

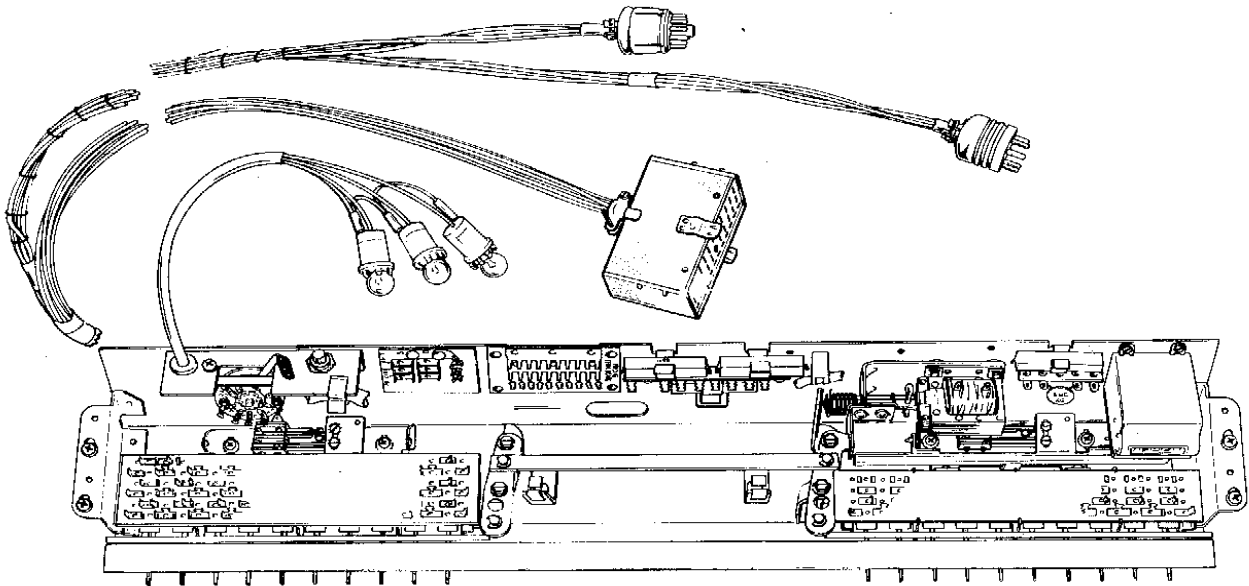
SEEBURG

TORMAT ELECTRICAL SELECTOR

TYPE TES103

SEEBURG

TORMAT ELECTRICAL SELECTOR, Type TES 103



The tormat Electrical Selector, Type TES103, is part of the Seeburg Tormat Selection System. The principal functions of the Selector are to connect a letter and a number circuit of the Tormat Memory Unit of the System into a selection write-in circuit and to complete a circuit that initiates the operational sequence of the system. These are performed when operating a lettered selector key and a numbered key.

The principal component parts of the Selector include the service switch, two selection switch assemblies, a latch bar operating solenoid, three credit indicating lights, a selection pricing terminal board, a pricing unit board and two switch groups each of which has two pairs of contacts. There is also a counter which totals the number of selections made with remote control Wall-O-Matics as well as those made with the Electrical Selector.

