

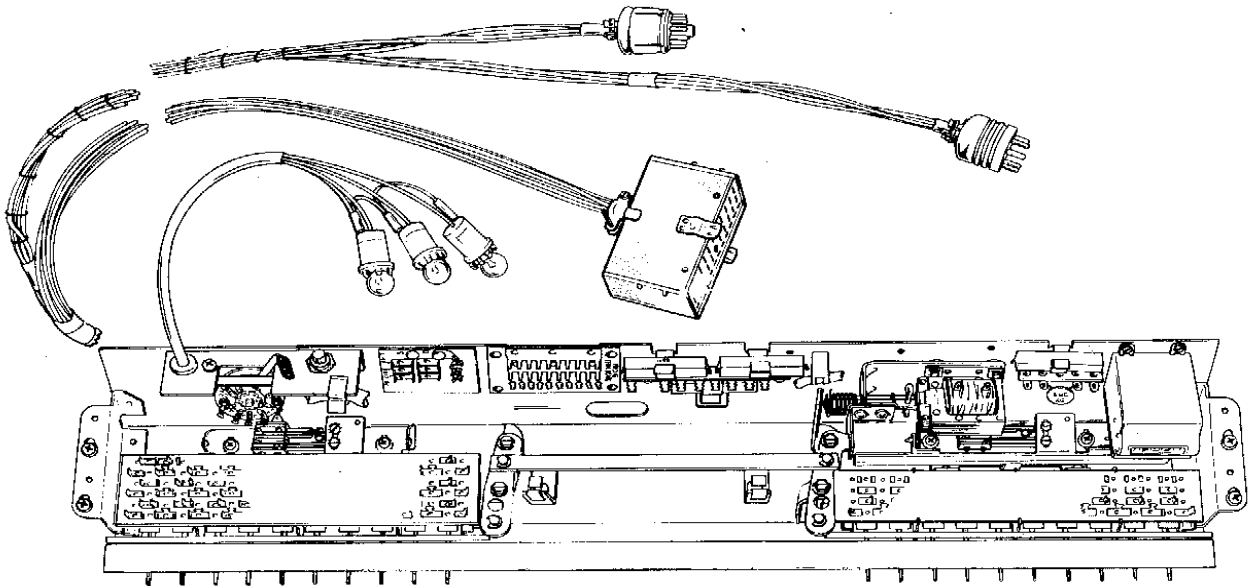
SEEBURG

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.

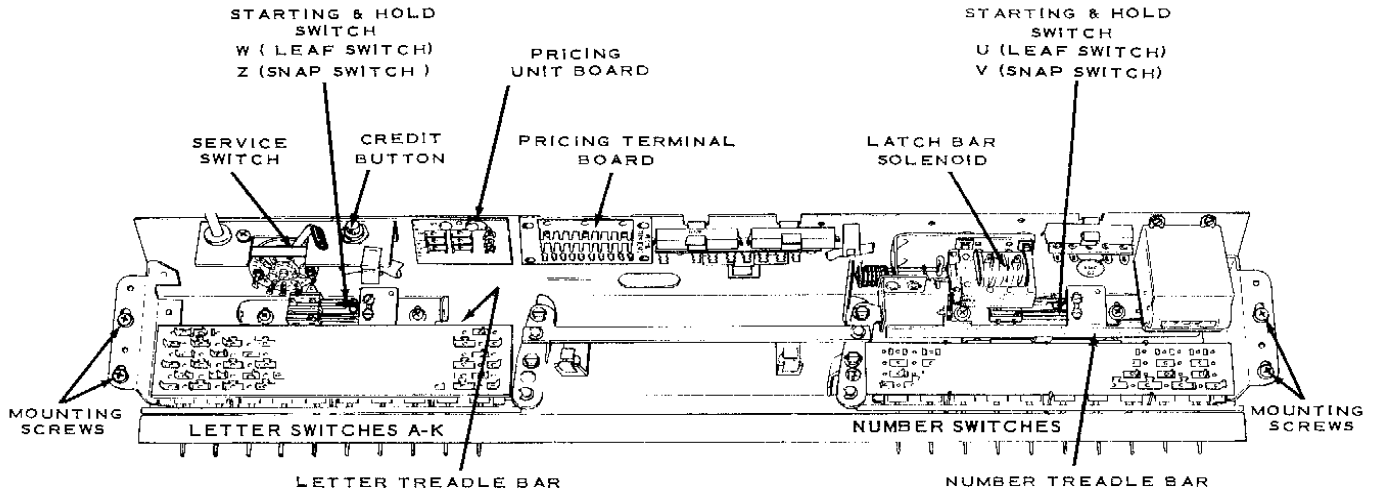
The credit indicating lights are extended on their connecting leads so they illuminate the selection and credit information windows that are in the phonograph. They are 6-volt lamps operated at 25 volts through resistors. A different light is turned on to indicate when selections can be made in accordance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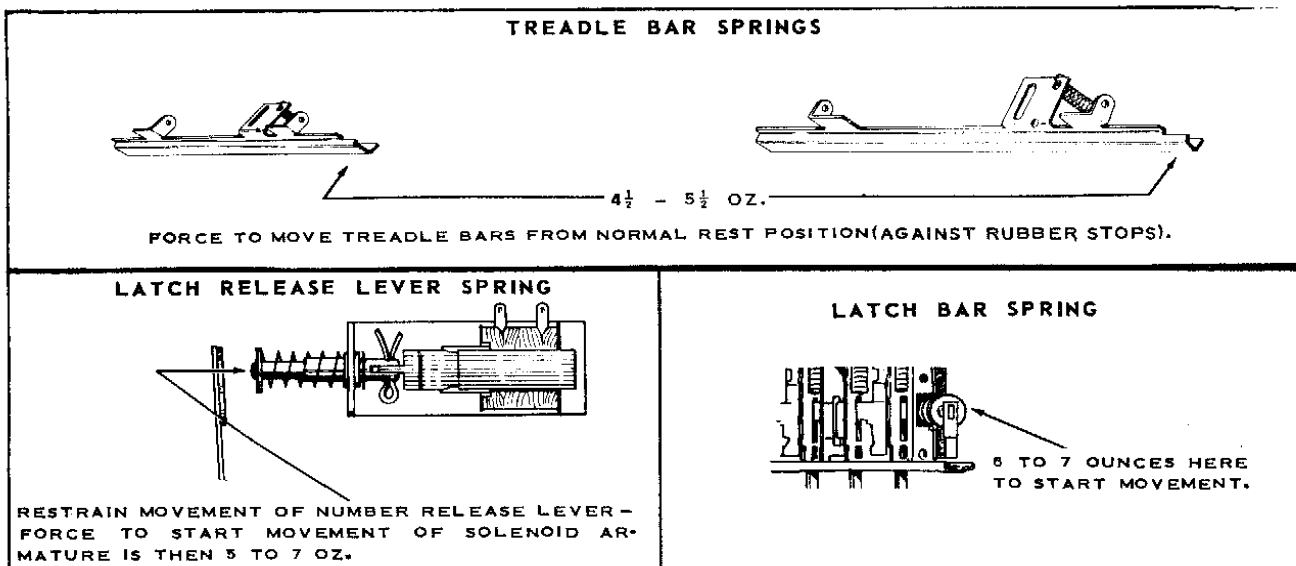


