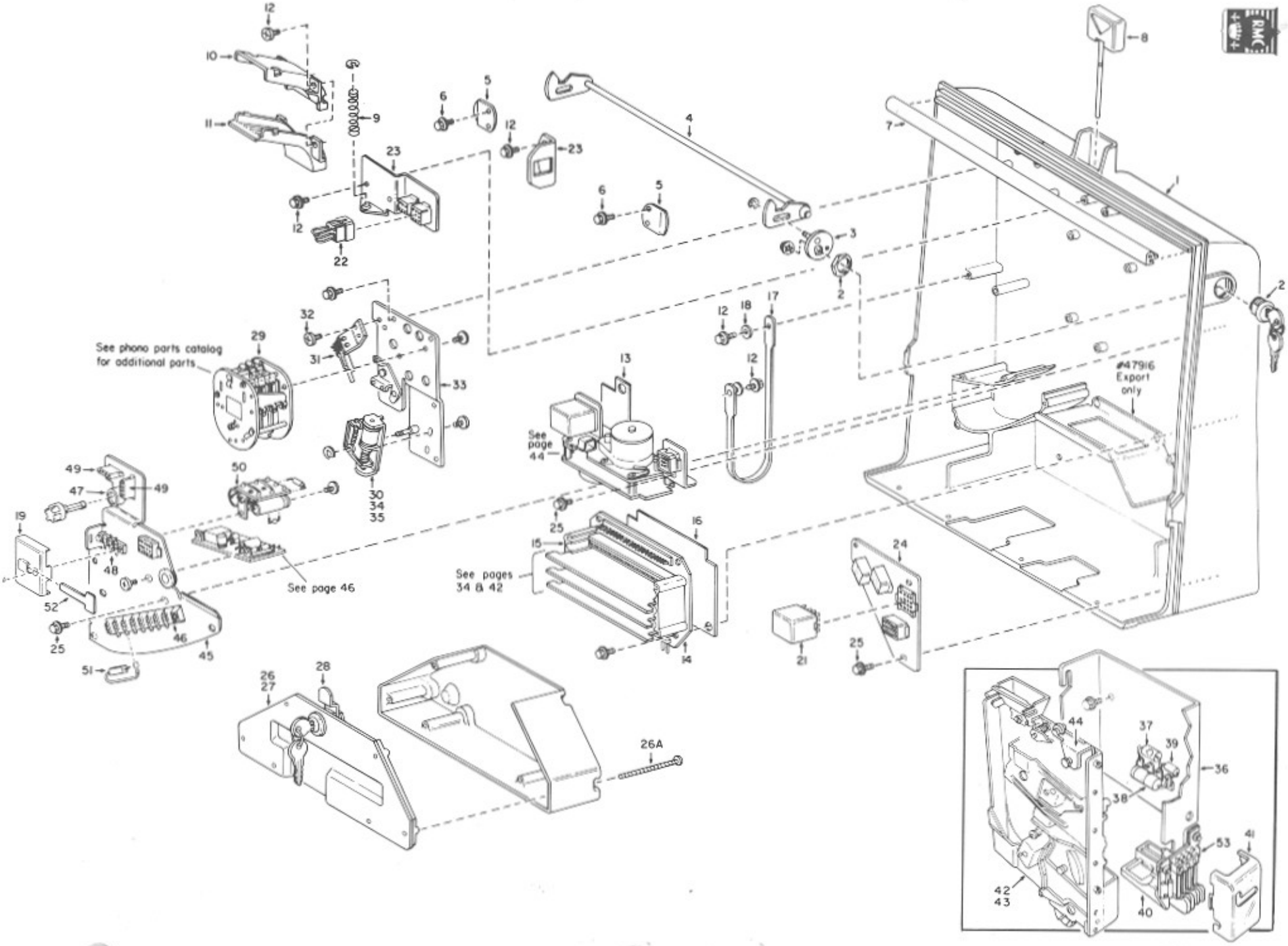
ADDITIONAL PRICING CARDS - DOMESTIC

No. 47658 1-3-7 LP
No. 48071 1-3-7 STD.
No. 48072 2-25¢ STD.
No. 48074 1-10¢ 3-25¢



