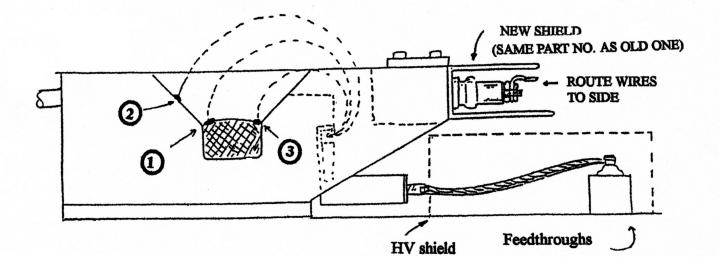
Do You Have A Magnet Problem?

The following statements are true regardless of the type or size of a Temescal Supersource Gun To do this test, Set the High Voltage to <u>10.000 Volts.</u>

- 1. See that there are no shunts and the permanent magnet is properly installed
- 2. Set the lateral and Longitude to Zero and the thumb wheel to #1. amplitude to Zero
- 3. Slowly increase the emission current to view the beam spot. At this time, the beam should be at the far edge of the crucible. (See # 1 on the drawing)
- 4. If the beam is further out, up on the copper, the magnet is too weak. (See # 2 on the drawing)You may lower the voltage until the beam is now at the far edge of the crucible or, return the magnet to Temescal to be re-Gaussed. Note: if you reduce the voltage, the power available will be less than normal. (Voltage X Current = Power) and the beam my be somewhat distorted, also.
- 5. If the Beam is on the "melt", or closer to the filament-end of the gun, the magnet is too strong (see #3 on the drawing) Do the following: add shunts.



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