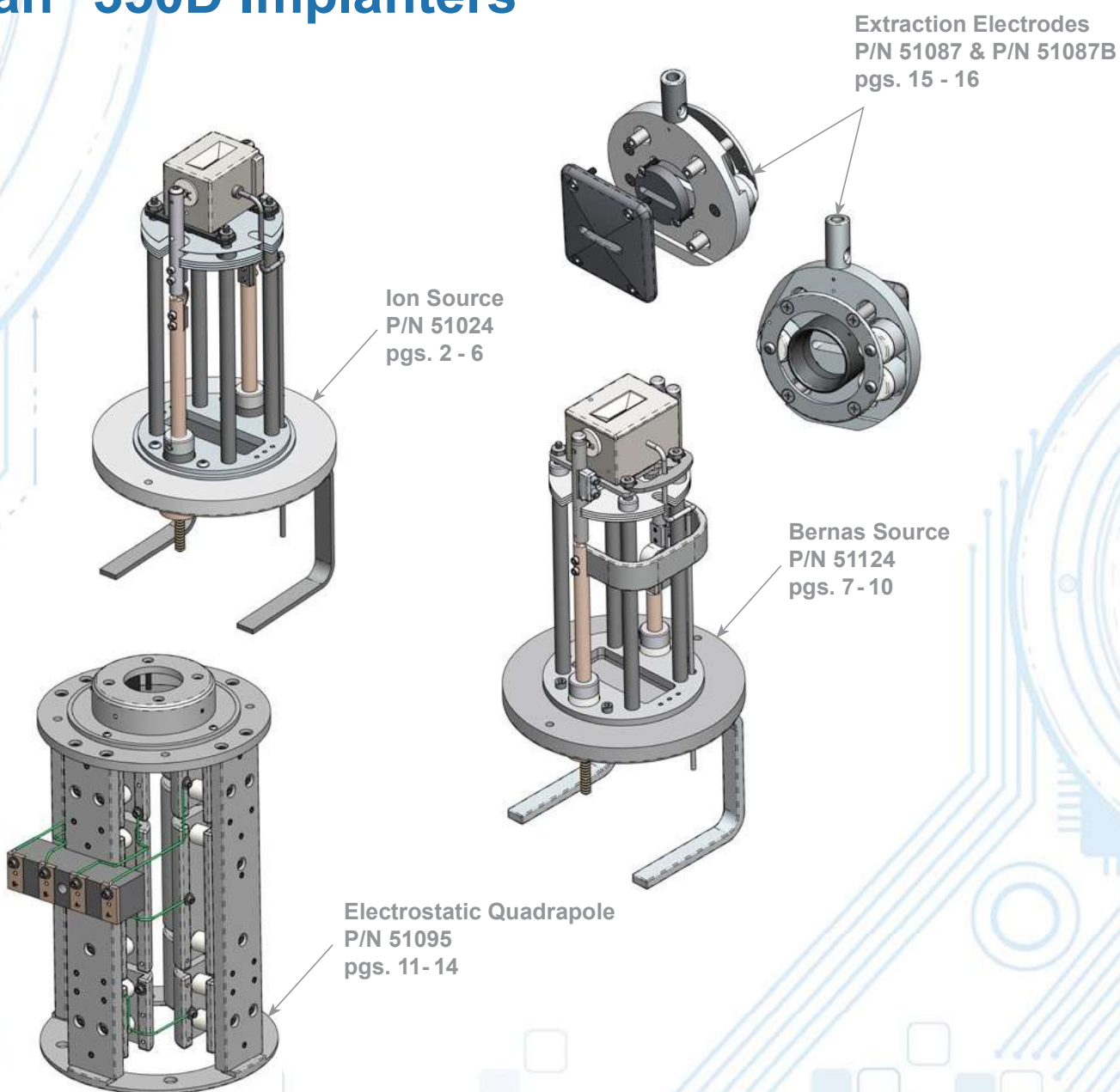




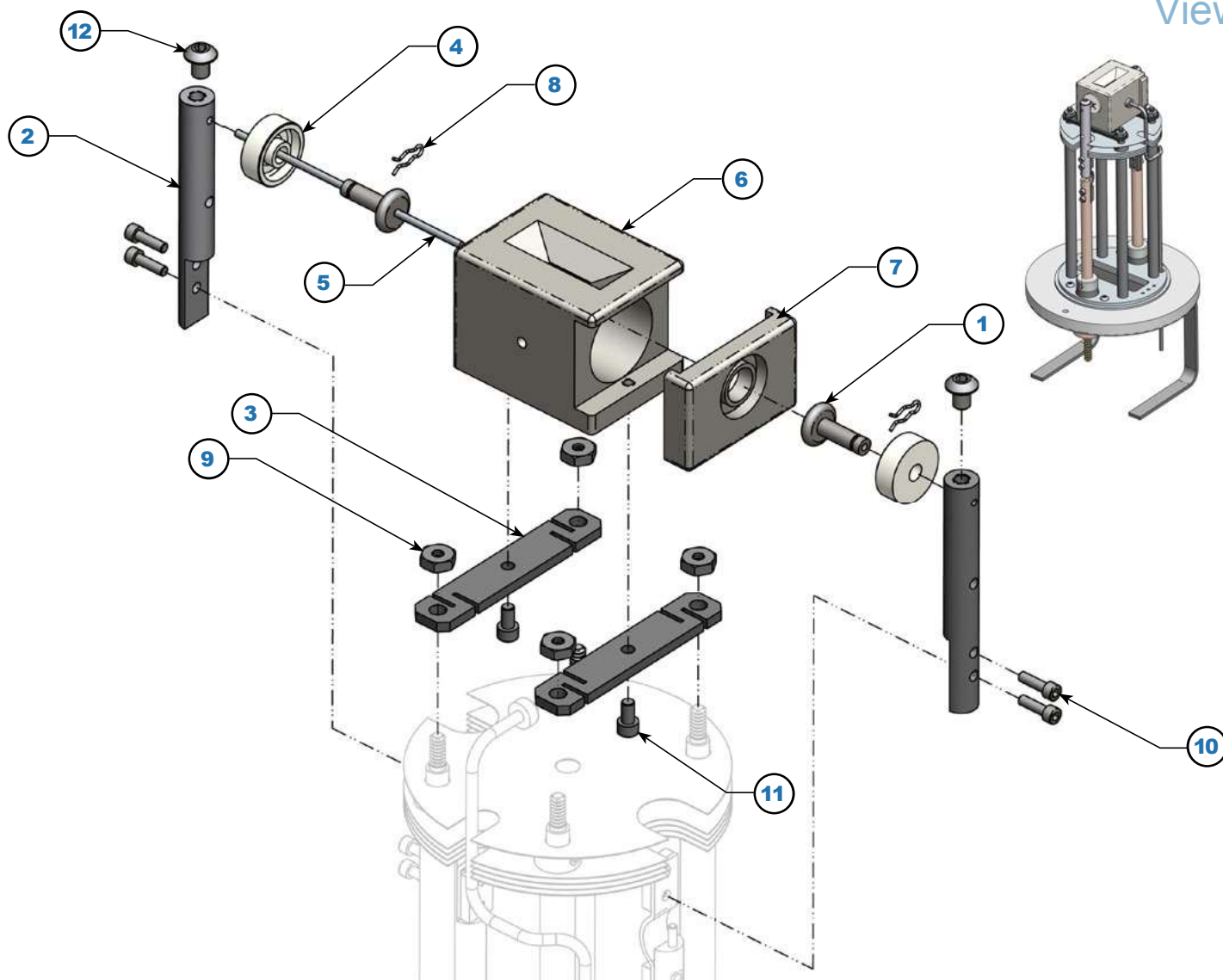
A Resource for Semiconductor Manufacturers

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



Ion Source - P/N 51024

View 1

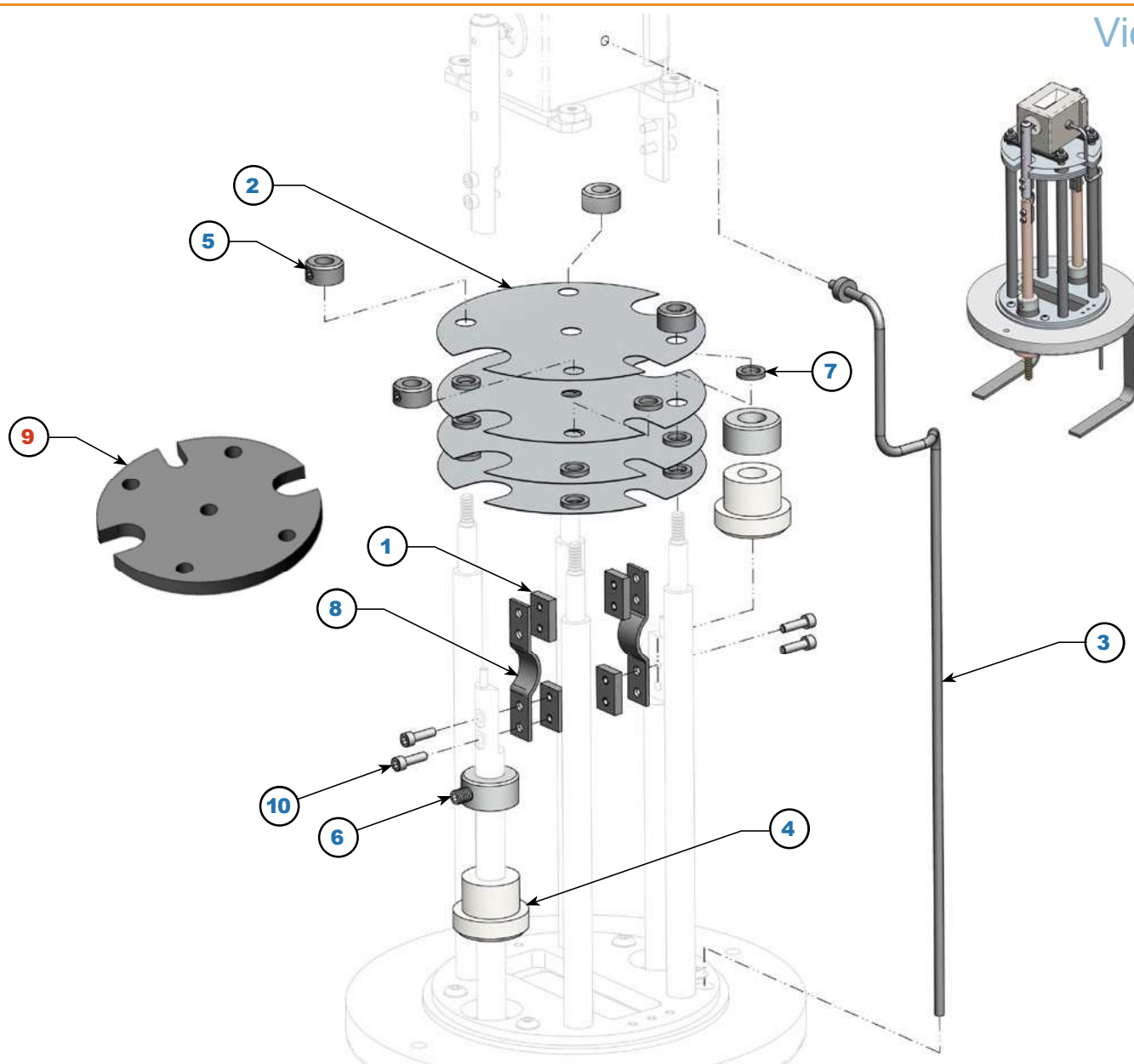


Item	P/N	Description	OEMs	Qty
1	51002	Insulator Insert	A 1200 8488	2
2	51015	Filament Connector	F5393001	2
3	51026	Arc Chamber Support Plate	A 1200 7140	2
4	51032	Filament Insulator, Alumina	A 1200 8883	2
5	51033	Filament	C 1200 7136	1
6	51035	Arc Chamber	C 1200 9352	1
7	51036	Arc Chamber Endcap	C 1200 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.

Ion Source - P/N 51024

View 2

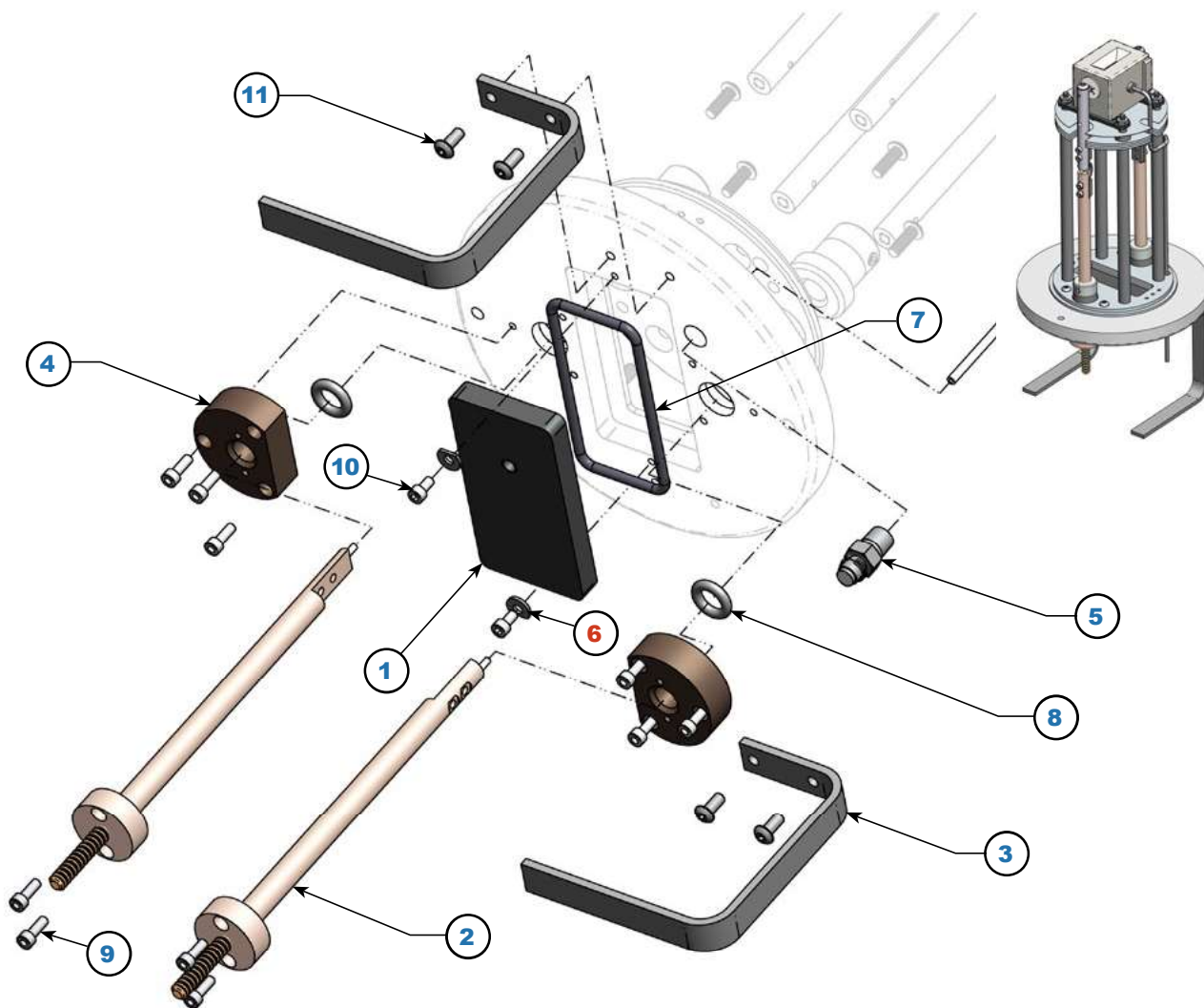


Item	P/N	Description	OEMs	Qty
1	51003	Clamp	A 1200 7155	4
2	51017	Heat Shield	B 1200 7145	5
3	51018	Gas Feed Tube	B 1200 8494	1
4	51021	Seal Bearing	B 1200 7142	2
5	51022	1/4" ID Collar	255 3062	4
6	51023	3/8" ID Collar	255 3074	2
7	51027	1/4" ID Shaft Spacer	255 3024	12
8	51040	Silver Connector Strap, 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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Ion Source - P/N 51024

