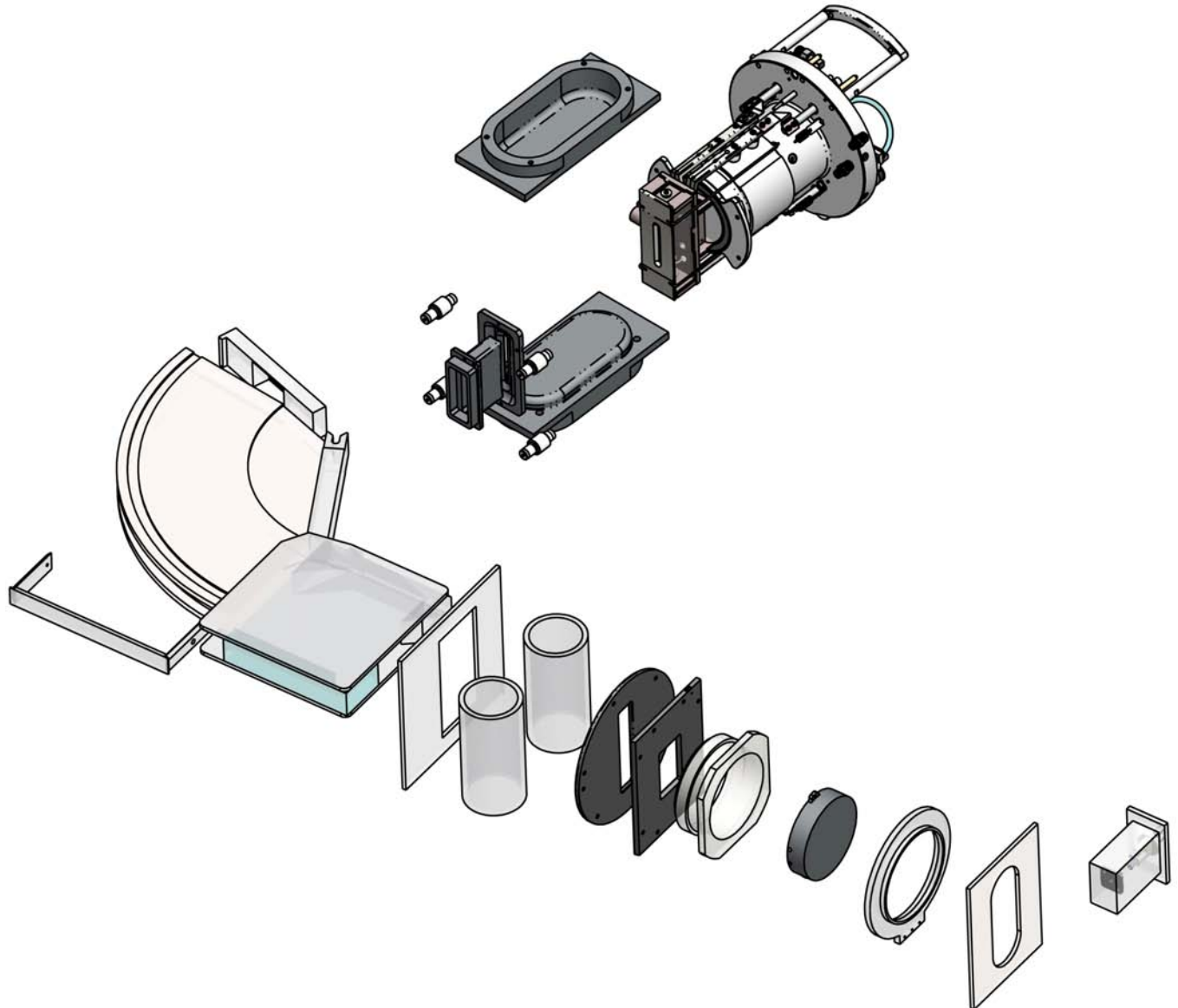
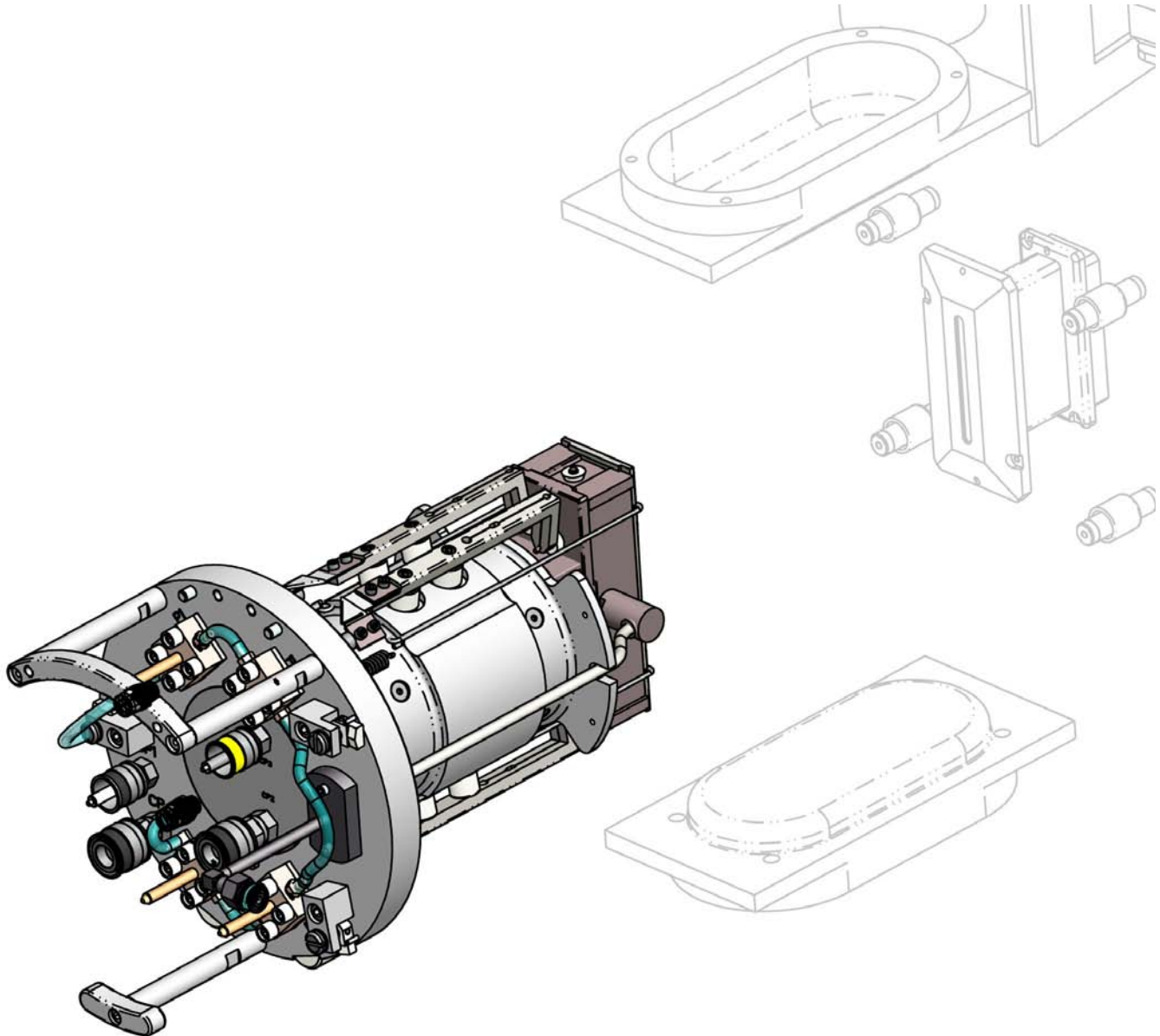
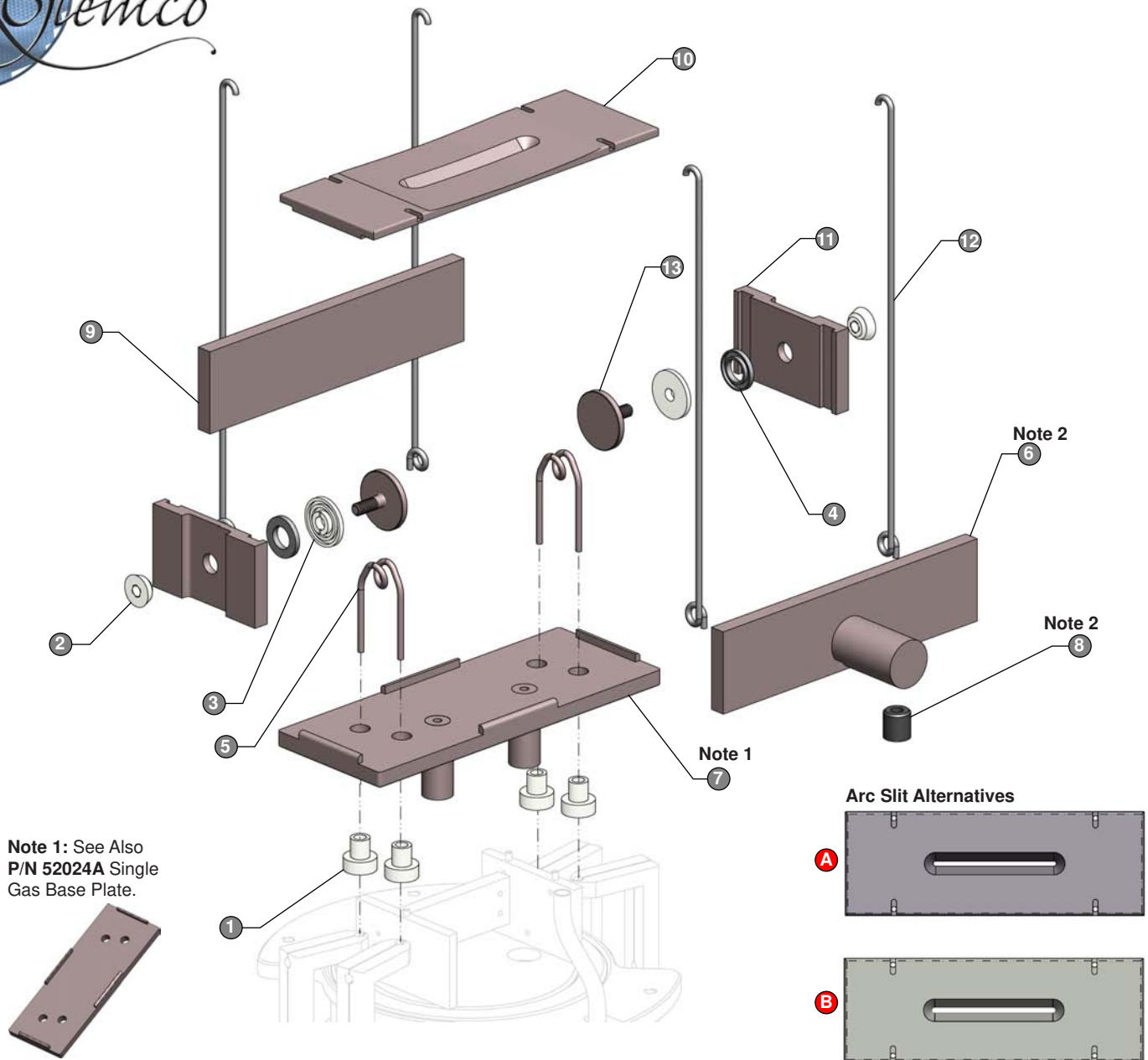




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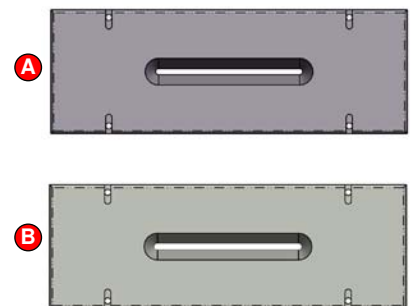




Note 1: See Also
P/N 52024A Single
Gas Base Plate.