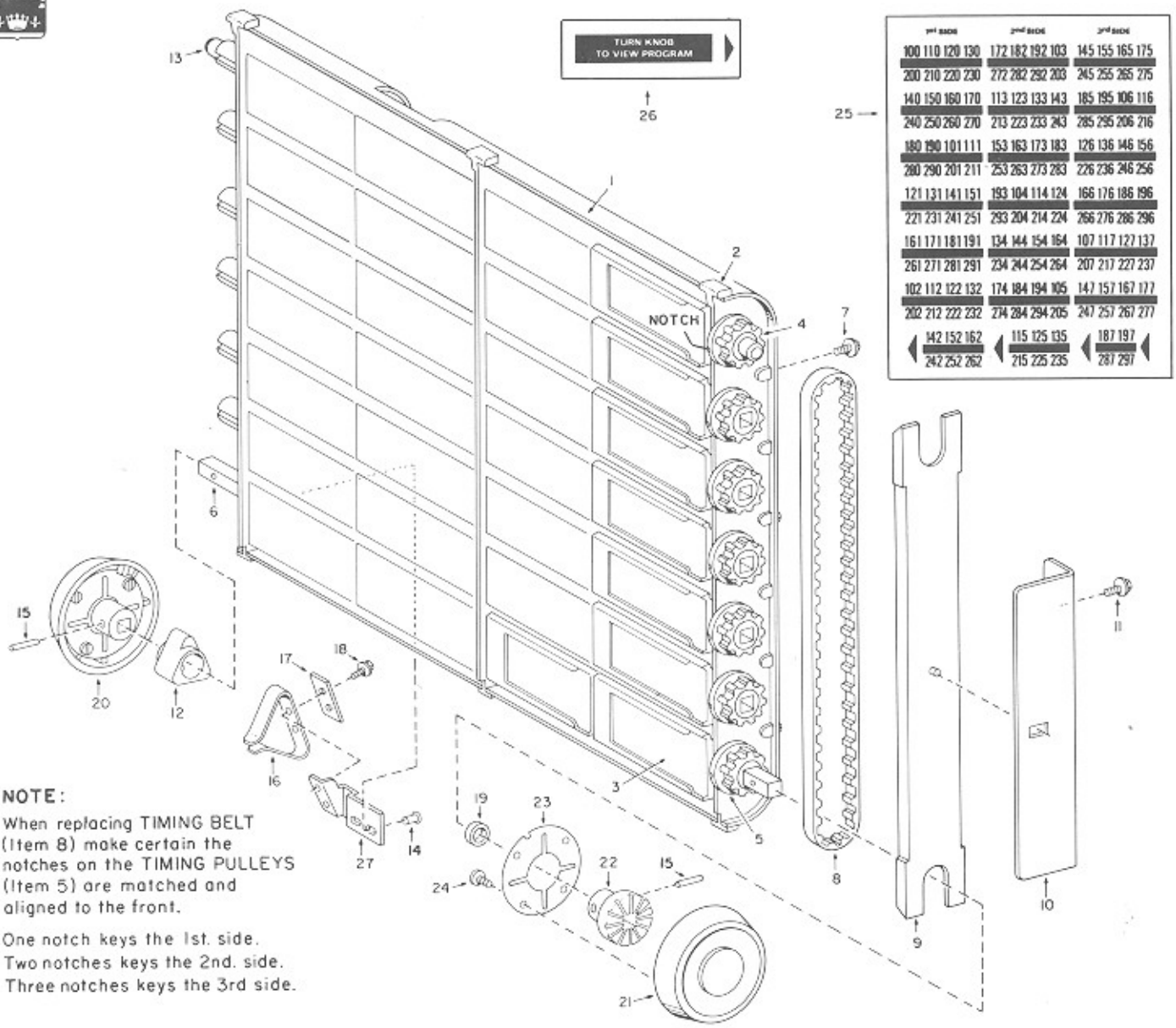
## WALL BOX FRONT No. 50675-A

| Item | Part No. | Description | Item | Part No. | Description |
|---|---|---|---|---|---|
| 1 | 47633 | Hinge | 25 | 47642 | Bracket Lock L.H. |
| 2 | ST-10115 | 8-32x1/4 Ph. P.H. | 25A | ST-10128 | 10-24x1/2 Phil Flat Hd. |
| 3 | 47653 | Insert – Wall Box Front | 25B | ST-10187 | 10-24x1/2 Phil Pan Hd. |
| 4 | 48093-1 | Grille Liner | 25C | ST-10129-D | 8x13/16 Hex Washer Hd. |
| 5 | 47608 | Grille Retainer Block | 26 | 47649 | Signal Window (Domestic) |
| 6 | 47629-2 | Speaker Grille R.H. | 27 | 47611 | Light Box Signal Window |
| 7 | 47631-2 | Speaker Grille L.H. | 28 | 47617 | Light Diffuser – Lower Program |
| 8 | 47637-1 | "3" Speaker | 29 | ST-8274 | 8-32x7/8 Hex Flg. |
| 9 | ST-8268-D | 8-32x5/16 Hex Flg. | 30 | 48191-A | Program Mtg. Brkt. Assembly R.H. |
| 10 | 50429 | Cable Holder Bracket | 31 | ST-8269 | 8-32x3/8 Hex Flg. |
| 11 | ST-8268-D | 8-32x5/16 Hex Flg. | 32 | 48192-A | Program Mtg. Brkt. Assembly L.H. |
| 12 | 47636 | Front Glass | 33 | ST-10123-D | 8x5/16 Hex Washer Hd. |
| 13 | 47634 | Vinyl Channel 1/8x8-11/16 | 34 | 47638-A | Light Channel & Socket Assembly |
| 14 | 47634 | Vinyl Channel 1/8x14-29/32 | 35 | 45828 | 10 Lug Terminal Board |
| 15 | 47609 | Program Shroud | 35A | 45828 | 10 Lug Terminal Board |
| 16 | 48231-A | Light Socket Assembly | 36 | 46497 | 100 PRV Glass 1 Amp Rectifier |
| 17 | 46739 | #53 Bulb | 37 | 33248 | 47 Ohm 1 Watt Resistor |
| 18 | 47604 | Instruction Window Casting | 38 | 15686 | 470 Ohm 1/2 Watt Resistor |
| 19 | 47663 | Instruction Card – Domestic | 39 | 45829 | Insulator |
| 20 | 47606 | Pricing Window Casting | 40 | 48207 | Terminal Board Cover |
| 21 | 50676 | Pricing Card (2-5-11 Singles) | 41 | ST-10081 | 6-32x3/4 Phil. Pan Hd. |
| 22 | 47616 | Light Diffuser Upper Program | 42 | ST-3603 | Black Nylon Clamp 9/16 |
| 23 | ST-10129-D | 8x13/16 Hex Washer Hd. | 43 | 48076 | Coin Slot Bracket (Export Only) |
| 24 | 47641 | Bracket Lock R.H. | 44 | 47585 | Wall Box Front Casting |


See phono parts catalog for additional parts
See page 46
See page 44
See pages 34 & 42
#47916 Export only

