

From the Simard Tri-Mag 383 Source Manual

- Page 3-30: All gun terminals should float $> 200k$ Ohms wrt chassis ground. Currently our "B" gun "Housing" terminal is shorted to the chassis grounded.
- Page 4-2: After the source has stabilized itself generally, the operating pressure can be lowered such that a Plasma Voltage of 50-70 Volts can be maintained at all Plasma Currents up to 10 Amps.
- Page 4-2: For a fixed Filament Heating Current, as the Plasma Current is increased, the Plasma Voltage will rise slowly and vice versa. Typical Plasma Current is 2 to 10 Amps.
- Page 4-2: When the Filament Heating Current is changed, the Plasma Current should remain constant while the Plasma Voltage changes. Increasing the Filament Heating Current will cause a decrease in Plasma Voltage and vice versa.
- Page 4-3: Target Current should rise rapidly with the first 50-75 Volts of Target Voltage and then stop increasing with further increases in Target Voltage. Target Current is a direct function of Plasma Current. Adjustment of the Target Current is made by changing the Plasma Current - a linear dependency is observed.