Note 2: P/N 52023 is
supplied with P/N 52025,
shown here.

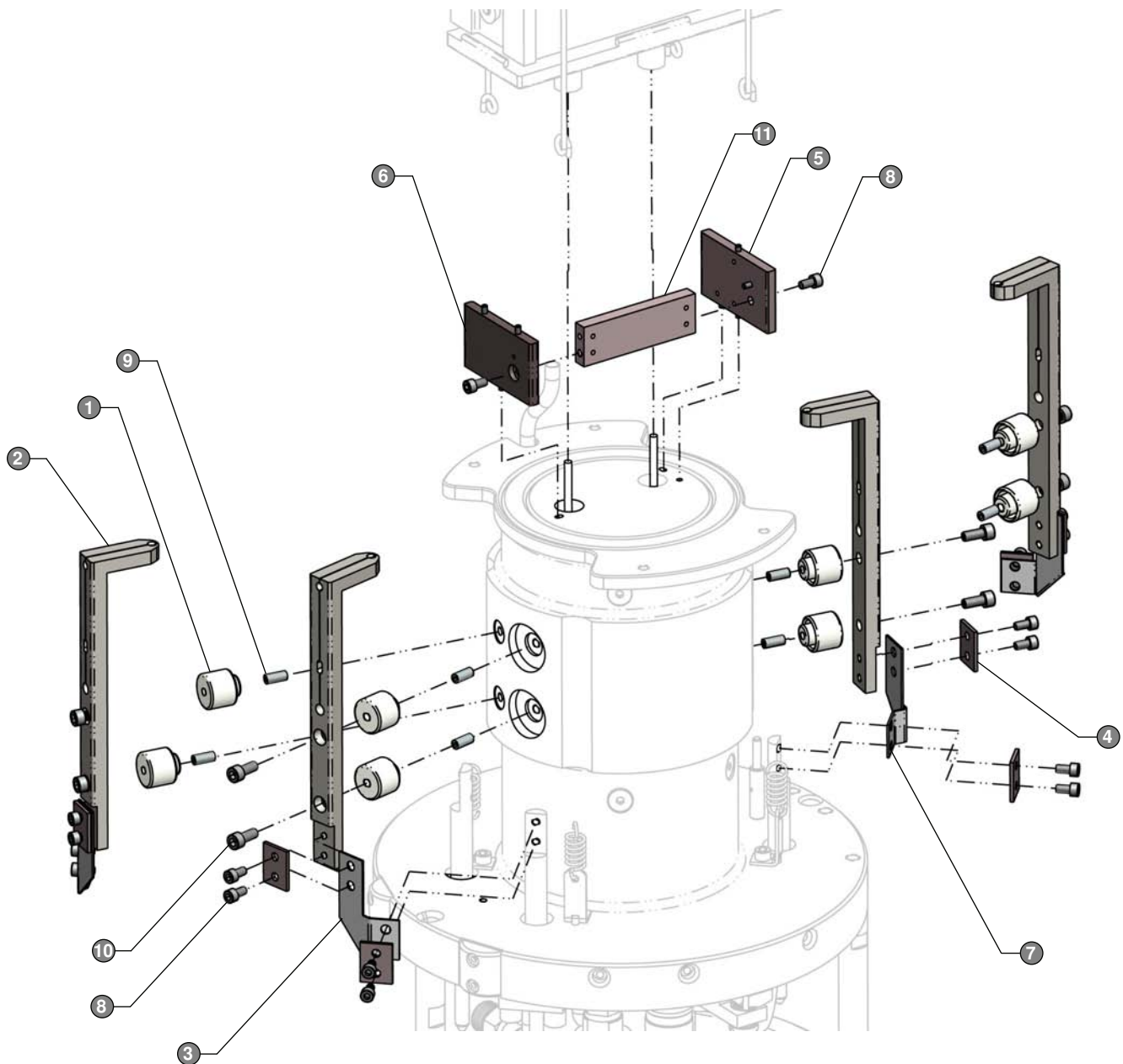
Arc Slit Alternatives



Item	P/N	Description	OEM
A	52045A	Arc Slit Flat, Tungsten	E17135630
B	52045AM	Arc Slit Flat, Molybdenum	No Reference

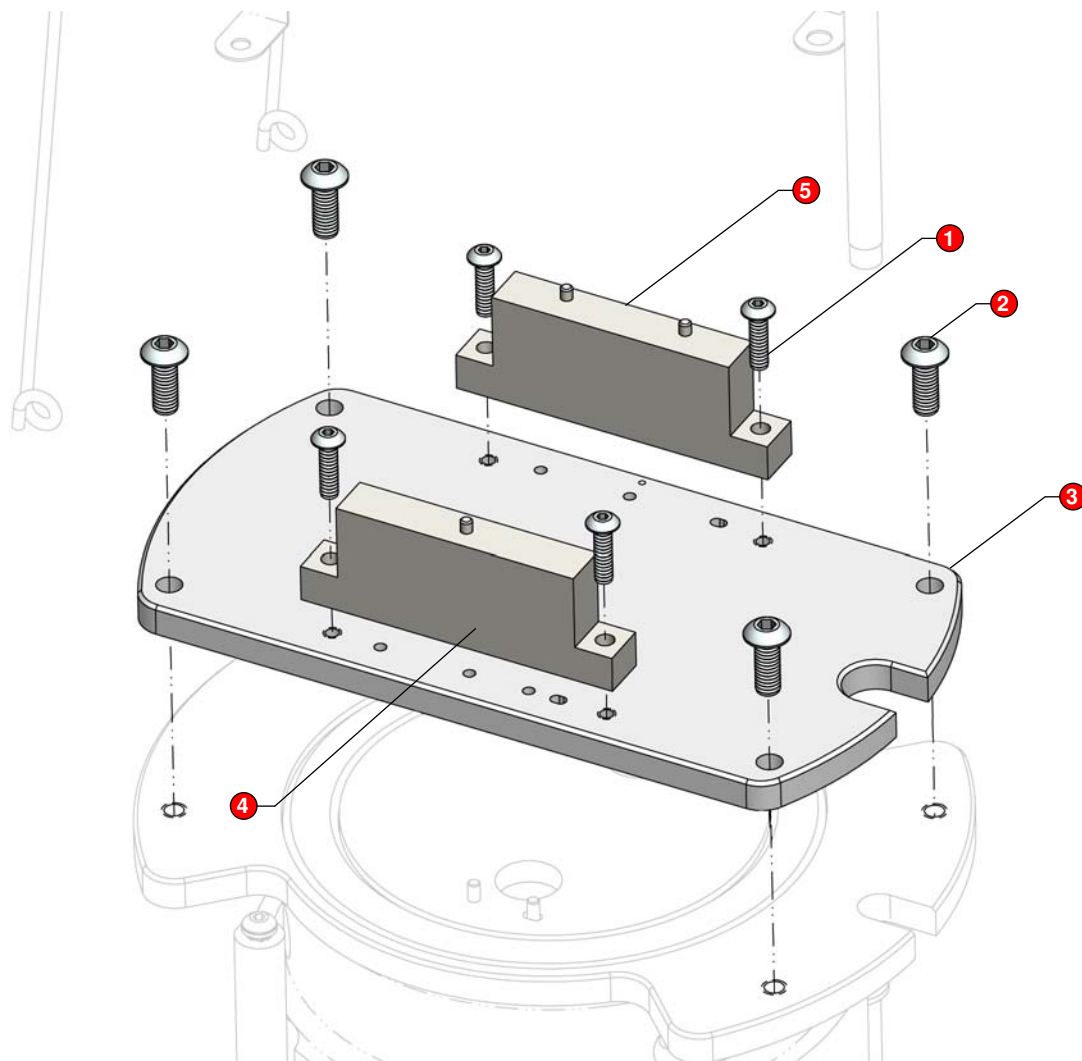
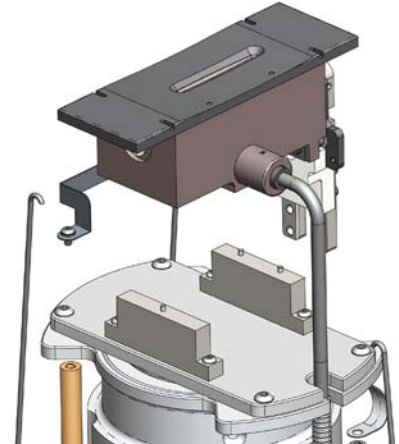
Item	P/N	Description	OEM	QTY
1	52015	Filament Insulator, Boron Nitride	E17131210	4
2	52016	Insulator, Aluminum Oxide	E17132320	2
3	52017	Repeller Insulator, Boron Nitride	E17132280	2
4	52020	Repeller Insulator Shield, Tantalum	E17132290	2
5	52022	Filament	E17069340	2
6	52023	Side Plate, Gas Port Tungsten	E17094441	1
7	52024	Base Plate, Tungsten	E17094421	1
8	52025	Gas Port Tube Casing, Graphite	E17121520	1
9	52026	Side Plate, Tungsten	E17067001	1
10	52045	Arc Slit, Tungsten	E17077055	1
11	52046	End Plate, Tungsten	E17124440	2
12	52031-2	Retainer Hook, 186mm	E17077001	4
13	52013A	Repeller	E17145410	2
14	52020B	Repeller Insulator Shield, Boron	E17132290	
15	52020M	Repeller Insulator Shield, Molybdenum	E17132290	

