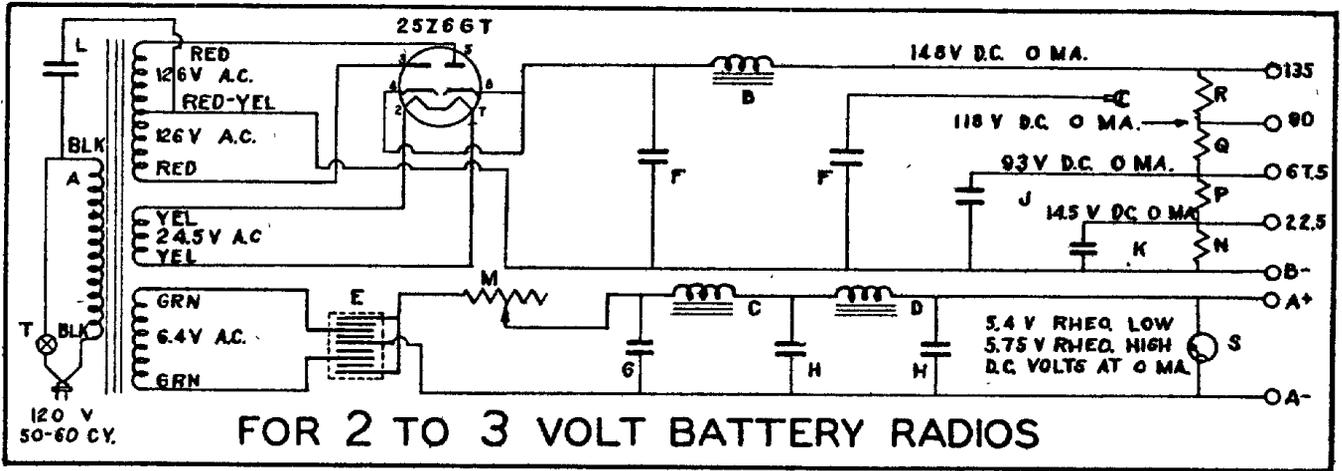


**OUTPUT RATINGS:**

- "B" 135 V tap - 14MA. (28 MA. max.) - (148V no load)  
90 V tap - 14MA. (118V no load)  
67.5V tap - 2MA. load and 21 MA. on 135V tap - (93V no load)  
22.5V tap - with 19 MA. load on 22.5 to 135V tap - (16V no load)
- "A" 2 or 3 volts at 365 MA. to 670 MA.  
Adjust voltage by turning slotted shaft.



**WIRING DIAGRAM FOR SILVERTONE MODEL 4708 POWR SHIFTR**

**"A" SUPPLY**

The "A" supply is obtained from a full wave copper sulfide rectifier filtered by a condenser input filter consisting of three high capacity condensers and two low resistance chokes. A rheostat after the rectifier allows the voltage to be controlled over a wide range which is indicated by a voltmeter across the output.

**"B" SUPPLY**

The "B" supply employs a 25Z6GT rectifier tube operated as a full wave rectifier feeding into a condenser input filter followed by a choke and another condenser. A lead with spade lug from the second condenser is brought thru the chassis for proper filtering by connecting this to the highest B plus voltage tap used. Voltage dropping resistors supply 22½, 67½, 90 and 135 volts.

**"A" SUPPLY FAILS**

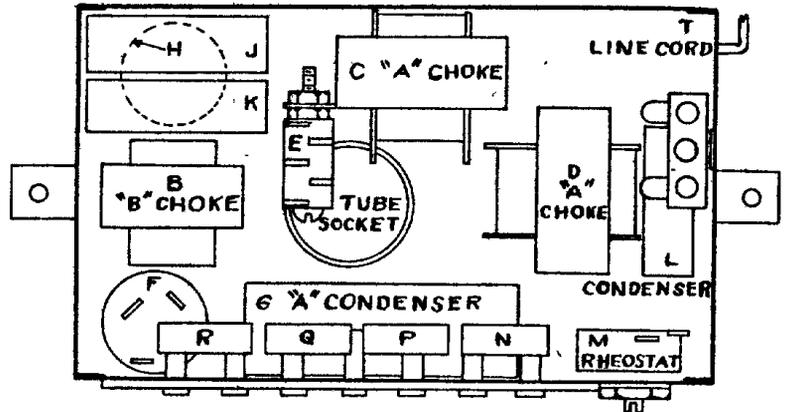
When the "A" voltage is excessively low the transformer, condensers or rectifier may be defective.

To check the transformer remove one green lead from the rectifier and measure for AC voltage indicated on the wiring diagram.

Low "A" voltage may be caused by a dropping in capacity of the input condenser "G". To test for this condition, another condenser of 500 to 1000 MFD. may be connected across this condenser, and if an appreciable rise in the output voltage is observed it is obvious that the input condenser is low in capacity.

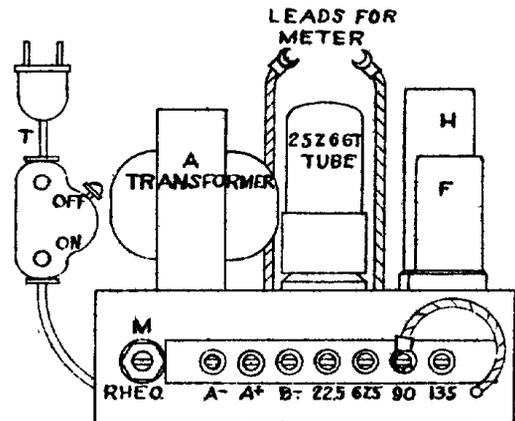
**IMPORTANT:** The copper sulfide rectifier is designed to give the voltages indicated on the wiring diagram when the unit is warmed up to normal operating temperature. This heating up period is usually about 20 minutes with the Powr Shiftr "A" circuit loaded. The rectifier's characteristics are peculiar and for an accurate check the unit must be tested when hot.

When the Powr Shiftr has been out of service for some length of time (4 months or more) the "A" voltage may test low due to the inactive life of the rectifier. This is an inherent characteristic of the copper sulfide rectifier. To reactivate the rectifier it is only necessary to short the "A" plus and "A" minus terminals for a period of 4 to 5 minutes. The high temperature developed in the rectifier



**LOCATION OF PARTS IN CHASSIS**

SEPTEMBER 16, 1940



**LOCATION OF PARTS ON CHASSIS**

during this period has the tendency to restore the discs to their normal rectifying capacity. The unit will not be harmed by this process.

**POWER DRAIN**

The primary input at 120 volts 60 cycles is 26 watts when the "A" and "B" supplies have maximum rated loads. The input watts under no-load should be 12.5 watts and the primary current without load not more than 215 MA.