



TORMAT SELECTION RECEIVER TYPE TSR4-L6

The Tormat Selection Receiver, Type TSR4-L6, is the power distribution and control center of the Select-O-Matic "200" R. C. Special, Model HVL-200 for operation from wired Wall-O-Matics, Type V-3WA. Power enters the Receiver through the line cord and main switch and is distributed, directly at 117-volts or through transformers, to the Select-O-Matic Mechanism, the cabinet lighting, the amplifier, and the Wall-O-Matics. All connections to the Receiver are made with plugs which are of different types and sizes to avoid possibility of incorrect connections. Included in the Receiver are a Step Switch and Relay Assembly, and a 2050 tube, for selection of records from Wired Wall-O-Matics.

A 25-volt transformer supplies power for up to six Type V-3WA Wall-O-Matics. Another transformer, the selection receiver power transformer, has seven output windings for control circuits, and heater current for the tubes in the High Fidelity Master Amplifier.

One of the secondaries of the selection receiver power transformer provides approximately 30-volts, a.c. This 30-volt output is rectified by a full-wave selenium rectifier for 25-volt d.c. supply for some of the relays of the Step Switch and Relay Assembly, and for bias supply for the 2050 tubes. Another secondary provides approximately 150 volts for operating the step switches through the plate circuit of a 2050 tube.

Operation of Selection Receiver, Type TSR4-L6, is the same as that of the Type TSR3-L6. All service notes, schematic diagrams, and parts lists applying to the Type TSR3-L6 apply to the Type TSR4-L6 except that there is no Dual Credit Unit incorporated for operation of an electrical selector. The space on the chassis of the TSR4-L6 is used for a Selection Counter Assembly, Part No. 303656. The parts list for this assembly is given below.

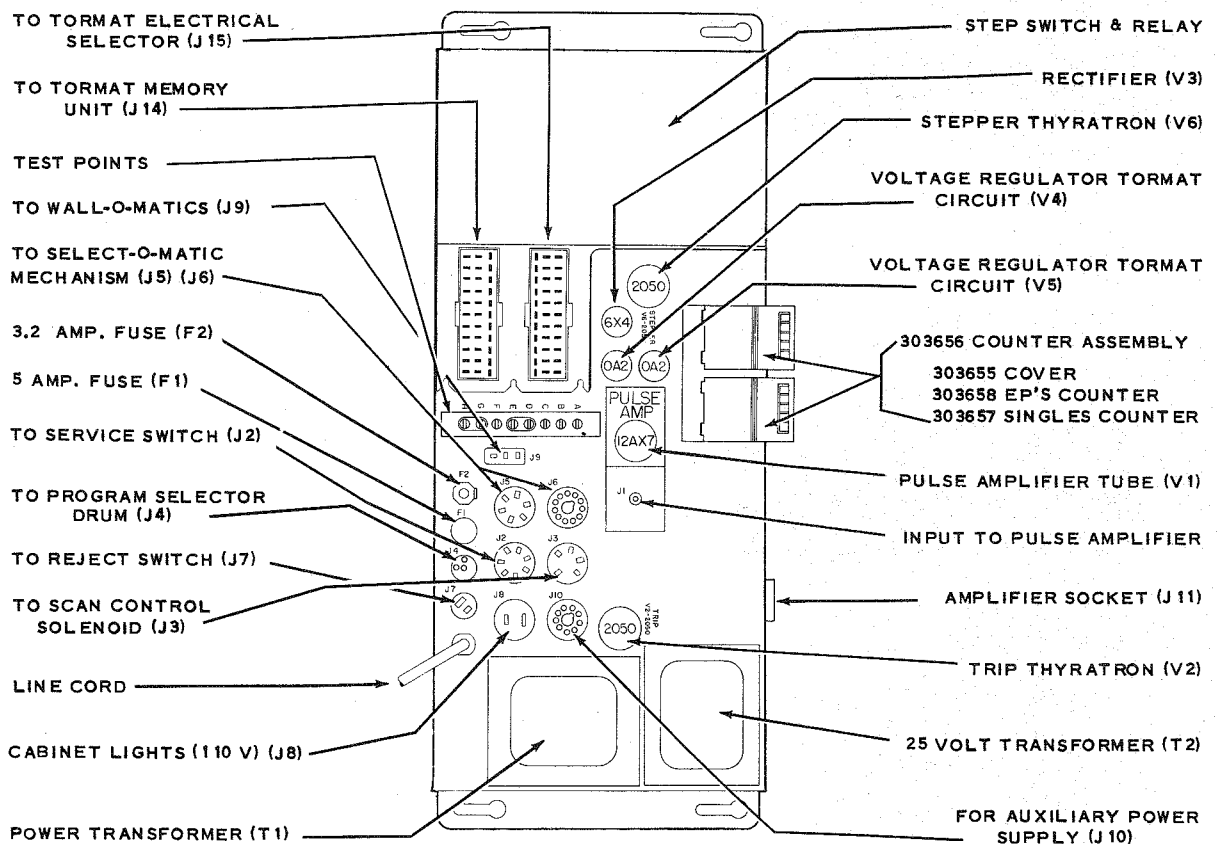


Figure 1.



