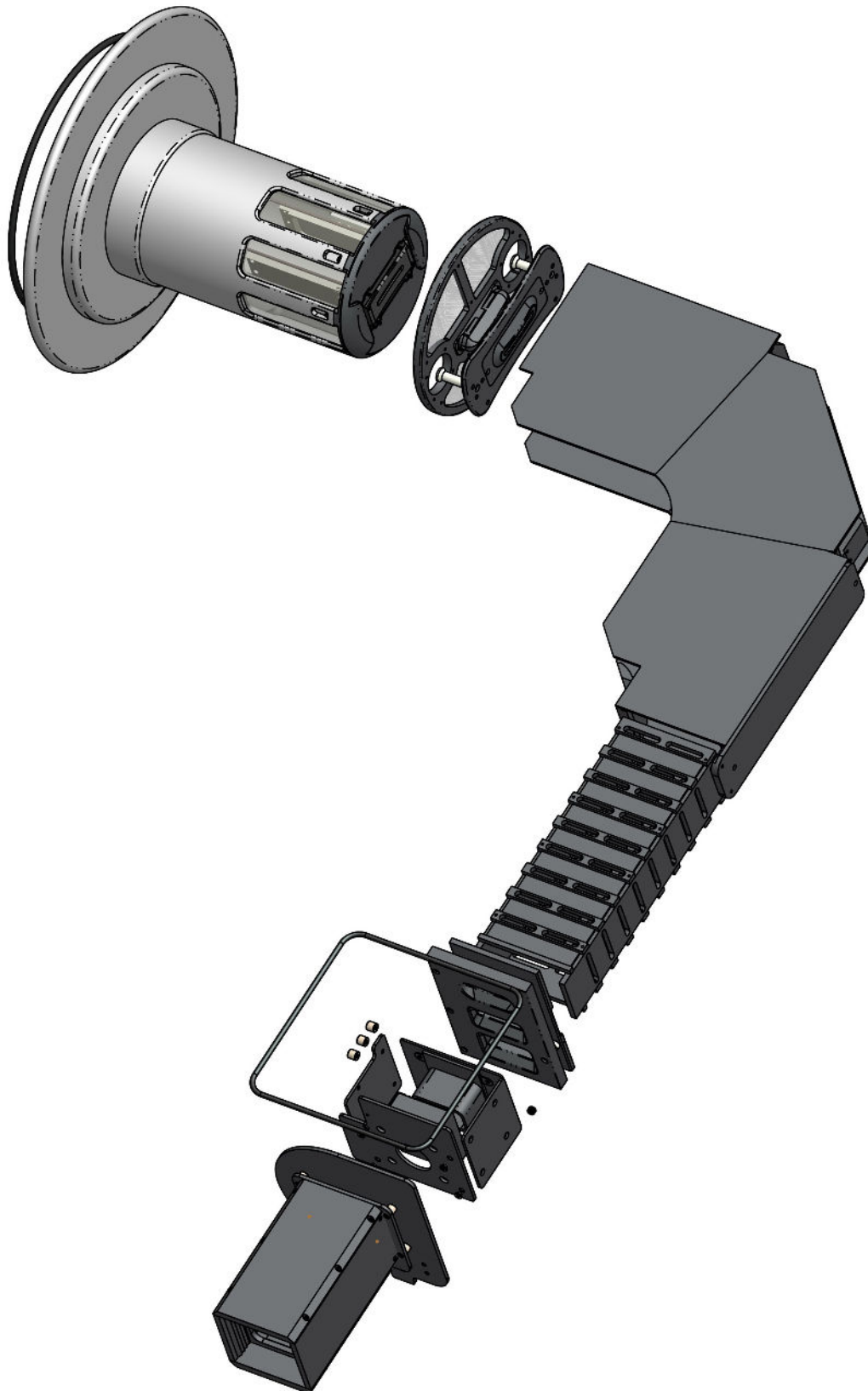


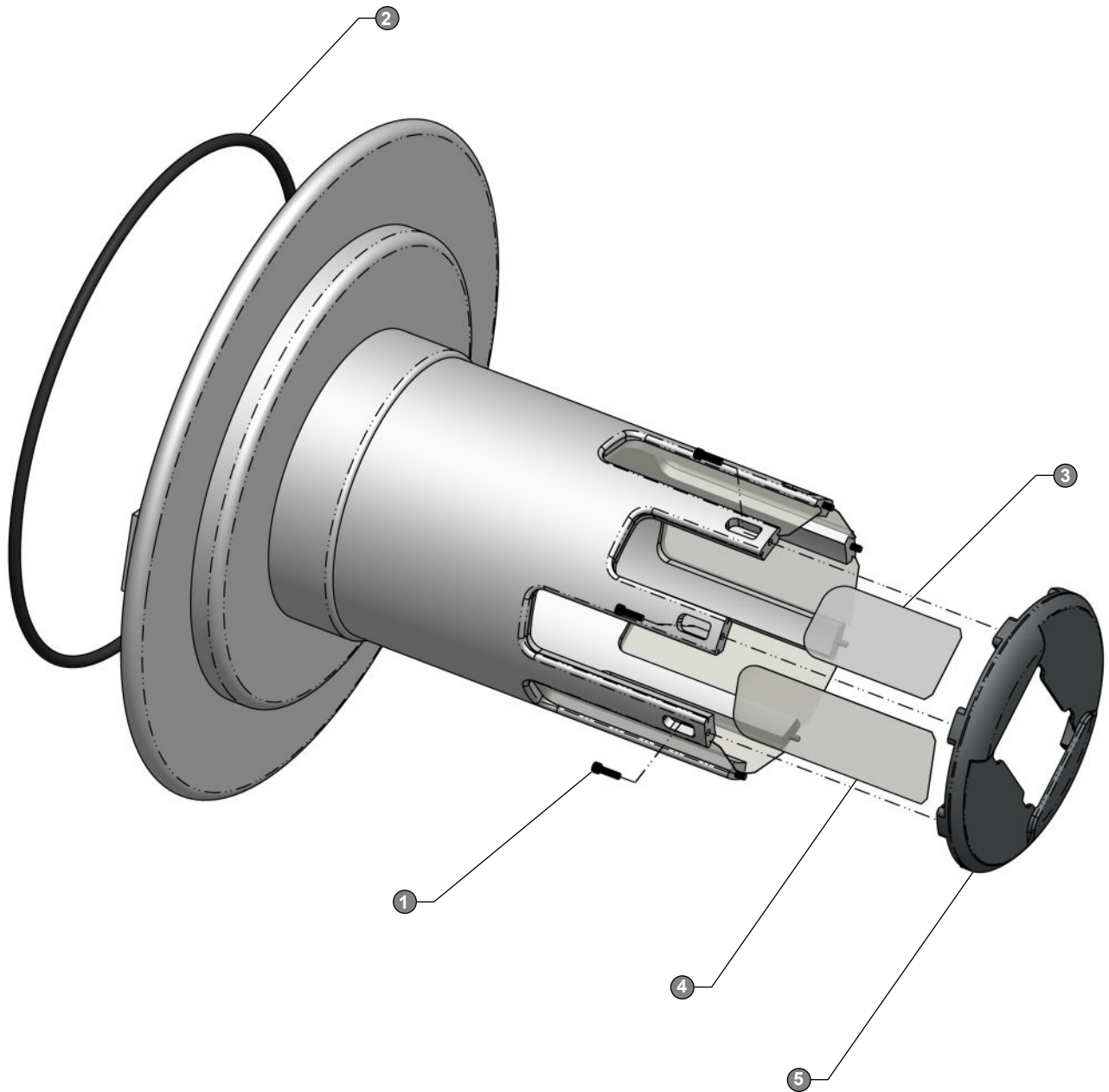


Components for Axcelis Ultra Ion Implanters





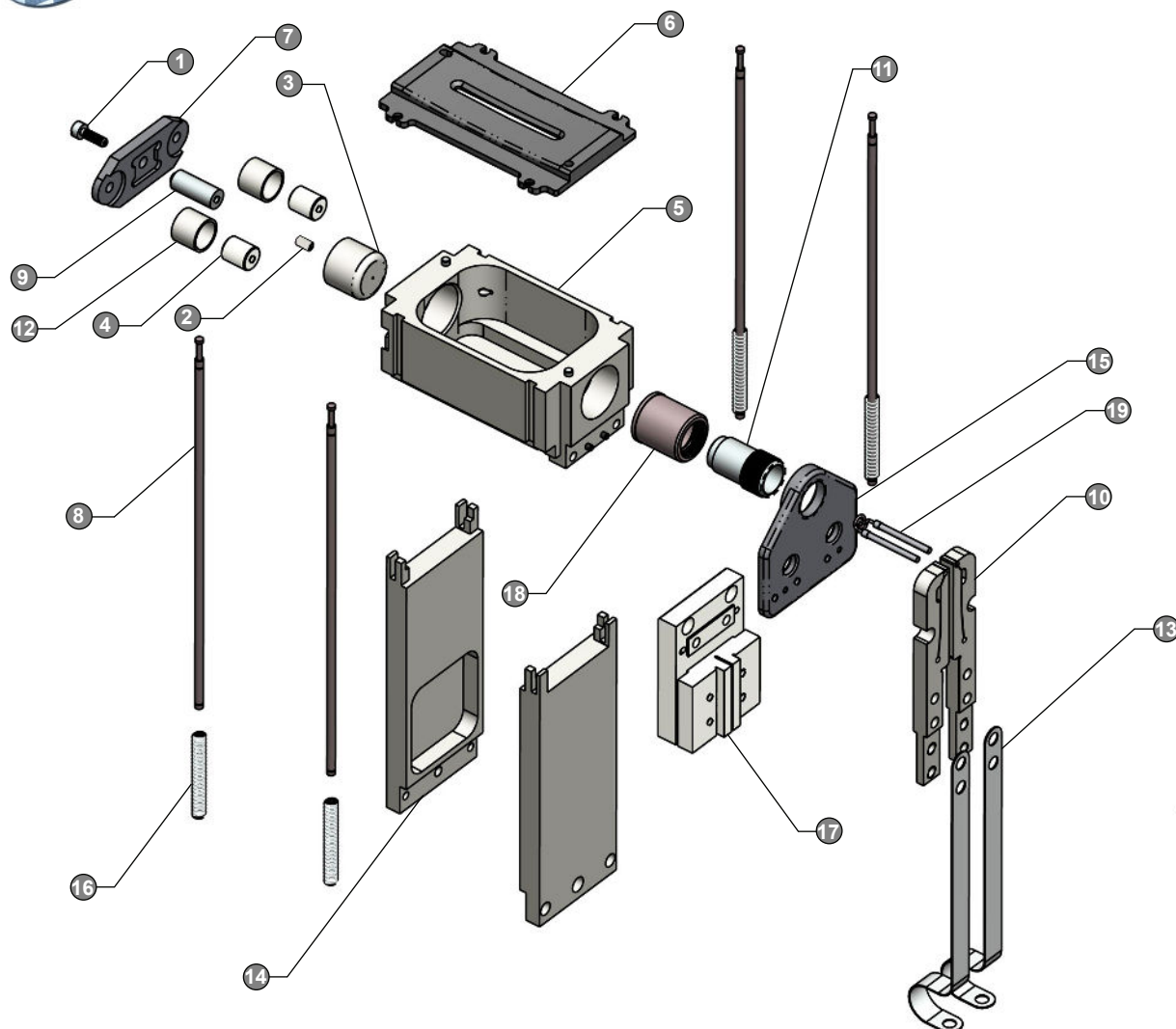
Components for Ultra Source Mounting Flange



Item	P/N	Description	OEM	QTY
1	82415	6-32 x 1/2" SHCS SST	4400100	8
2	83353V	O-Ring -453 Viton	3500179	1
3	99697	GSD Ultra Source Mesh, Small Tungsten	170008470	1
4	99698	GSD Ultra Source Mesh, LG. Tungsten	170008480	7
5	99723	Shield Ultra 4.5/5.5 Graphite	17008490	1



