

EMERSON RADIO

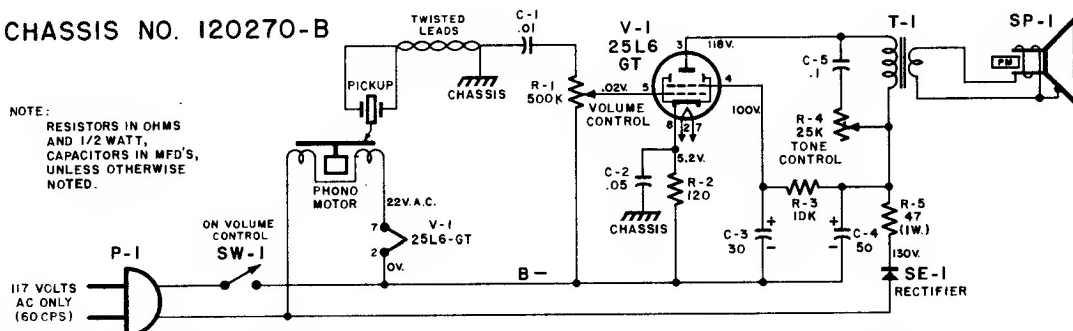
MODELS 834-B, 839B
CHASSIS 120270-B

MODEL - 841-A
CHASSIS 120291-A

CHASSIS NO. 120270-B

NOTE:

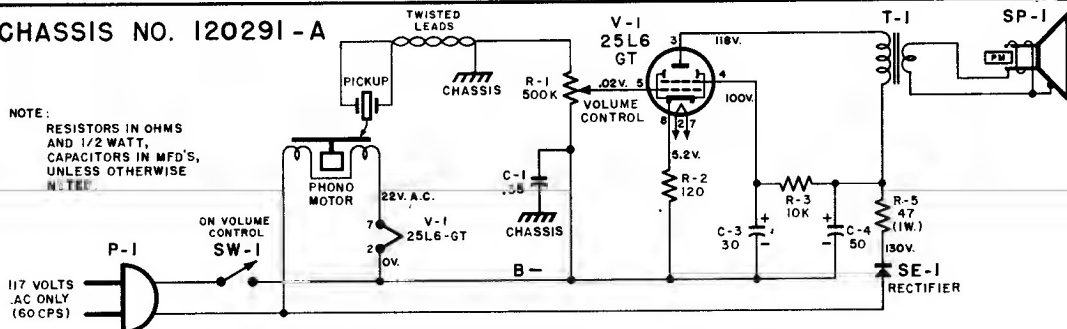
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AND 1/2 WATT,
CAPACITORS IN MFD'S,
UNLESS OTHERWISE
NOTED.



CHASSIS NO. 120291-A

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V.T.V.M OHMMETER CHECK OF TRANSISTORS

An approximate check of the transistors may be made with a vacuum tube type of ohmmeter. They are checked as two separate crystal diodes might be checked, that is, by measuring the forward and inverse resistance of each section individually. Figures No. 2 and No. 3 shows the method of testing P-N-P and N-P-N types of transistors used in this receiver.

When the negative terminal of the ohmmeter (set on R x 10 scale) is connected to the base (B) terminal of a good PNP transistor and the positive terminal of the meter is connected to the collector (C) or emitter (E) terminals, you should measure a low resistance (in the order of 500 ohms or less).

When the positive terminal of the ohmmeter is connected to the base (B) terminal of a good PNP transistor and the negative terminal of the meter is connected to the collector (C) or emitter (E) terminals, you should measure a high inverse resistance in the order of 50K ohms or higher.

In the event your results are opposite from these, it is possible that the plus side of your meter is actually connected to the negative side of its internal battery.

NPN type transistors are checked in a similar manner except the applied polarities from the ohmmeter are reversed (see figure no. 3) to give same inverse and forward resistance results.

CAUTION

Use only a vacuum tube type of ohmmeter. The R x 10 scale must be used for all forward (low) resistance measurements. Do not use the R x 1 scale as this might damage the transistor. A shunt type ohmmeter should not be used. If in doubt as to the type of vacuum tube ohmmeter you have, place a 1,000 ohm resistor in series with it and subtract this 1,000 ohms from the reading obtained.

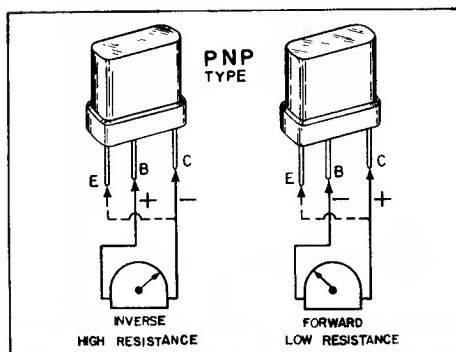


FIGURE 2 - PNP TYPE

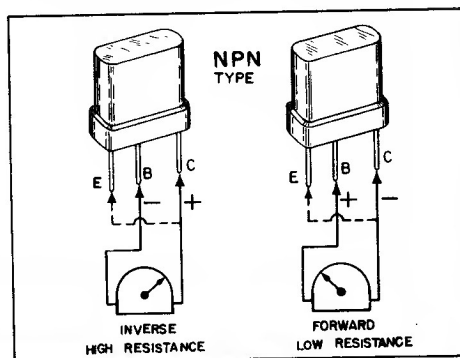


FIGURE 3 - NPN TYPE