which, when energized, closes switch contacts that control the power to the Tormat Memory Unit, the selection counter and the timing relay. They also close, momentarily, the circuit for a play control add solenoid that, in turn, controls, through a play control unit, the power to the phonograph amplifier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

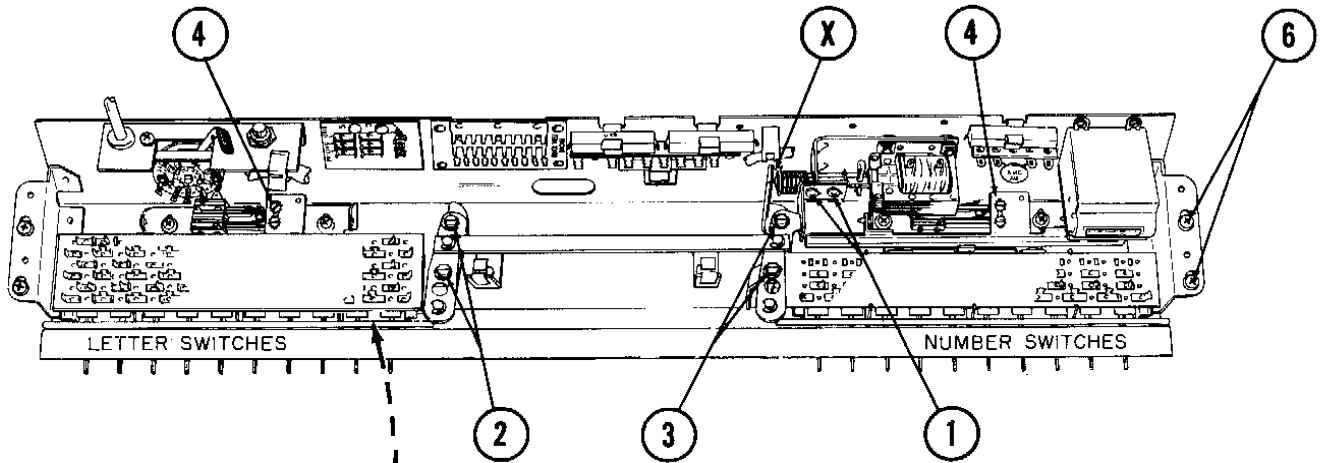
The pricing terminal board consists of two ten-point terminal strips and five flexible leads. One end of each of the leads connects to the start switches through one of the numbered selector switches and, has at its other end, a push-on terminal for easy and simple connection

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.