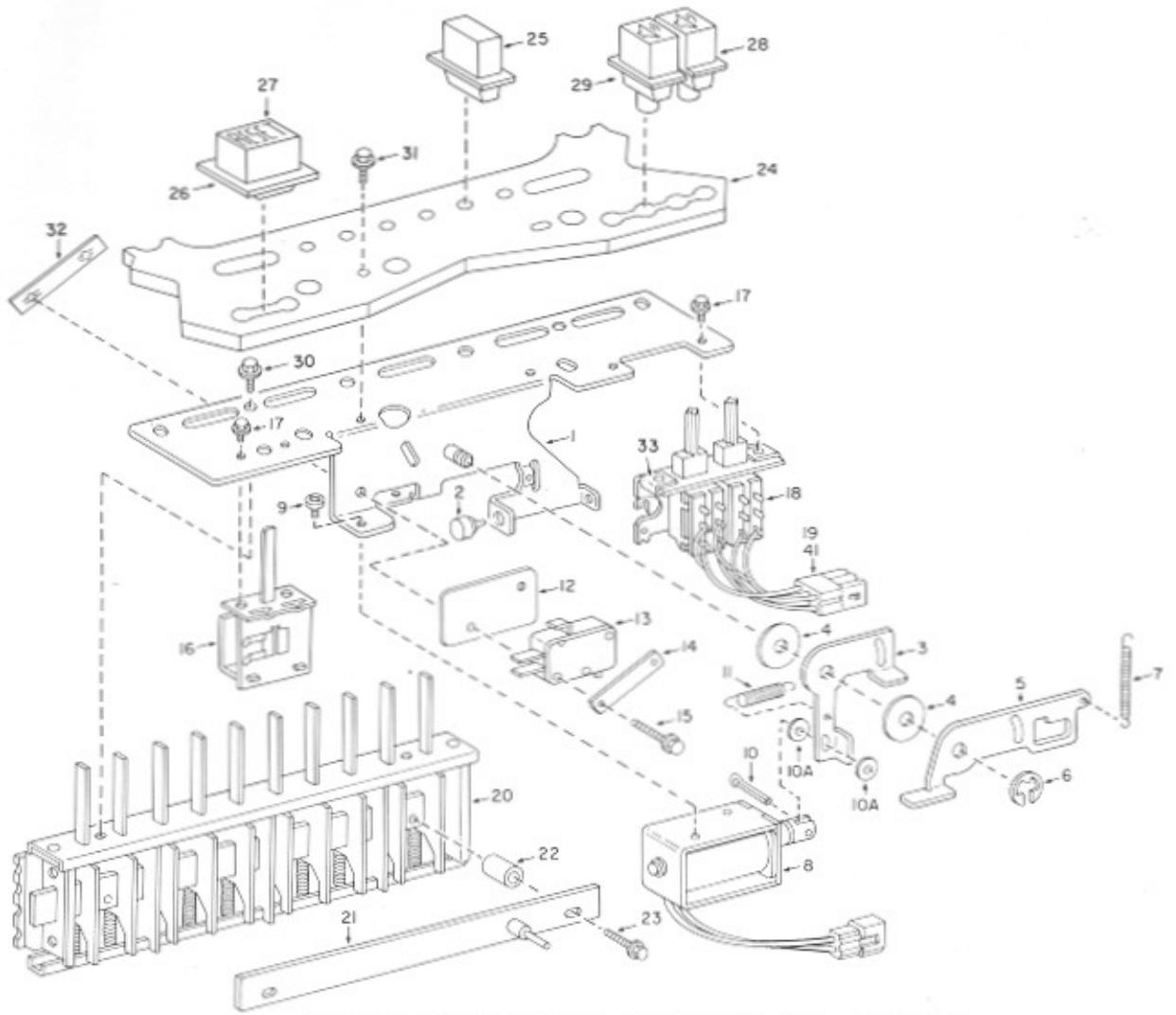
## WALL BOX BACK ASSEMBLY — No. 50680-A

| Item | Part No. | Description | Item | Part No. | Description | Item | Part No. | Description |
|---|---|---|---|---|---|---|---|---|
| 1 | 50400 | Wall Box Back Casting | 24 | 50448-A | Relay Brkt Assembly | 35 | 37570-1 | Plunger |
| 2 | ST-10086 | Lock | | 50419 | Socket Plate | | 34559 | Return Spring |
| | ST-10086-K | Key | 25 | ST-8268 | 8-32x5/16 Hex Flg | 36 | 48147-1A | Rejector Hsg. Assem. |
| | ST-8752 | Mounting Nut | 26 | 48132-A | Cash Box Assembly Dom. | 37 | 47972 | 200 PRV Glass Rect. |
| | ST-10085 | Cam Bolt | | 48128 | Cash Box Back | 38 | 41501 | 100 Mfd Capacitor |
| 3 | 48183-A | Cam Bolt Rivet Assem. | | 48131 | Cash Box Front | 39 | 33248 | 47 Ohm 1 Watt Resistor |
| 4 | 48184-A | Lock Bar Assembly | 26A | ST-10093 | #6x2" Hex Flg | 40 | 45460 | Coin Guide |
| 5 | 47931 | Lock Bar Retainer | 27 | 48129-A | Cash Box Assem. Export | 41 | 45463-1 | Coin Switch Cover |
| 6 | ST-8268 | 8-32x5/16 Hex Flg | | 48128 | Cash Box Back | 42 | 50697-A | Reject Arm Assembly |
| 7 | 48224 | Vinyl Channel | | 48127 | Cash Box Front | 43 | 47165 | Rejector — 50¢ — NRI |
| 8 | 47607-1 | Reject Button | 28 | ST-7411 | Lock | | 45860 | Rejector — 50¢ — Coinco |
| 9 | 37054 | Return Spring | | ST-7411-K | Key | 44 | 50698-A | Reject Lever Assembly |
| | ST-9825 | Keeper | | ST-8752 | Mounting Nut | | 50703 | Reject Lever Stud |
| 10 | 47612 | Coin Chute — Upper | | ST-9442 | Washer | | ST-9263 | Retaining Ring |
| 11 | 47613 | Coin Chute — Lower | | ST-8731 | Mounting Nut | | ST-4881 | Flat Washer |
| 12 | ST-8270 | 8-32x7/16 Hex Flg | | 47915 | Cam Belt | | ST-8721 | 8-32 Flg Hex Whiz Nut |
| 13 | 50711 | Relay Insulator | 29 | 49375-1A | Accum. 2/3 Ratchet | 45 | 50382-A | Terminal Brd. Assem. |
| 14 | 50430-A | Main P.C. Board Assem. | 30 | 37664-A | Reset Assembly | 46 | 50344 | Terminal Block (7) |
| 15 | 50403 | Board Separator | | 37567 | Reset Pawl Guide | 47 | 47837 | Fuseholder |
| 16 | 50449 | Main Board Insulator | | 17982 | Pawl | 48 | 48136 | Terminal Block (3) |
| 17 | 48134 | Hinge Stay | | 14028 | Compression Spring | 49 | 50398-A | 4 Cir. Sockets Assem. |
| 18 | ST-399 | Flat Washer | 31 | 34000-1A | Control Switch Assem. | 50 | 50710-A | Cone Brd. Assem. |
| 19 | 48208 | Terminal Cover | 32 | ST-4559 | 6-32x3/16 Ph.P.H.M.S. | | 13388 | 10K Ohm Resistor |
| 20 | ST-9745 | 4-40x1/2 Phil. P.H.S. | 33 | 37616-2A | Accum. Mtg Plate Assem. | | 47972 | 200 PRV Glass Rect. |
| 21 | 45305 | Relay 24 Vac | 34 | 50397 | Reset Coil (Green) | | 41501 | 100 Mfd Capacitor |
| 22 | 50613-A | Jumper Plug (White) | 35 | 37634-A | Coil Brkt. Stop Assem. | | 43536 | 250 Mfd Capacitor |
| 23 | 50451-A | Upper Brkt. Assem. | | 37556 | Reset Coil Brkt. (Rear) | 51 | 50367-A | Signal Res. Assem. |
| | 50417 | Reject Button Guide | | 39784 | Armature Back Stop | | 49298 | 22 Ohm 2 Watt Res. |
| | 48099 | 6 Cir. Min. Recept. Hsg. | | 49173-A | Coil Brkt. & Nut Assem. | 52 | 37392 | Seal |
| | 50436 | 9 Cir. Min Recept. Hsg. | | 37555-1 | Reset Coil Brkt. (Front) | 53 | 47078-A | Coin Switch Assem. 50¢ |