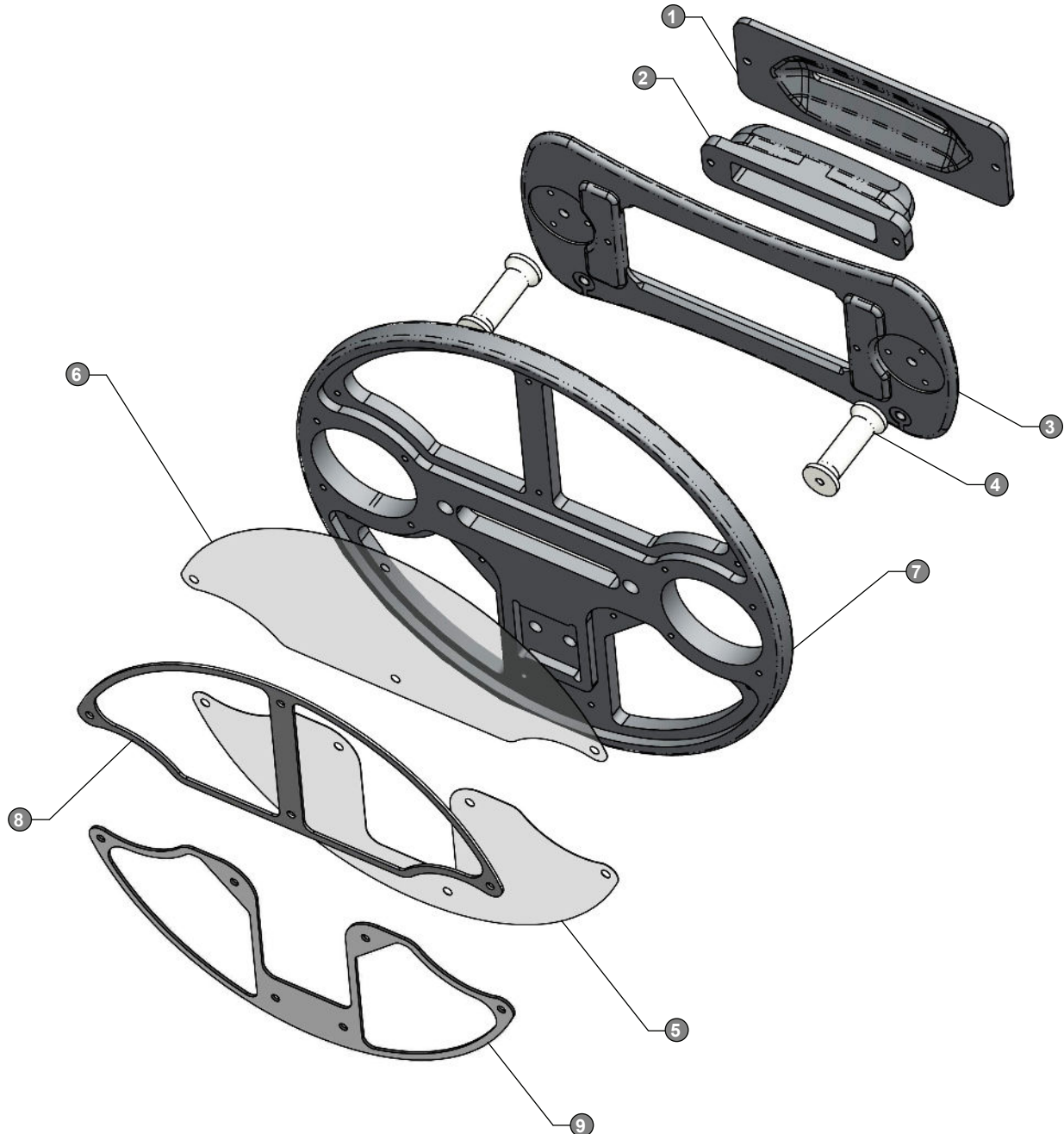
Components for Ultra Source



Item	P/N	Description	OEM	QTY
1	99403	Repeller Screw - SST	17121770	1
2	99405	Repeller Set Screw - SST	17121760	1
3	99406	Repeller - Molybdenum	17121740	1
4	99412	Repeller Insulator	17121850 / 17E158	2
5	99564	Arch Chamber, 50mm, Non-Vap, Keyed	17386180	1
6	99569	LE Arc Slit Face Plate, 1 Pc - Molybdenum	17355280	1
7	99574	Repeller Mounting Plate, LE - Graphite	17E4169	1
8	99699	Retainer Pin, Ultra - Molybdenum	17D6403	4
9	99729	Spacer, Eterna - Molybdenum	17357050	1
10	99730	Filament Clamp Eterna - Molybdenum	17390200	2
11	99731	Cathode, Ultra - Tungsten	17355270	1
12	99732	Insulator Cover - Molybdenum	17D8110	2
13	99734	Filament Feed Strap, Eterna	17356020	2
14	99739	Top Mount, Arc Chamber, Ultra - Molybdenum	170008950	2
15	99740	Mtg. Plate, Cathode Keyed Repeller - Graphite	170014140	1
16	99035A	Spring, Inconel	4001167 / E40000001	4
17	99401B	Insulator Mounting Block - Alumina Oxide	17287870	1
18	99409AW85	Cathode Repeller, Low Energy - Tungsten	17355290	1
19	99477A	GSD ELS Filament, .40	17287850	1



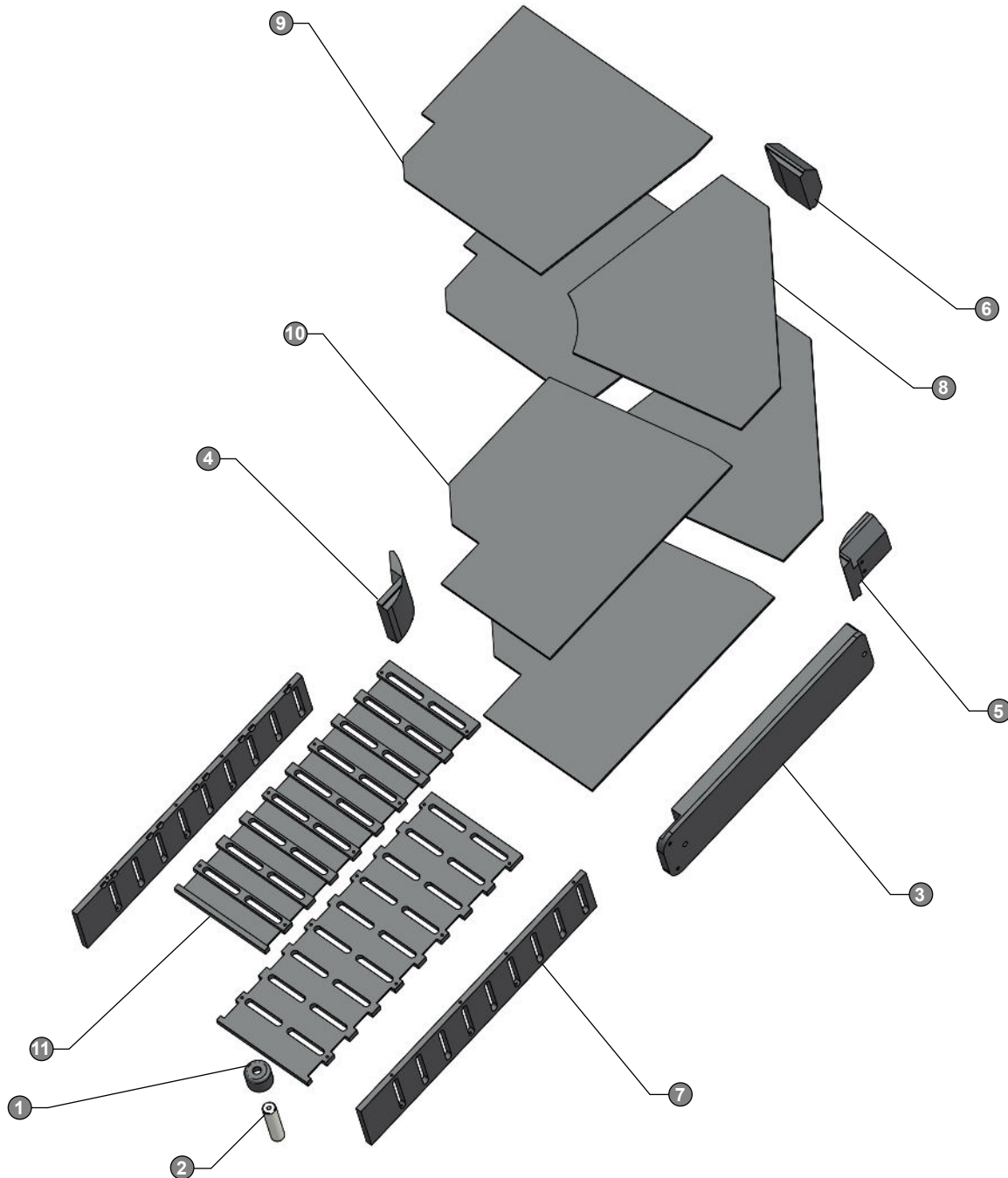
Components for Electrode Manipulator Assembly