**TORMAT SELECTION RECEIVER
TYPE TSR3 - CODE B
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The Tormat Selection Receivers, Types TSR3 and TSR4, Code B, are interchangeable with and similar in most respects to, respectively, the Types TSR3 and TSR4 having code designation "A" or no code letter. The principle difference is in the connections provided for remote record reject and for the 3-wire cable for connection of Wall-O-Matics. The code B

receivers are equipped with screw terminals for these connections. Additional test points have been added for convenience in testing the selection system write-in circuits.

The location of the major components is shown below. The diagram on the following page details the circuit.

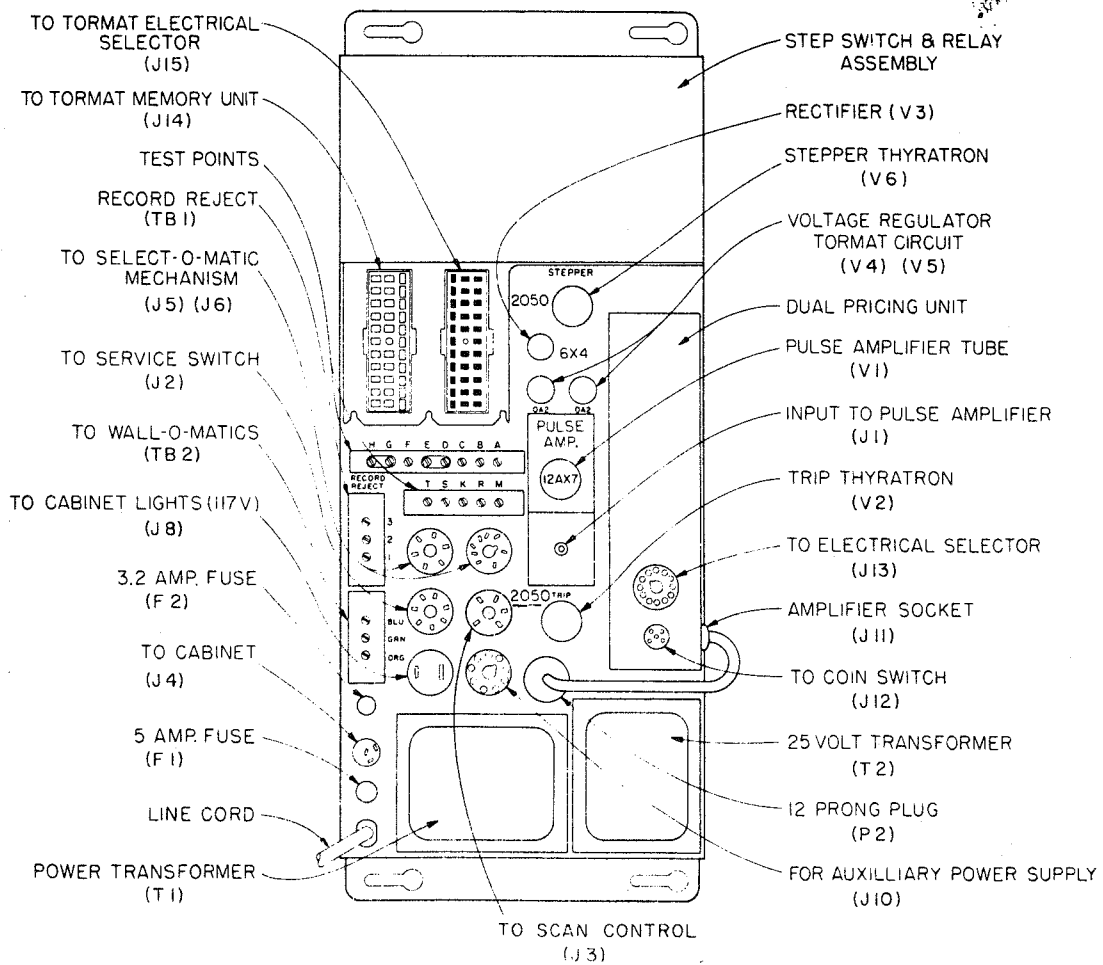


Figure 1.

Seeburg
TORMAT SELECTION RECEIVER
TYPE TSR3-L6

The Tormat Selection Receiver, Type TSR3-L6 is the power distribution and control center for operation of the Select-O-Matic mechanism and the Tormat Memory System from the Electrical Selector at the phonograph or by remote control with 200-selection, 3-wire, Wall-O-Matics. Power enters the Receiver through the line cord and main switch and is distributed, at 117 volts or through transformers, to the Electrical Selector, the Select-O-Matic Mechanism, cabinet lighting, program selector, amplifier and the Wall-O-Matics. All connections to the Receiver are made with plugs and connectors of different types and sizes to avoid possibility of incorrect connections.