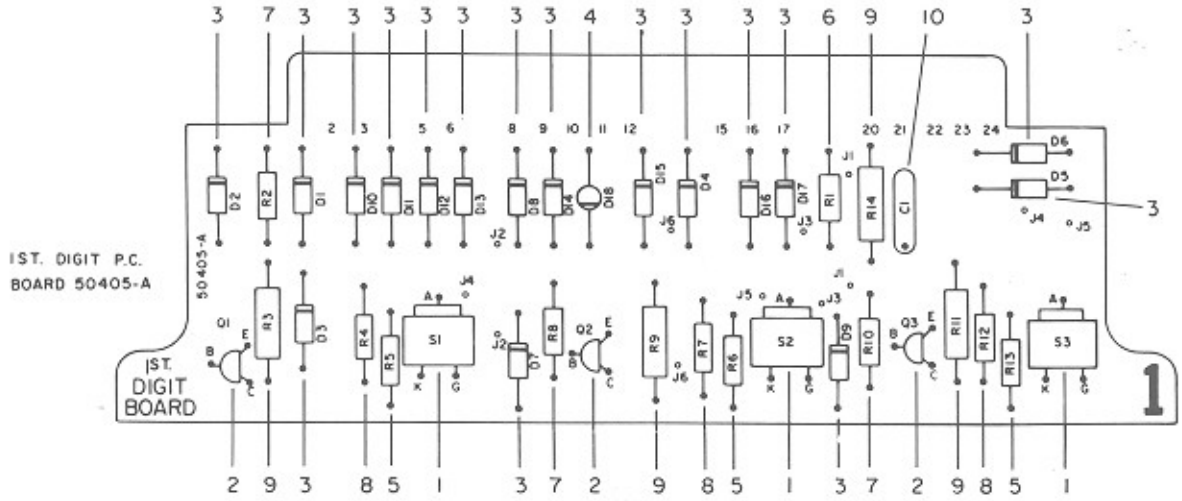

## PROGRAM HOLDER ASSEMBLY — No. 47610-A

| Item | Part No. | Description | Item | Part No. | Description |
|---|---|---|---|---|---|
| 1 | 48187-A | Program Frame Assembly | 16 | 47643 | Program Detent Spring |
| 2 | 47593 | Program Bearing | 17 | 48123 | Support Plate |
| 3 | 46975 | Program Holder | 18 | ST-2546 | 5-40x1/4 Hex Flg. |
| 4 | 48188-A | Pulley & Guide Pin Assem. | 19 | 48091 | Program Spacer |
| 5 | 47592 | Timing Pulley | 20 | 48190-2A | Program Knob Assembly |
| 6 | 47621 | Program Shaft | 21 | 47602-2 | Program Knob Only—Outer |
| 7 | ST-10123 | 8x5/16 Hex Washer Hd. | 22 | 47603 | Program Knob—Inner |
| 8 | 47596 | Timing Belt | 23 | 47622-1 | Knob Clutch Spring |
| 9 | 47591 | Program Belt Retainer | 24 | ST-4041 | 6x1/4 Phil Pan Hd. |
| 10 | 47644 | Retainer Bracket | 25 | 47672-1 | Number Strips (Set) |
| 11 | ST-9743-D | 8x3/8 Hex Washer Hd. | 26 | 47667 | View Program Card (Dom.) |
| 12 | 47601 | Program Detent | 27 | 48089 | Detent Bracket |
| 13 | 47937 | Program Guide Pin | | | |
| 14 | ST-979 | 1/8 Dia. x 3/16 Rivet | | | |
| 15 | ST-255 | 3/32 Dia. x 5/8 Roll Pin | | | |