View 3

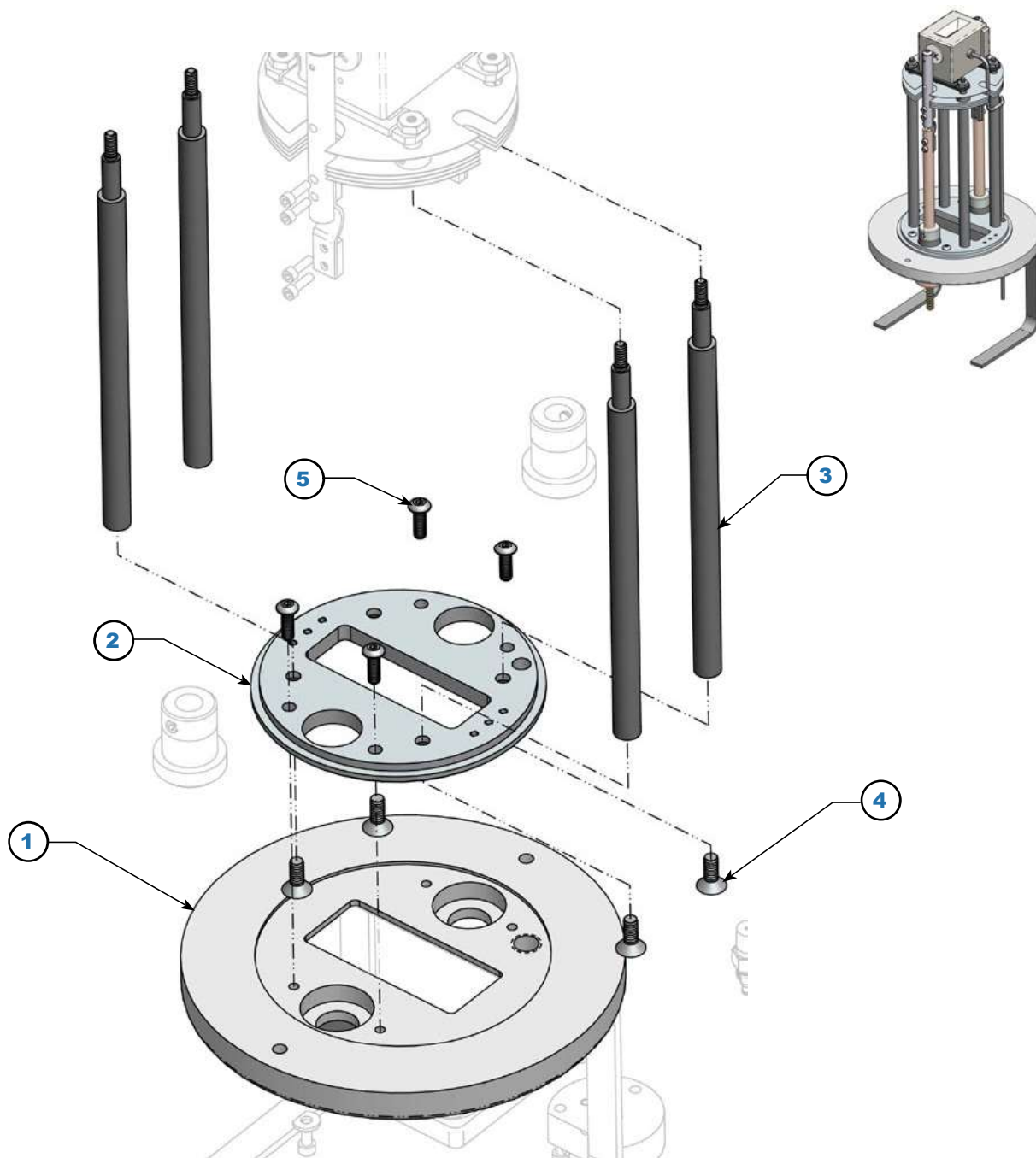


Item	P/N	Description	OEMs	Qty
1	51013	Back Plate Insert	B 1200 8500	1
2	51014	Filament Feed Rod	B 1200 8485	2
3	51019	Source Handle	B 1200 7144	2
4	51020	Compression Collar	A 1200 7142	2
5	51043	1/8" Fitting, SST	No OEM Reference	1
6	51069	Washer, #6, Flat, Modified, SST	No OEM Reference	2
7	82212	O-Ring, -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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Ion Source - P/N 51024

View 4

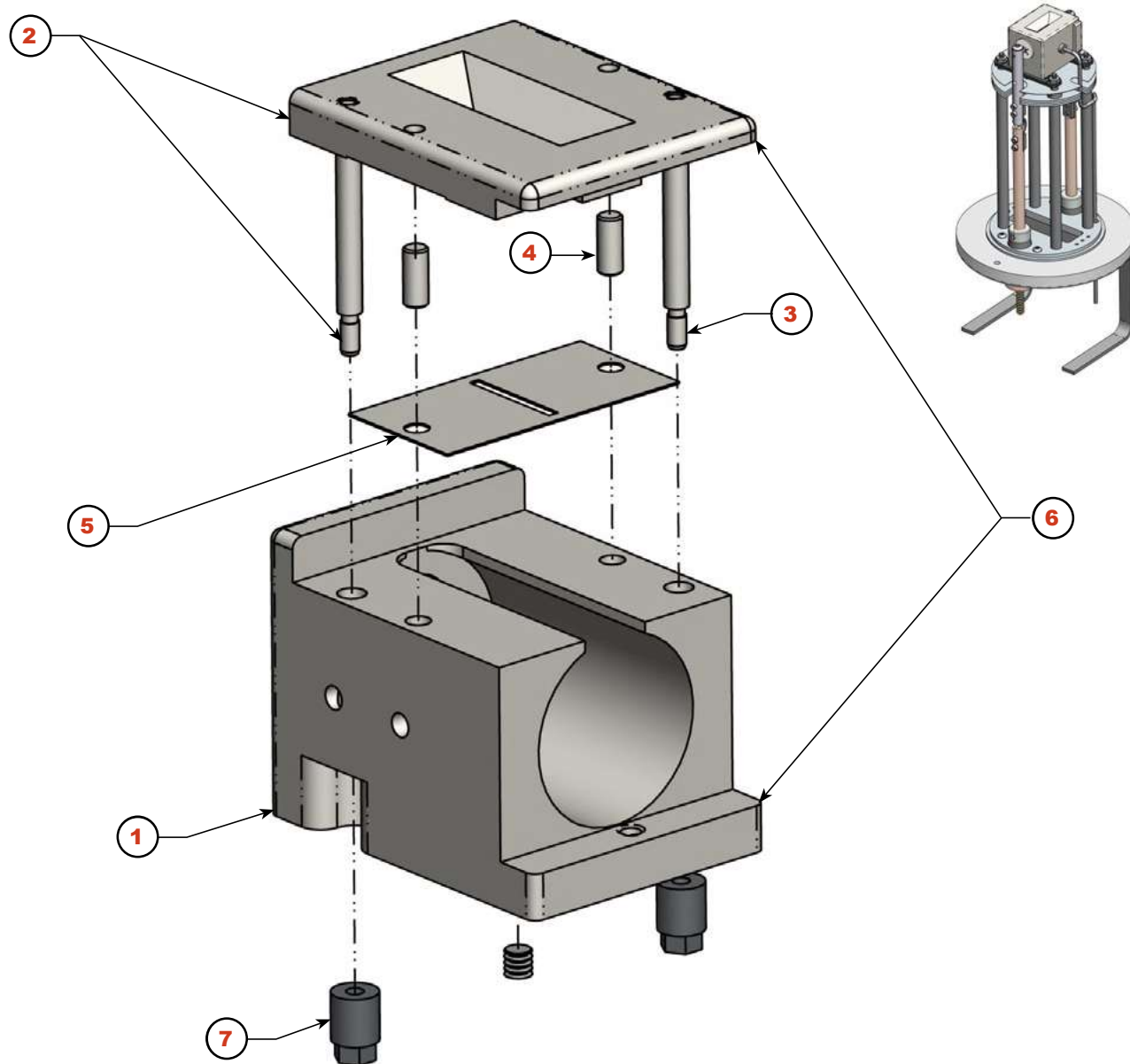


Item	P/N	Description	OEMs	Qty
1	51011	Back Plate	D1200 8495A	1
2	51012	Support Plate	C 1200 8493S	1
3	51016	Support Tube	C 1200 7149	4
4	82594	FHSS, 10-32 x 1/2", 18-8 SST	E47000062	4
5	82633	BHSS, 8-32 X 1/2" Long, 18-8 SST	4400042	4

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Optional Arc Chamber Components

51050

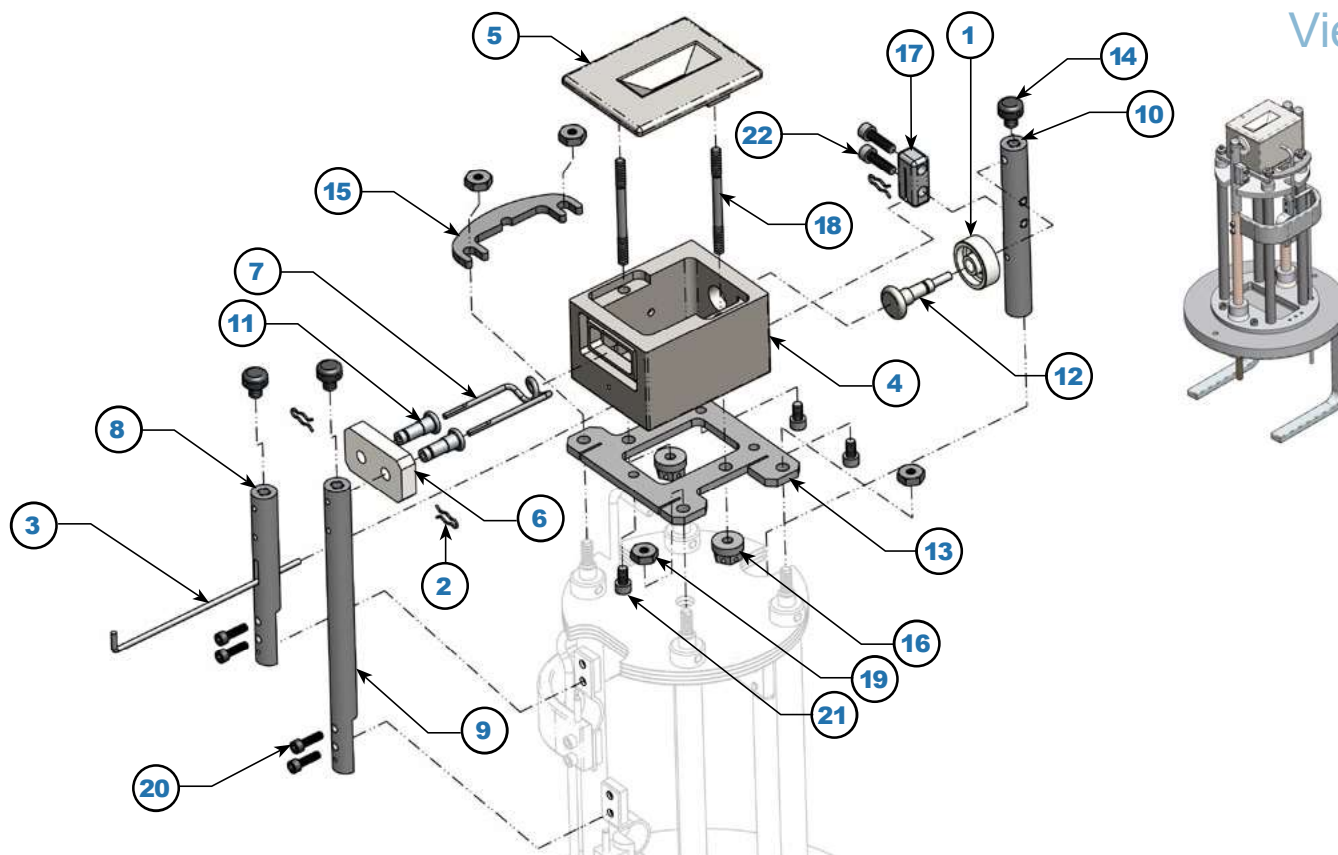


Item	P/N	Description	OEMs	Qty
1	51009	3 Piece Varian Arc Chamber Assembly	No OEM Reference	1
2	51010	3 Piece Arc Chamber, Top Plate	No OEM Reference	1
3	51047	3 Piece Stud	No OEM Reference	2
4	51048	3 Piece Arc Chamber Alignment Pin	No OEM Reference	2
5	51049	3 Piece Arc Chamber Aperture	No OEM Reference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