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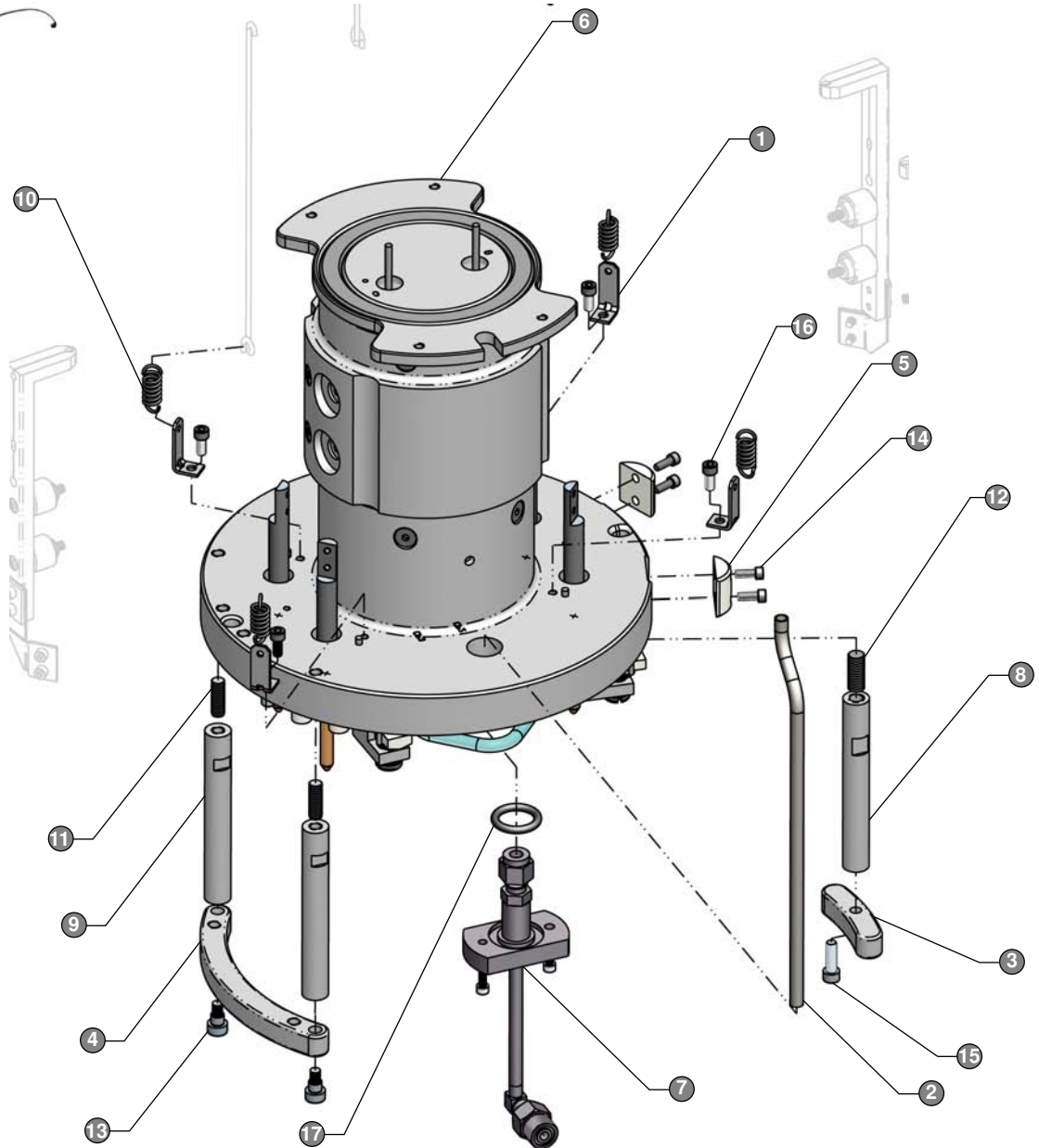
Item	P/N	Description	OEM	QTY
1	52018	Insulator, Alumina	E17092410	8
2	52028	Filament Clamp, Molybdenum	E17092400	4
3	52029	Silver Strap	E17093240	2
4	52030	Washer	E17094390	4
5	52047	Support, Arc Chamber, RH, Tungsten	E17089931	1
6	52048	Support, Arc Chamber, LH, Tungsten	E17089930	1
7	52052	Silver Strap No. 2	E17093250	2
8	82412	6-32 X 1/4", SHCS, SST 18-8	E47000016	18
9	82733	Set Screw, Vented 8-32 X 3/8 18-8 SST	No Reference	8
10	82734	SHCS 8-32 x 3/8 Vented 18-8 SST	E47000291	8
11	52034M	Support Arc Chamber, Center, Molybdenum	E17089940	1

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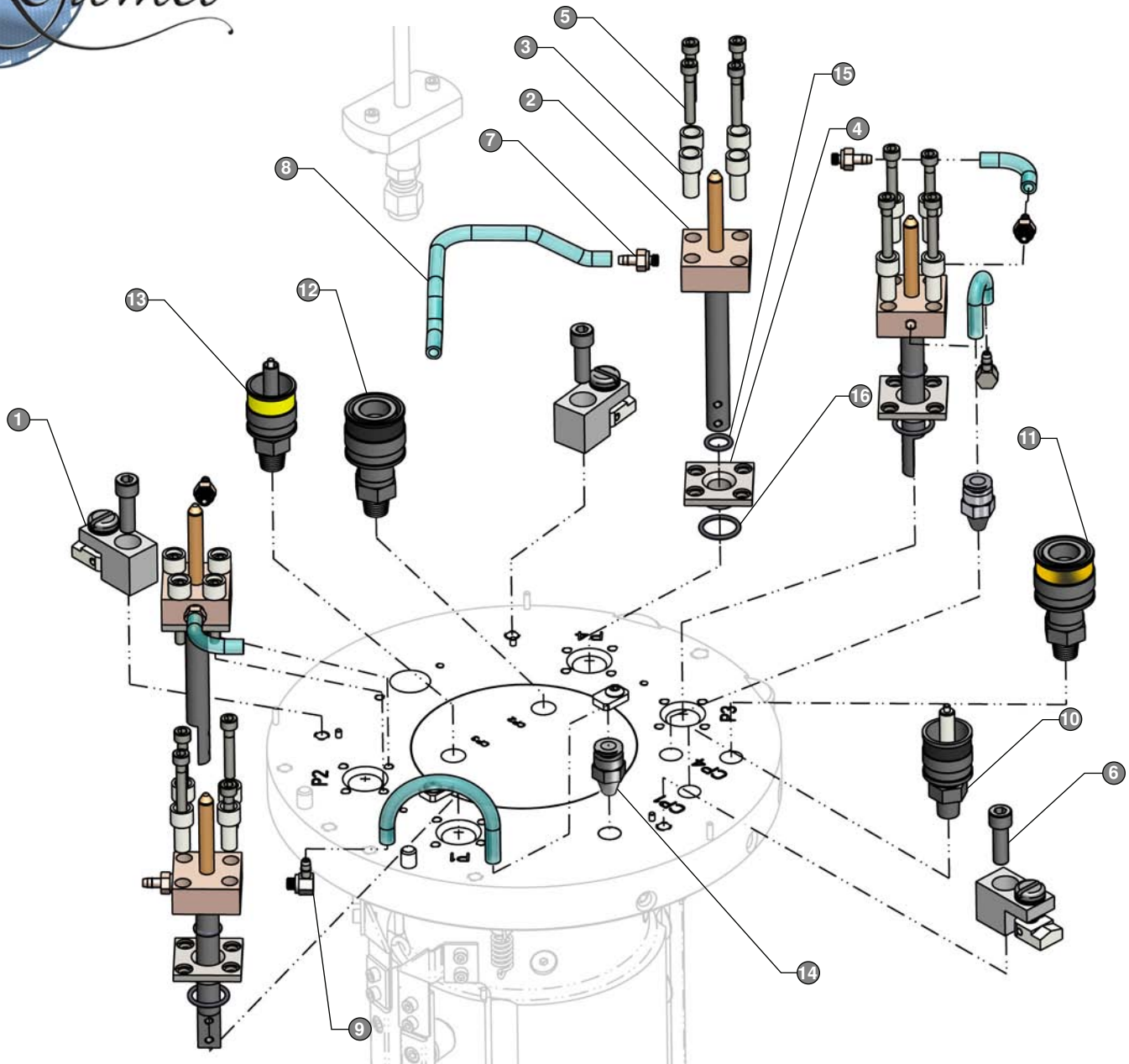
Item	P/N	Description	OEM	QTY
1	82629	6-32 X 1/2" Button Head Socket Screw, SST	1236200608	4
2	82643	BHSS 10-32 x 1/2 SST	1236206008	4
3	59801A-1	Mounting Stage Base	No Reference	1
4	59801A-2	Mounting Stage A	No Reference	1
5	59801A-3	Mounting Stage B	No Reference	1

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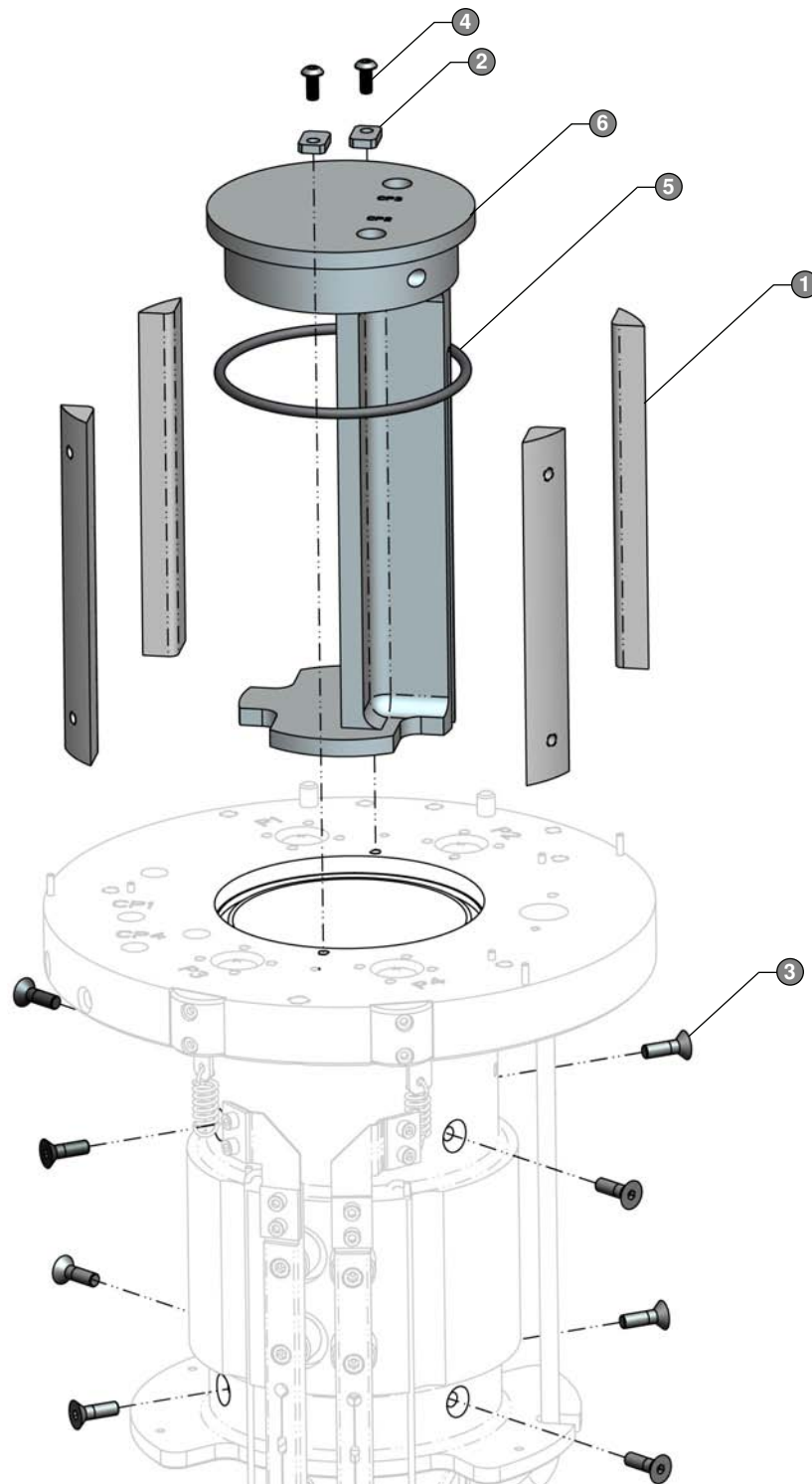
Item	P/N	Description	OEM	QTY
1	52032	Extension Spring Anchor	No Reference	4
2	52033	Gas Tube	E170944001	1
3	52040	Source Handle, #1	E17077150	1
4	52041	Source Handle, #2	E17093160	1
5	52042	Alignment Tab	No Reference	2
6	52043	Vllsion Source Body	E17094450	1
7	52044	Gas Feed- Thru Assembly	E17094380	1
8	52055	Source Handle No.1, Standoff	No Reference	1
9	52056	Handle, Standoff, Aluminum	No Reference	2
10	82058	Extension Spring .359OD X 1.380 SST	E12004800	4
11	82189	Set Screw .250 x .750 1/4-20 X 3/4, SST 18-8	No Reference	2
12	82191	Set Screw 5/16-18 x .750 18-8	No Reference	1
13	82287	Shoulder Screw .250 X .188 Long 10-32	No Reference	2
14	82411	SHCS 6-32 X 3/8" SST	E47000017	4
15	82436	SHCS 10-32 x 5/8, 18-8 SST	E47000049	1
16	82734	SHCS 8-32 x 3/8 Vented 18-8SST	E47000291	4
17	83109	O-Ring 209 Buna-N	3500073	1

