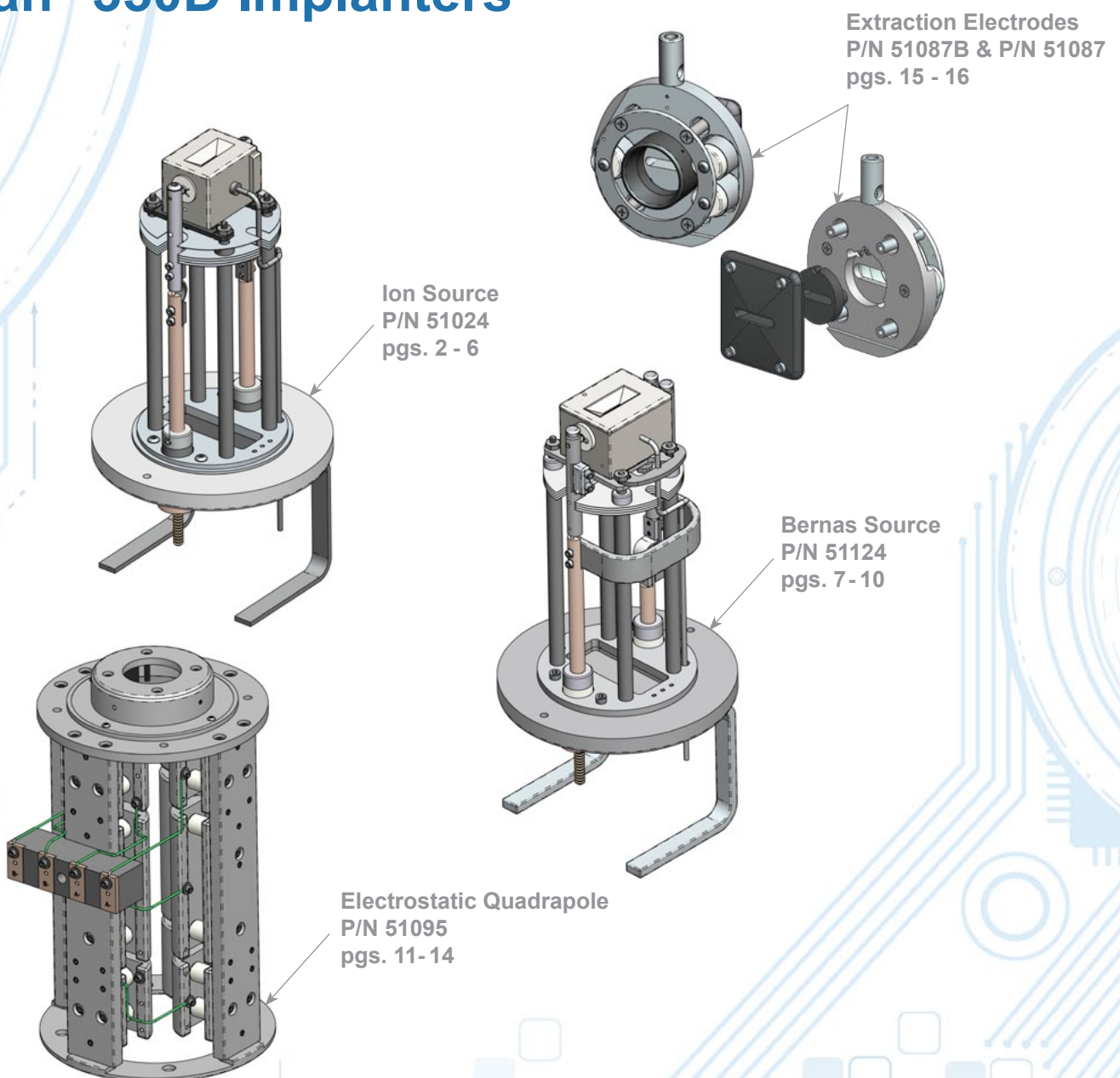




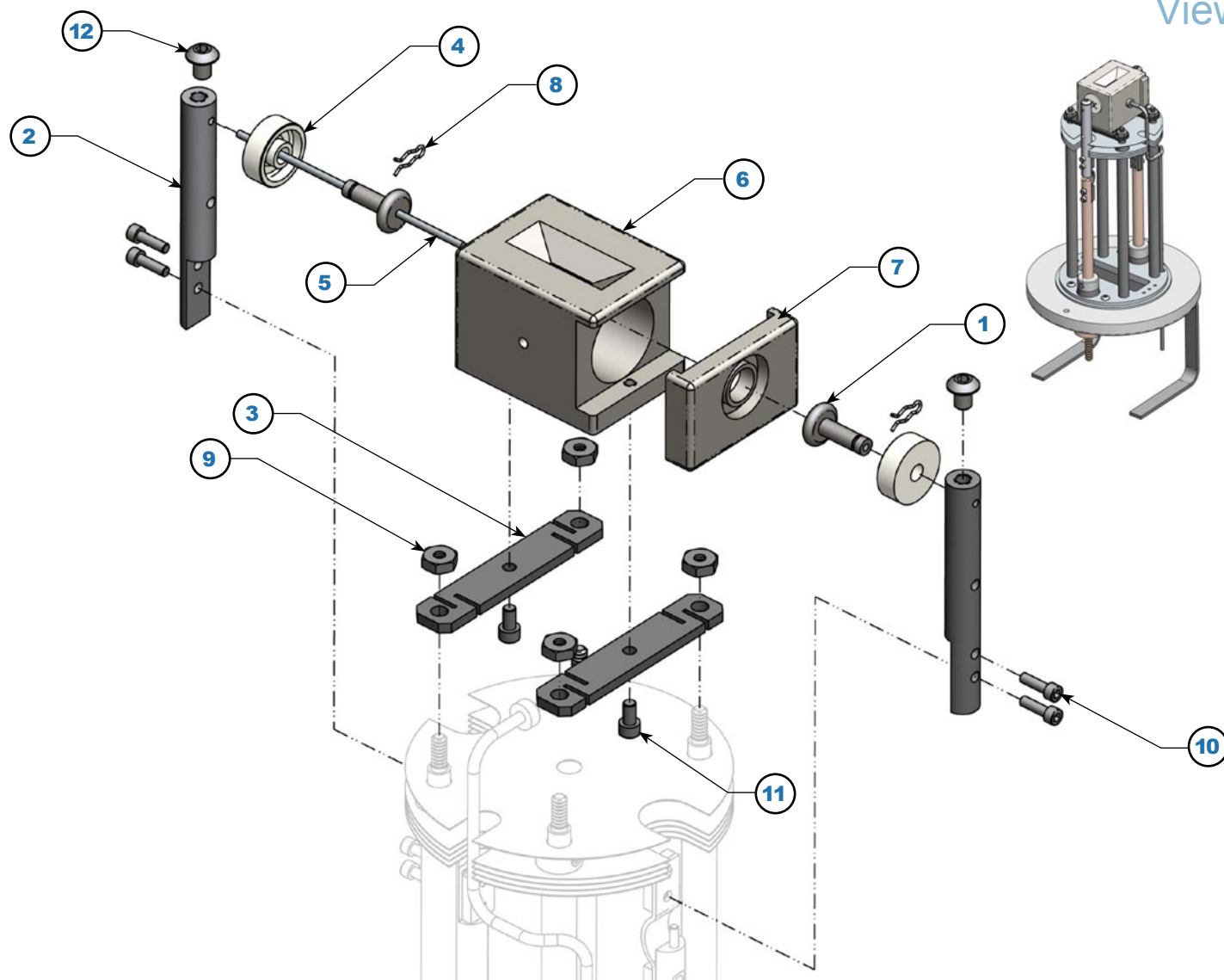
A Resource for Semiconductor Manufacturers