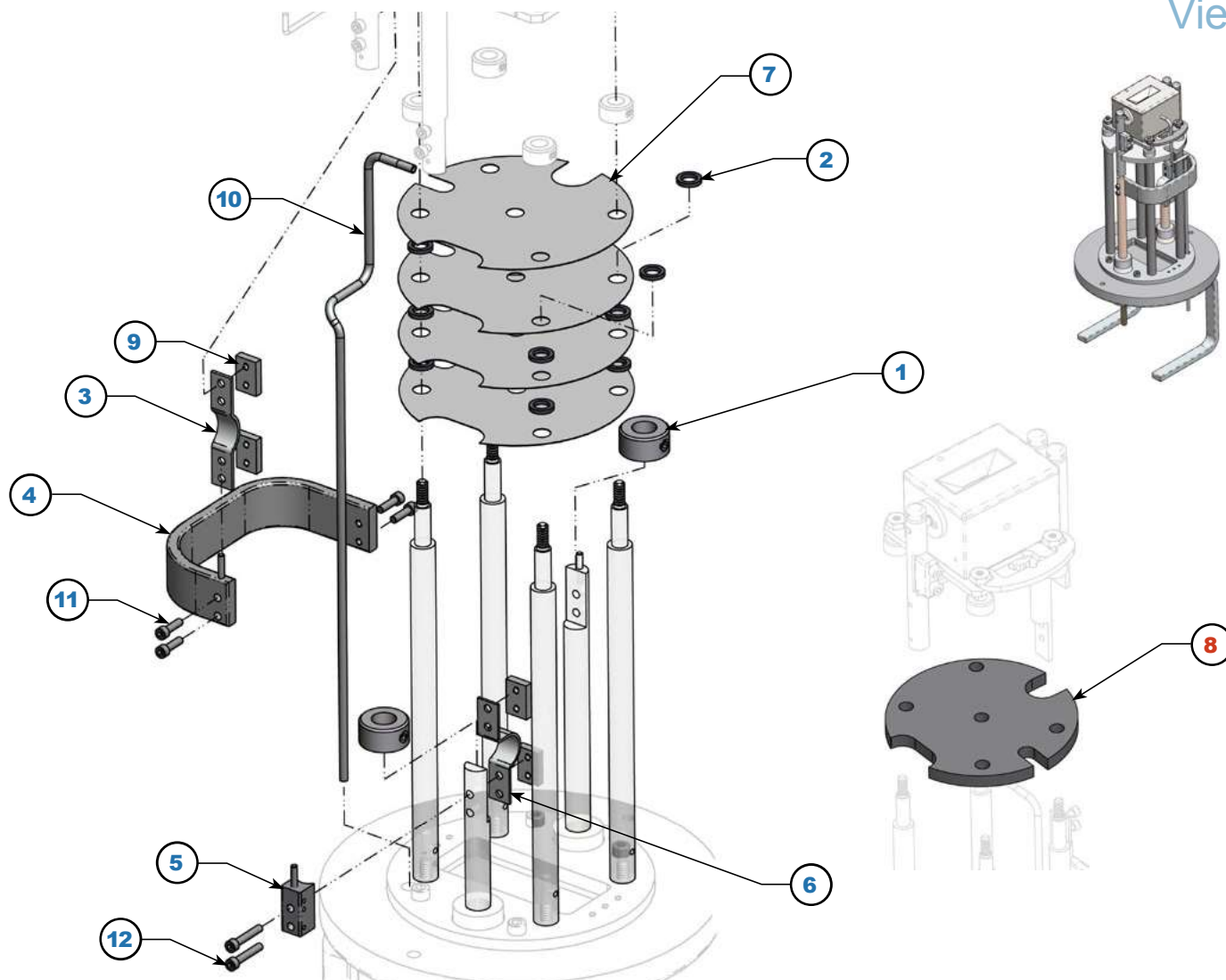
Item	P/N	Description	OEMs	Qty
1	51032	Filament Insulator, Alumina	A 1200 8883	1
2	51037	Hairpin Clip, Tantalum	A 1200 9192	3
3	51039	Clamping Pin	E17061680	1
4	51044	Arc Chamber Base, 300XP Bernas, Molybdenum	E17061740	1
5	51045	Arc Chamber Cover, 300XP Bernas, Molybdenum	E17061750	1
6	51075	Filament 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, 6-32 X 1/2", SST	E47000018	2

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Bernas Source - P/N 51124

View 2

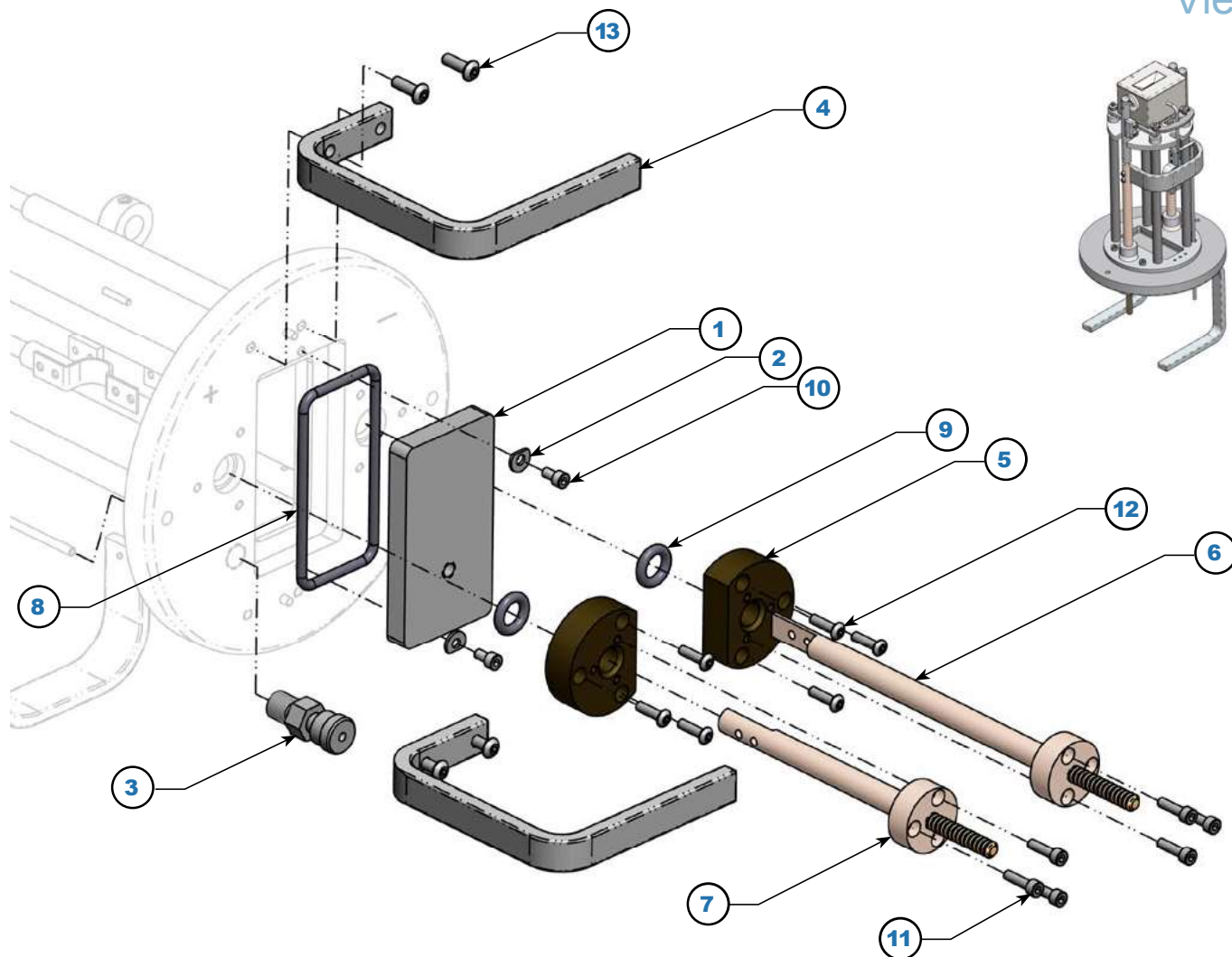


Item	P/N	Description	OEMs	Qty
1	51023	3/8" ID Collar	255 3074	2
2	51027	1/4" ID Shaft Spacer	255 3024	12
3	51040	Silver Connector Strap Set	7159001	1
4	51139	Filament Connector Buss	E17060470	1
5	51142	Connector Alignment Block	E17061190	1
6	51143	Silver Connector Strap	E17061360	1
7	51147	Heat Shield	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

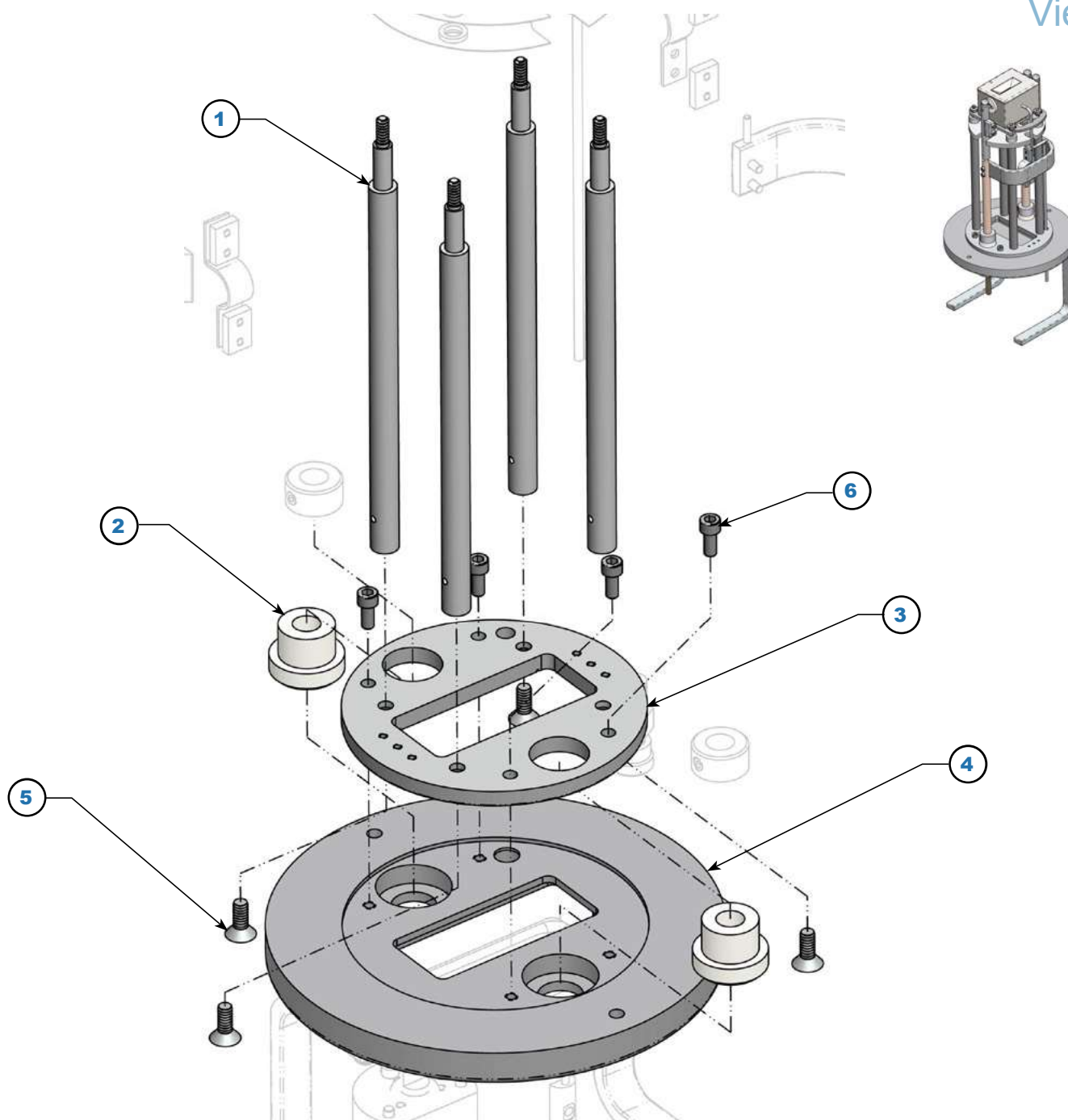


Item	P/N	Description	OEMs	Qty
1	51013	Back Plate Insert	B 1200 8500	1
2	51069	Washer, #6, Flat, Modified, SST	No OEM Reference	2
3	51128	Ultra Torr Male Connector Fit, 1/8,	No OEM Reference	1
4	51133	Source Handle	07144001	2
5	51138	Compression Collar	No OEM Reference	2
6	51145	Negative Filament Feed 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, 6-32 X 1/2", SST	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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Bernas Source - P/N 51124

View 4



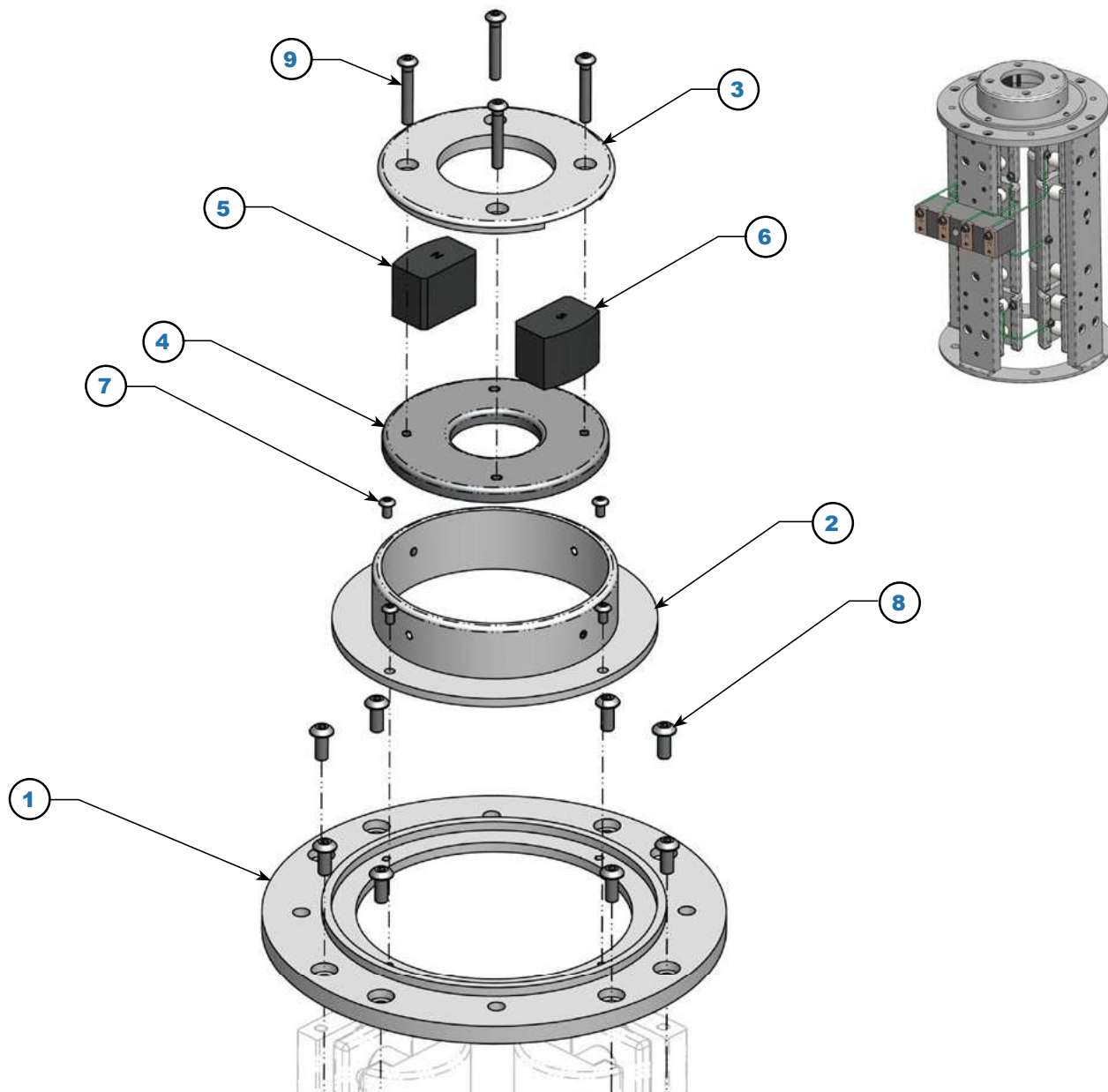
Item	P/N	Description	OEMs	Qty
1	51016	Support Tube	C 1200 7149	4
2	51021	Seal Bearing, Teflon	B 1200 7142	2
3	51148	Support Plate, Aluminum	No Reference	1
4	51149	Back Plate, Aluminum	No Reference	1
5	82594	FHSS, 10-32 x 1/2", 18-8 SST	E47000062	4
6	82734	SHCS, Vented, 8-32 x 3/8", 18-8 SST	E47000291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