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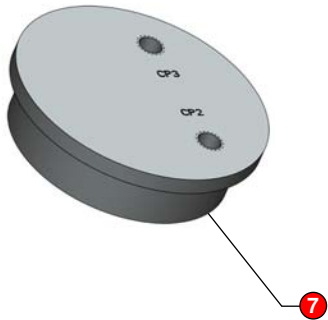


Item	P/N	Description	OEM	QTY
1	52035	Source Clamp	No Reference	3
2	52039	Feed-Thru, VIIsion Source	No Reference	4
3	52058	Feed-Thru Insulator, Delrin	E1709051	16
4	52059	Feed-Thru Source Insulator, Delrin	E17092760	4
5	82433	SHCS 8-32 x 1.0 SST	E47000042	16
6	82445	1/4-20 X 3/4\", Socket Head Cap Screw, SST	4400017	3
7	82502	Fitting, 1/8\" Tubing to 10-32 Male Thread, Brass	No Reference	6
8	82755	Tubing, Polyurethane, .25\" OD x .16\" ID.	No Reference	Sold by FT.
9	83693	Fitting, 90° Elbow Barbed 1/8\"/10-32 Male Thread	No Reference	2
10	83701	QC Series Instrumentation Quick Connect	No Reference	1
11	83702	QC Series Instrumentation Quick Connect Body, Key 2	No Reference	1
12	83703	QC Series Instrumentation Quick Connector Body, Key 3	No Reference	1
13	83704	QC Series Instrumentation Quick Connector Body, Key 4	No Reference	2
14	83724	Fitting, Male Connector, 1/4 Tube X 1/8 NPT.	No Reference	2
15	82912V	O-Ring-012, Viton®	E3500068	4
16	82915V	O-Ring-015, Viton®	No Reference	4

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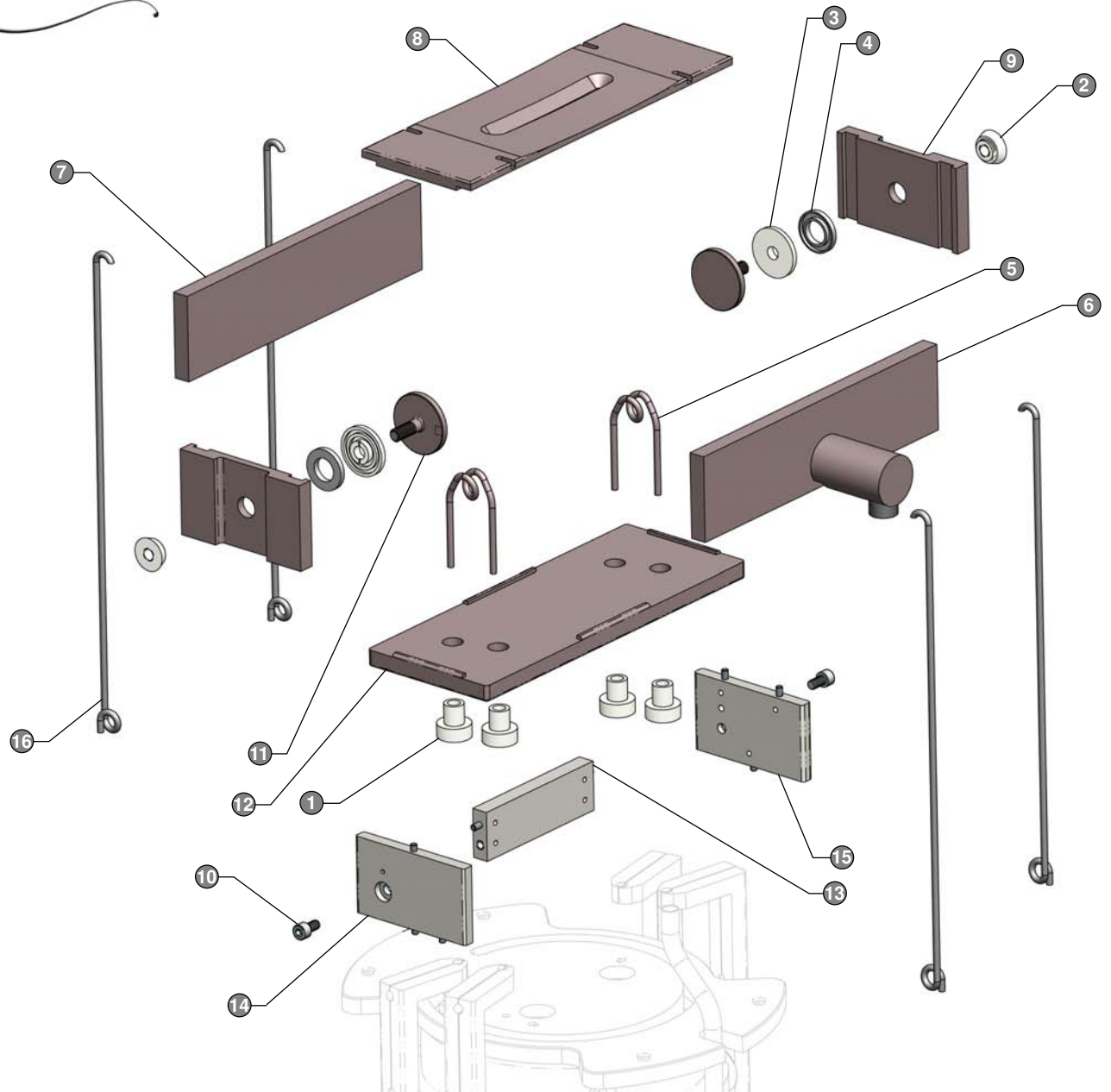


P/N 52037A is an alternative to P/N 52037.



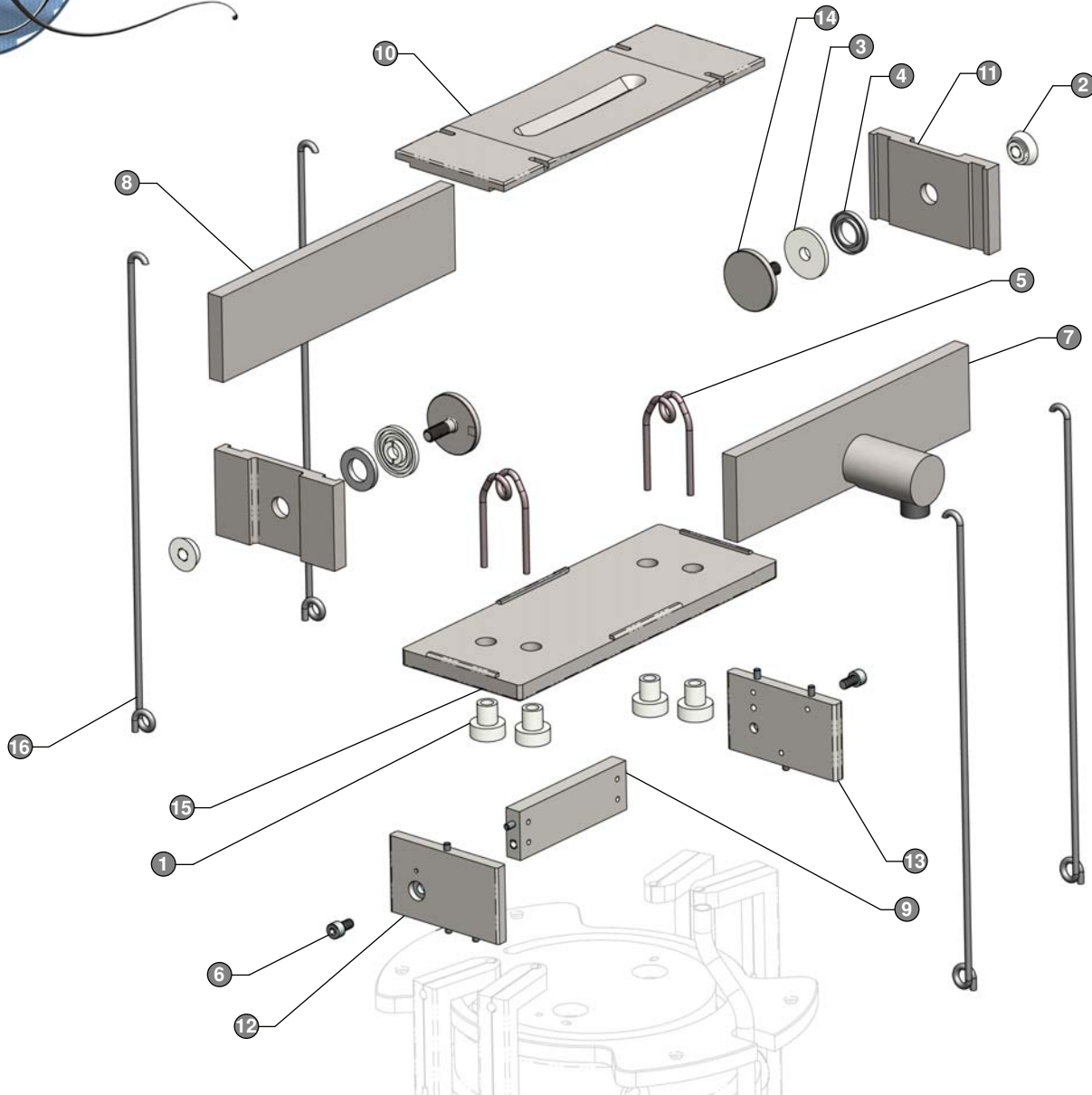
Item	P/N	Description	OEM	QTY
1	52036	Internal Reflector	No Reference	4
2	52038	Blank Off Clamp	E17069090	2
3	82594	FHSS 10-32 x 1/2 18-8 SST	E47000062	8
4	82631	BHSS 8-32 X 3/8", SST	4400183	2
5	83137	O-Ring, -237, Buna N	E35000088	1
6	52037	Vaporizer Blank Off Assembly, Aluminum	No Reference	1
7	52037A	Vaporizer Blank Off, Aluminum Alternative	No Reference	