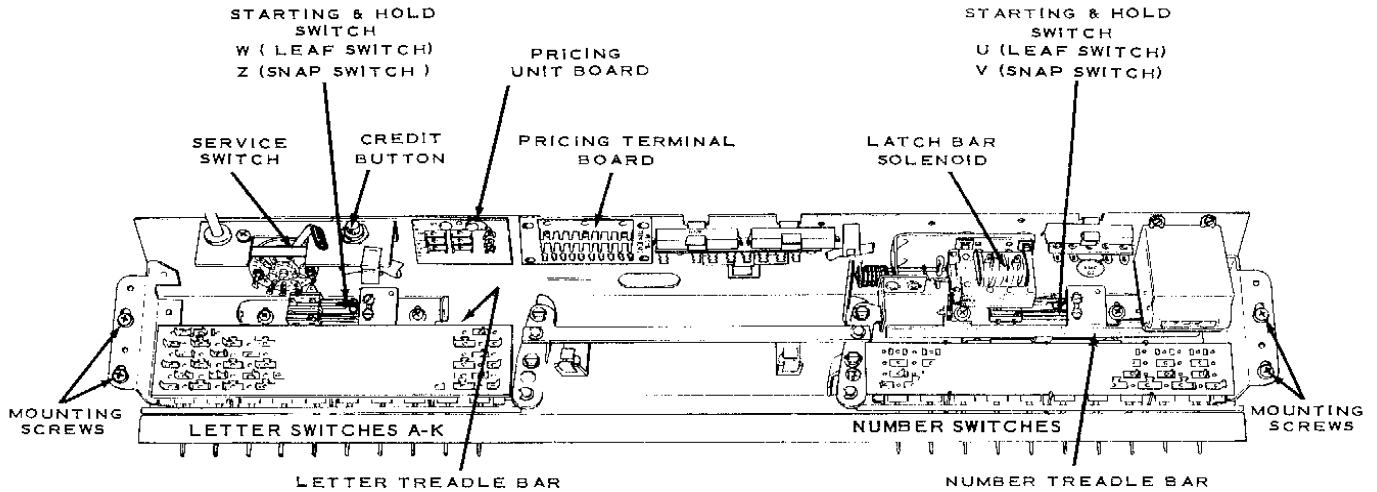
The credit indicating lights are extended on their connecting leads so they illuminate the selection and credit information windows that are in the phonograph. They are 6-volt lamps operated at 25 volts through resistors. A different light is turned on to indicate when selections can be made in accordance with the selection pricing unit being used.

The latch bar function is to hold in a selection switch (and selector key) when a selection is being made and to release it when the selection is complete. The solenoid is energized where credits are set up in the phonograph pricing unit.

The shafts or stems of the selector switches operate a treadle bar when a selector key is pressed and the treadle bar, in turn, operates a switch group consisting of a spring-leaf switch and a snap-action, over-center switch. One of the switch groups is associated with each of the selection switches. The spring-leaf switches are parallel connected and are part of a timing relay holding circuit that is completed through interlocking contacts on the relay when any selector key is pressed. These switches are the Hold Switches, contacts U and W.

The snap-action switches are the Starting Switches, contacts V and Z. The Z contacts close whenever a Letter selector key is pressed. The V contacts are closed by pressing any Number selector key and are in series with the contacts. These contacts are part of a circuit that includes a Subtract, or Cancel Solenoid in the phonograph Pricing Unit. When a letter key and a number key are pressed, the starting switches complete the circuit to the solenoid