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Electrostatic Quadrapole Assembly - P/N 51095

View 1



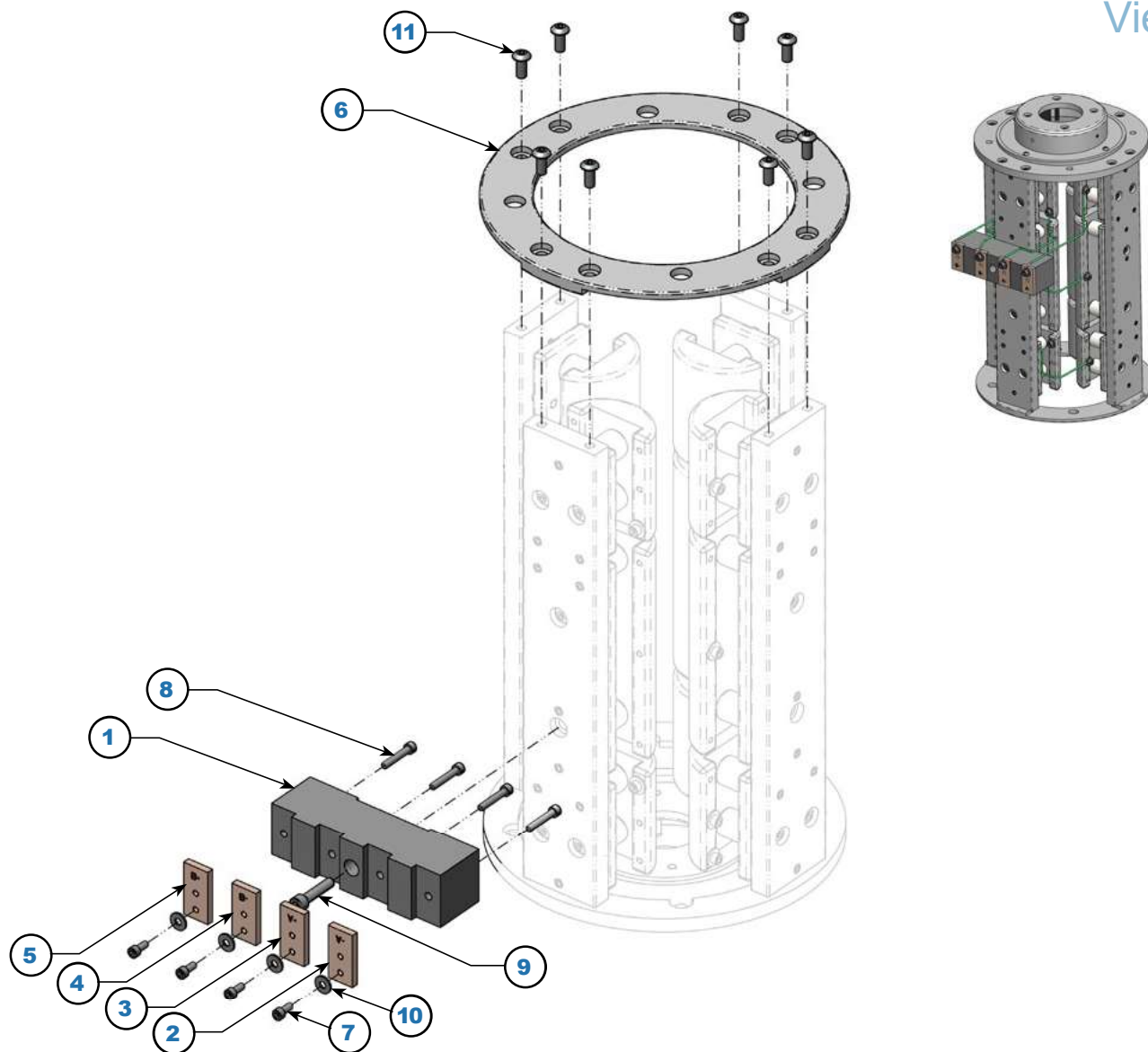
Item	P/N	Description	OEMs	Qty
1	51096	Top Quadrapole Ring	C04345001	1
2	51097	Magnet Housing	C04111001	1
3	51098	Top Magnet Retainer	A02968001	1
4	51099	Bottom Magnet Retainer	A04816001	1
5	51100-1	Magnet, North Pole	B02964002	1
6	51100-2	Magnet, South Pole	B02964001	1
7	82623	BHSS, 4-40 X 3/16", SST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



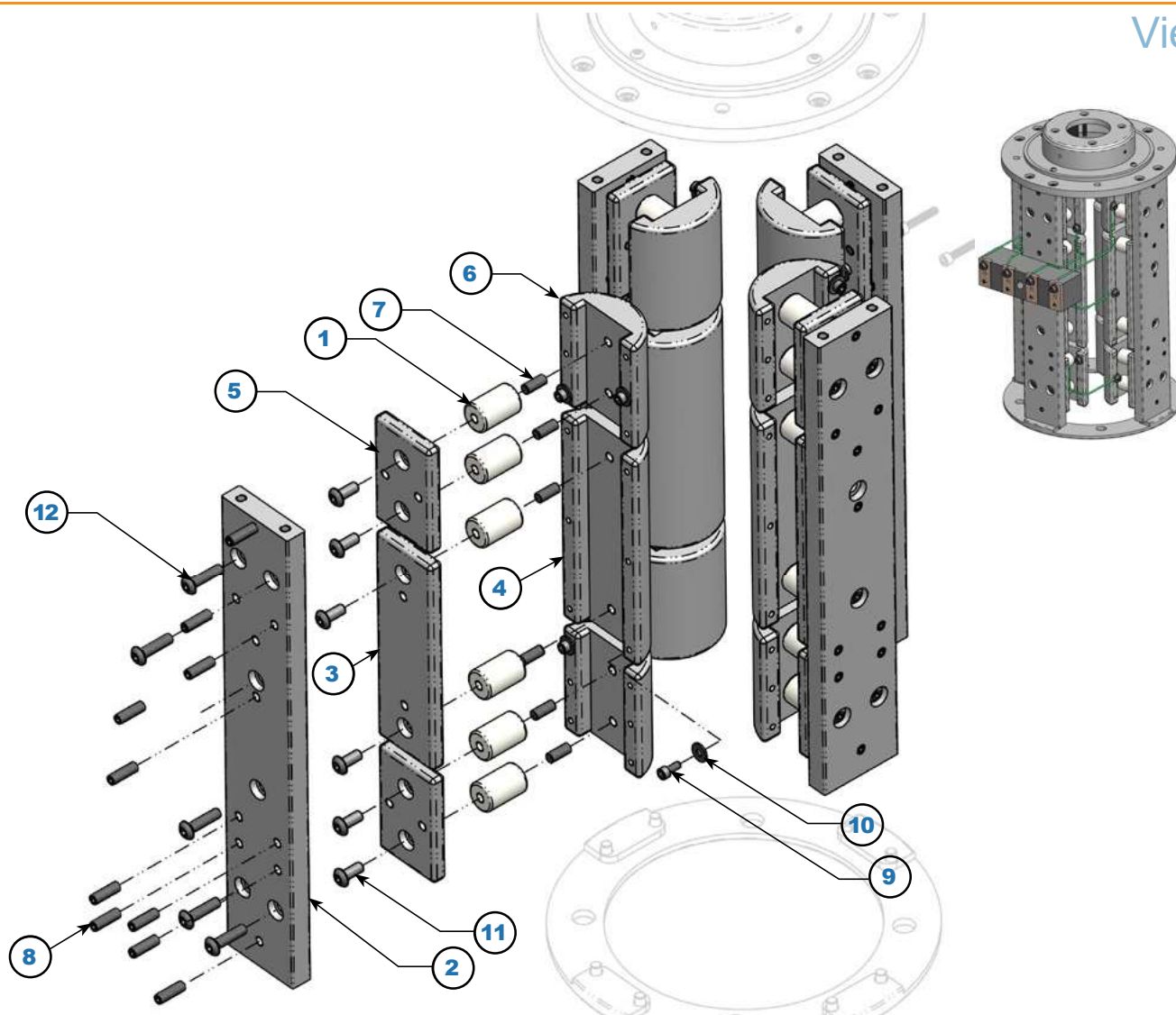
Item	P/N	Description	OEMs	Qty
1	51106-1	Connector Base	No OEM Reference	1
2	51106-2A0	Terminal Plate	A04119001	1
3	51106-2A1	Terminal Plate	A04119001	1
4	51106-2B0	Terminal Plate	A04119001	1
5	51106-2B1	Terminal Plate	A04119001	1
6	51107	Quadrapole, Bottom Ring	No OEM Reference	1
7	82385	SHCS, 4-40 X 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



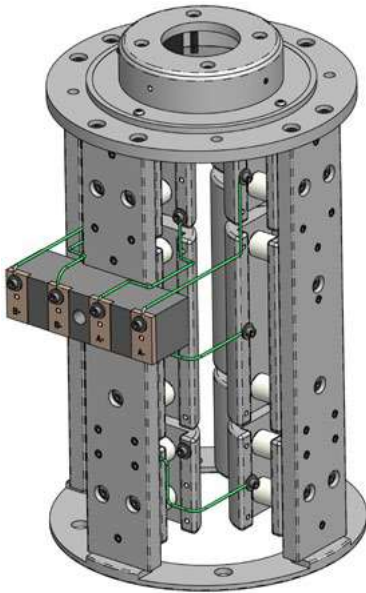
Item	P/N	Description	OEMs	Qty
1	51065	Ceramic Standoff 1/2 X 3/4L	2866008	24
2	51101	Support Bar	No OEM Reference	4
3	51102	Long Pole Level	No OEM Reference	4
4	51103	Long Pole Piece	B04886001	4
5	51104	Short Pole Level	No OEM Reference	8
6	51105	Short Pole Piece	B04799001	8
7	82126	Set Screw, 8-32 X 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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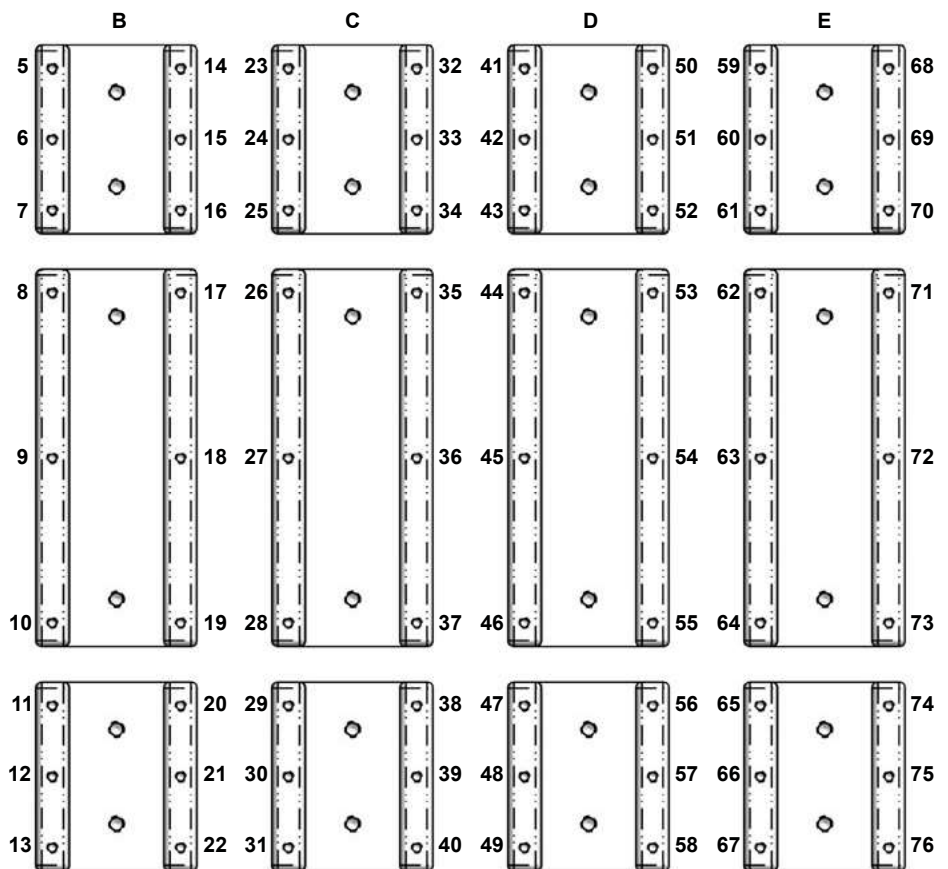
Electrostatic Quadrapole Assembly - P/N 51095

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.

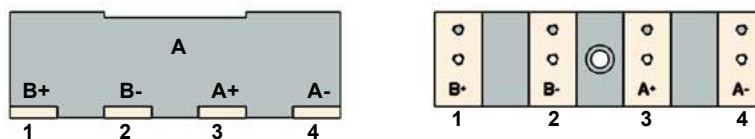
Top



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

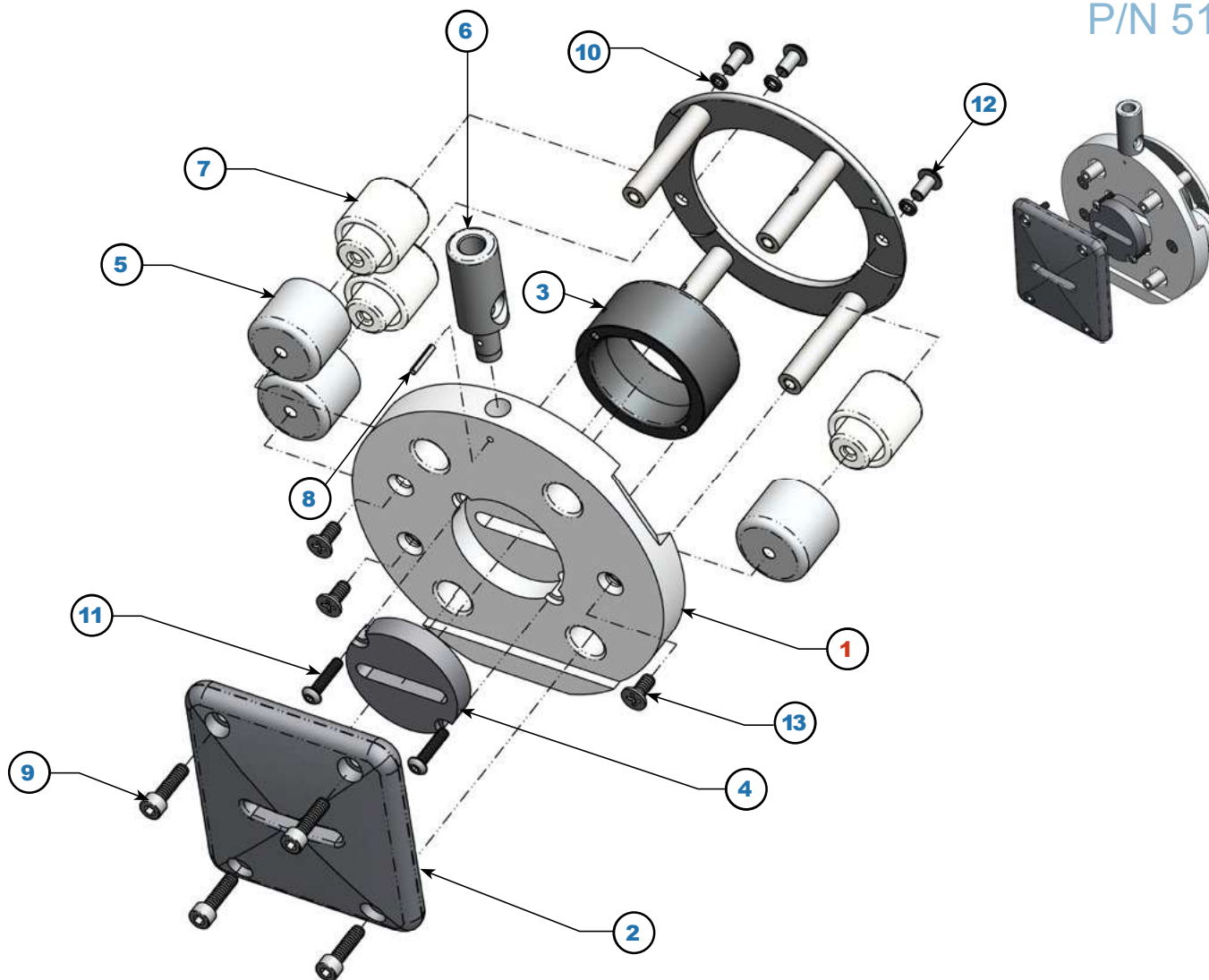
Bottom



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Extraction Electrode Assembly