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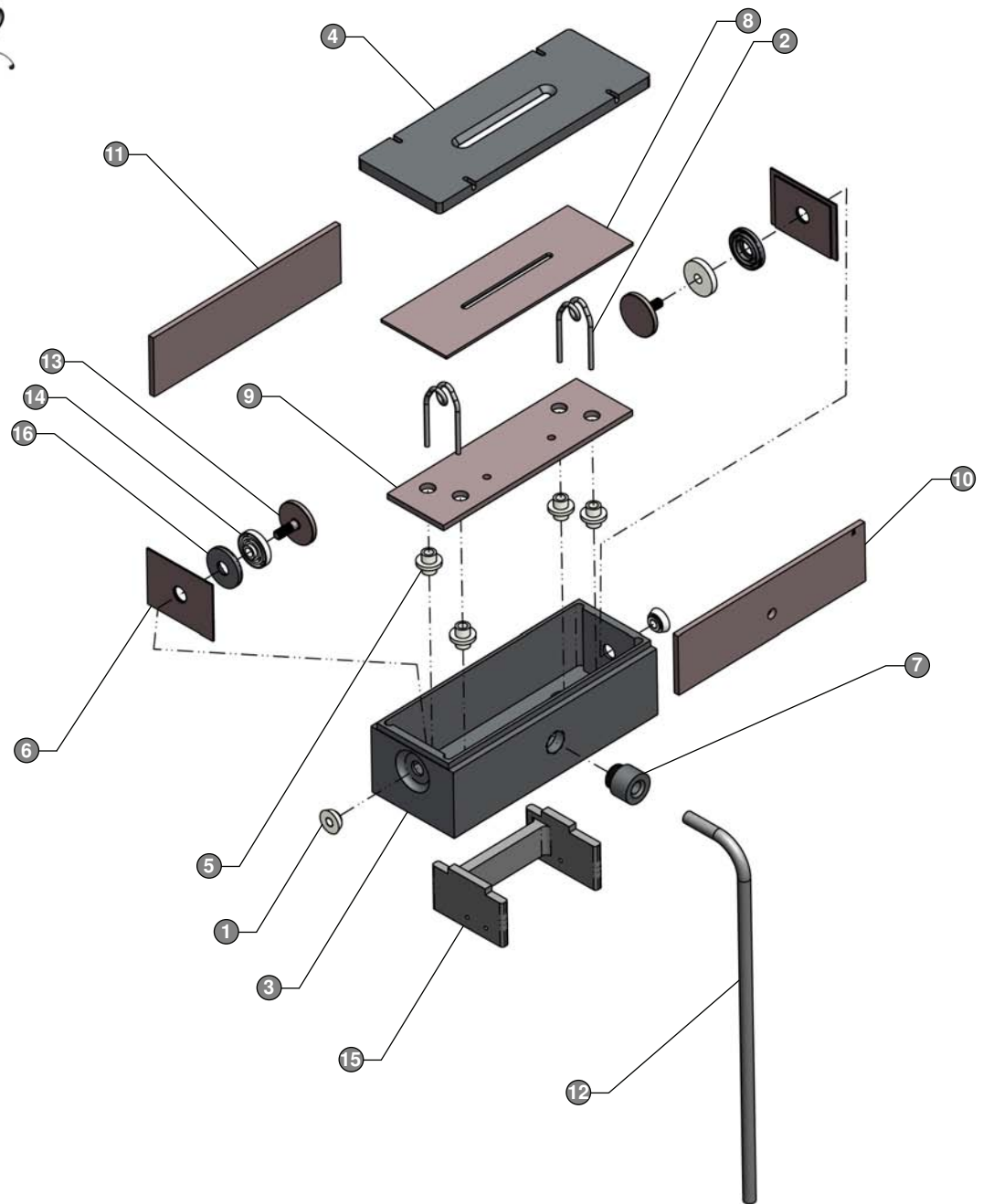
Item	P/N	Description	OEM	QTY
1	52015	Filament Insulator, Boron Nitride	E17131210 REV 01	4
2	52016	Insulator	E17132320 REV 01	2
3	52017	Repeller Insulator	E17132280 REV 01	2
4	52020	Repeller Insulator Shield, Tantalum	E17132290	2
5	52022	Filament	E17069340 REV 06	2
6	52023	Tungsten Side Plate, Gas Port	E17094441	1
7	52026	Side Plate, Pure Tungsten	E17067001	1
8	52045	Arc Slit, Tungsten	E17077055	1
9	52046	End Plate, Tungsten	E17124440	1
10	82412	6-32 X 1/4", SHCS, SST 18-8	E47000016	2
11	52013A	Repeller	E17145410	2
12	52024A	Base Plate, Tungsten	E17094422	1
13	52034M	Arc Chamber Mounting Stage Bottom	E17089940	1
14	52047M	Arc Chamber Mounting Stage, Moly	E17089931 REV 02	1
15	52048M	Arc Chamber Mounting Stage, Side Plate, Moly	E17089930	1
16	52031-2	Retainer Hook, 186MM	E17077001	4

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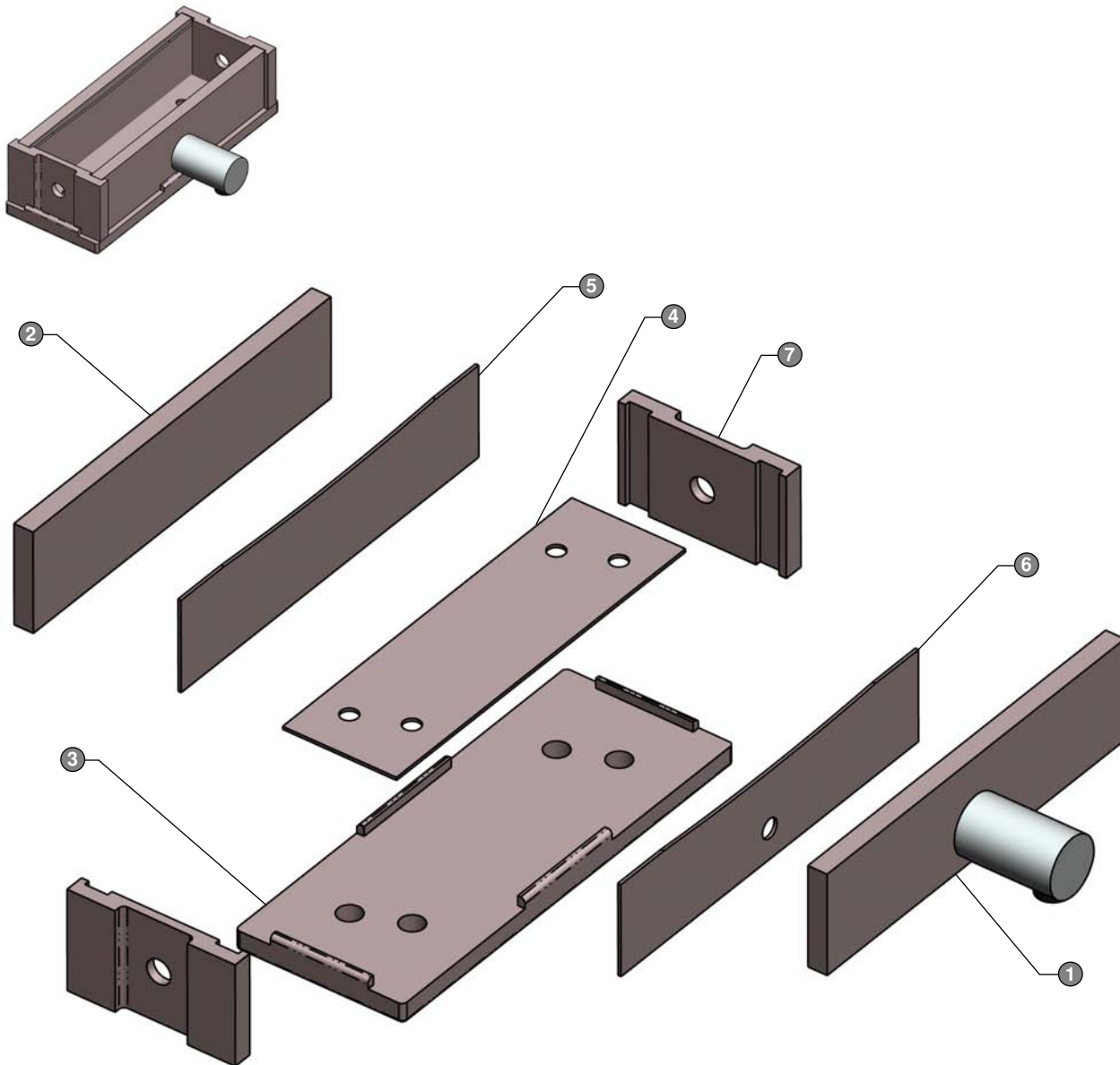
Item	P/N	Description	OEM	QTY
1	52015	Filament Insulator, Boron Nitride	E17131210 REV 01	4
2	52016	Insulator	E17132320 REV 01	2
3	52017	Repeller Insulator	E17132280 REV 01	2
4	52020	Repeller Insulator Shield, Tantalum	E17132290	2
5	52022	Filament	E17069340 REV 06	2
6	82412	6-32 X 1/4", SHCS, SST 18-8	E47000016	2
7	52023M	Side Plate, Gas Port, Molybdenum	No Reference	1
8	52026M	Side Plate, Pure Molybdenum	E17067001	1
9	52034M	Arc Chamber Mounting Stage Bottom	E17089940	1
10	52045M	Arc Slit, Molybdenum	E17077055	1
11	52046M	End Plate, Molybdenum	E17124440	1
12	52047M	Arc Chamber Mounting Stage, Molybdenum	E17089931 REV 02	1
13	52048M	Arc Chamber Mounting Stage, Side Plate, Molybdenum	E17089930	1
14	52013AM	Repeller	E17145410	2
15	52024MA	Base Plate, Molybdenum	No Reference	1
16	52031-2	Retainer Hook, 186MM	E17077001	4