Illustrated Parts Guide for **Varian® 350D Implanters**



Ion Source - P/N 51024

View 1

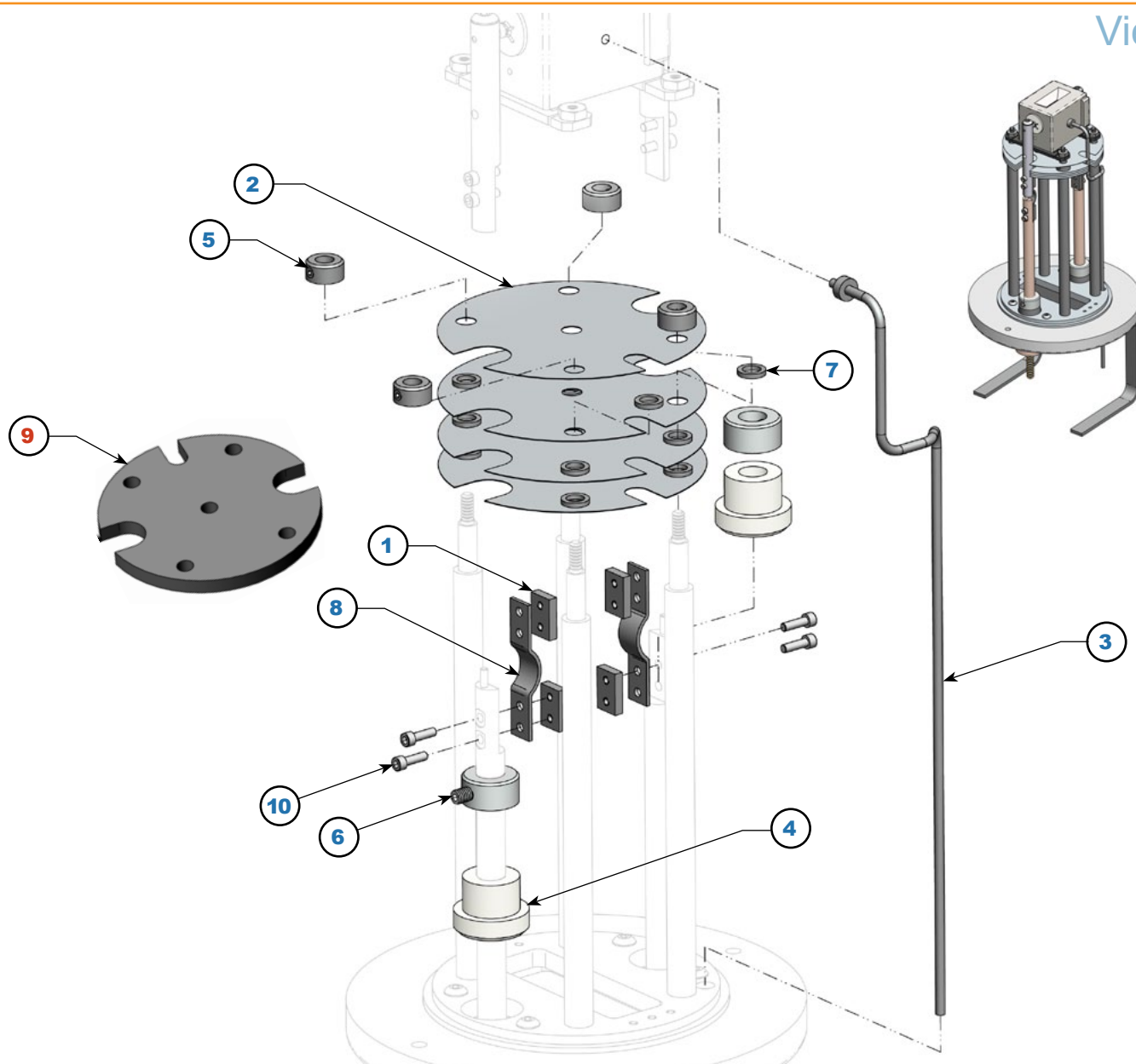


Item	P/N	Description	OEMs	Qty
1	51002	Insulator Insert	A 1200 8488	2
2	51015	Filament Connector	F5393001	2
3	51026	Arc Chamber Support Plate	A 1200 7140	2
4	51032	Filament Insulator, Alumina	A 1200 8883	2
5	51033	Filament	C 1200 7136	1
6	51035	Arc Chamber	C 1200 9352	1
7	51036	Arc Chamber Endcap	C 1200 9351	1
8	51037	Hairpin Clip, Tantalum	C 1200 9192	2
9	82298	Nut, 8-32 Hex, 18-8 SST	1312200800	4
10	82387	SHCS, 4-40 X 3/8" SST	4400004	4
11	82412	SHCS, 6-32 X 1/4", SST 18-8	4400216	2
12	82639	BHSS, 10-32 X 1/4", SST	E47000056	2

* Glemco offers improvements, modifications, or alternatives to standard OEM replacement components as indicated in red throughout this guide.

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View 2

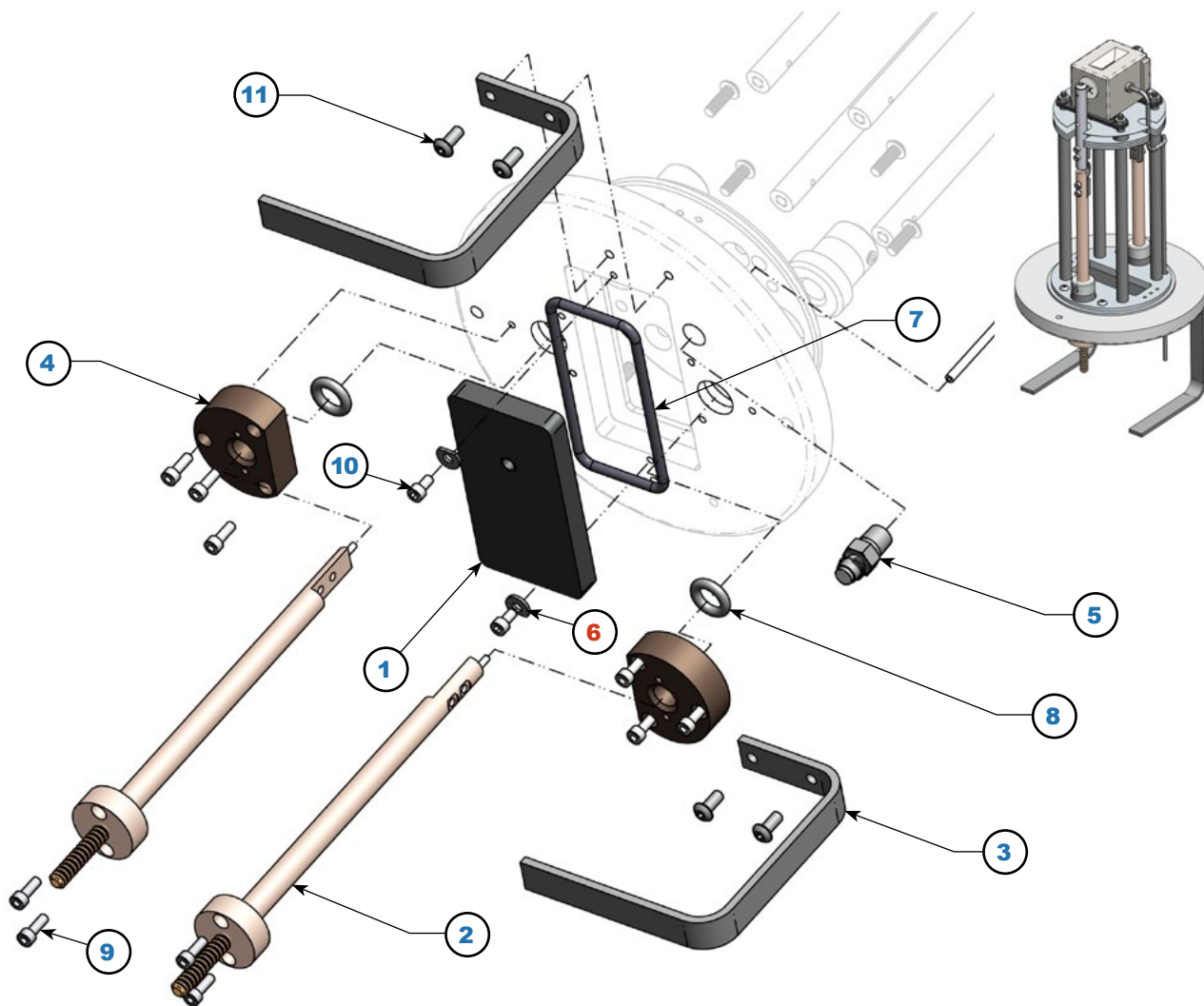


Item	P/N	Description	OEMs	Qty
1	51003	Clamp	A 1200 7155	4
2	51017	Heat Shield	B 1200 7145	5
3	51018	Gas Feed Tube	B 1200 8494	1
4	51021	Seal Bearing	B 1200 7142	2
5	51022	1/4" ID Collar	255 3062	4
6	51023	3/8" ID Collar	255 3074	2
7	51027	1/4" ID Shaft Spacer	255 3024	12
8	51040	Silver Connector Strap, Set	E17060530	2
9	51052	1 Piece Graphite Heat Shield	No OEM Reference	
10	82387	SHCS, 4-40 X 3/8", SST	4400004	4