P/N 51087

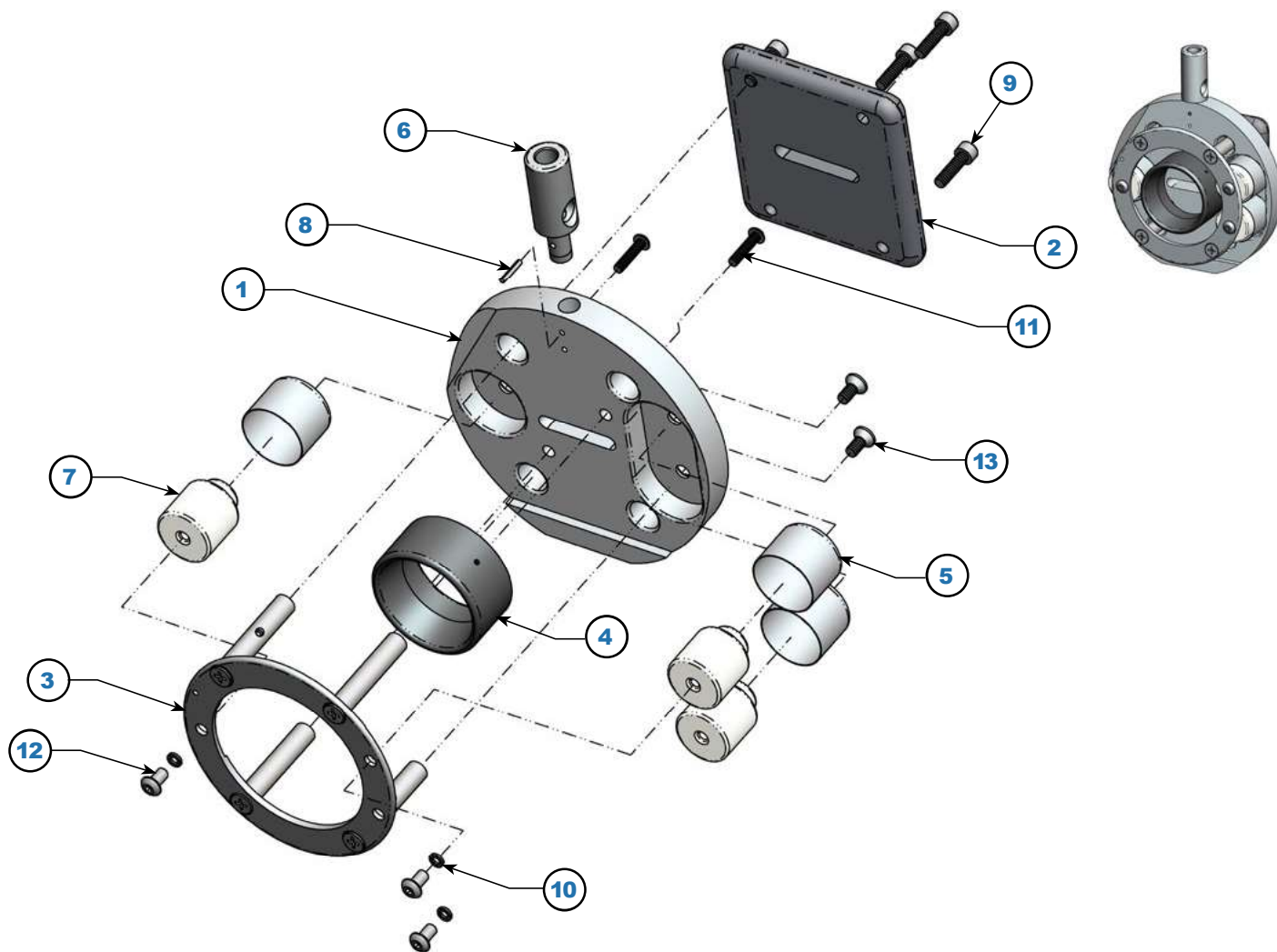


Item	P/N	Description	OEMs	Qty
1	51053A	Ground Electrode, Modified, Aluminum	F5395001	1
2	51054	High Voltage Electrode	F5396001	1
3	51078	Snout, Ground Electrode	F5398001	1
4	51079	Aperture Insert, Extraction Electrode, Graphite	F5395001	1
5	51082	Insulator Shield, SST	E17072100 Rev. 1	3
6	51084	Pivot Pin	A06955001	1
7	52062	Insulator Standoff, Ceramic	2865086	3
8	82002	Spring Pin, Slotted, 1/16 D X 3/8 420, SST	No OEM Reference	1
9	82415	SHCS, 6-32 X 1/2\", SST	E47000018	4
10	82606	Washer, #6 Regular Spring, SST	4400034	3
11	82621	BHSS, 4-40 X 1/2\", SST	E48000009	3
12	8A364	BHSS, Vented, 6-32 X 1/4\", SST	No OEM Reference	3
13	8A368	FHPS, 6-32 X 5/16\", SST	1211200605	3

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Extraction Electrode Assembly

P/N 51087B



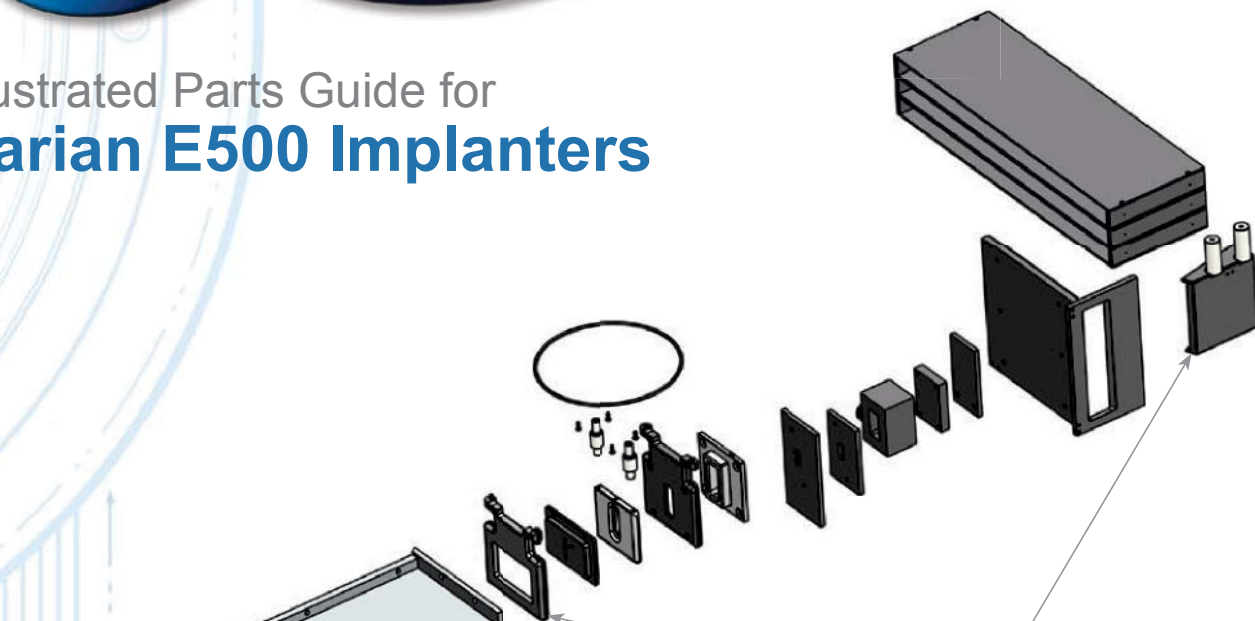
Item	P/N	Description	OEMs	Qty
1	51053	Ground Electrode, Aluminum	F5395001	1
2	51054	High Voltage Electrode	F5396001	1
3	51056	Electrode Support Assembly, SST	F5397009	1
4	51078	Snout, Ground Electrode	F5398001	1
5	51082	Insulator Shield, SST	E17072100 REV 1	3
6	51084	Pivot Pin	A06955001	1
7	52062	Insulator Standoff, Ceramic	2865086	3
8	82002	Spring Pin, Slotted, 1/16 D X 3/8 420, SST	No OEM Reference	1
9	82415	SHCS, 6-32 X 1/2\", SST	E47000018	4
10	82606	Washer, #6 Regular Spring, SST	4400034	3
11	82621	BHSS, 4-40 X 1/2\", SST	E48000009	2
12	8A364	BHSS, Vented, 6-32 X 1/4\", SST	No OEM Reference	3
13	8A368	FHPS, 6-32 X 5/16\", SST	1211200605	3

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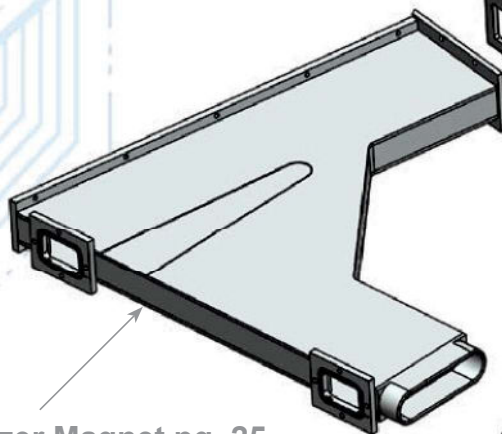
A Resource for Semiconductor Manufacturers

Illustrated Parts Guide for **Varian E500 Implanters**

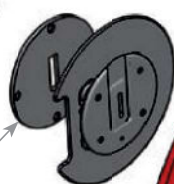


Faraday/Setup Cup, Mirror Assembly,
Dipole & Scanner pgs. 26-29

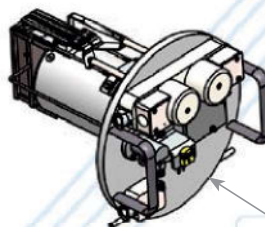
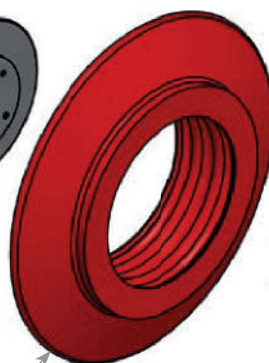
Analyzer Magnet pg. 25



Extraction Electrode pg. 24



Source Bushing pgs. 2-3



Source Assembly pgs. 4-23

Source Bushings & Flange

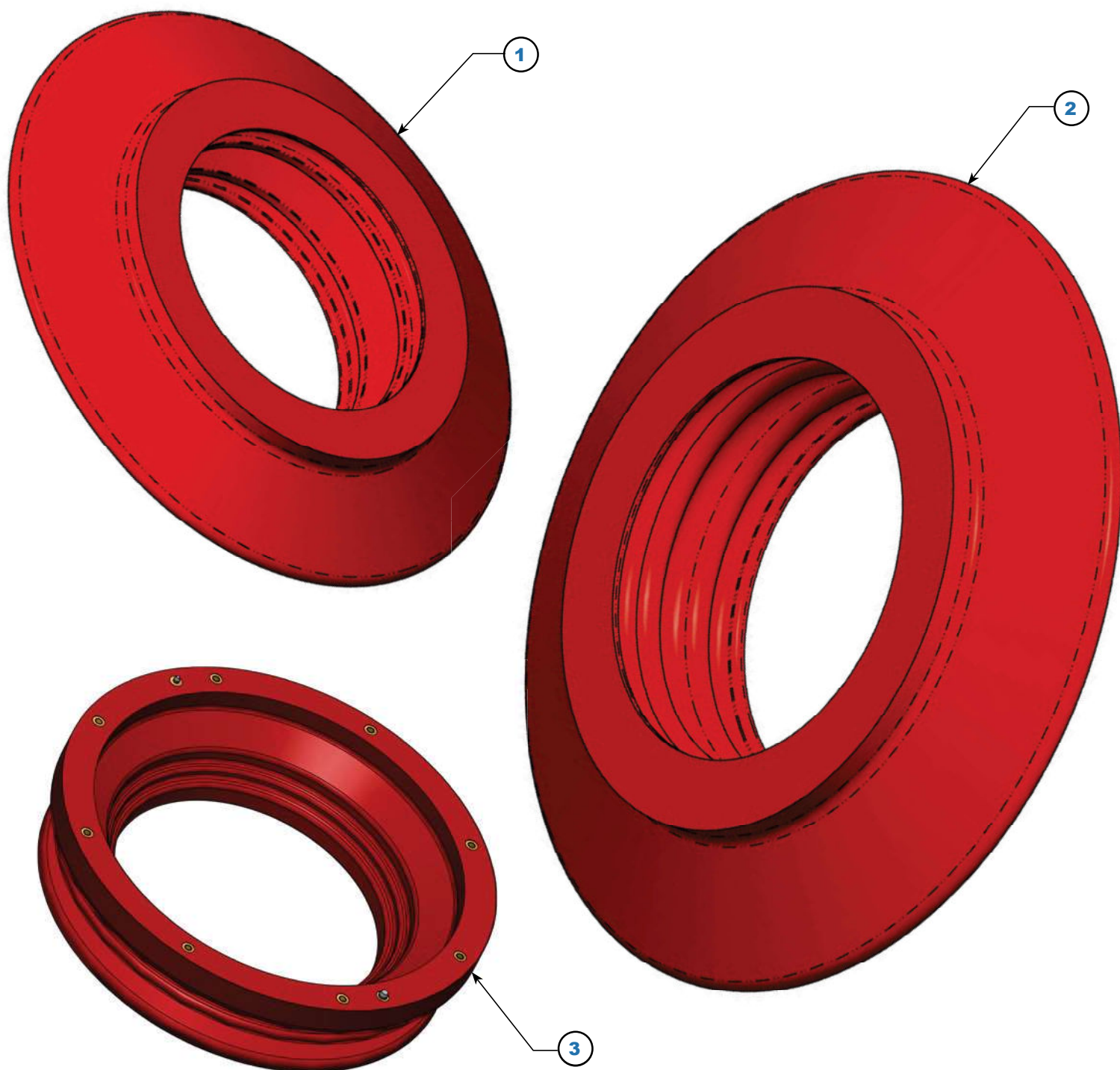


Item	P/N	Description	OEMs	Qty
1	52076M*	Source Bushing	H5022001, E17123040	1
2	55327	Flange	No OEM Reference	1
3	55408	E500HP/ E500EHP Source Bushing	E17125590	1