**PUSH BUTTON SWITCH ASSEMBLY — No. 50395-A**

| Item | Part No. | Description | Item | Part No. | Description |
|---|---|---|---|---|---|
| 1 | 47938-A | Solenoid Mtg. Plate Assem. | 22 | 47132 | Spacer |
| 2 | ST-2320 | Solenoid Bumper | 23 | ST-2560 | 6-32x5/8 Hex Flg. |
| 3 | 47136 | Solenoid Lever | 24 | 47614 | Light Diffuser |
| 4 | 48574 | Lock Lever Washer | 25 | 47002-3 | Button Set (1 Thru 0) |
| 5 | 47133 | Locking Lever | 26 | 47599-2 | Reset Button |
| 6 | ST-9245 | Truarc "E" Ring | 27 | 47646 | Button Insert |
| 7 | 35109 | Rocker Bar Spring | 28 | 47597-2 | Button – Soft |
| 8 | 48219-1A | Solenoid Assembly | 29 | 47598-2 | Button – Loud |
| 9 | ST-6335 | 6-32x3/16 P.P.H. | 30 | ST-2566 | 8-32x1/4 Hex Flg. |
| 10 | ST-1024 | Cotter Pin (Stainless) | 31 | ST-8269 | 8-32x3/8 Hex Flg. |
| 10A | ST-9430 | Fiber Washer | 32 | ST-10117 | Speed Nut |
| 11 | 47134-1 | Return Spring | 33 | ST-10118 | Speed Nut Fastener |
| 12 | 43494 | Insulator | | | |
| 13 | 42397 | Micro Switch | | | |
| 14 | 45395 | Hold Down Plate | | | |
| 15 | ST-8286 | 4x3/4 Hex Flg. | | | |
| 16 | 47128 | Reset Switch | | | |
| 17 | ST-2555 | 6-32x1/4 Hex Flg. | | | |
| 18 | 47127 | Tone Switch | | | |
| 19 | 48153 | 6 Cir. Min. Recept. | | | |
| 20 | 50456 | Push Button Switch | | | |
| 21 | 48182-A | Lock Bar Assembly | | | |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BOARD 50405-A
50405-A
1ST.
DIGIT
BOARD
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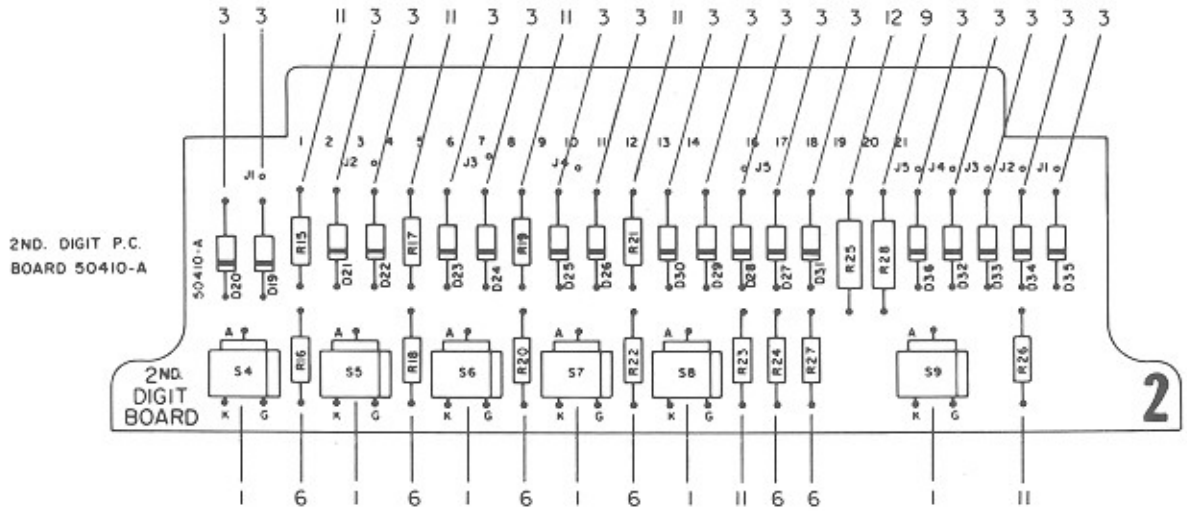
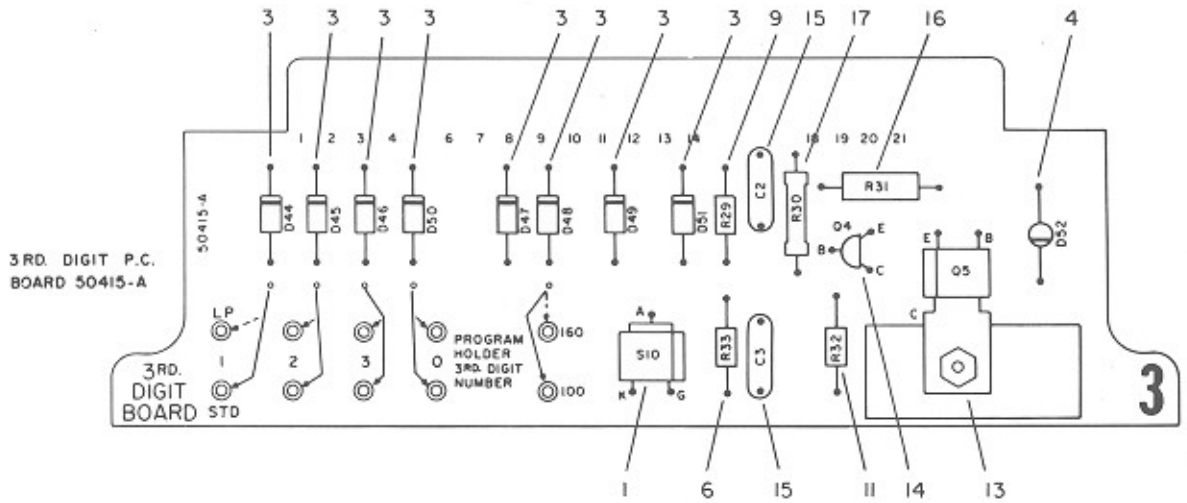