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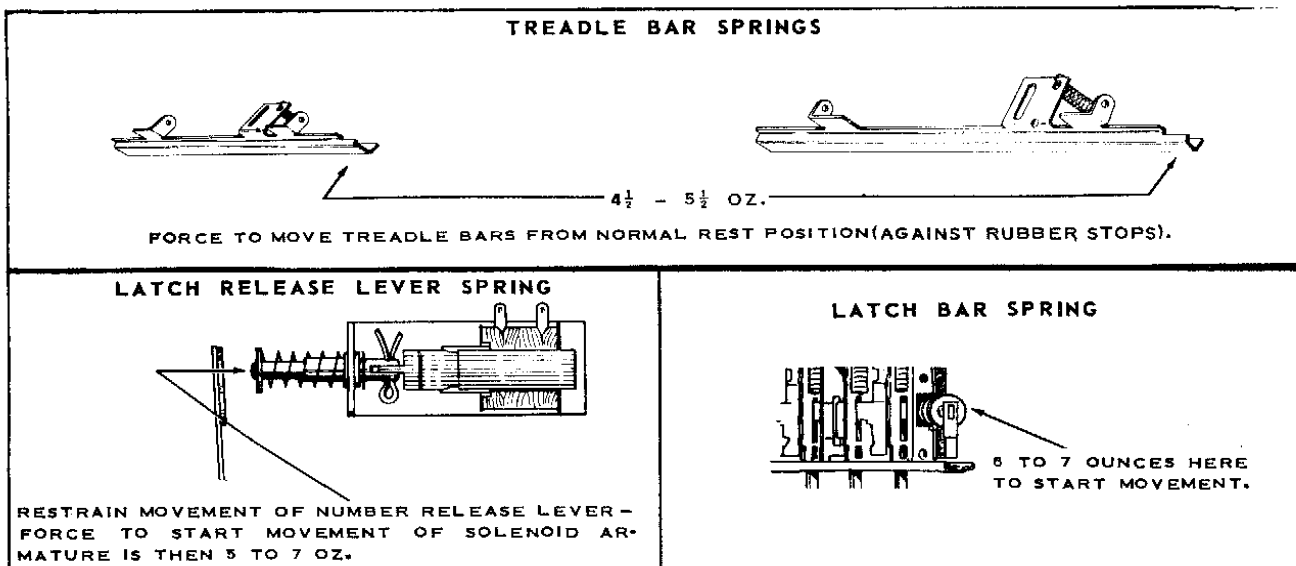


which, when energized, closes switch contacts that control the power to the Tormat Memory Unit, the selection counter and the timing relay. They also close, momentarily, the circuit for a play control add solenoid that, in turn, controls, through a play control unit, the power to the phonograph amplifier and the mechanism motor.

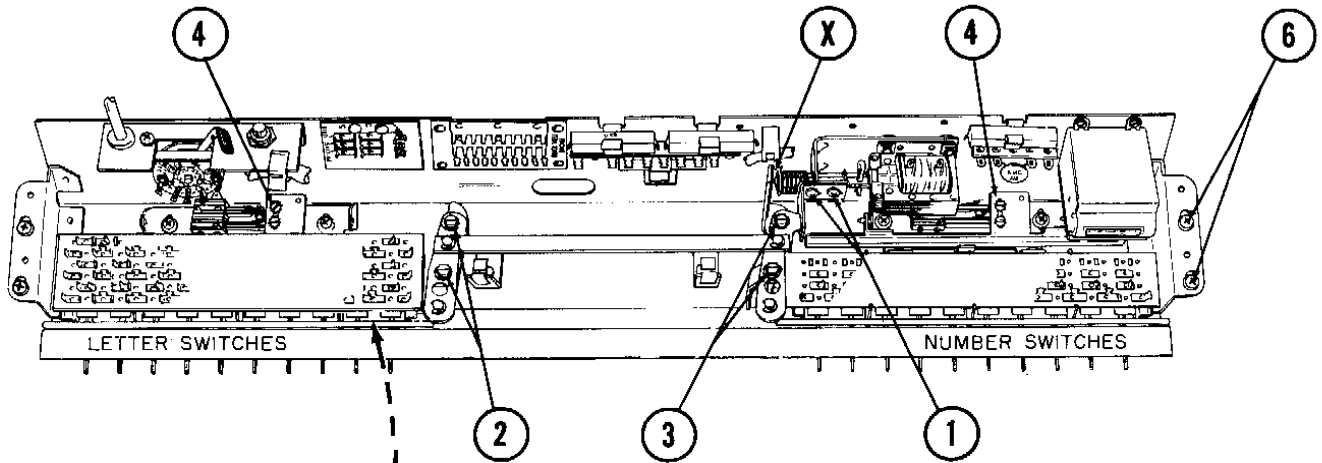
The pricing terminal board consists of two ten-point terminal strips and five flexible leads. One end of each of the leads connects to the start switches through one of the numbered selector switches and, has at its other end, a push-on terminal for easy and simple connection

to either of the two terminal strips marked "EP" and "Singles". By choice of terminal strip connection any group of twenty record selections can be "sold" for either of two prices when a Dual Pricing Unit is in use. If a Single Pricing Unit is being used, the leads are connected to the "Singles" strip.

