



- ◆ **Longer Arc Chamber life**
- ◆ **Fewer parts**
- ◆ **Universal Repeller**



The spent arc chamber box liner above was in operation for more than 1500 hours before eroding through. During that time eleven sources were rebuilt.



A photo of the complete OEM Arc Chamber Assembly. Note complicated repeller assembly requiring 13 parts most of which are unique to the ultra source.



The Signet universal repeller assembly composed of only five parts.

Axcelis - IMPLANTER PARTS Model GSD Ultra Series

Signet Box Liner for Axcelis Ion Implanter



Signet Ultra Arc Chamber Box Liner assembly with universal repeller

The concept is to line the expensive Arc Chamber with a consumable box liner. The Signet Enhanced Arc Chamber / Box Liner mounts to the same base and uses the same Front Plate and Cathode assembly as the OEM.

This Arc Chamber also replaces the complex OEM repeller assembly with a simpler, easier to use and less expensive Signet Universal Repeller. This repeller assembly replaces 13 OEM parts, most unique to this source with 5 Signet parts, all of which can also be used on other ELS GSD sources. You save on both Arc Chamber replacements and repeller costs and reduced the number of parts you have to inventory.

Signet also suggests you consider replacing the Filament Clamps with the Signet Enhanced Filament Clamp 40-8788 that is also used on the GSD and 8200/8250 sources for improved Filament Clamp Life.

Signet P/N	OEM P/N	Description
40-6181	17356000 Ref.	Molybdenum Arc Chamber
40-6185		Molybdenum Box Liner
40-7877		Repeller, Signet Enhanced
30-7820C		Alumina Bushing
40-9042-2		Repeller Cup Shield, Ta
40-0868		Repeller Bushing, Alumina

For initial conversion from OEM to Signet order Signet Kit 4085 which includes all the above.