

SEEBURG

AUTOMATIC VOLUME CONTROL UNIT, Type AVCU10

The Automatic Volume Control Unit, Type AVCU10, is a conversion unit that provides volume compensation for the Stereo High Fidelity Amplifier, Type SHFA3, and the High Fidelity Amplifier, Type C1HFA2. When the unit is installed as part of these amplifiers, the variations in average volume levels of different records are automatically compensated in a manner that permits a volume control setting for normal records without danger of "blasting" or high volume from loud records.

INSTALLATION

1. Unscrew and remove cover plate from amplifier chassis.
2. Install AVCU10 unit as shown in Figure 2 and secure with 6-32 x 1/2 self-tapping screws from step 1.
3. Figure 1 shows connections to the Type SHFA3 stereo amplifier. These connections also apply when the monaural amplifier, Type C1HFA2, is combined with the supplementary amplifier, Type C2HFA2, to form a stereo amplifier.

Figure 3 shows connections to the monaural amplifier, Type C1HFA2, only.

NOTE: Color of connecting wires at the amplifier terminal strip **MUST** match push-on connector wire colors.

4. On stereo amplifiers, remove 39 K loading resistors R108 and R142 as shown in Figure 1 and schematic diagram, Figure 4. On monaural amplifiers, remove R108 as shown in Figure 3.

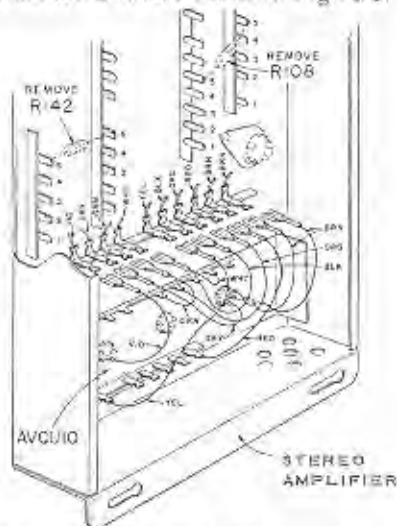


Figure 1. AVCU10 with Stereo Amplifier.

ADJUSTMENT AND TEST

With zero signal input to the amplifier, adjust the AVC balance potentiometer (R210) for equal cathode voltage (pin 2) on V201 and V202. Use a 20,000 ohm per volt voltmeter.

While a record is playing at normal volume, lift the pickup off for about 15 seconds. Replace the pickup on the record. The music should return loud and then quiet down to normal.

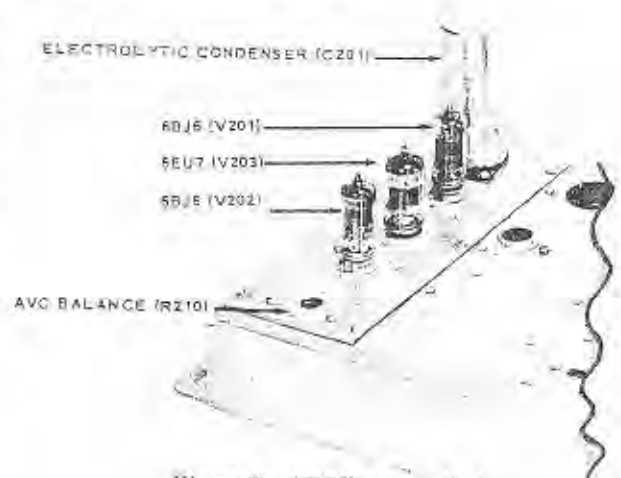


Figure 2. AVCU10 Installed.

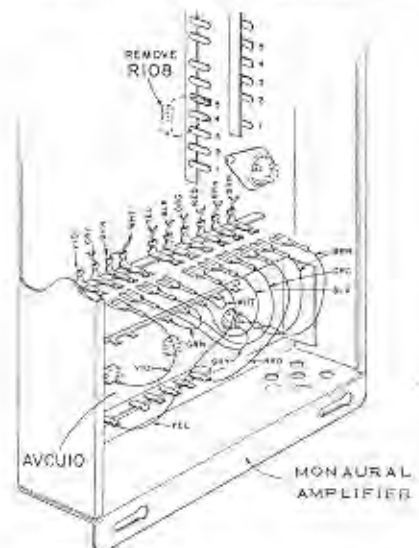


Figure 3. AVCU10 with Monaural Amplifier.

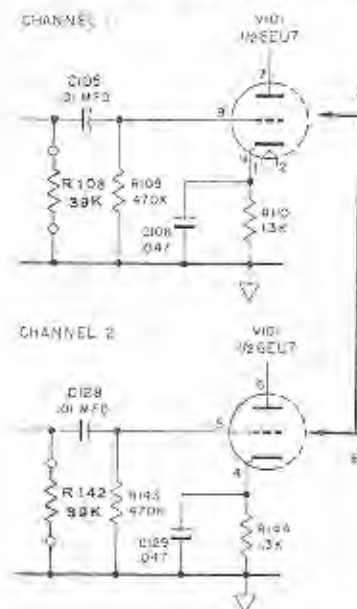


Figure 4. Schematic Section showing location of loading resistors.