Item	P/N	Description	OEM	QTY
1	99724	Suppression Electrode Ultra 4.5" / 5.5"	170007090	1
2	99726	Ground Electrode, Ultra 4.5" / 5.5"	170007140	1
3	99727	Suppression Plate, Ultra Graphite	170007100	1
4	99733	Insulator, Aluminum Oxide	170007110	2
5	99735	Tungsten Mesh, Left, Ultra	17007190	1
6	99736	Tungsten Mesh, Right, Ultra	170007170	1
7	99745	Ground Electrode Carrier, Ultra	17007150	1
8	99884-1	Mesh Cover Right, Ultra	170007200	1
9	99884-2	Mesh Cover Left, Ultra	170007210	1



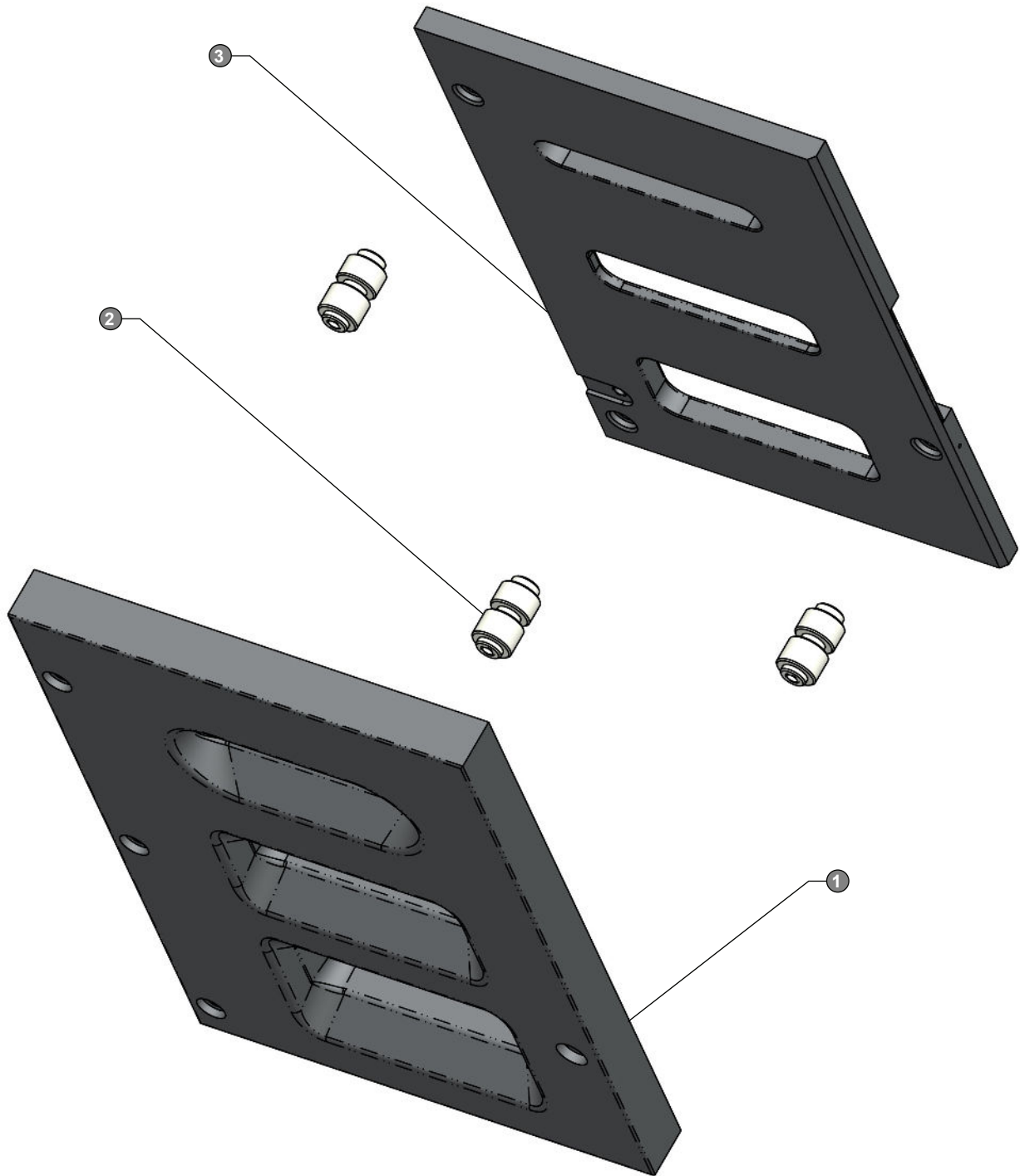
Components for Ultra Beamline



Item	P/N	Description	OEM	QTY
1	30712G	Cup Shield, Graphite	170012790	1
2	83741	Ceramic Stand-off 2 Long x 1/2 DIA 8-32 3/8 Deep	5002280	1
3	99744	Liner, Outer Strike Plate - Graphite	17394850	1
4	99746	Liner, Ultra Beam Guide - Graphite	17394890	1
5	99749	Liner 2, Beam Guide, Ultra - Graphite	17394880	1
6	99750	Liner, Beam Guide, Ultra - Graphite	17395170	1
7	99761	Slide Plate, beam Tunnel Ultra - Graphite	17384620	2
8	99762	Center-line Beam Guide, Ultra - Graphite	170039120	2
9	99772	Liner Exit, Beam Guide - Graphite	17395160	2
10	99773	Top And Bottom Liner, Beam Guide Entrance - Graphite	17395140	2
11	99798	Extended Graphite Shield, Top & Bottom *	17320550	2