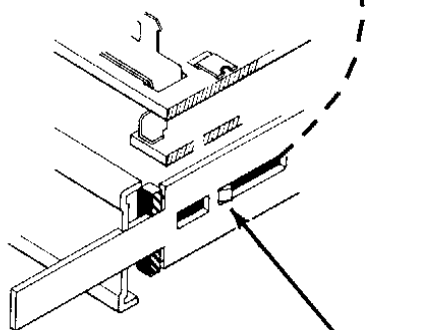
The credit light and "starting" circuits of the selection system are not the same for Dual and Single Pricing Units. These circuits are terminated at the Pricing Unit Board and are connected to suit the Pricing Unit with which the phonograph is equipped.



Tormat Electrical Selector Type, TES103



NOTE: Adjustments 1, 2 and 3 to be made in sequence with latch bar solenoid in energized position.

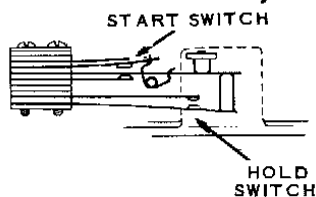


CORRECT

LATCH BAR HOOK
SWITCH SHAFT

IN TOO FAR

OUT TOO FAR

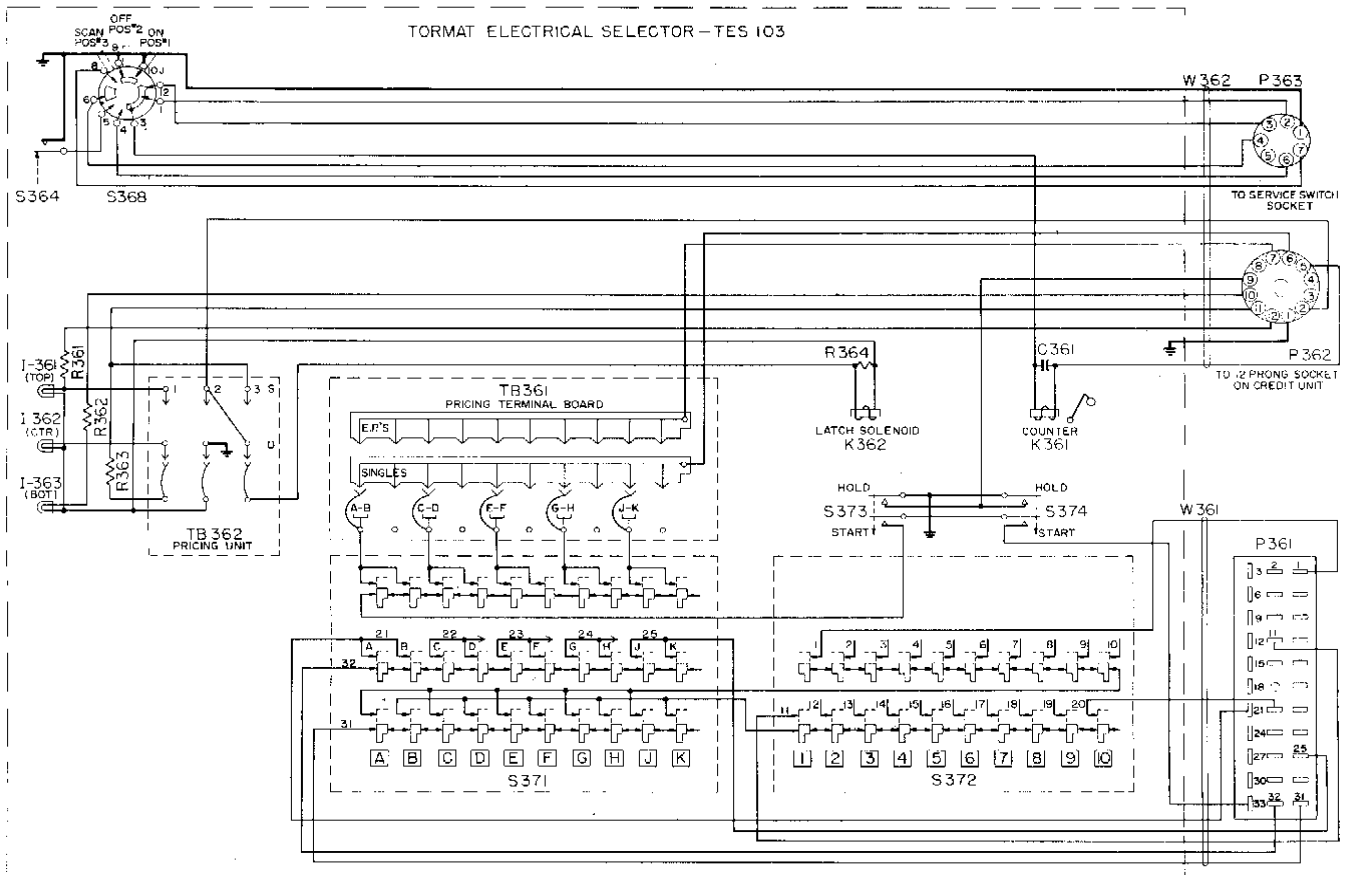


START SWITCH

HOLD SWITCH

- 1 Adjust latch lever bracket position for latch bar engagement of NUMBER SWITCHES.
- 2 Adjust letter switch lever position for latch bar engagement of LETTER SWITCHES.
- 3 Adjust number switch latch lever for 1/32" minimum gap at X with solenoid energized.
- 4 Adjust snap action START SWITCHES by positioning the brackets for the entire switch stack. START SWITCH should close when the selector switches have approximately 1/32" more travel before latching by latch bars.
- 5 Adjust Hold Switch by bending blades AFTER Start Switch has been correctly set. Hold Switch to close before Start Switch closes and open after Start Switch opens. Contact gap 1/64" to 1/32".