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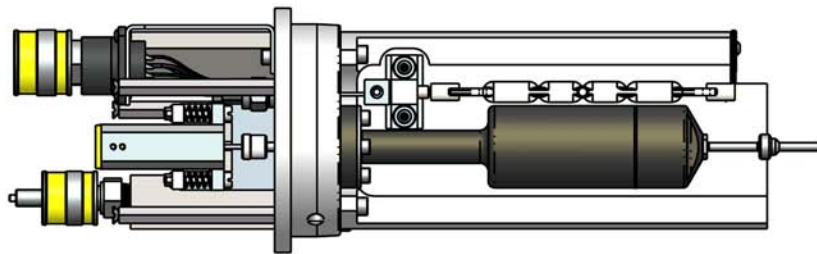
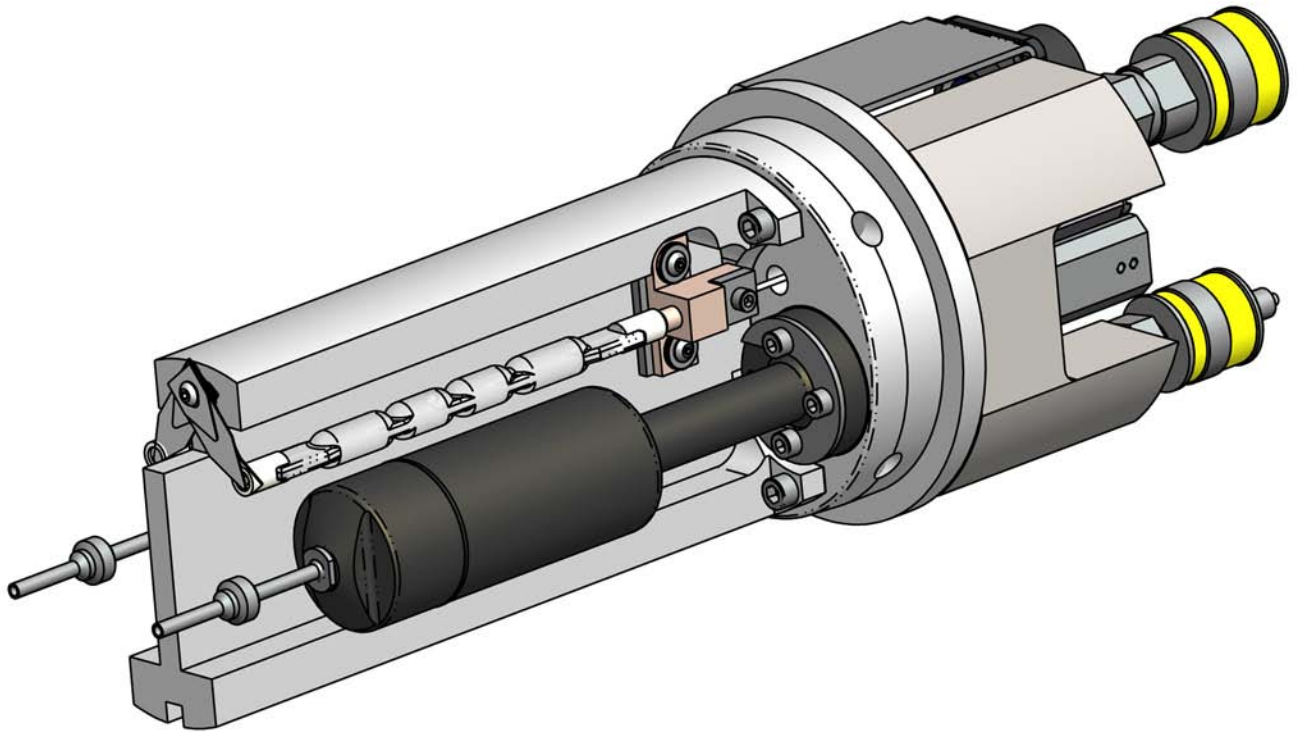
Item	P/N	Description	OEM	QTY
1	52016	Insulator, Aluminum Oxide	E17132320 REV 1	2
2	52022	Filament	E17069340 REV 6	2
3	52080	VIISion Arc Chamber, 1 PC, Graphite	No Reference	1
4	52081	VIISion Top Plate, 1 Pc. System, Graphite	No Reference	1
5	52085	Filament Insert, Boron Nitride	No Reference	4
6	52086	End Liner VIISion Arc Chamber	No Reference	2
7	52087	Gas Nozzle, Arc Chamber	No Reference	1
8	52088	Liner Plate, Arc Slit, Tungsten	E17035630	1
9	52089	Base Plate Liner	No Reference	1
10	52090	Side Liner, W/ Nozzle, Tungsten	No Reference	1
11	52091	Side Liner, No Nozzle	No Reference	1
12	52092	Gas Tube, VIISion 1Pc Arc Chamber	No Reference	1
13	52013A	Repeller, Alternative	E17145410	2
14	52017A	Repeller Insulator, Boron Nitride	No Reference	2
15	52047A	Arc Chamber Support Plate	No Reference	1
16	52020AG	Repeller Baffle, Graphite	No Reference	2

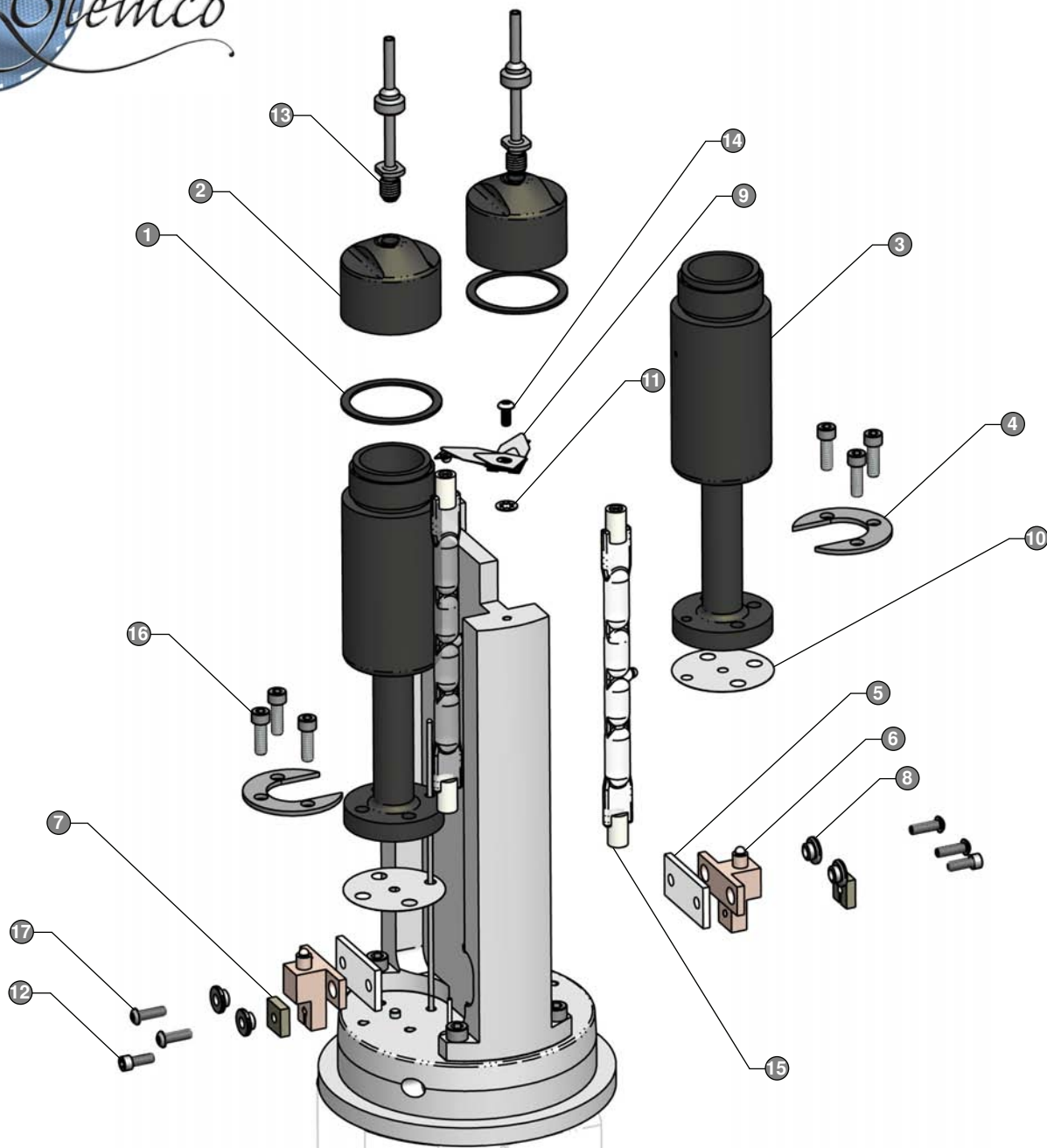
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Item	P/N	Description	OEM	QTY
1	52023	Side Plate, Gas Port, Tungsten	E17094441	1
2	52026	Side Plate, Pure Tungsten	E17067001	1
3	52024A	Base Plate, Without Vaporizer Ports, Tungsten	E17094421	1
4	52024L1	Base Plate Liner, No Vaporizer, Tungsten	No Reference	1
5	52024L2	Side Plate Liner, No Port, Tungsten	No Reference	1
6	52024L3	Side Plate Liner, W/ Port, Tungsten	No Reference	1
7	52046L	End Plate, Liner Receptive, Tungsten	E17124440	2