2ND. DIGIT P.C.
BOARD 50410-A
50410-A
2ND.
DIGIT
BOARD
2


3RD. DIGIT P.C.
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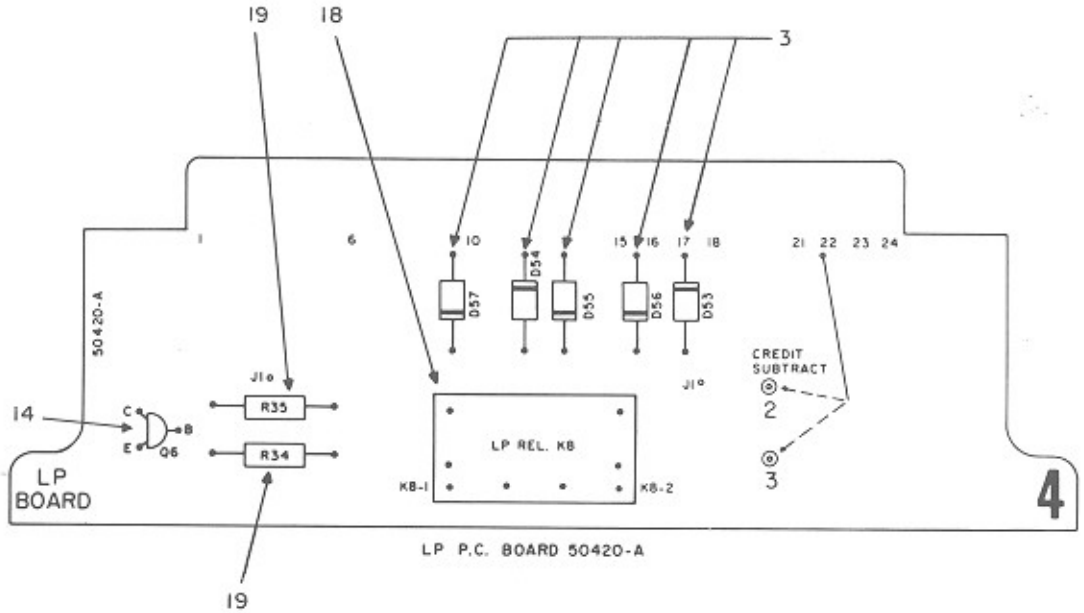
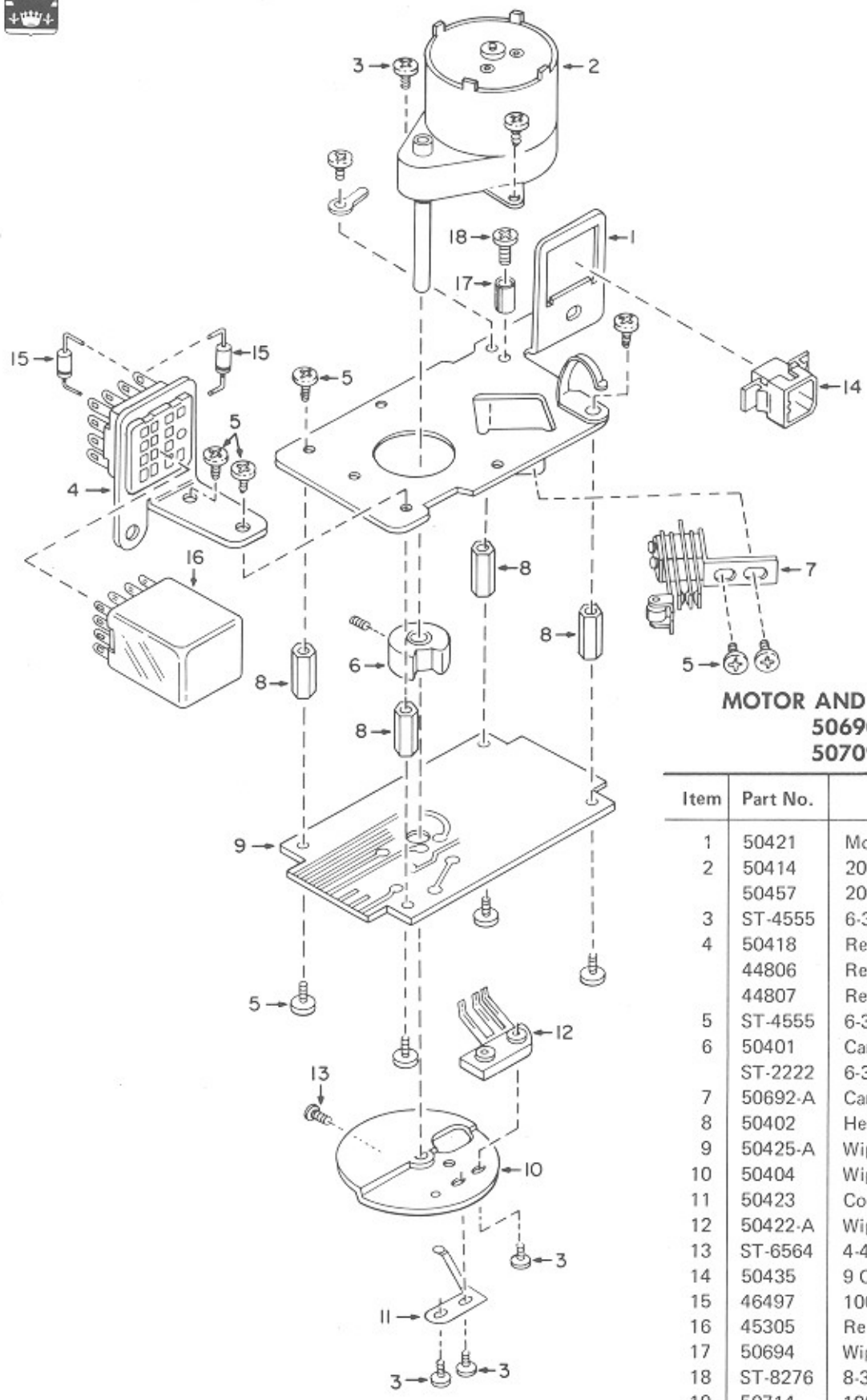


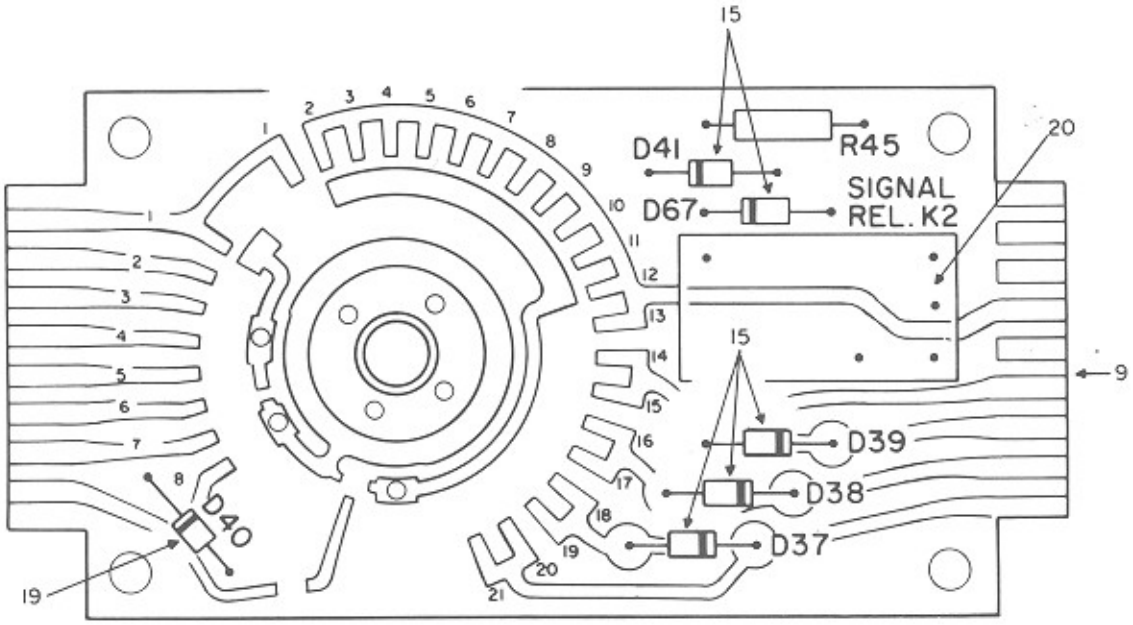

## DIGIT P.C. BOARD ASSEMBLIES

| Item | Part No. | Description | Item | Part No. | Description |
|---|---|---|---|---|---|
| 1 | 47433 | Silicon Control Rectifier | 12 | 31373 | 3.3K Ohm 1/2 Watt Resistor |
| 2 | 49415 | Transistor A06 | 13 | 48929 | Power Tab Transistor N.P.N. |
| 3 | 46497 | 100 PRV 1 Amp Min. Silicon Rectifier | | 50687 | Heat Sink Bracket |
| 4 | 47972 | 200 PRV Glass 1.5 Amp Rectifier | | ST-10318 | 4-40x5/16 Phil. Pan H.M.S. |
| 5 | 47427 | 1K Ohm 1/4 Watt Resistor | | ST-8727 | 4-40 Keps Hex Nut |
| 6 | 47426 | 470 Ohm 1/4 Watt Resistor | 14 | 47831 | Transistor PNP A56 |
| 7 | 48046 | 22K Ohm 1/4 Watt Resistor | 15 | 47422 | .047 Mfd 250 W.V.D.C. Capacitor |
| 8 | 50399 | 6.8K Ohm 1/4 Watt Resistor | 16 | 13182 | 2.7K Ohm 1/2 Watt Resistor |
| 9 | 16226 | 4.7K Ohm 1/2 Watt Resistor | 17 | 16227 | 22K Ohm 1/2 Watt Resistor |
| 10 | 47421 | .1 Mfd 250 W.V.D.C. Capacitor | 18 | 48213 | P.C. Relay 2 PDT 24 VDC |
| 11 | 47832 | 5.6K Ohm 1/4 Watt Resistor | 19 | 13388 | 10K Ohm 1/2 Watt Resistor |