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View 3

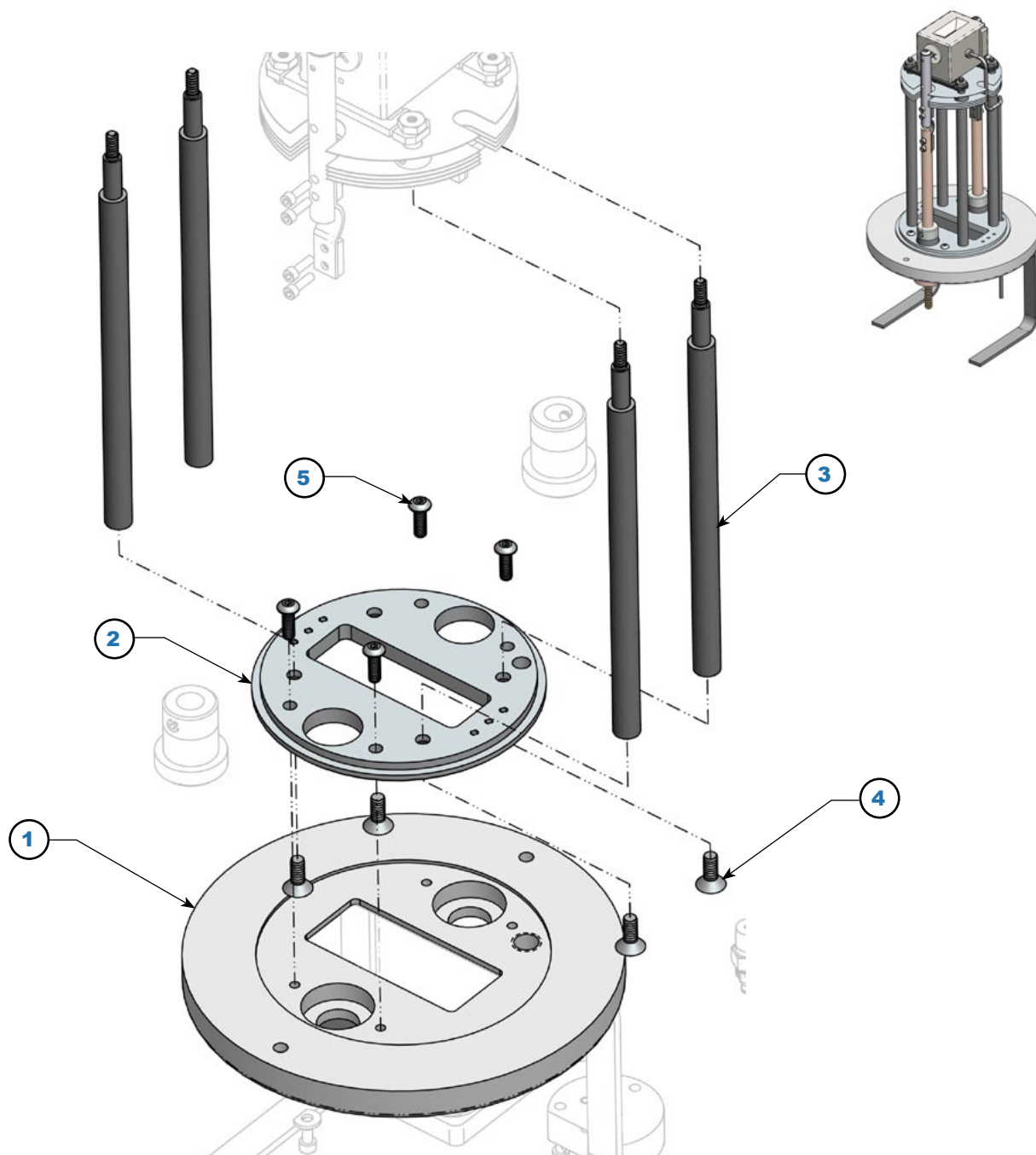


Item	P/N	Description	OEMs	Qty
1	51013	Back Plate Insert	B 1200 8500	1
2	51014	Filament Feed Rod	B 1200 8485	2
3	51019	Source Handle	B 1200 7144	2
4	51020	Compression Collar	A 1200 7142	2
5	51043	1/8" Fitting, SST	No OEM Reference	1
6	51069	Washer, #6, Flat, Modified, SST	No OEM Reference	2
7	82212	O-Ring, -229, Buna N	No OEM Reference	1
8	82214	O-Ring, -204, Buna N	2542204	2
9	82411	SHCS, 6-32 X 3/8", SST	E47000017	10
10	82412	SHCS, 6-32 X 1/4", SST 18-8	E47000016	2
11	82639	BHSS, 10-32 X 1/4", SST	E47000056	4

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View 4

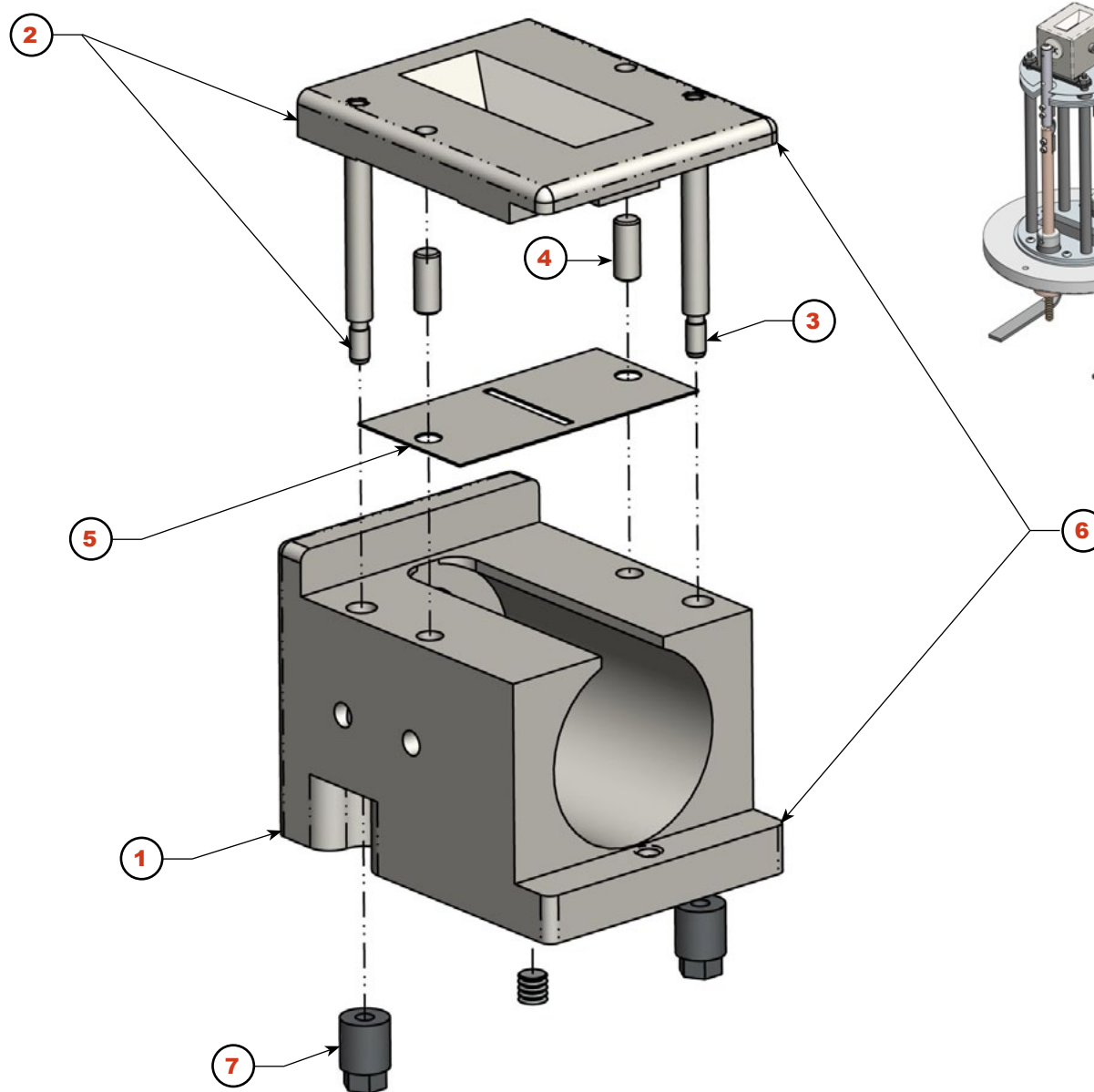


Item	P/N	Description	OEMs	Qty
1	51011	Back Plate	D1200 8495A	1
2	51012	Support Plate	C 1200 8493S	1
3	51016	Support Tube	C 1200 7149	4
4	82594	FHSS, 10-32 x 1/2", 18-8 SST	E47000062	4
5	82633	BHSS, 8-32 X 1/2" Long, 18-8 SST	4400042	4

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Optional Arc Chamber Components