- 6 Loosen two mounting screws at each end to position Selector so selection switches release fully with minimum clearance between ends of switch shafts and backs of selector keys.

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PARTS LIST

| Item | Part No. | Part Name | Item | Part No. | Part Name |
|------|----------|-----------------------------|-------|----------|-----------------------------------|
| C361 | 86259 | .02 MFD Ceramic | R364 | 81183 | 100 OHM 10 Watt |
| I361 | 410823 | Credit Lamp Socket Assembly | S364 | 410486 | Credit Switch |
| I362 | 410823 | Credit Lamp Socket Assembly | S365 | 411078 | Snap Switch |
| I363 | 410823 | Credit Lamp Socket Assembly | S366 | 411073 | Snap Switch |
| K361 | 411082 | Counter Assembly | S368 | 411136 | Service Switch |
| K362 | 410684 | Latch Solenoid | S371 | 411206 | Selector Switch (Letters) |
| P361 | 410608 | Socket Assembly | S372 | 411207 | Selector Switch (Number) |
| P362 | 410708 | 12 Prong Plug | TB361 | 411227 | Pricing Terminal Board Assembly |
| P363 | 408258 | 7 Prong Plug | TB362 | 410934 | Pricing Unit Terminal Board Assy. |
| R361 | 81178 | 65 OHM 10 Watt | W361 | 411209 | Matrix Cable |
| R362 | 81178 | 65 OHM 10 Watt | W362 | 411101 | Control Cable |
| R363 | 81178 | 65 OHM 10 Watt | | | |