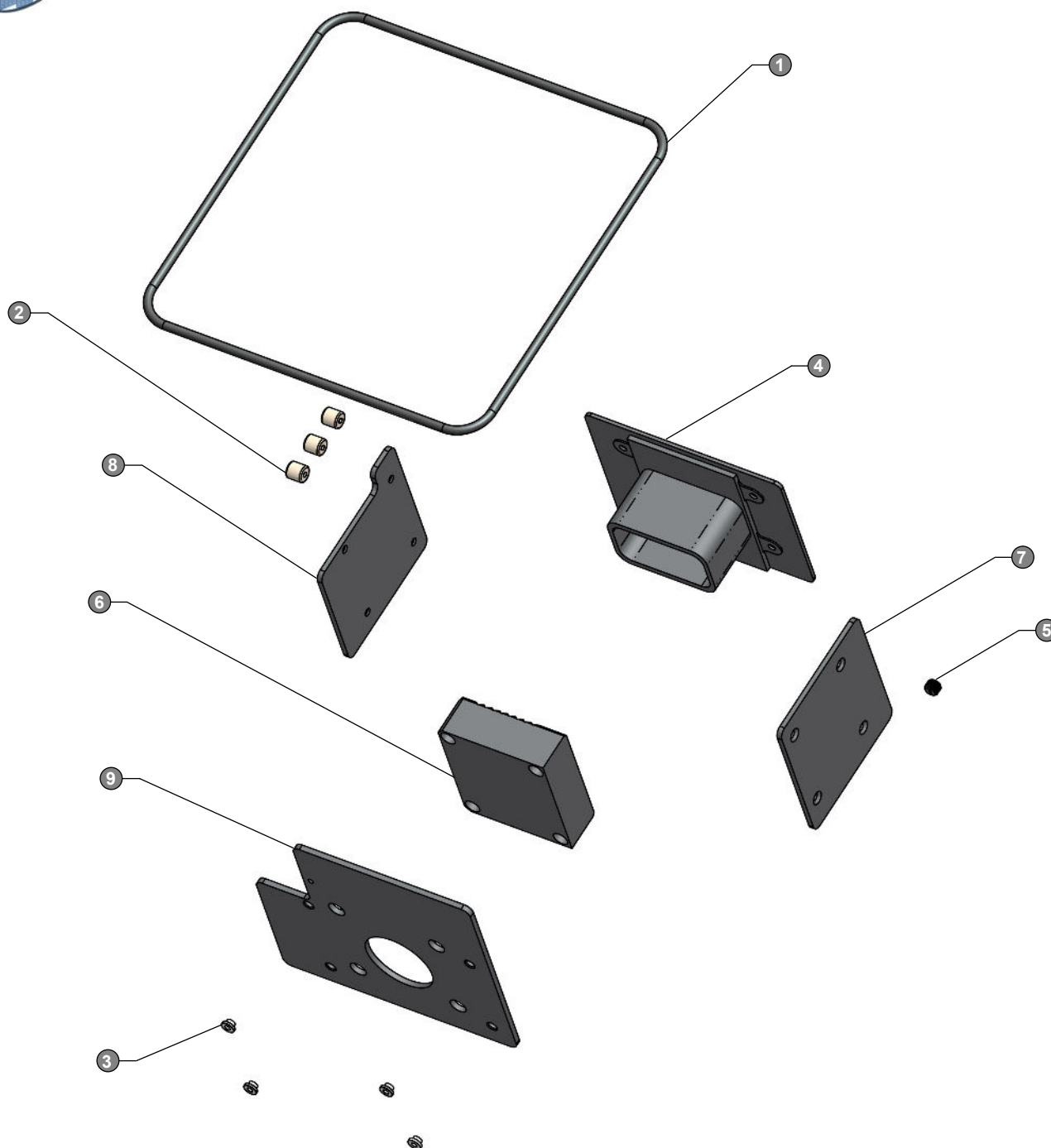
Components for Ultra Resolving Aperture Assembly



Item	P/N	Description	OEM	QTY
1	99712	Aperture, Resolving, 8,14, +22, Graphite	17384500	1
2	99742	Insulator, Variable Aperture Ultra, Aluminum Oxide	17E4902	3
3	99722	Shield, 4.5 / 5.5, Graphite	17384490	1