51050

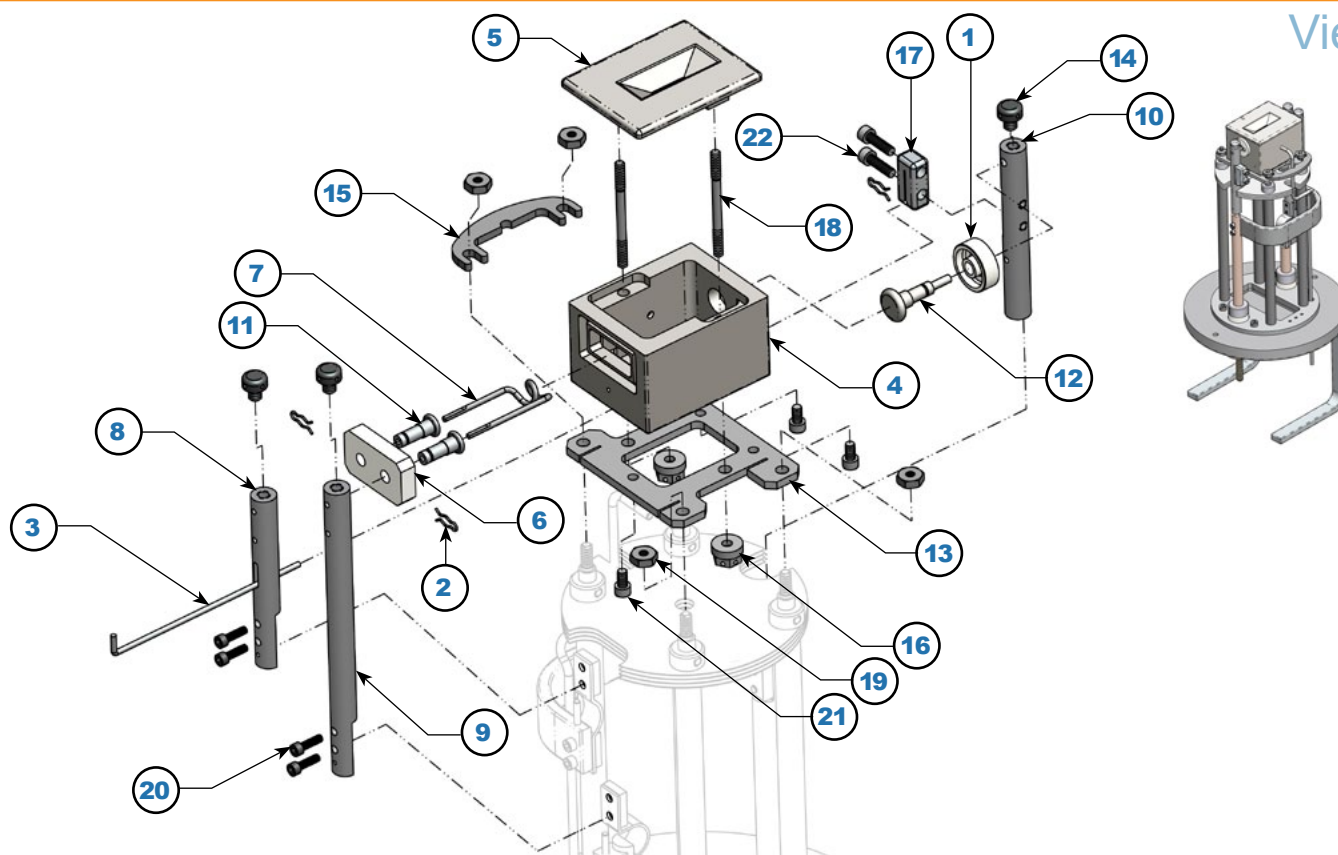


Item	P/N	Description	OEMs	Qty
1	51009	3 Piece Varian Arc Chamber Assembly	No OEM Reference	1
2	51010	3 Piece Arc Chamber, Top Plate	No OEM Reference	1
3	51047	3 Piece Stud	No OEM Reference	2
4	51048	3 Piece Arc Chamber Alignment Pin	No OEM Reference	2
5	51049	3 Piece Arc Chamber Aperture	No OEM Reference	1
6	51050	3 Piece Arc Chamber, Complete	No OEM Reference	1
7	51051	Graphite Nut	No OEM Reference	2

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Bernas Source - P/N 51124

View 1

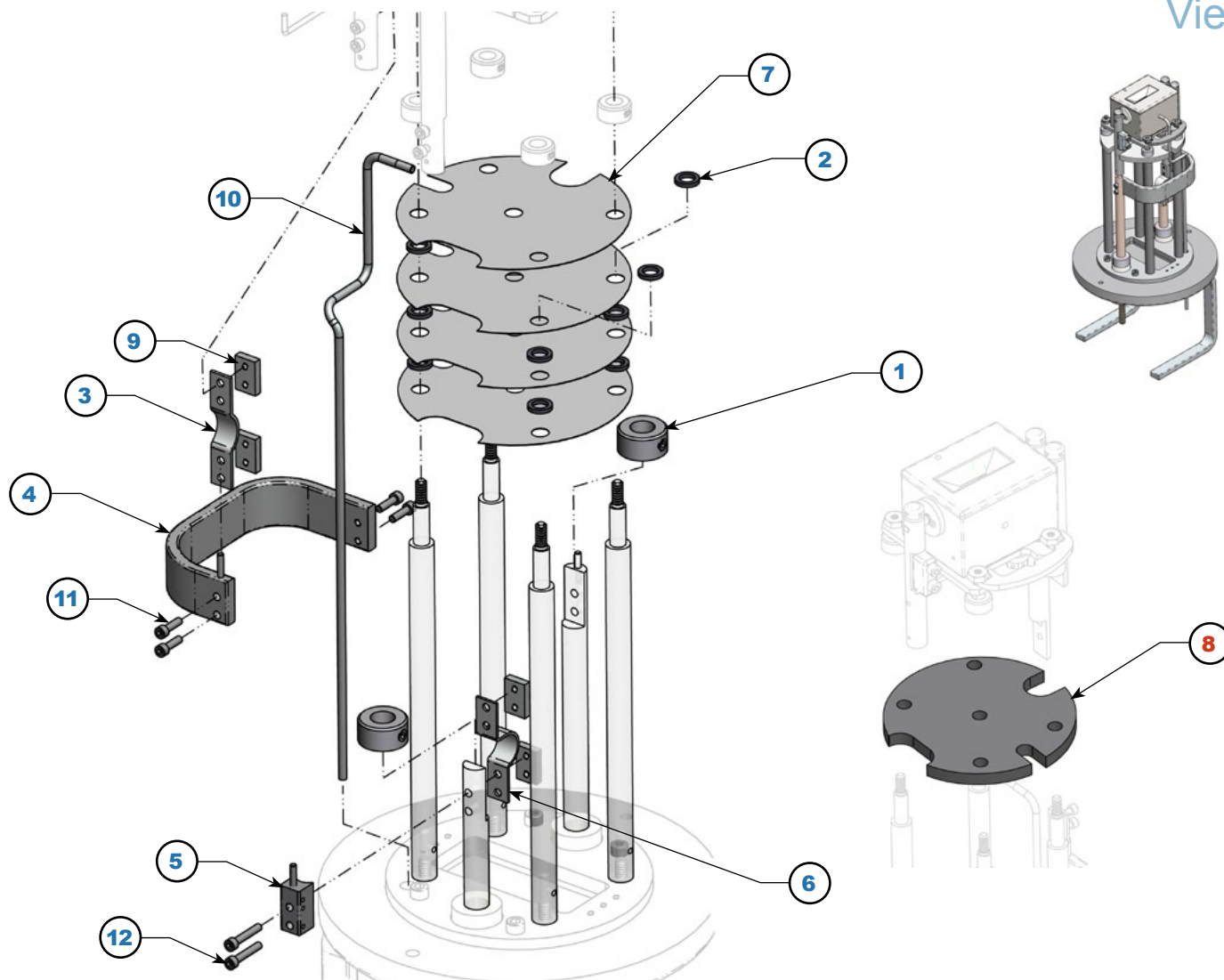


Item	P/N	Description	OEMs	Qty
1	51032	Filament Insulator, Alumina	A 1200 8883	1
2	51037	Hairpin Clip, Tantalum	A 1200 9192	3
3	51039	Clamping Pin	E17061680	1
4	51044	Arc Chamber Base, 300XP Bernas, Molybdenum	E17061740	1
5	51045	Arc Chamber Cover, 300XP Bernas, Molybdenum	E17061750	1
6	51075	Filament Insulator, Alumina	E17060520	1
7	51076	Pigtail Filament	E17061180	1
8	51130	Filament Connector Rod, Short	E17060460	1
9	51131	Filament Connector Rod, Long	E17060461	1
10	51132	Repeller Rod Connector	E17060510	1
11	51134M	Insulator Insert, Molybdenum	E17061110	2
12	51135	Repeller	E17060540	1
13	51136	Arc Chamber Mounting Stage	E17061690	1
14	51137	Connector Rod Screw	No OEM Reference	3
15	51140	Gas Feed Retainer	E17060770	1
16	51141	Arc Chamber Nut	E17075400	2
17	51144	Clamp	E17061670	1
18	52003	Arc Chamber Top Plate Retaining Stud	EGHVIT6192	2
19	82298	Nut, 8-32 Hex, SST	4400029	4
20	82387	SHCS, 4-40 X 3/8", SST	4400004	4
21	82412	SHCS, 6-32 X 1/4", SST	4400216	3
22	82415	SHCS, Socket Head Cap Screw, 6-32 X 1/2", SST	1231200608, E47000018	2