## MOTOR AND WIPER ASSEMBLY
## 50690-A 60 Hz
## 50709-A 50 Hz

| Item | Part No. | Description |
|---|---|---|
| 1 | 50421 | Motor Bracket |
| 2 | 50414 | 20 RPM Motor – 60 HZ |
| | 50457 | 20 RPM Motor – 50 HZ |
| 3 | ST-4555 | 6-32x1/4 P.H.M.S. |
| 4 | 50418 | Relay Bracket |
| | 44806 | Relay Socket |
| | 44807 | Relay Socket Retainer |
| 5 | ST-4555 | 6-32x1/4 P.H.M.S. |
| 6 | 50401 | Cam |
| | ST-2222 | 6-32x1/4 Set Screw |
| 7 | 50692-A | Cam Switch & Brkt. Assem. |
| 8 | 50402 | Hex Post |
| 9 | 50425-A | Wiper P.C. Board Assem. |
| 10 | 50404 | Wiper Shield |
| 11 | 50423 | Contact Blade |
| 12 | 50422-A | Wiper Arm Assembly |
| 13 | ST-6564 | 4-40x3/8 P.F.H.M.S. |
| 14 | 50435 | 9 Cir. Min. Plug |
| 15 | 46497 | 100 PRV 1 AMP Rect. |
| 16 | 45305 | Relay 4 PDT 24 VAC |
| 17 | 50694 | Wiper Gage |
| 18 | ST-8276 | 8-32x1/2 P.H. |
| 19 | 50714 | 100 PRV 1 Amp Fast Recovery |
| 20 | 50384 | P.C. Relay SPDT 24 VDC |
| | 50696 | Relay Pad |




WIPER P.C. BOARD ASSEMBLY 50425-A

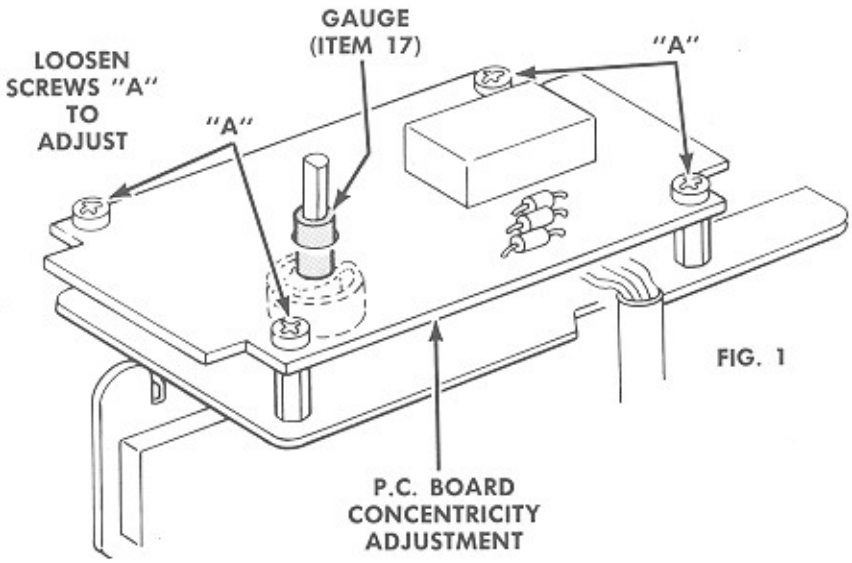



FIG. 1

## WIPER P.C. BOARD CONCENTRICITY AND WIPER SHIELD HEIGHT GAUGE

Should replacement of parts be necessary use gage (Item 17) for re-alignment of wiper related parts as shown in Fig. 1 and Fig. 2.