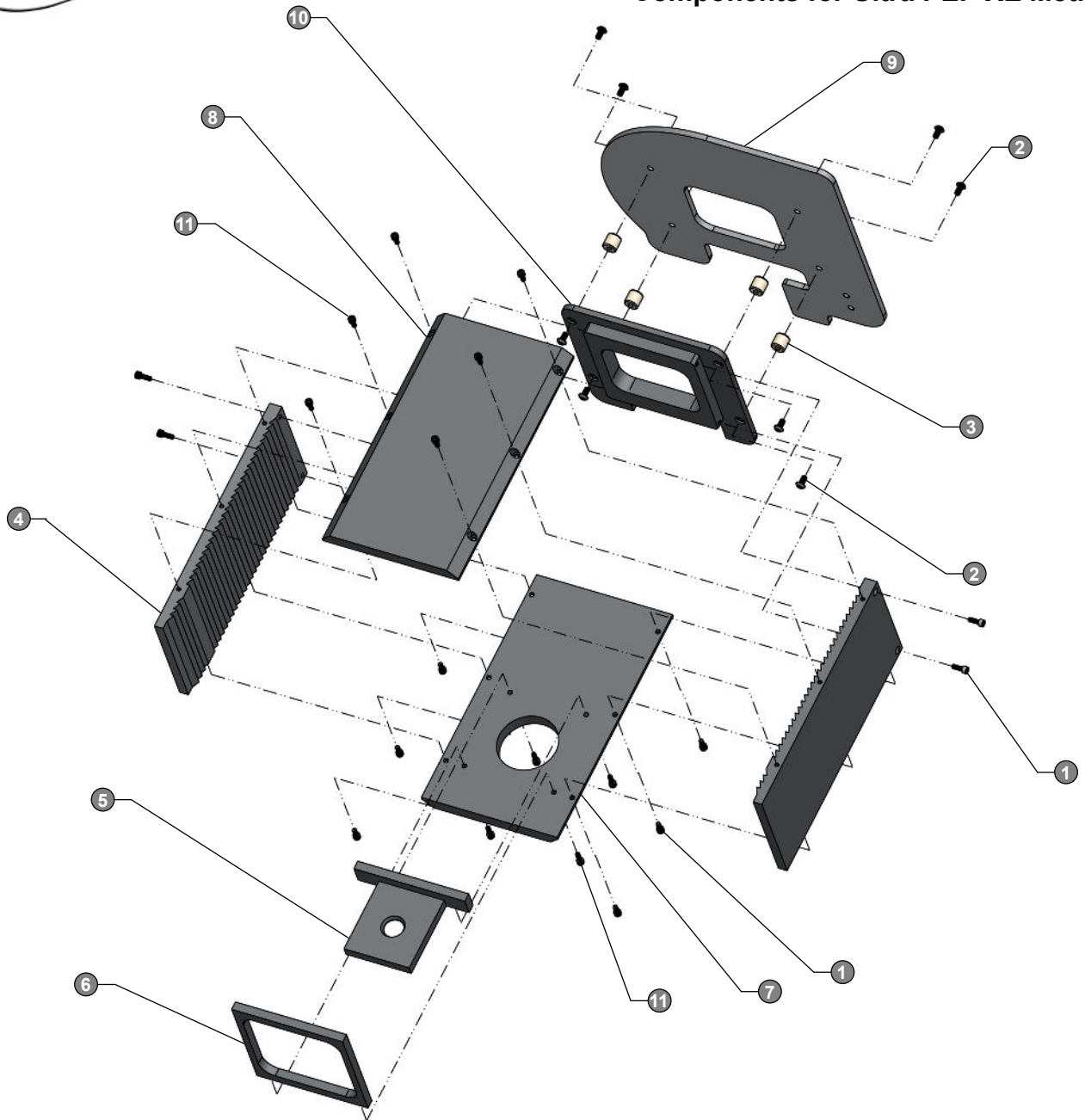
Components for Faraday Flag Ultra



Item	P/N	Description	OEM	QTY
1	83271	O-Ring -371 Buna-N	3500006	1
2	99054	Ceramic Standoff Grade L5	5000132	3
3	99087	Standoff Insulator, Alumina	1744570	4
4	99716	Liner Flag Cup W/ Extension, Graphite	170021180	1
5	99741	M8 Carbon Screw Ultra Faraday	17349970	1
6	99748	Strike Plate, Serrated, Ultra, Graphite	17362740	1
7	99763	Upper Cover, Graphite	17358800	1
8	99764	Lower Cover, Graphite	17334460	1
9	99774	Rear Cover, Bias, Graphite	170012680	1



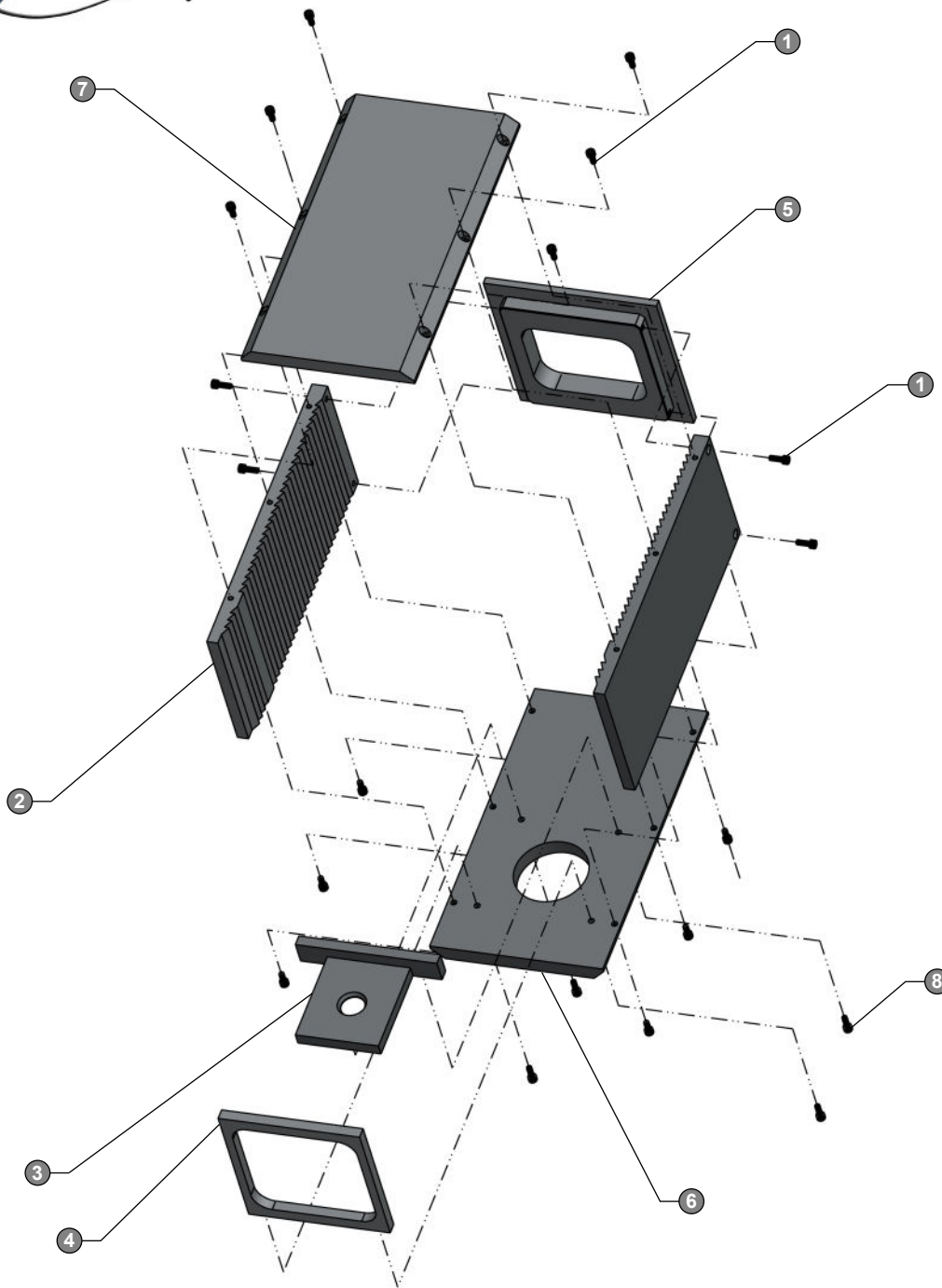
Components for Ultra PEF-XE Metric



Item	P/N	Description	OEM	QTY
1	82717	4-40 X 5/16 SHCS Vented SST	E47000247	8
2	82726	PHPS Vented 6-32 X 1/4" SST	No Reference	8
3	99054	Ceramic Standoff, 3/8" Dia X 3/8" Long X 6-32 Thread	5000132	4
4	99671	Serrated Plate - Graphite	17306390	2
5	99672	Arc Chamber Cover, PEF-XE - Graphite	17329170	1
6	99673	Shower Tube Aperture - Graphite	17304670	1
7	99717	PEF Shower Tube Base - Graphite	17394570	1
8	99718	Shower Tube Plate, PEF-XE 200 mm - Graphite	17394560	1
9	99728	Strike Plate, PEF-XE - Graphite	170010550	1
10	99743	Shower Tube Aperture, II PEF-XE - Graphite	170010540	1
11	8A347	4-40 x 1/4 SHCS Vented	4400601	12