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Refurbishment Services For Source Bushings

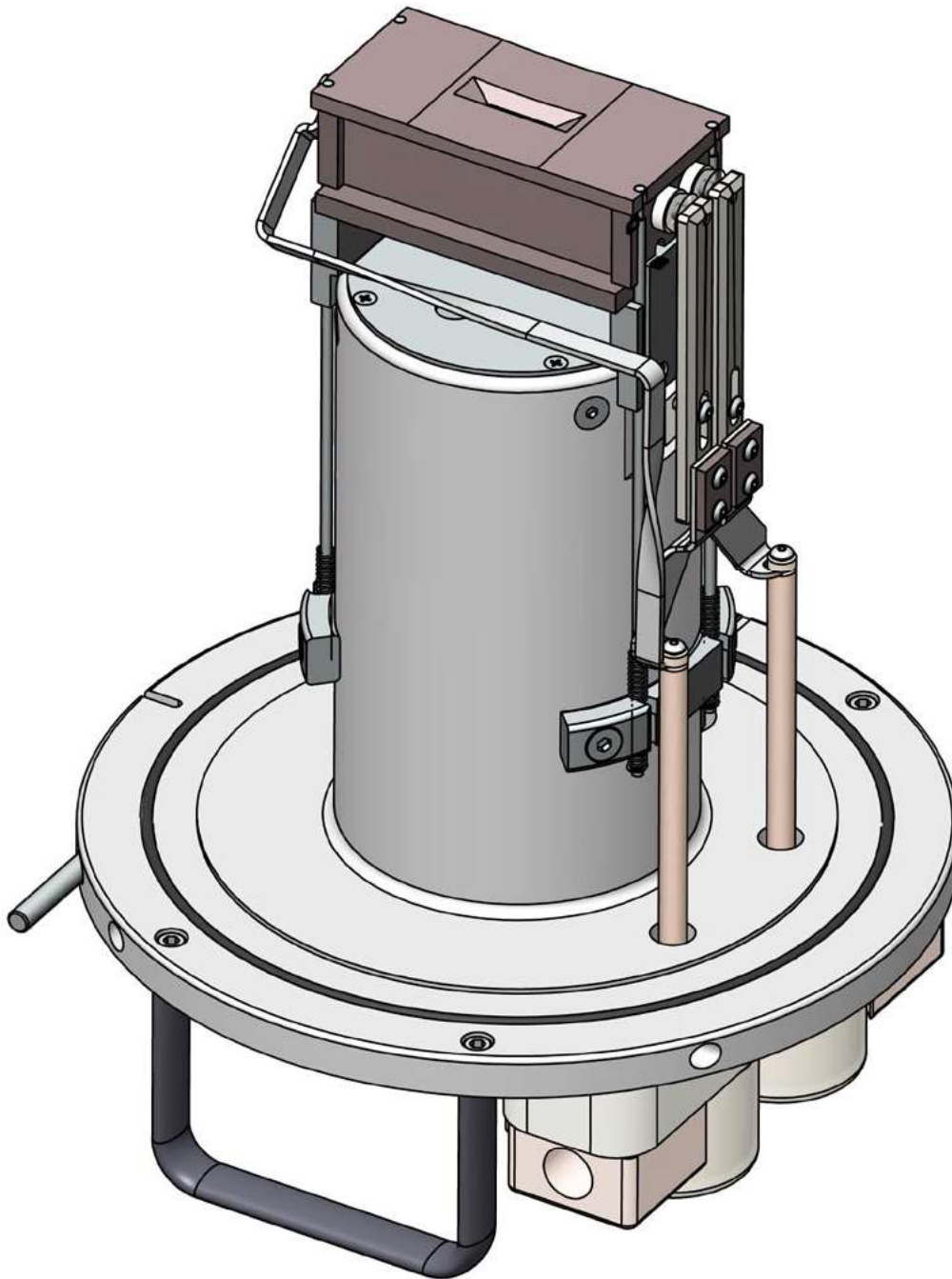


Item	P/N	Description	OEMs	Qty
1	52076MR	Source Bushing, Refurbished	H5022001	1
2	52076R	Source Bushing, Refurbished	H5022001	1
3	55408R	E500HP/ E500EHP Source Bushing, Refurbished	E17125590	1

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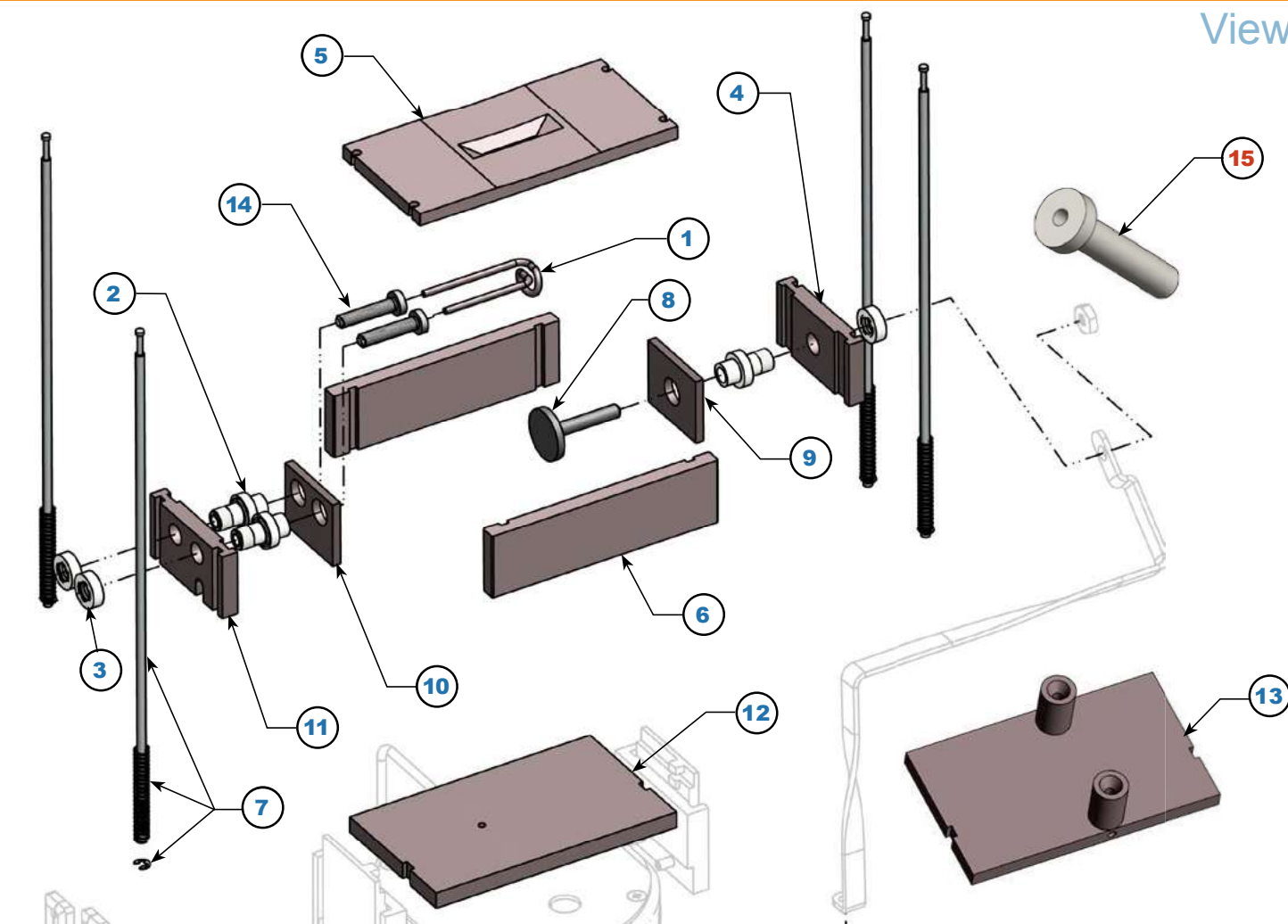
Standard Source Assembly



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Standard Source Assembly Components

View A

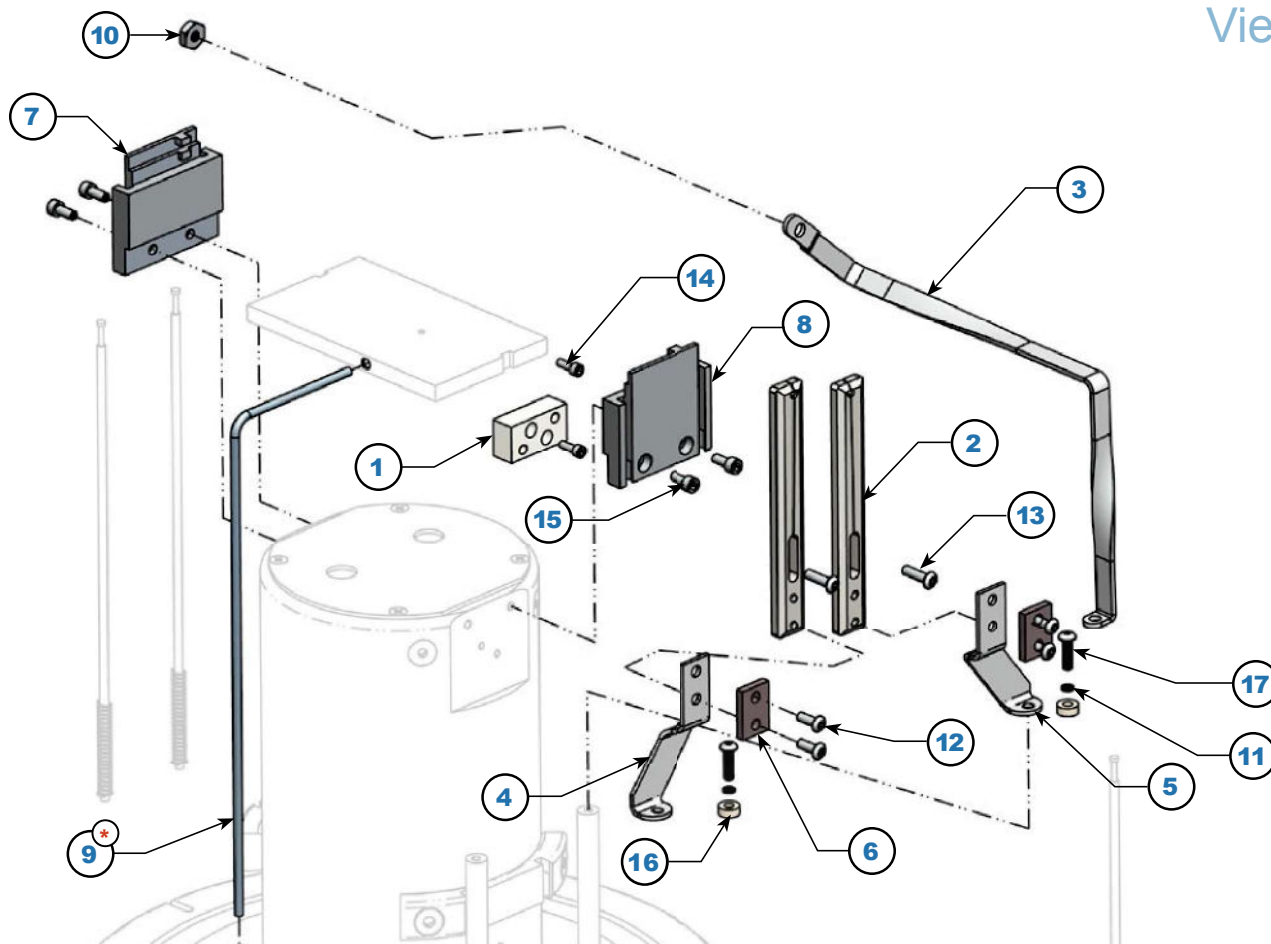


Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
4	55061W	Reflector End Plate, Tungsten	E17063170	1
5	55064W	Arc Chamber Top Plate, Tungsten	E17014691	1
6	55065W	Arc Chamber Side Plate, Tungsten	E17036921	2
7	55072	Retaining Pin Assembly	No OEM Reference	4
8	55074W	Reflector, Tungsten	E17066330, E17036981W	1
9	55079W	Repeller Shield, Tungsten	E17037063, E17037065	1
10	55080W	Filament Shield, Tungsten	E17037062, E17037064	1
11	55082W	Filament End Plate, Tungsten	E17063160	1
12	55083W	Base Plate, Tungsten	E17063191	1
13	55083VW	Base Plate, Tungsten	E17063190	1
14	55101	Filament Screw, Tantalum	E17037001, E17066340, E17179690	2
15	55101M	Filament Screw, Molybdenum	E17037001	

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Standard Source Assembly Components