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Bernas Source - P/N 51124

View 2

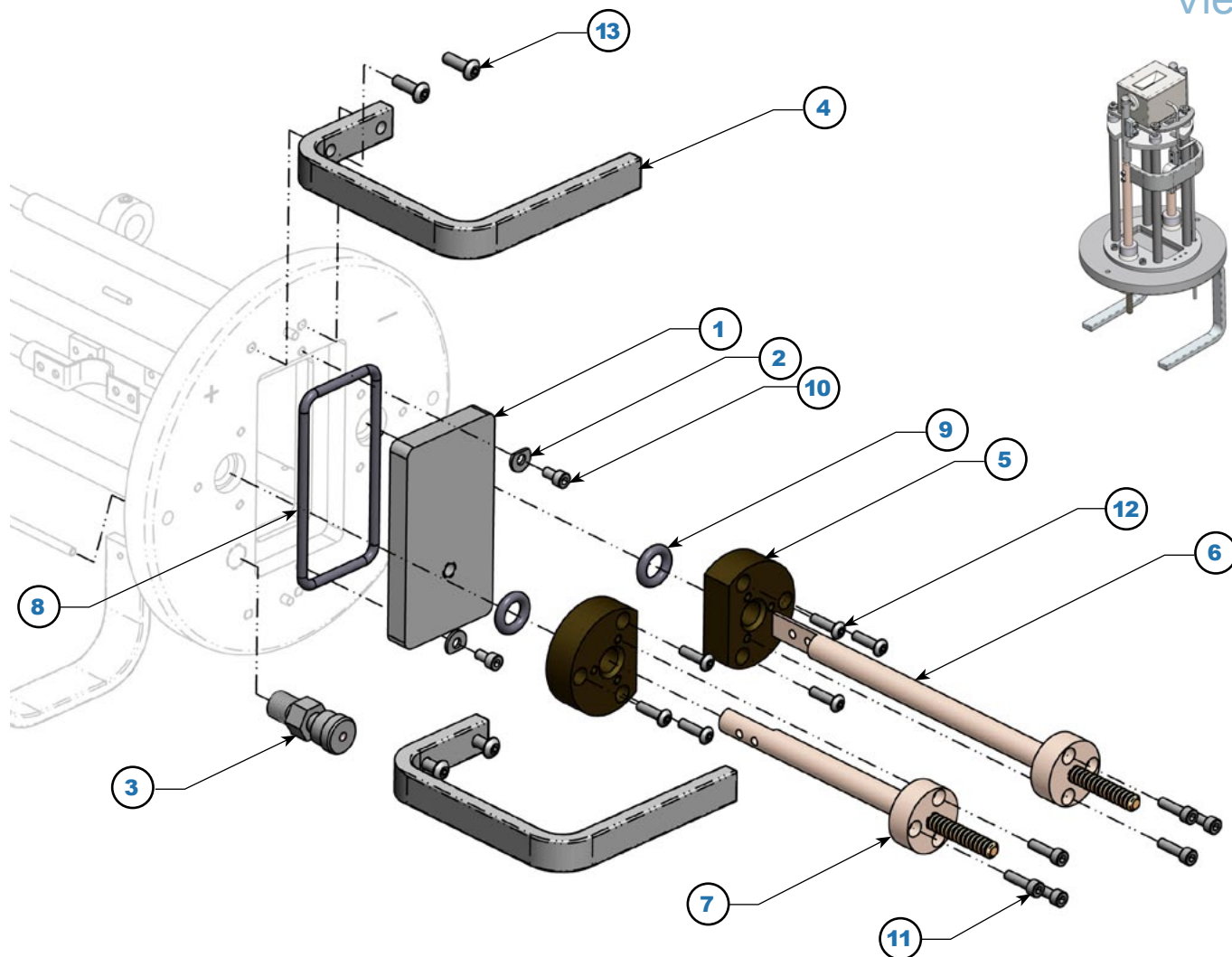


Item	P/N	Description	OEMs	Qty
1	51023	3/8" ID Collar	255 3074	2
2	51027	1/4" ID Shaft Spacer	255 3024	12
3	51040	Silver Connector Strap Set	7159001	1
4	51139	Filament Connector Buss	E17060470	1
5	51142	Connector Alignment Block	E17061190	1
6	51143	Silver Connector Strap	E17061360	1
7	51147	Heat Shield	E17060760	4
8	51147A	1 Piece Heat Shield, Graphite	No OEM Reference	1
9	51150	Clamp	E17060550	4
10	51151	Gas Feed Tube	E17061080	1
11	82387	SHCS, 4-40 X 3/8", SST	4400004	4
12	82390	SHCS, 4-40 X 5/8", SST	4400219	2

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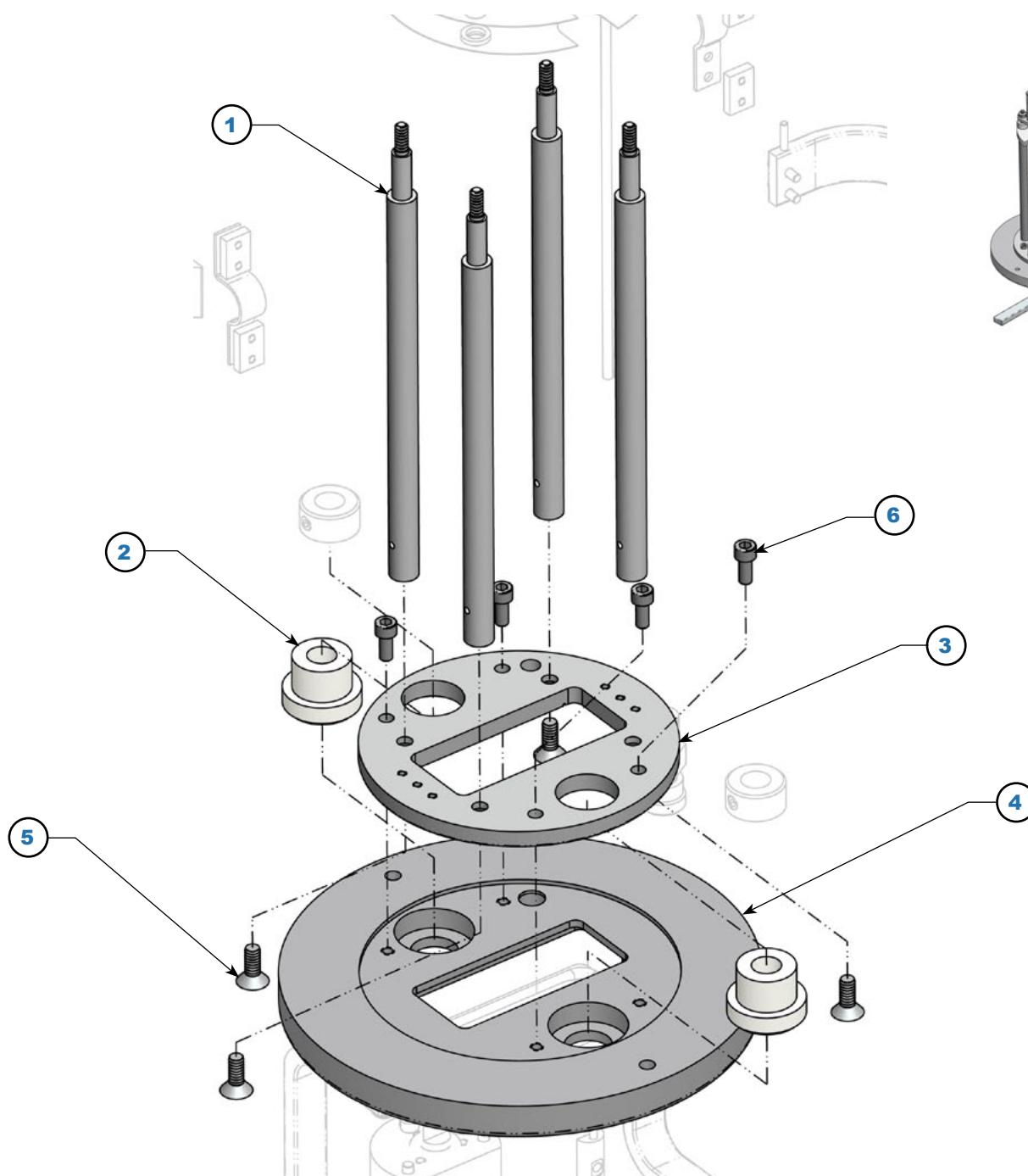
Bernas Source - P/N 51124

View 3



Item	P/N	Description	OEMs	Qty
1	51013	Back Plate Insert	B 1200 8500	1
2	51069	Washer, #6, Flat, Modified, SST	No OEM Reference	2
3	51128	Ultra Torr Male Connector Fit, 1/8,	No OEM Reference	1
4	51133	Source Handle	07144001	2
5	51138	Compression Collar	No OEM Reference	2
6	51145	Negative Filament Feed Rod	No OEM Reference	1
7	51146	Positive Filament Feed Rod	No OEM Reference	1
8	82212	O-Ring, -229, Buna-N	No OEM Reference	1
9	82214	O-Ring, -204, Nitrile	2542204	2
10	82412	SHCS, 6-32 X 1/4", SST 18-8	4400216	2
11	82415	SHCS, Socket Head Cap Screw, 6-32 X 1/2", SST	1231200608, E47000018	6
12	82629	BHSS, 6-32 X 1/2", SST	1236200608, 4400431	6
13	82633	BHSS, 8-32 X 1/2" Long, 18-8 SST	4400042	4