Components for Ultra PEF-XE Assembly

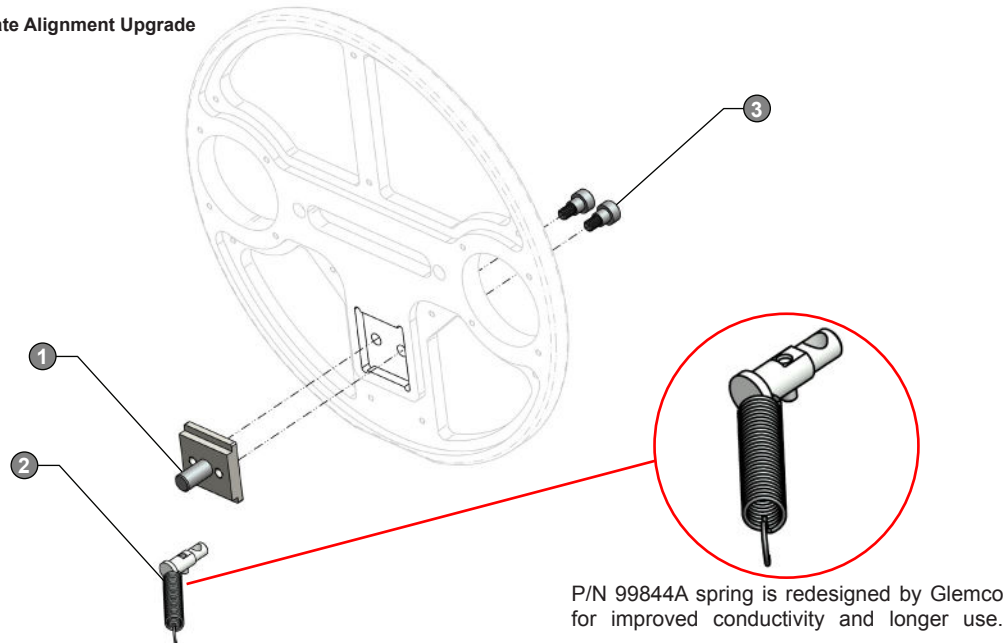


Item	P/N	Description	OEM	QTY
1	82717	4-40 x 5/16 SHCS 18-8 Vented	E47000247	8
2	99671	Serrated Plate - Graphite	17306390	2
3	99672	Arc Chamber Cover PEF-XE - Graphite	17329170	1
4	99673	Shower Tube Aperture - Graphite	17304670	1
5	99677	Shower Tube Aperture II - Graphite	17304680	1
6	99717	PEF Shower Tube Base - Graphite	17394570	1
7	99718	Shower Tube Plate, PEF-XE 200 mm - Graphite	17394560	1
8	8A347	4-40 x 1/4 SHCS Vented	4400601	12



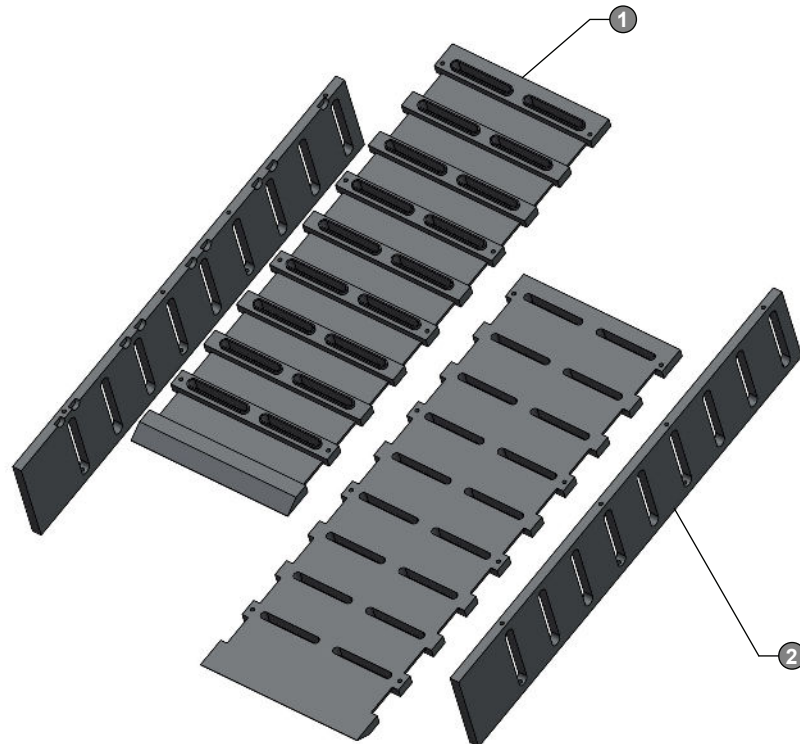
Alternate Components for Axcelis Ultra Ion Implanters

Electrode Carrier Plate Alignment Upgrade



Item	P/N	Description	OEM
1	99846	Electrode Carrier Mounting Block	17006100
2	99844A	Suppression Wire Spring Assembly	110013870
3	8A892	Shoulder Screw, 1/4 X 3/16, 10-32 THD	No Reference