View B

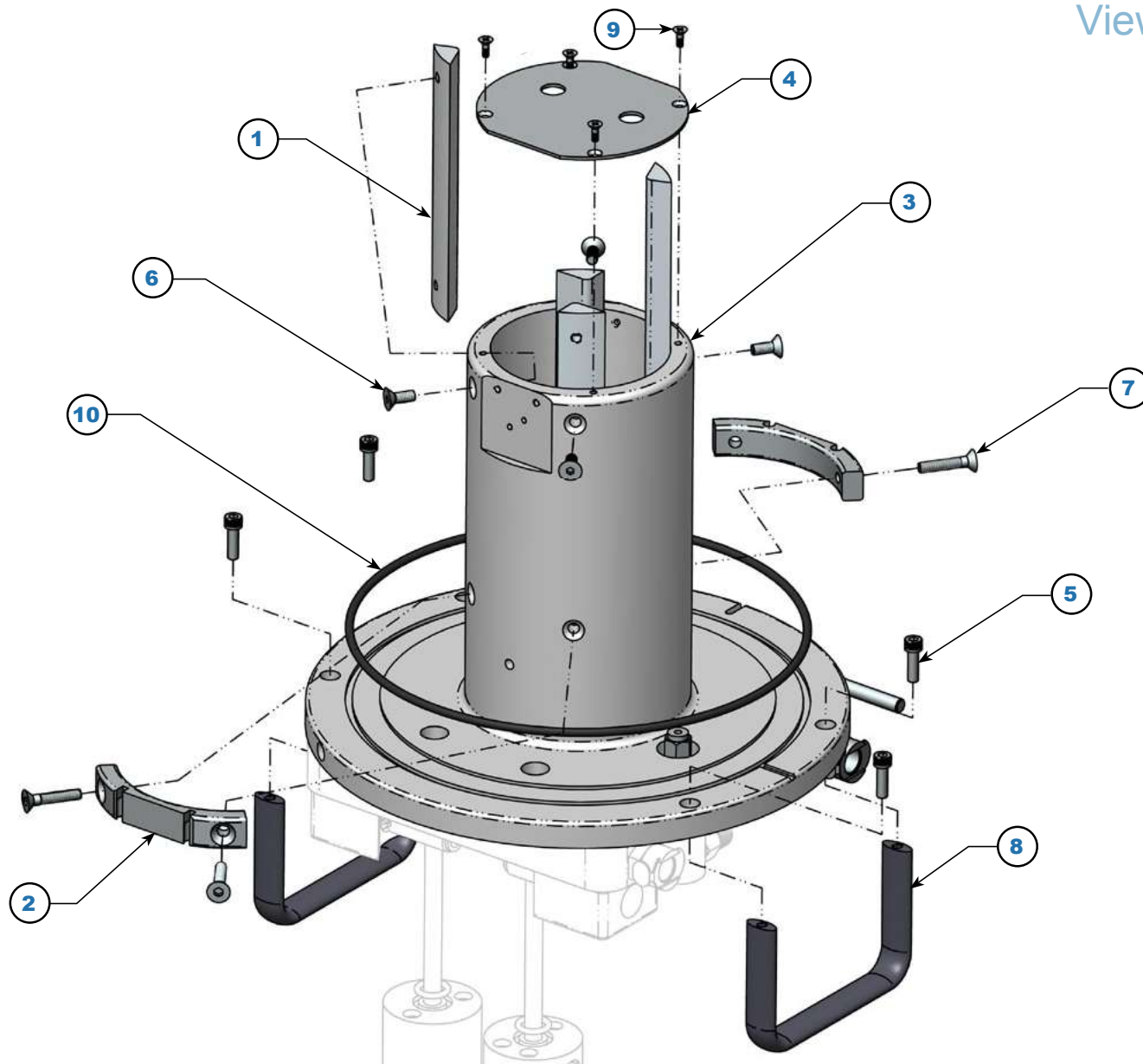


Item	P/N	Description	OEMs	Qty
1	55033	Insulator With Helicoil, Boron	E17037010	1
2	55071	Filament Clamp, Molybdenum	E17036930	2
3	55075	Reflector Strap	E17121420	1
4	55076	Filament Feed Strap	E17121431, E17036911	1
5	55077	Filament Feed Strap	E17121430, E17036910	1
6	55081	Clamp, Filament Strap	E17036950	2
7	55099	Arc Chamber Mounting Bracket, Repeller End	E17063150	1
8	55100	Arc Chamber Mounting Bracket, Filament End	E17063140	1
9	55103*	Source Gas Tube, Tantalum	E17014833	1
10	82299	Nut, 10-32 Hex, 18-8 SST	1312206000	1
11	82606	No.6 Regular Spring Washer, 18-8 SST	E48000009	2
12	82627	6-32 X 3/8" Button Head Socket Screw, SST	1236200606	4
13	82629	6-32 X 1/2" Button Head Socket Screw, SST	1236200608	2
14	82717	4-40 x 5/16 SHCS 18-8 Vented	E47000247	2
15	82730	6-32 x 5/16 SHCS 18-8 Vented	E47000167	4
16	83750	No.6 X .125 Spacer, SST	E17014800	2
17	8A445	SHCS, BHD, Vented, 6-32 x 1/2	E47000103	2

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

Standard Source Assembly Components

View C

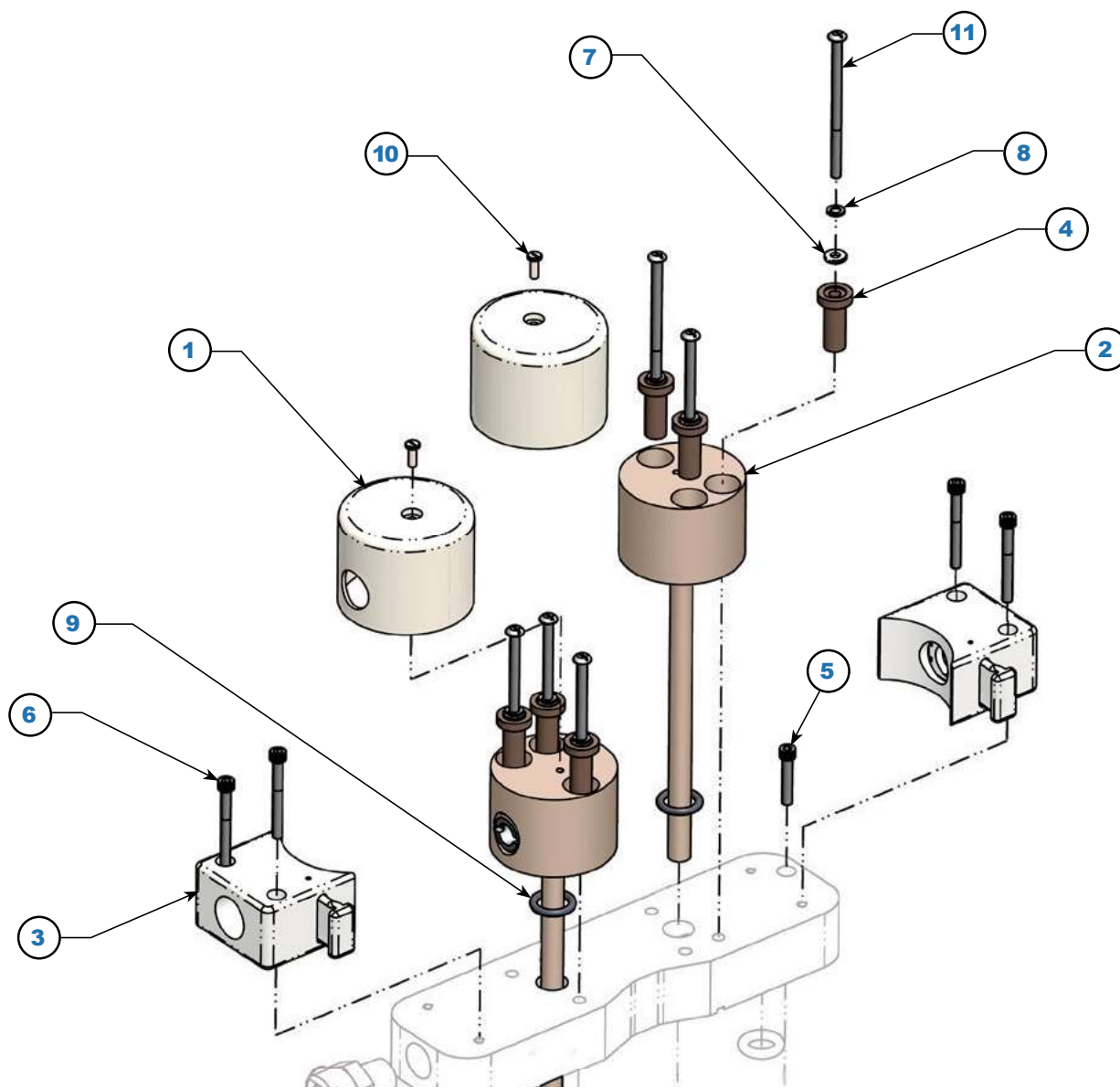


Item	P/N	Description	OEMs	Qty
1	55088	Internal Reflector	No OEM Reference	4
2	55104	Retainer Pin Anchor Block	No OEM Reference	2
3	55105	Source Body	No OEM Reference	1
4	55106	Vaporizer Heat Shield	E17071110	1
5	82436	10-32 x 5/8 SHCS 18-8 SST	E47000049	4
6	82594	10-32 x 1/2 FHSS 18-8 SST	E47000062	4
7	82597	10-32 x 7/8 FHSS 18-8 SST	No OEM Reference	4
8	82700	Handle Oval 4	E40000186	2
9	82714	4-40 x 1/4 Phillips FHCS, 18-8 SST Vented	3330404	4
10	83165V	O-Ring, -265, Viton®	2542264	1

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Standard Source Assembly Components

View D

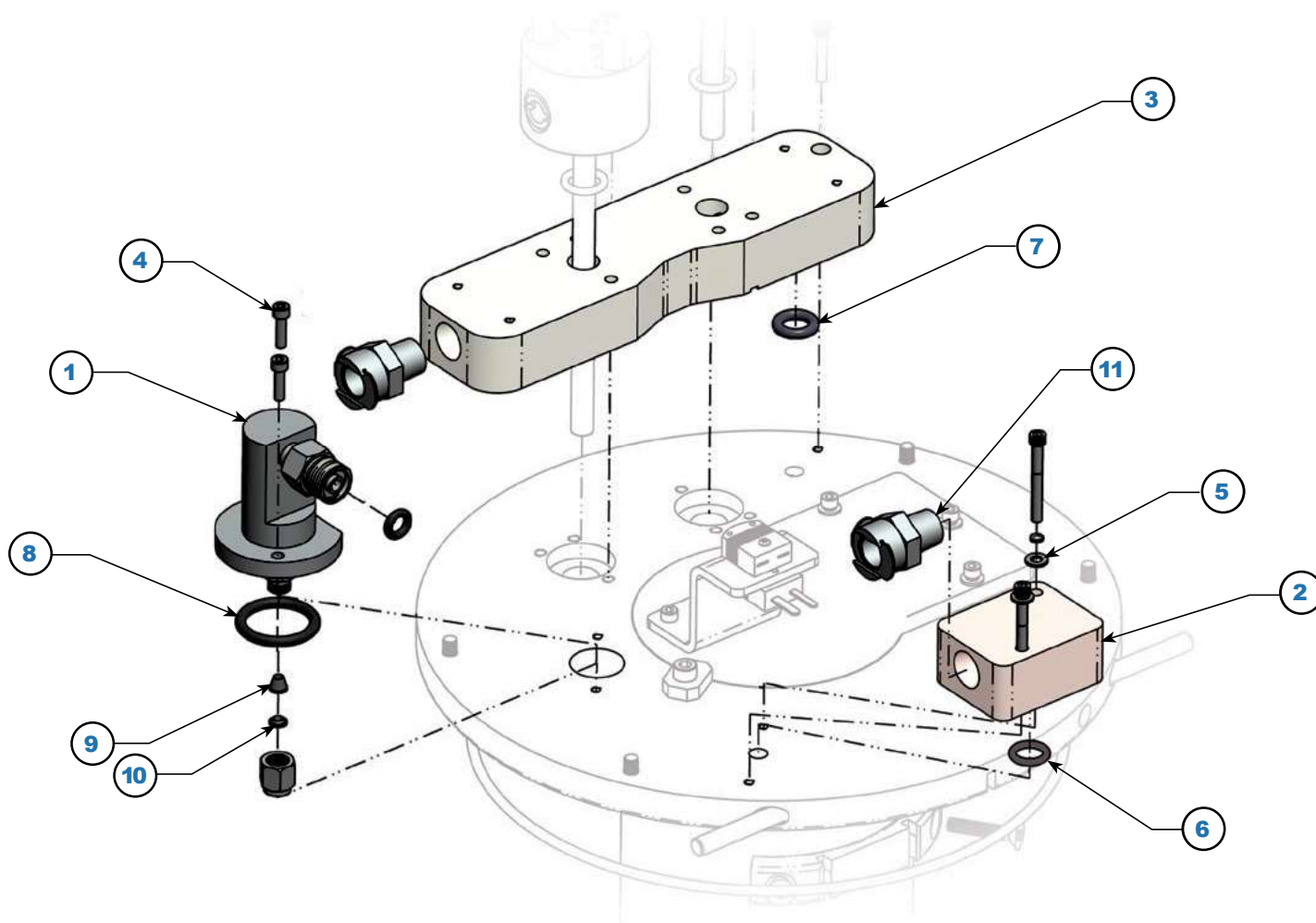


Item	P/N	Description	OEMs	Qty
1	55086	Feed-Thru Insulator Shield	E17015051	2
2	55090	Feed-Thru	E17014840	2
3	55093	Feed-Thru Connector, Virgin Teflon	No OEM Reference	2
4	55096	Feed-Thru Insulator, Torlon	E17014880	6
5	82421	6-32 x 3/4 SHCS 18-8 SST	E47000020	1
6	82424	SHCS 6-32 X 1 1/4" SST	E47000284	4
7	82466	No.6 Flat Nylon Washer	E46000017	6
8	82606	No.6 Regular Spring Washer, 18-8 SST	E48000009	8
9	83012V	O-Ring, -112, Viton®	E35000189	2
10	83627	4-40 x 5/16 Nylon PHS	E47000030, E45000030	2
11	83640	PH, 6-32 X 2-1/4, 18-8 SST SLTD	1212200632	6

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

Standard Source Assembly Components

View E

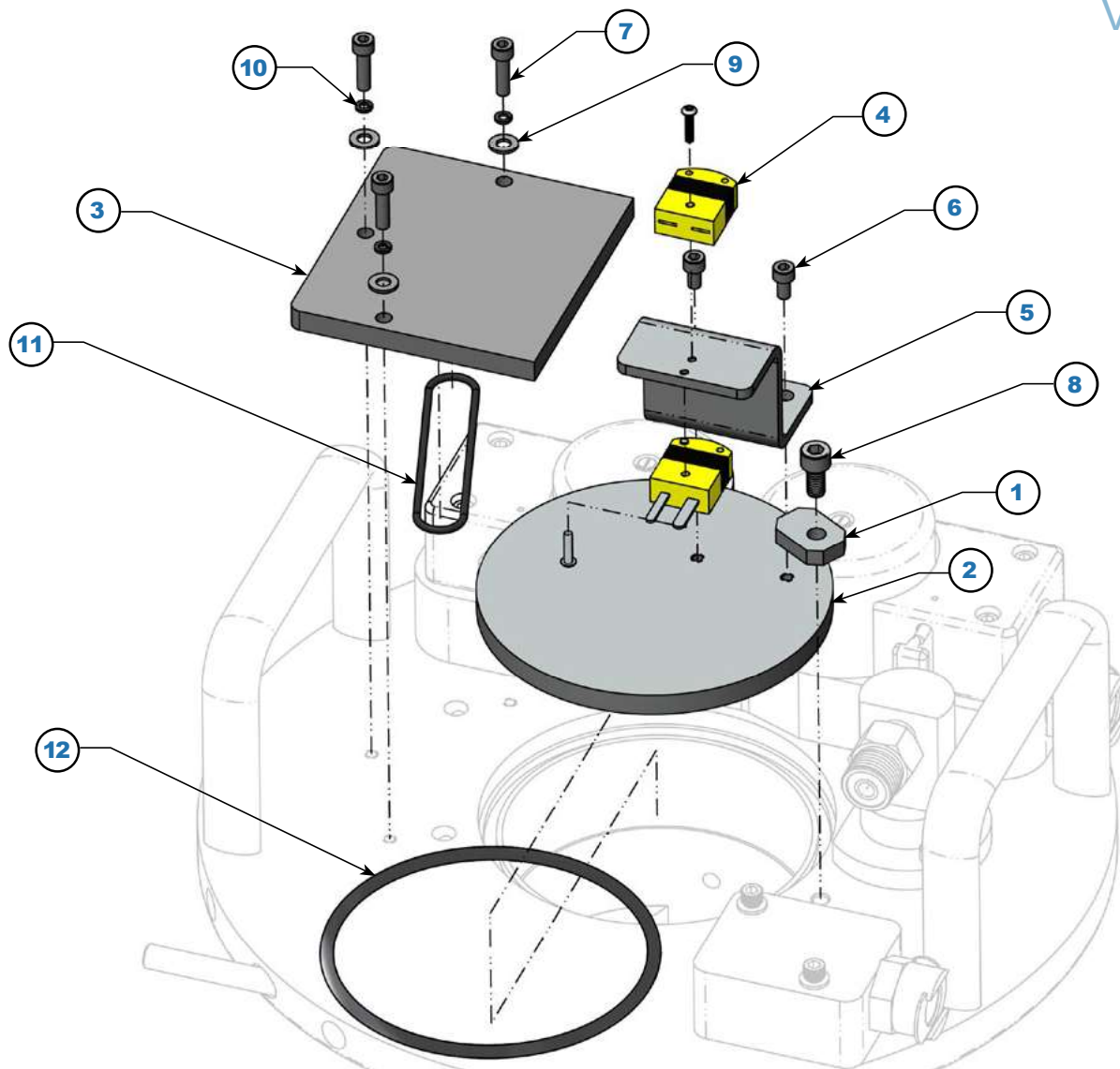


Item	P/N	Description	OEMs	Qty
1	55085	Gas Manifold Assembly	E17014700	1
2	55094	Sub-block Manifold, Nylon	E17063130	1
3	55095	Feed-Thru Manifold, Virgin Teflon	E17063120	1
4	82415	6-32 X 1/2" SHCS, SST	1231200608, E47000018	2
5	82472	No.6 Standard Washer, 18-8 SST	E48000016	2
6	83010V	O-Ring, -110, Viton®	E35000254	1
7	83104V	O-Ring, 204, Viton®	2542204	1
8	83112V	O-Ring, -212, Viton®	E35000190	1
9	83675	Front Ferrule 1/8"	No OEM Reference	1
10	83681	Back Ferrule 1/8"	No OEM Reference	1
11	83694	Quick Disconnect Coupling	E34000246	2

