Biasing Instructions

These instructions are here to help you properly bias your power tubes when replacing them with new ones. To do this, all you need is a multi-meter and a small flat head screwdriver. This is a safe and quick method for biasing your tubes and keeps your amplifier functioning properly. Your amplifier has 3 bias test points, 2 Red and 1 Black (ground connection), and an adjustable bias potentiometer attached to the back of the chassis. The Red test points will allow you to read the current draw of each tube and the bias pot will let you adjust the bias current when you change your power tubes.

1. Insert new power tubes; allow warming up on Stand-by for at least 5 minutes.

2. Adjust the bias pot to the full clockwise position with a small flat head screwdriver before the amp is taken off Stand-by. This ensures that the tubes will not be running too hot before a bias adjustment can be made.

3. Set your volt meter to the lowest DC volts settings, and insert the negative probe of your volt meter into the Black ground connection. Each power tube has its own Red colored probe connection, allowing the user to check the bias of each tube. Insert the positive probe of your volt meter into either Red jack.

4. For amps using 6L6 power tubes, adjust the bias pot to give a reading between 25 to 35 mv for each tube. For amps using 6V6's adjust the bias between 18-27mv. For amps using EL34's adjust the bias between 30-40mv. Lower settings will sound cleaner with longer tube life. Higher settings will have an earlier break-up and shorter tube life. A properly matched set of tubes will generally be less than 5mv off from each other.

5. Leave the amp on for at least 20 minutes and re-check the bias. Tubes will drift over time and checking and adjusting the bias periodically will extend the life of your tubes.