Ultra Beamline

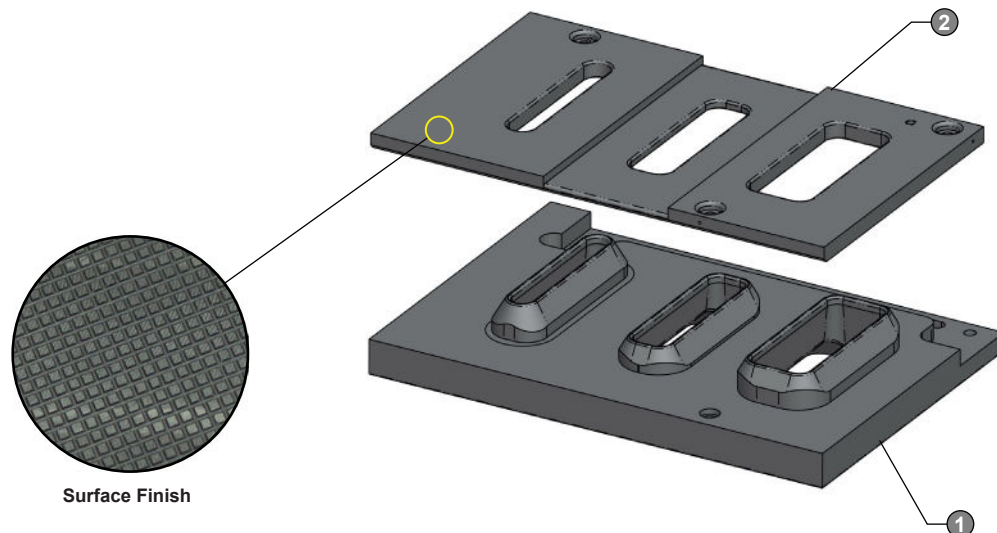


Item	P/N	Description	OEM
1	99798A	Extended Graphite Shield, Top & Bottom Glemco Design	No Reference
2	99761	Side Plate, Beam Tunnel, Ultra, Graphite	No Reference



Alternate Components for Axcelis Ultra Ion Implanters

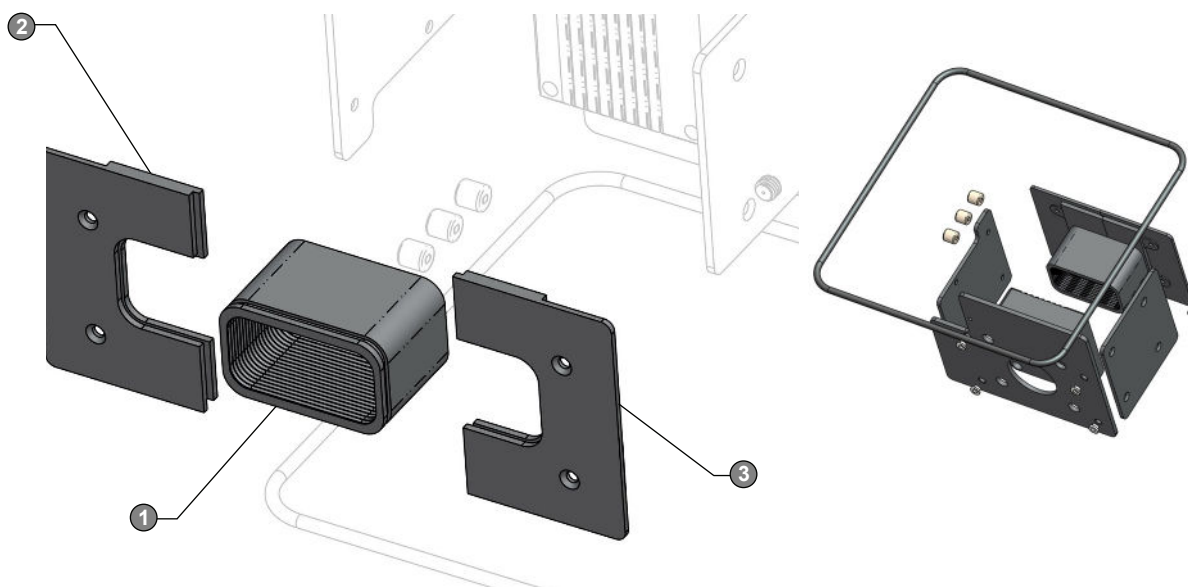
Ultra Resolving Aperture Assembly



Item	P/N	Description	OEM
1	99712A	Modified Aperture, Resolving, 8, 14, +22	17384500
2	99722A	Suppression Aperture Roughened Surfaces To Prevent Flaking	17384490

Faraday Flag Ultra

P/N 99716A
3PC Liner Flag Cup W/Extension
Glemco's improved design reduces flaking and shorting, while lowering replacement cost.

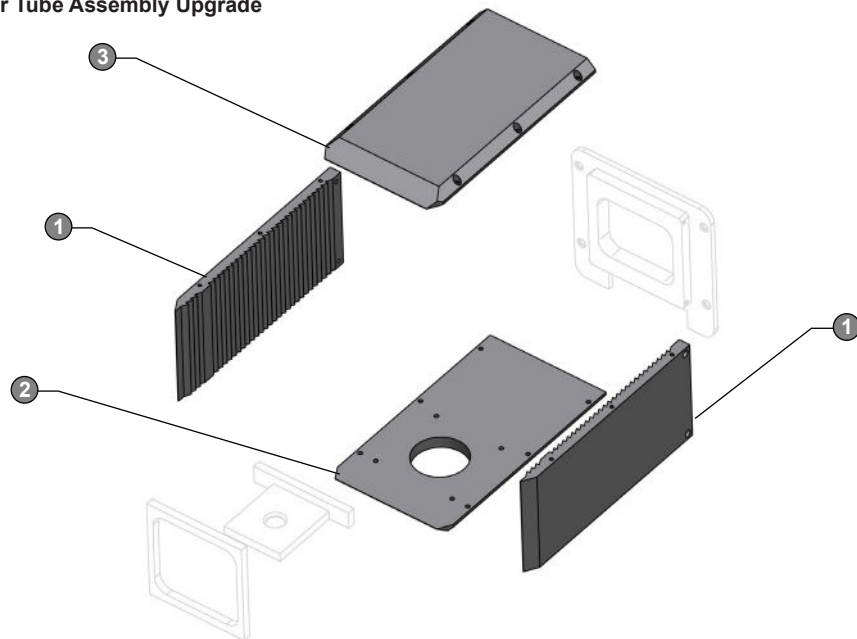


Item	P/N	Description	OEM
1	99716A-1	Replaceable Liner Flag Cup Extension	No Reference
2	99716A-2	Liner Flag Cup W/Extension	No Reference
3	99716A-3	Liner Flag Cup W/ Extension	No Reference



Alternate Components for Axcelis Ultra Ion Implanters

Ultra PEF-XE Shower Tube Assembly Upgrade



Item	P/N	Description	OEM
1	99671A	Side Plate, Graphite	No Reference
2	99717A	Shower Tube Base, PEF, Graphite	No Reference
3	99718A	Shower Tube Base, PEF, Graphite	No Reference