Included in the Receiver are a Step Switch and Relay Assembly, a Dual Credit Unit and a pulse amplifier unit. The Step Switch and Relay Assembly and a 2050 thyratron, V6, are for step relay operation for selection from the Wall-O-Matics. The Dual Credit Unit incorporates an accumulative add-and-subtract credit switch for credit and selection control at the phonograph. The pulse amplifier in-

cludes a 12AX7 tube, V1, that amplifies the trip signal from the output loop of the Tormat Memory Unit on the Select-O-Matic Mechanism. The pulse from the 12AX7 tube controls a 2050 thyratron, V2, which in turn passes current for operation of the trip solenoid of the Select-O-Matic mechanism.

A 6X4 rectifier tube, V3, supplies ground-positive plate power for the 12AX7 pulse amplifier and, with two OA2 regulator tubes, J4 and J5, regulated voltage supply for charging condensers from which are taken power for the write-in and read-out pulses to the Tormat Memory Unit.

A full wave selenium rectifier supplies d.c. at approximately 25 volts for some of the relays of the Step Switch Assembly and a timing relay in the Dual Credit Unit and for grid bias of the 2050 tubes for the trip solenoid and step relays.

All of the mechanism control circuits, plate and bias supplies and tube heater circuits are supplied from the multiple-secondary transformer, T1.

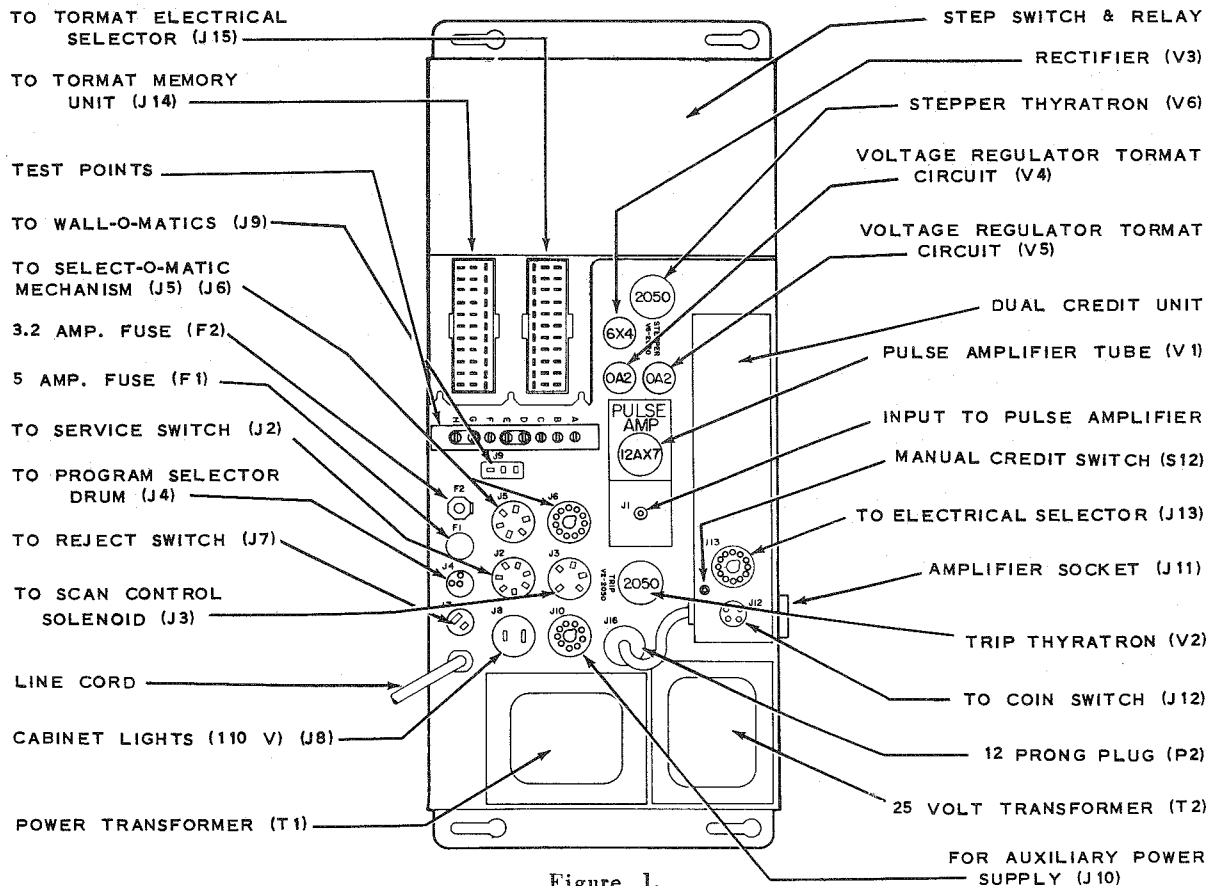


Figure 1.