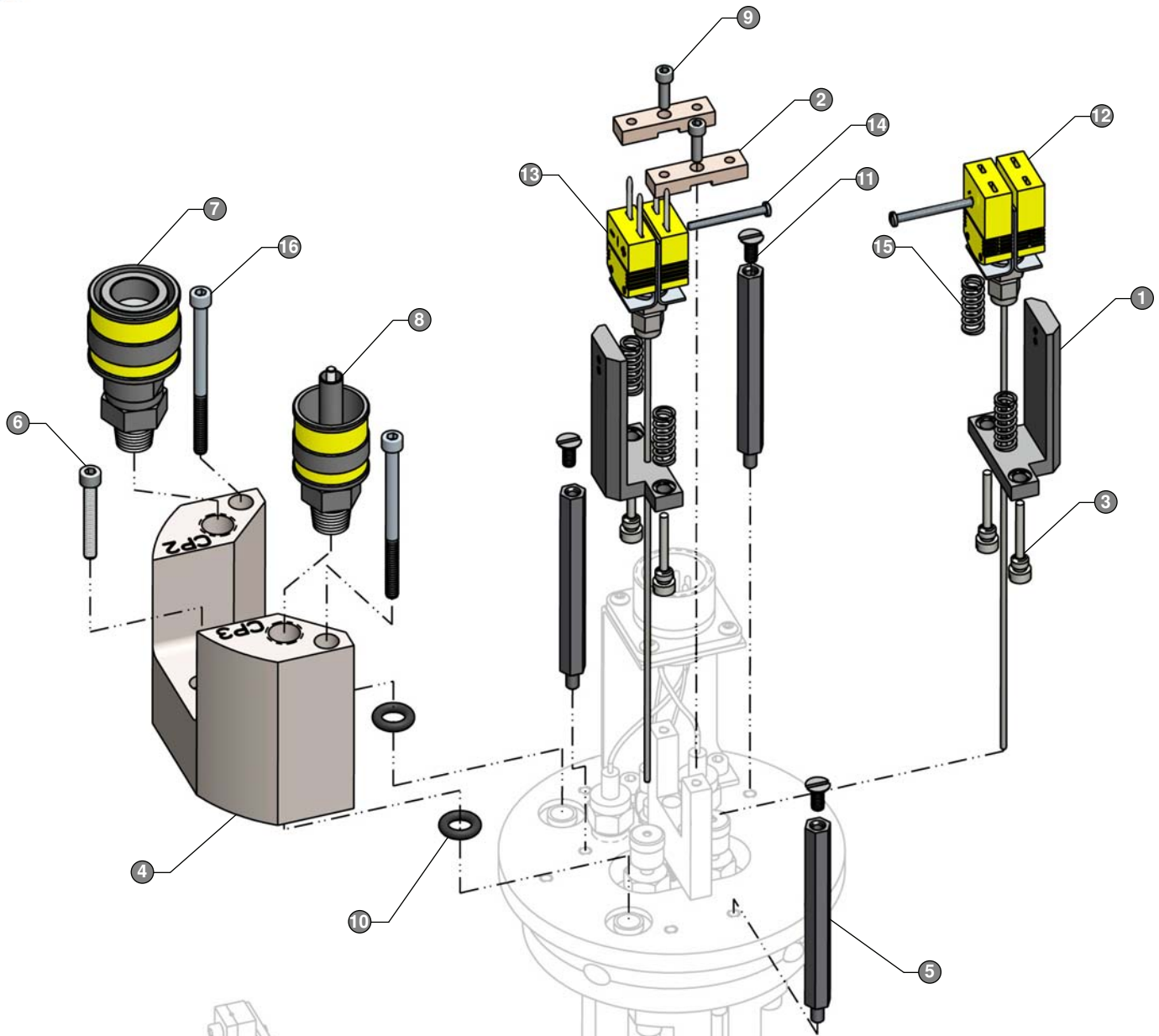
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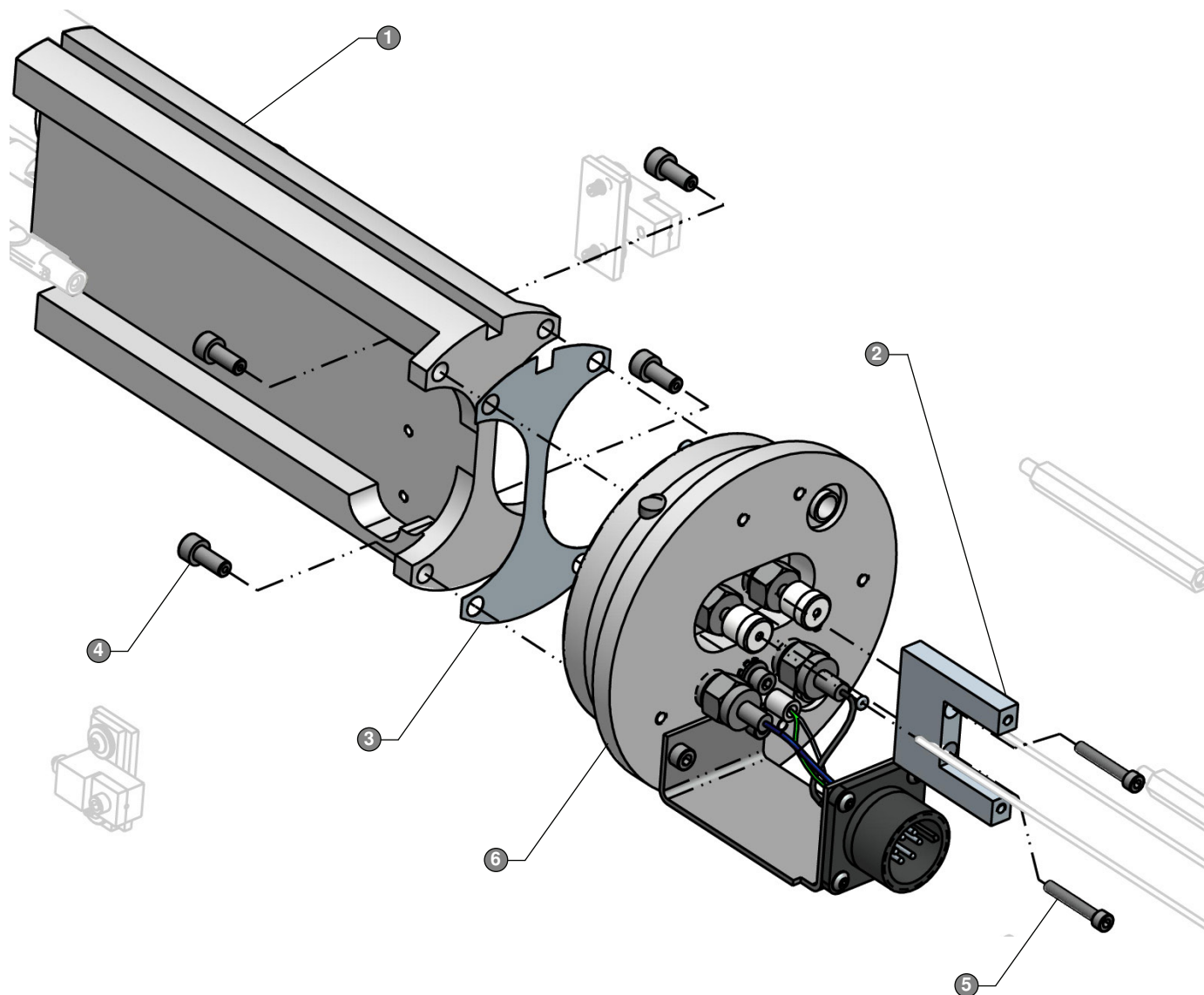
Item	P/N	Description	OEM	QTY
1	52084	Crucible Gasket	E17101470 Rev 2	2
2	52110	Crucible Cap, Graphite	No Reference	2
3	52111	Crucible Body	E17063211	2
4	52112	Crucible Clamp	No Reference	2
5	52115	Insulator, Terminal, Boron Nitride	No Reference	2
6	52116	Terminal, Bulb	No Reference	2
7	52117	Clamp, Bulb Terminal	No Reference	2
8	52118	Insulator, Alumina	No Reference	4
9	52119	Contact Assembly, Halogen Bulb	No Reference	1
10	52125	Gasket, Inidum, Crucible Body	No Reference	2
11	82600	No. 4 Internal Tooth Lock-Washer	No Reference	1
12	84228	4-40 X 5/16 SHCS, 18-8 SST	4400873	2
13	52083W	Vaporizer Nozzle, Tungsten	E17063220	2
14	8A191	BHSS 4-40 X 1/4 18-8 SST	44K00030	1
15	8A809	Halogen Bulb, 500W, 120V	No Reference	2
16	8A817	Head Cap Screw, Vented, 6-32 x 7/16 18-8 SST	No Reference	6
17	8A819	Vented Button Head Socket Screw, 4-40 X 3/8, Sst, Mos2 Coated	No Reference	4

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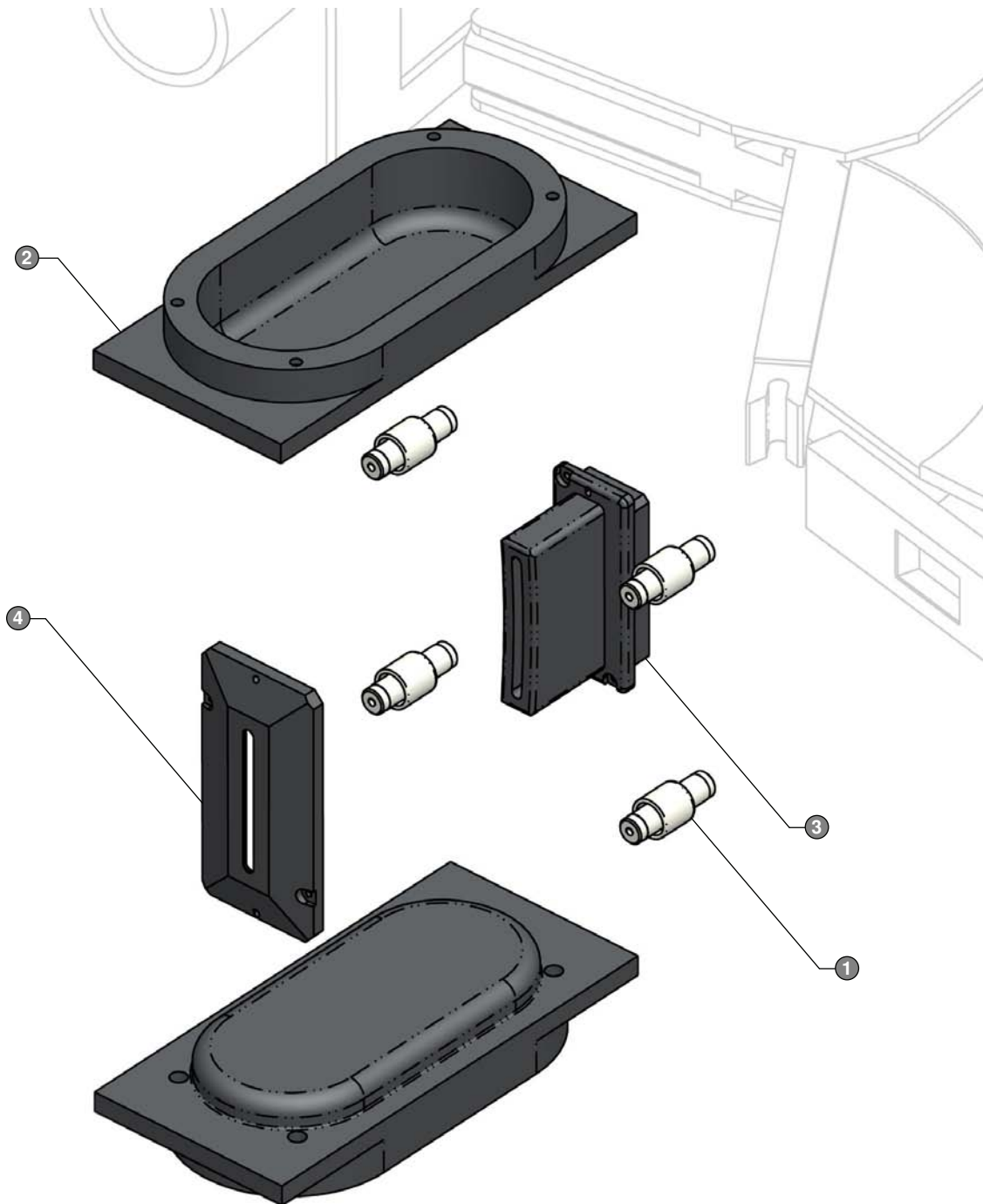
Item	P/N	Description	OEM	QTY
1	52120	Thermocouple Mounting Bracket	No Reference	2
2	52122	Spring Retainer	No Reference	2
3	52123	Spring Retainer Screw	No Reference	4
4	52124	Manifold	No Reference	1
5	52128	Standoff, 1/4 Hex X 2-3/8 Length, Male-Female, 6-32 THD	No Reference	3
6	82422	SHCS 6-32 X 1.00, 18-8 SST	6973-0002-6210	1
7	83703	QC Series Instrumentation Quick Connect Body, Key 3	No Reference	1
8	83704	QC Series Instrumentation Quick Connect Body, Key 4	No Reference	1
9	82387	SHCS 4-40 X 3/8" SST	4400004	2
10	83009V	AS-568 A UNI-.109 O-Ring Viton	E35000007	2
11	8A366	FH 6-32 X 5/16 Screw, SST	1211200605	3
12	8A808F	Dual Element Thermocouple Female	No Reference	1
13	8A808M	Dual Element Thermocouple Male	No Reference	1
14	8A814	Pan Head Screw, 2-56 X 7/8, SLOTTED, 18-8 SST	No Reference	2
15	8A815	Spring, Ø.24 OD, Ø.032 Wire, X 5/8 LG, 302, SST	No Reference	4
16	8A818	SHCS 6-32 X 2.00, 18-8 SST	No Reference	2