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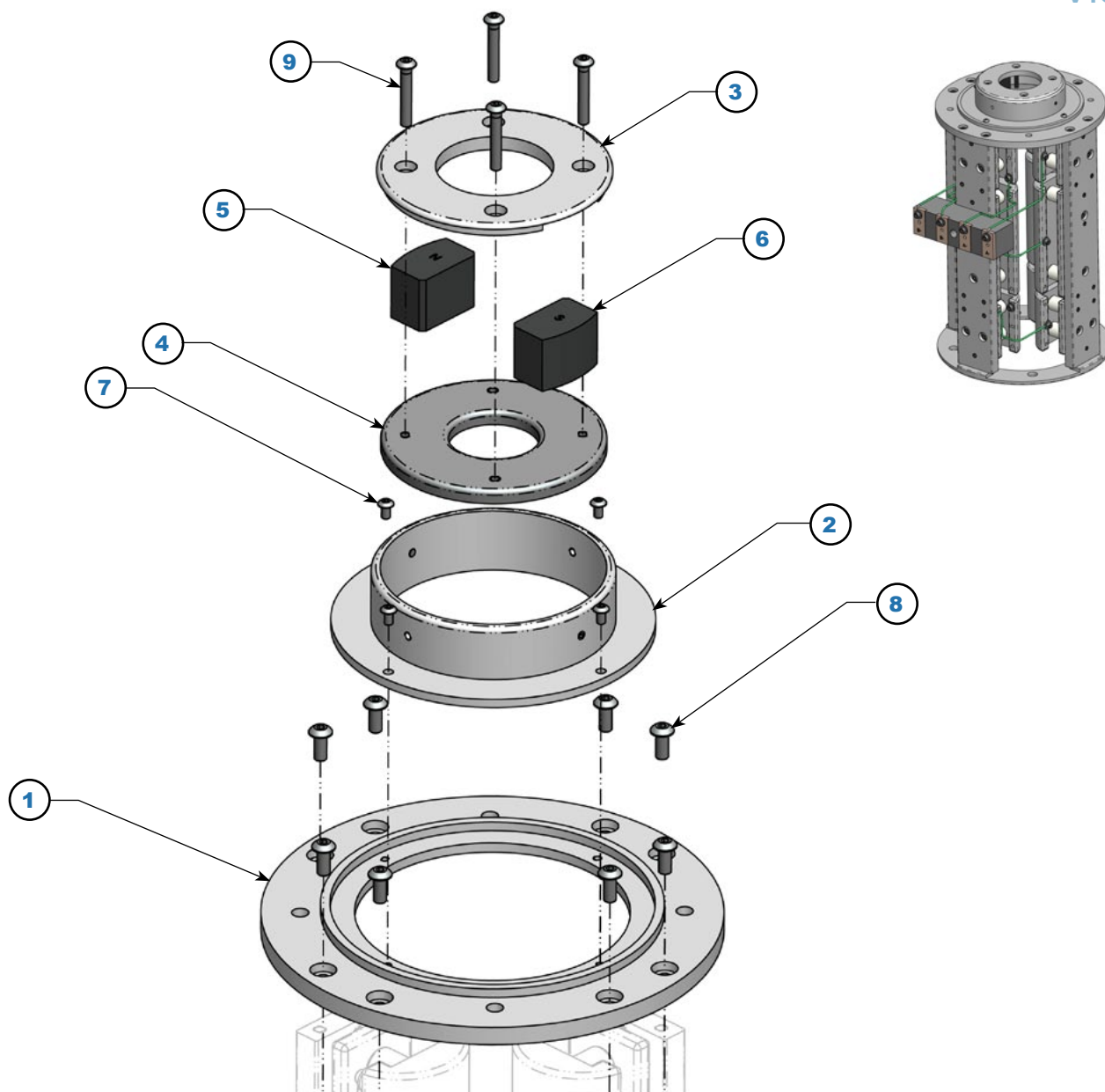


Item	P/N	Description	OEMs	Qty
1	51016	Support Tube	C 1200 7149	4
2	51021	Seal Bearing, Teflon	B 1200 7142	2
3	51148	Support Plate, Aluminum	No Reference	1
4	51149	Back Plate, Aluminum	No Reference	1
5	82594	FHSS, 10-32 x 1/2", 18-8 SST	E47000062	4
6	82734	SHCS, Vented, 8-32 x 3/8", 18-8 SST	E47000291	4

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Electrostatic Quadrapole Assembly - P/N 51095

View 1



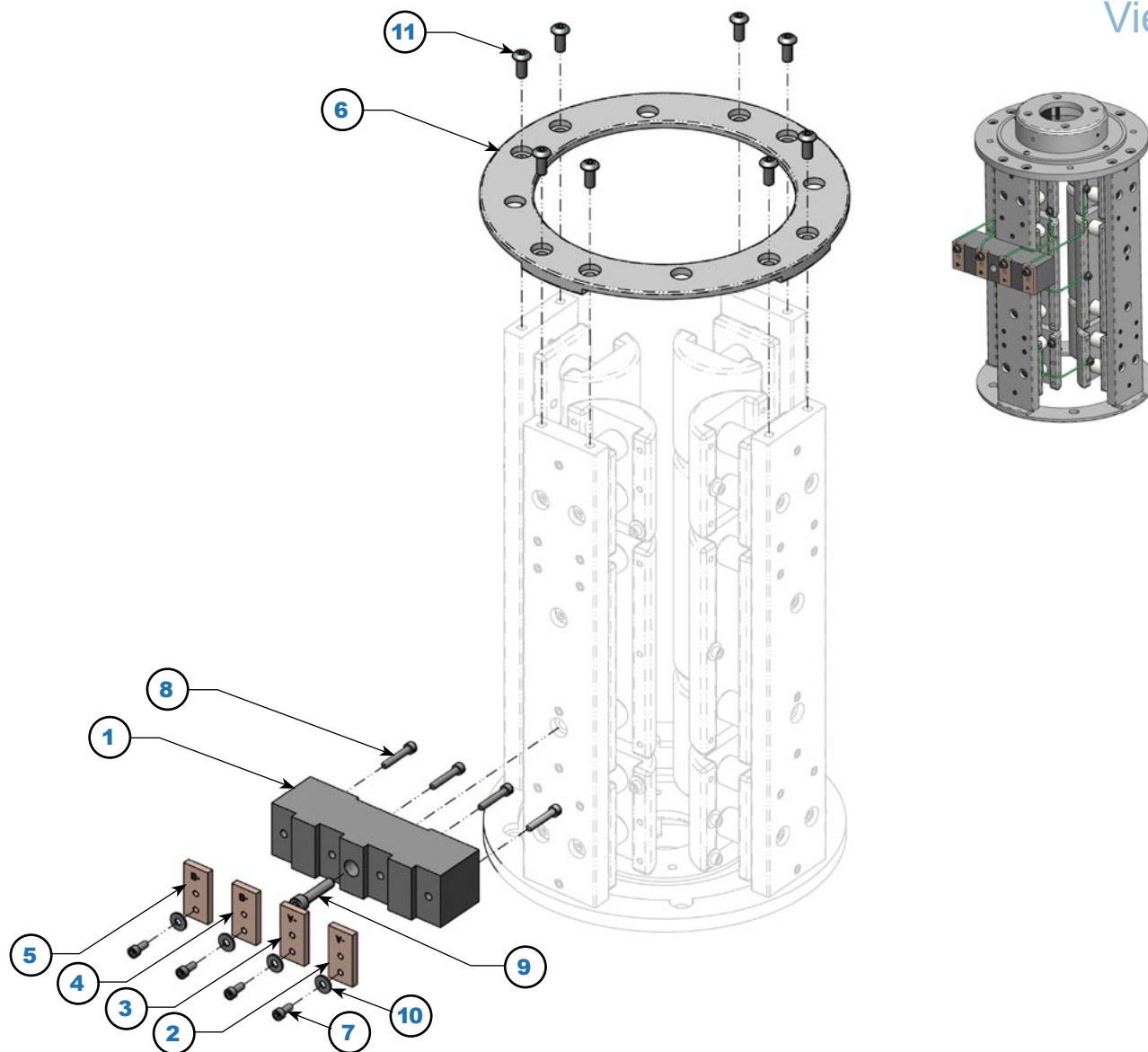
Item	P/N	Description	OEMs	Qty
1	51096	Top Quadrapole Ring	C04345001	1
2	51097	Magnet Housing	C04111001	1
3	51098	Top Magnet Retainer	A02968001	1
4	51099	Bottom Magnet Retainer	A04816001	1
5	51100-1	Magnet, North Pole	B02964002	1
6	51100-2	Magnet, South Pole	B02964001	1
7	82623	BHSS, 4-40 X 3/16", SST	1236200404	4
8	82631	BHSS, 8-32 X 3/8", SST	4400183	8
9	82638	BHSS, 6-32 X 7/8", SST	1236200614	4

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Electrostatic Quadrapole Assembly - P/N 51095