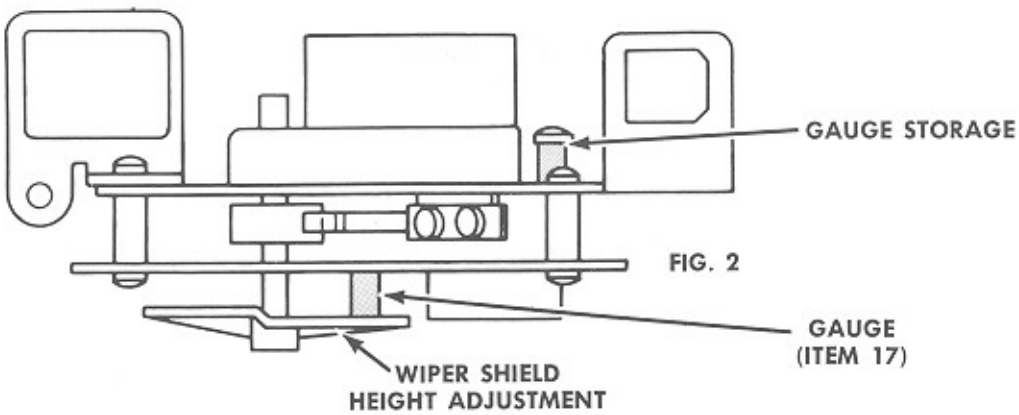
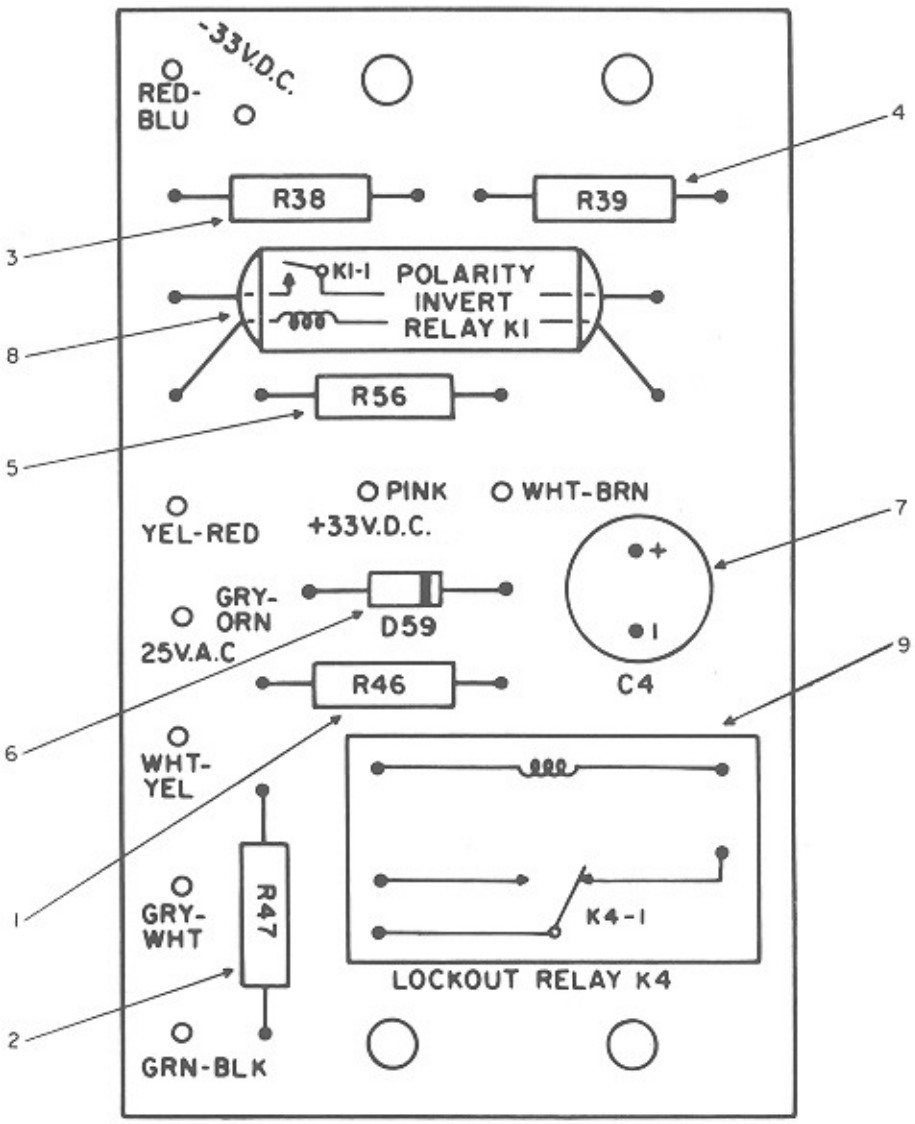



FIG. 2




## POWER SUPPLY BOARD ASSEMBLY — No. 50381-A

| Item | Part No. | Description |
|---|---|---|
| 1 | 35696 | 270 Ohm 1/2 Watt Resistor |
| 2 | 16226 | 4.7K Ohm 1/2 Watt Resistor |
| 3 | 13388 | 10K Ohm 1/2 Watt Resistor |
| 4 | 13182 | 2.7K Ohm 1/2 Watt Resistor |
| 5 | 15686 | 470 Ohm 1/2 Watt Resistor |
| 6 | 46497 | 100 PRV 1 Amp Rect. |
| 7 | 49279 | 10 Mfd 75 WVDC Capacitor |
| 8 | 50722 | Reed Relay (Polarity Invert) |
| 9 | 50384 | Lockout Relay SPDT — 24 VDC |
| | 50696 | Relay Pad |

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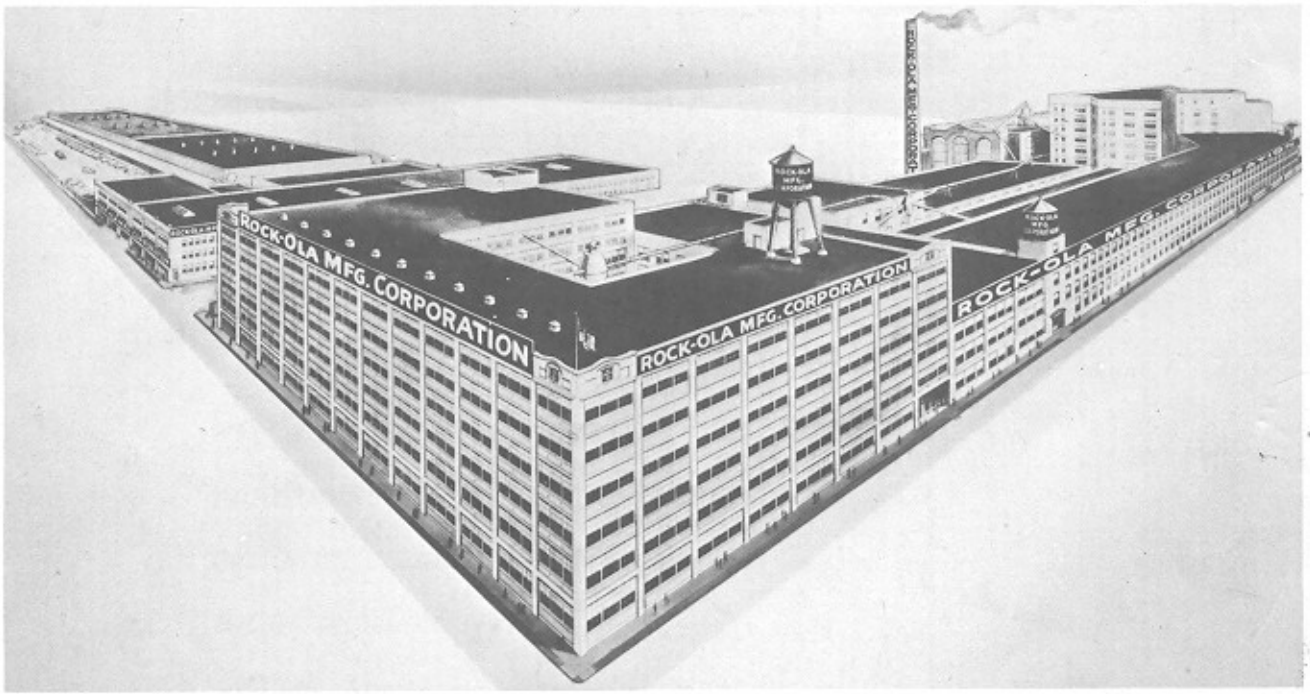


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