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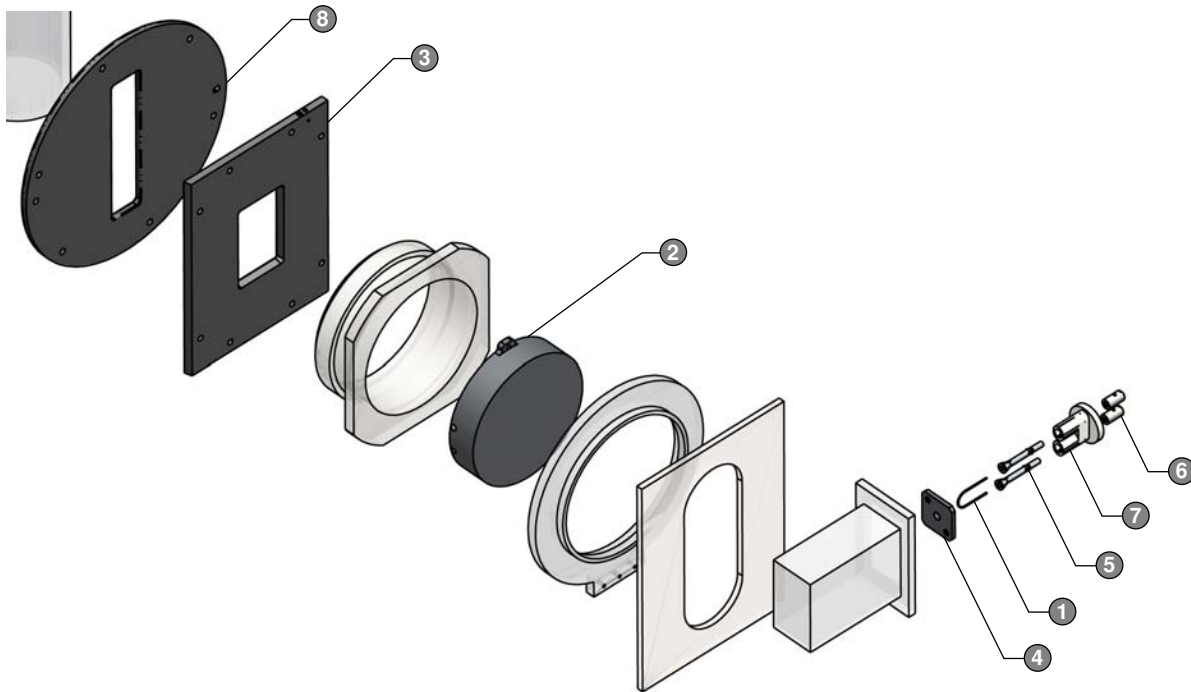
Item	P/N	Description	OEM	QTY
1	52113	Column, Vaporizer	No Reference	1
2	52121	Thermocouple Support Column	No Reference	1
3	52126	Gasket, Indium, Reflective Column	No Reference	1
4	82734	SHCS 8-32 x 3/8 Vented 18-8SST	E47000291	4
5	8A747	SHCS, 4-40 X 3/4, SST	No Reference	2
6	52130-S1	Vaporizer Sub-Assembly	No Reference	1

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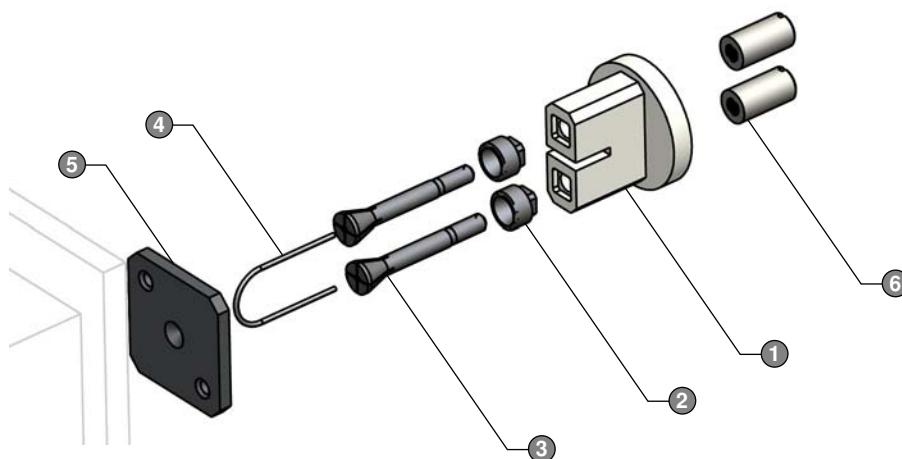
Item	P/N	Description	OEM	QTY
1	52063	Manipulator, 60Kv Insulator	E17091850	4
2	55310	Source Magnet Pole Cover, Graphite	No Reference	2
3	55406	Ground Electrode, Graphite	E17135550	1
4	55407	Suppression Electrode, Graphite	No Reference	1

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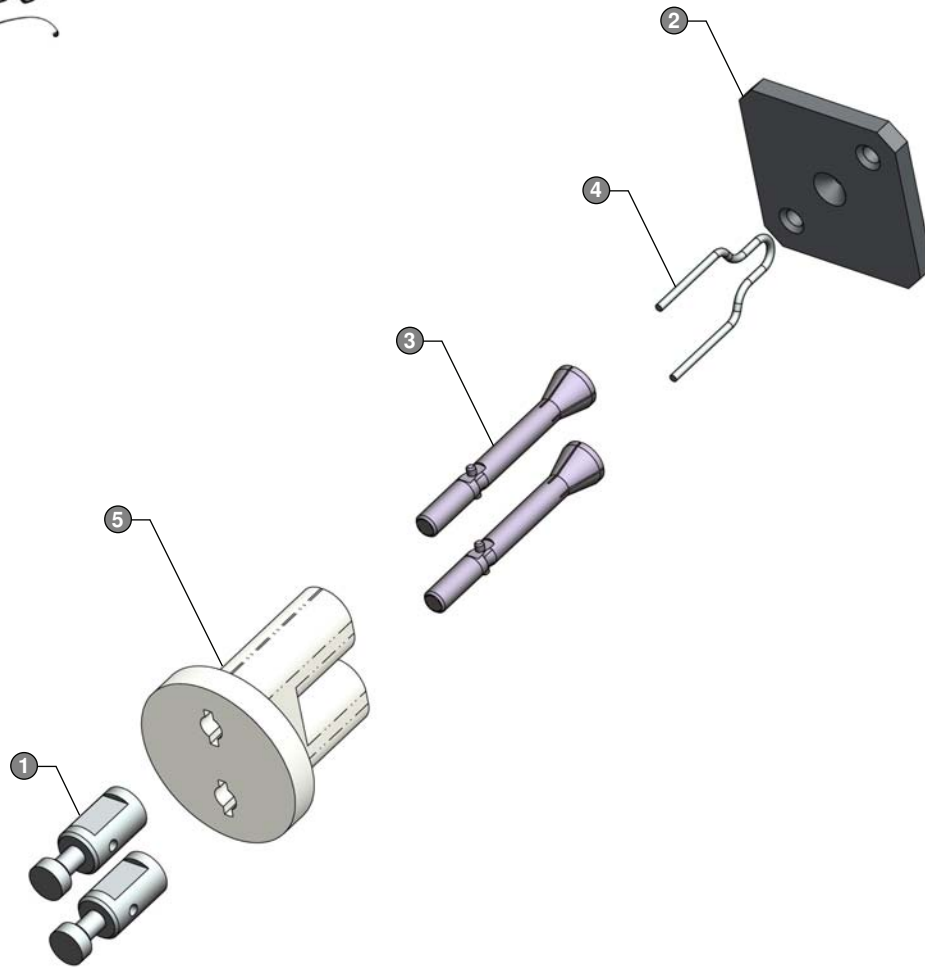
Item	P/N	Description	OEM	QTY
1	52069	PFG Filament	No Reference	1
2	52133	Insert, Beam Dump, Graphite	E17070014	1
3	52134	Beam Dump Aperture	E17094553	1
4	55264	PFG Aperture	E17225962	1
5	55275	PFG Filament Clamp	E17270590	2
6	55276	Nut, Filament Clamp	E17058140	2
7	55307	PFG Filament Insulator	E17270580	1
8	55403	Electrode HV Accel, Graphite, No Coating	E17120550	1

Alternate Plasma Flood Assembly Components



Item	P/N	Description	OEM	QTY
1	52065	Filament Insulator, PFG	E17042000	1
2	52066	PFG Clamp Sleeve	E17042040	2
3	52067	Filament Clamp, Plasma	E17042050	2
4	52069	PFG Filament	E17041850	1
5	55264	PFG Aperture, Graphite	E17225962	1
6	55276	Nut, Filament Clamp	E17058140	2

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Item	P/N	Description	OEM	QTY
1	52068	PFG Clamp Nut	E17042060	2
2	55264	PFG Aperture, Graphite	E17225962	1
3	55275	PFG Filament Clamp	E17270590	2
4	52279	PFG Filament, .050 DIA	E17909460	1
5	55307	PFG Filament Insulator	E17270580	1

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