View 2



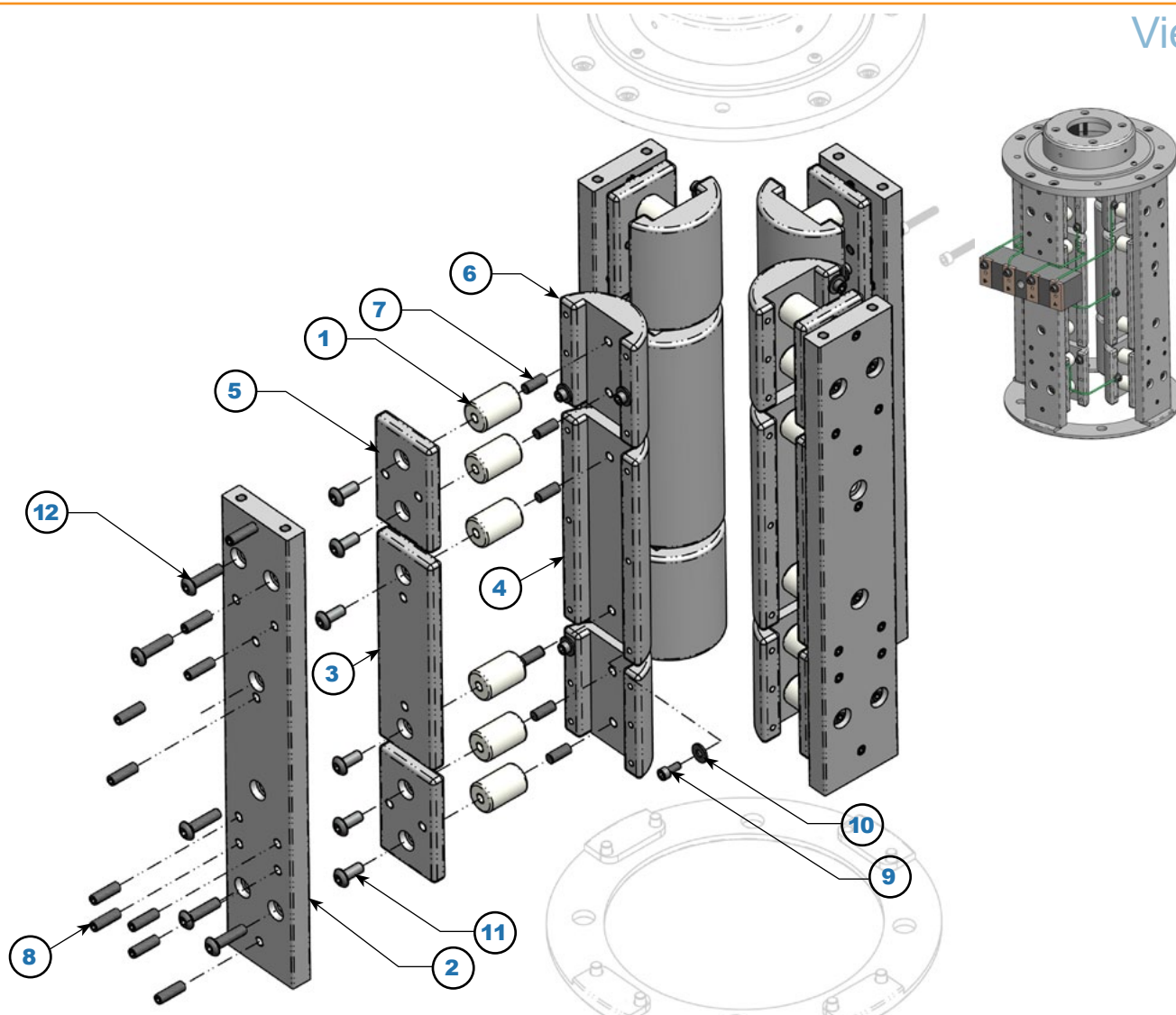
Item	P/N	Description	OEMs	Qty
1	51106-1	Connector Base	No OEM Reference	1
2	51106-2A0	Terminal Plate	A04119001	1
3	51106-2A1	Terminal Plate	A04119001	1
4	51106-2B0	Terminal Plate	A04119001	1
5	51106-2B1	Terminal Plate	A04119001	1
6	51107	Quadrapole, Bottom Ring	No OEM Reference	1
7	82385	SHCS, 4-40 X 1/4", SST	1236200403	4
8	82390	SHCS, 4-40 X 5/8", SST	1236200812	4
9	82431	SHCS, 8-32 X 3/4", SST	1236200620	1
10	82455	Washer, #4 Flat, .032 Thick, SST	1412200400	4
11	82631	BHSS, 8-32 X 3/8", SST	4400183	8

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Electrostatic Quadrapole Assembly - P/N 51095

View 3



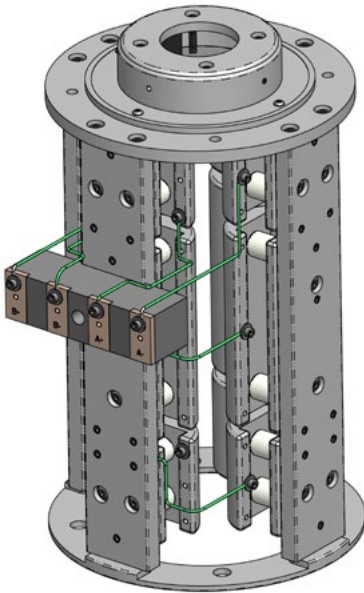
Item	P/N	Description	OEMs	Qty
1	51065	Ceramic Standoff 1/2 X 3/4L	2866008	24
2	51101	Support Bar	No OEM Reference	4
3	51102	Long Pole Level	No OEM Reference	4
4	51103	Long Pole Piece	B04886001	4
5	51104	Short Pole Level	No OEM Reference	8
6	51105	Short Pole Piece	B04799001	8
7	82126	Set Screw, 8-32 X 3/8", SST	1236200808	24
8	82127	Set Screw, 8-32 X 1/2", SST	1236200410	40
9	82385	SHCS, 4-40 X 1/4", SST	1236200403	23
10	82455	Washer, #4 Flat, .032 Thick, SST	1412200400	23
11	82631	BHSS, 8-32 X 3/8", SST	4400183	24
12	82634	BHSS, 8-32 x 5/8", SST	1236200810	24

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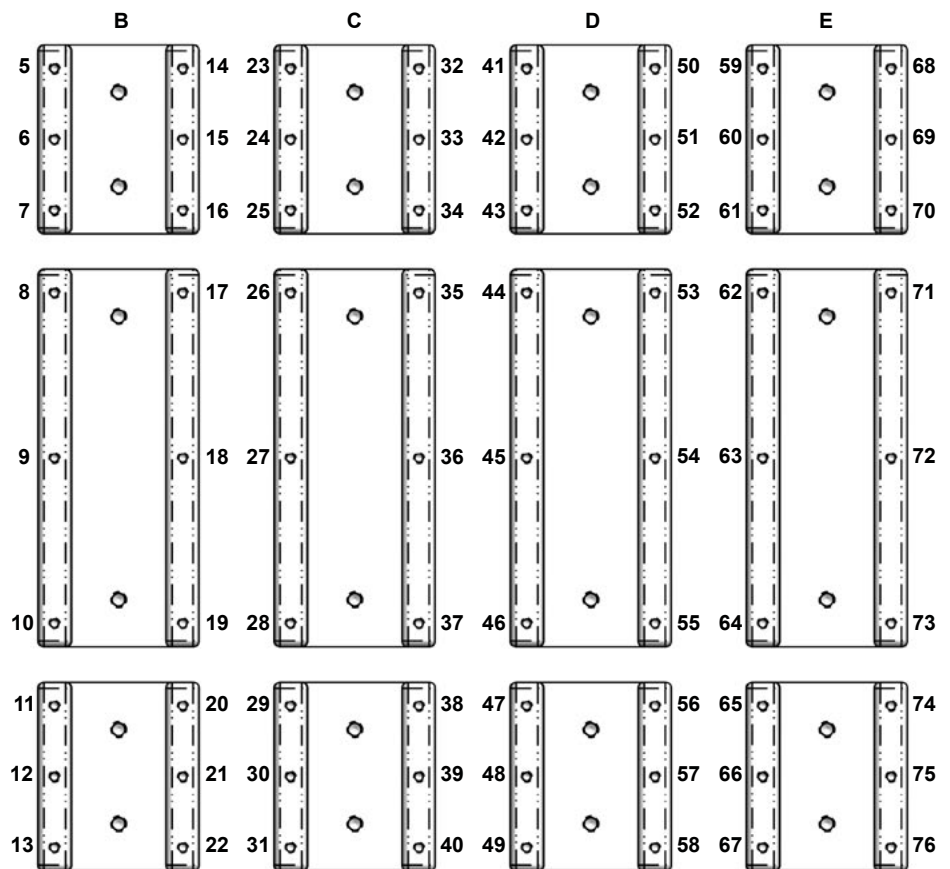
Electrostatic Quadrapole Assembly - P/N 51095

View 4



P/N 99234 - No. 20 AWG Solid Tinned Copper Wire is included with the quadrapole cleaning and refurbishment and is also available for purchase by the foot.

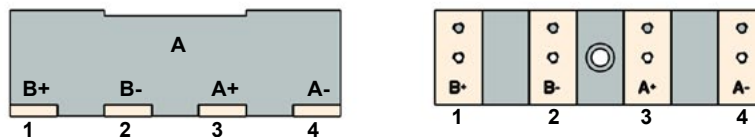
Top



Wiring Key

Long Pole Pieces		Short Pole Pieces	
B+ Circuit	B- Circuit	A+ Circuit	A- Circuit
A1 - E71	A2 - B8	A3 - B16	A4 - C24
E72 - C36	B10 - D55	B6 - D51	C23 - E68
		B16 - B20	E70 - E74
		D43 - D47	C34 - C38