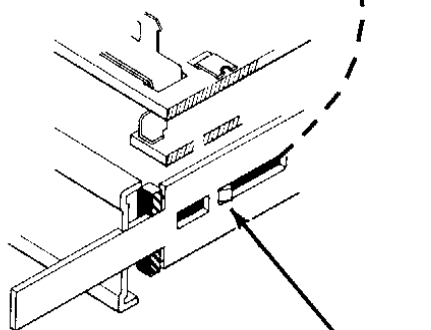
The credit light and "starting" circuits of the selection system are not the same for Dual and Single Pricing Units. These circuits are terminated at the Pricing Unit Board and are connected to suit the Pricing Unit with which the phonograph is equipped.



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

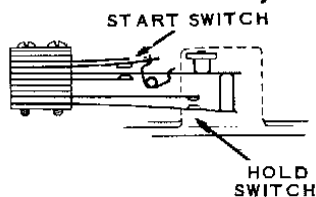


CORRECT

LATCH BAR HOOK
SWITCH SHAFT

IN TOO FAR

OUT TOO FAR

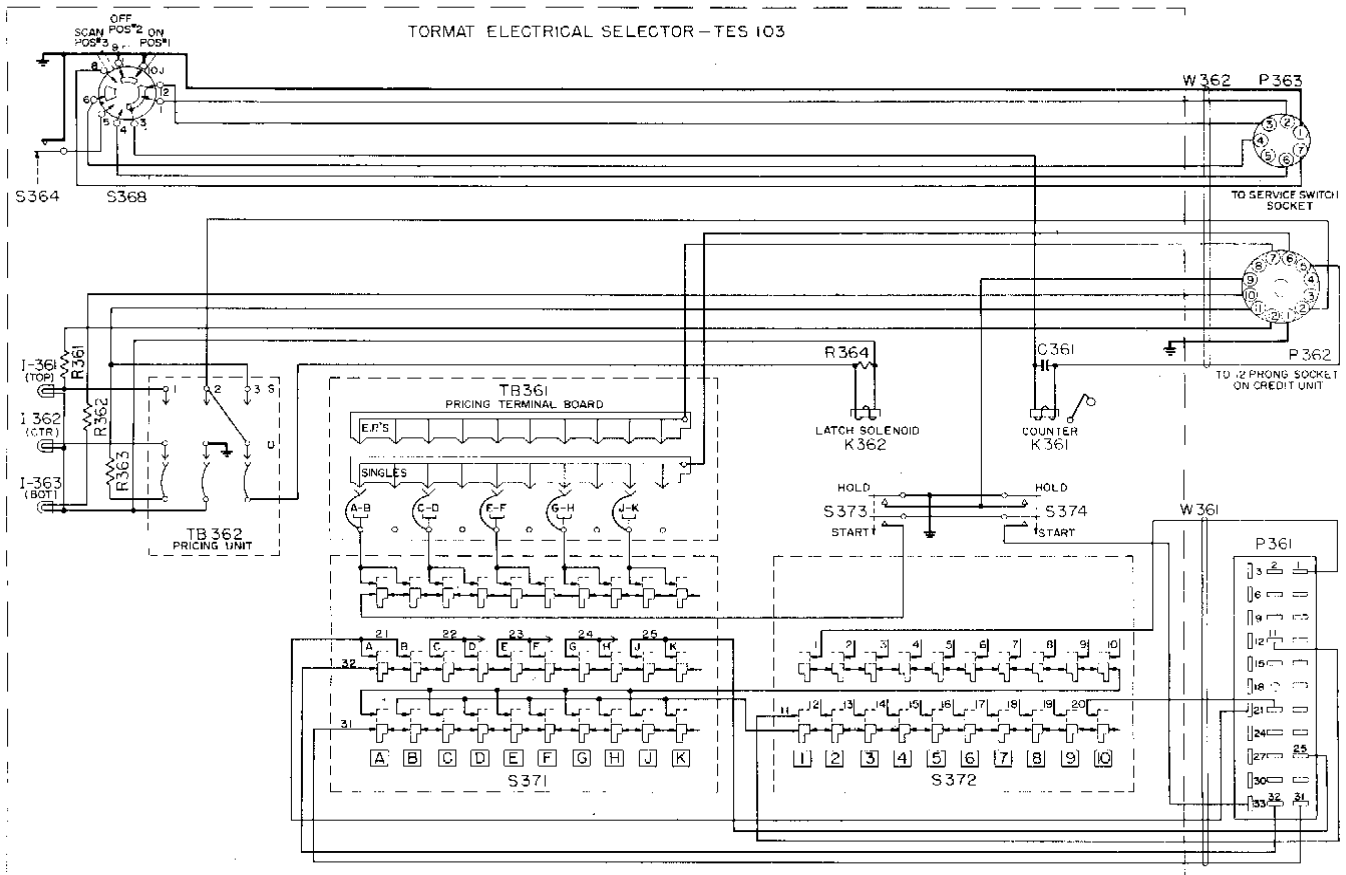


START SWITCH

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			