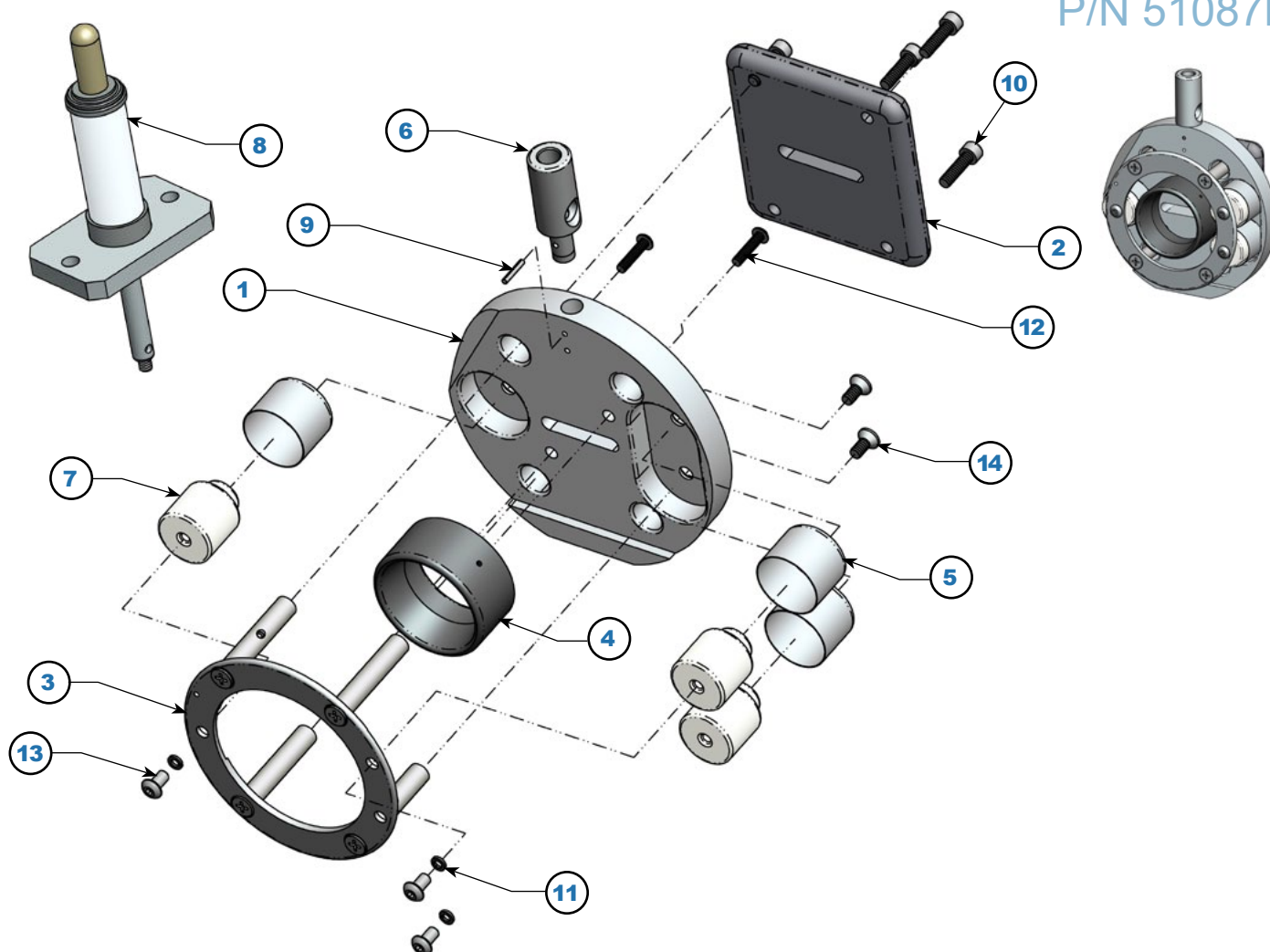
Bottom



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Standard Extraction Electrode Assembly

P/N 51087B

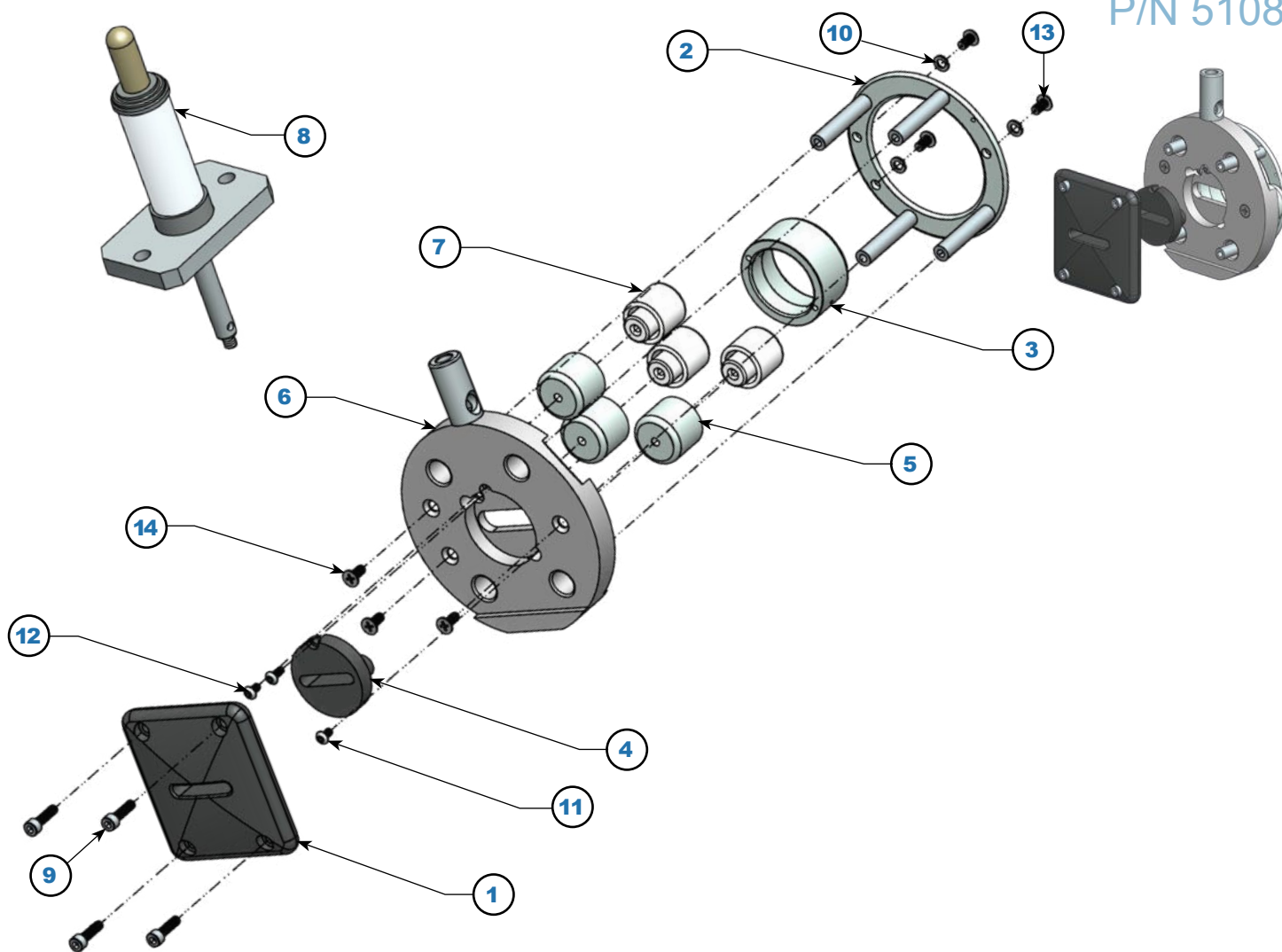


Item	P/N	Description	OEMs	Qty
1	51053	Ground Electrode, Aluminum	F5395001	1
2	51054	High Voltage Electrode	F5396001	1
3	51056	Electrode Support Assembly, SST	F5397009	1
4	51078	Ground Electrode Snout	F5398001	1
5	51082	Insulator Cup, SST	No OEM Reference	3
6	51084	Pivot Pin	A06955001	1
7	52062	Insulator Standoff, Ceramic	2865086	3
8	55122A	Feed-Thru, 300XP/350D	No OEM Reference	1
9	82002	Spring Pin, Slotted, 1/16 D X 3/8 420, SST	No OEM Reference	1
10	82415	SHCS, Socket Head Cap Screw, 6-32 X 1/2\", SST	1231200608, E47000018	4
11	82606	Washer, Lock, Split, #6, .148 ID, .250 OD, .031 Thick, SST	4400034	3
12	82621	BHSS, Button Head Socket Screw, 4-40 X 1/2\", SST	No OEM Reference	2
13	8A364	VBH, Vented Button Head Socket Screw, 6-32 X 1/4\", SST	6970-0003-6202	3
14	8A368	VFH, Vented Flat Head Phillips Screw, 6-32 X 5/16\", 82°, SST	1211200605	3

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Alternate Extraction Electrode Assembly

P/N 51087



Item	P/N	Description	OEMs	Qty
1	51054	High Voltage Electrode	F5396001	1
2	51056A	Electrode Support Assembly, Welded, SST	F5397001, F5397009	1
3	51078	Ground Electrode Snout	F5398001	1
4	51079	Extraction Aperture Insert, Graphite	F5395001	1
5	51082	Insulator Cup, SST	No OEM Reference	3
6	51087-S1	Ground Electrode Assembly	No OEM Reference	1
7	52062	Insulator Standoff, Ceramic	2865086	3
8	55122A	Feed-Thru, 300XP/350D	No OEM Reference	1
9	82415	SHCS, Socket Head Cap Screw, 6-32 X 1/2", SST	1231200608, E47000018	4
10	82606	Washer, Lock, Split, #6, .148 ID, .250 OD, .031 Thick, SST	E48000009	3
11	82623	BHSS, Button Head Socket Screw, 4-40 X 3/16", SST	1236200404	2
12	8A311	VBH, Vented Button Head Socket Screw, 4-40 X 1/4", SST	6970-0003-4202	1
13	8A364	VBH, Vented Button Head Socket Screw, 6-32 X 1/4", SST	6970-0003-6202	3
14	8A368	VFH, Vented Flat Head Phillips Screw, 6-32 X 5/16", 82°, SST	1211200605	3

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