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Standard Source Assembly Components

View F

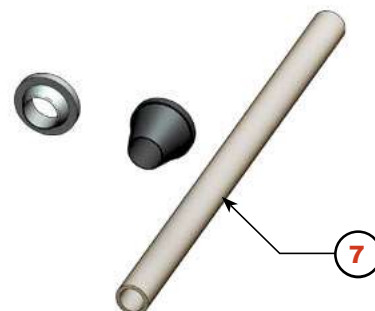
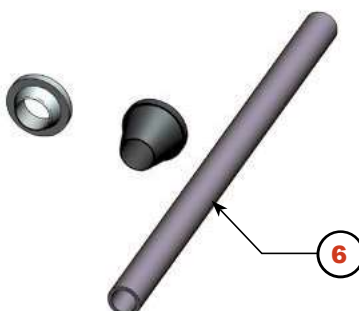
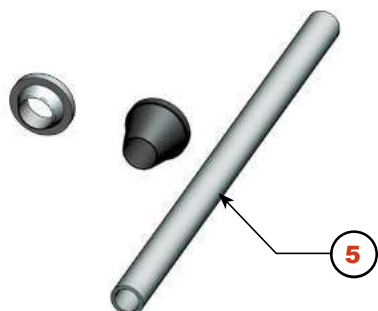
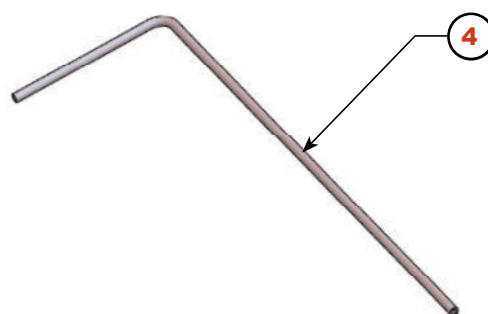
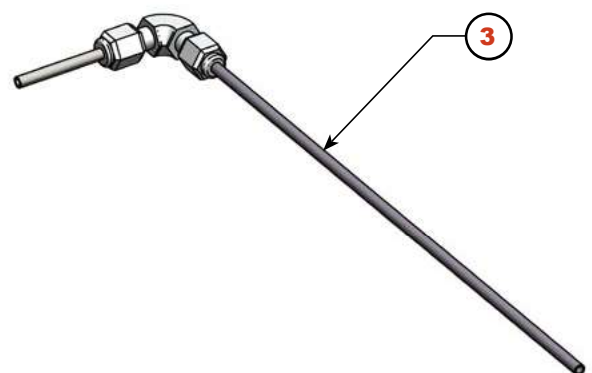
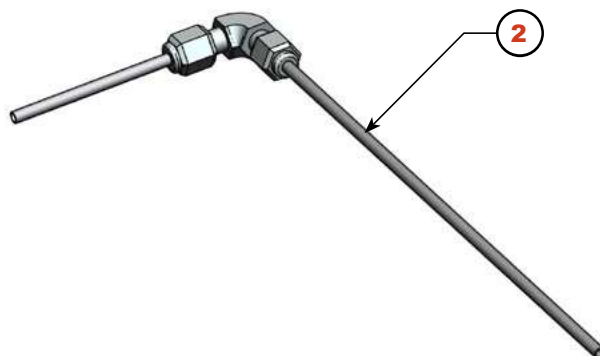
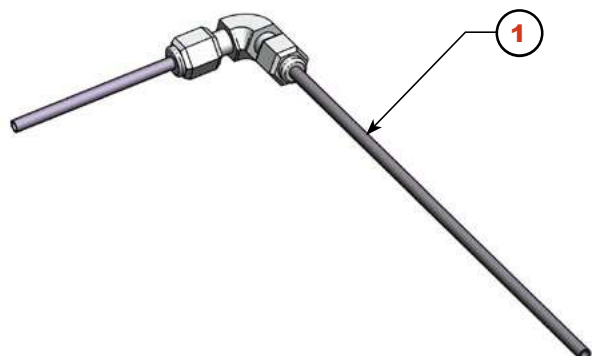


Item	P/N	Description	OEMs	Qty
1	55087	Vaporizer Blank-Off Clamp	E17063200	1
2	55091	Vaporizer Blank-Off	E17065390	1
3	55092	Source Body Water Manifold	E17065400	1
4	55097	Thermocouple Connector	No OEM Reference	1
5	55098	Thermocouple Mounting Bracket	E17077370	1
6	82412	6-32 X 1/4", SHCS, SST 18-8	E47000016	2
7	82415	6-32 X 1/2" SHCS, SST	1231200608, E47000018	3
8	82439	SHCS 10-32 X 3/8" SST	E47000047	1
9	82472	No.6 Standard Washer, 18-8 SST	E48000016	3
10	82606	No.6 Regular Spring Washer, 18-8 SST	E48000009	3
11	83013V	O-Ring, -113, Viton®	E35000188	2
12	83137V	O-Ring, -237, Viton®	E350000	1

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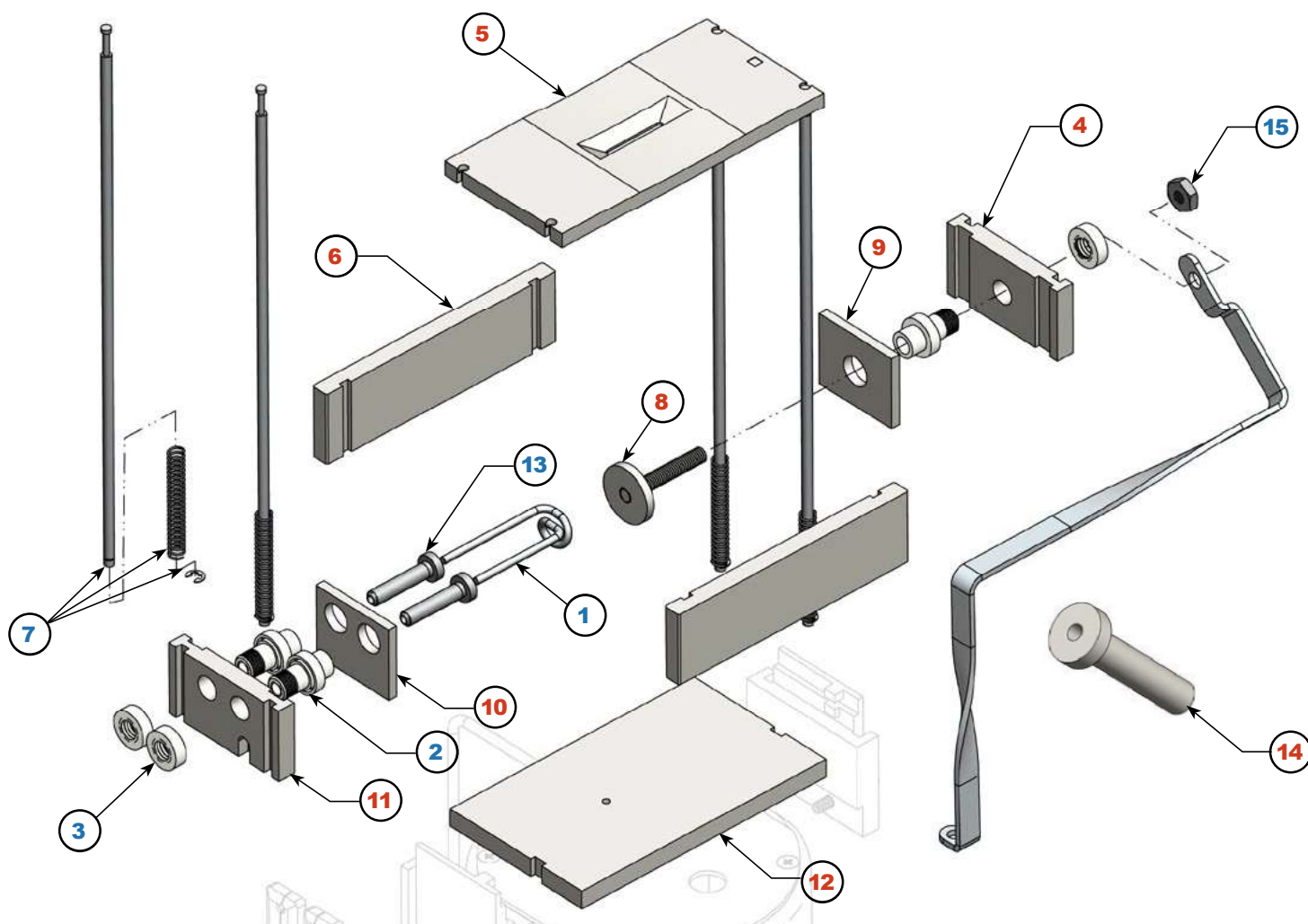
Optional Gas Tube Assemblies & Refurbishment Kits



Item	P/N	Description	OEMs
1	55109A	Gas Tube Assembly, Stainless/Tantalum	E17014832
2	55109B	Gas Tube Assembly, Stainless	E17014832
3	55109C	Gas Tube Assembly, Stainless/Molybdenum	E17014832
4	55109T	Gas Manifold Tube, Tantalum	E17014832
5	K55109A-2	Kit, Gas Tube Refurbishment, Stainless	E17014832
6	K55109A-3	Kit, Gas Tube Refurbishment, Tantalum	E17014832
7	K55109C-3	Kit, Gas Tube Refurbishment, Molybdenum	E17014832

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Molybdenum Arc Chamber Assembly



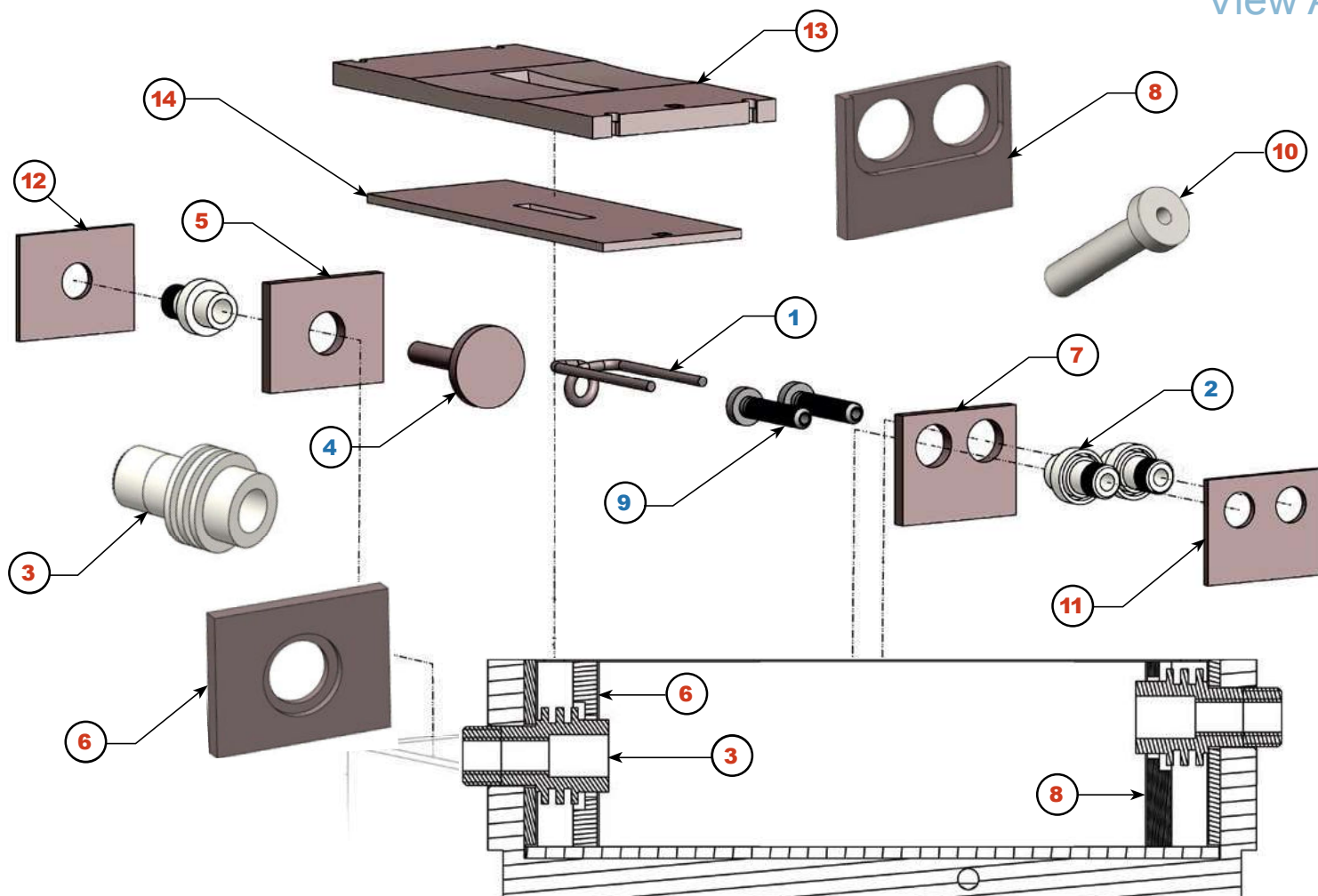
Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	2
3	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
4	55061	Reflector End Plate, Molybdenum	E17063170	1
5	55064	Arc Chamber Top Plate, Molybdenum	E17014691	1
6	55065	Arc Chamber Side Plate, Molybdenum	E17036921	2
7	55072	Retaining Pin Assembly	No OEM Reference	4
8	55074	Reflector, Molybdenum	E17036981	1
9	55079	Reflector Shield, Molybdenum	E17037063	1
10	55080	Filament Shield, Molybdenum	E17037062	1
11	55082	Filament End Plate, Molybdenum	E17063160	1
12	55083	Base Plate, Molybdenum	E17063191	1
13	55101	Filament Screw, Tantalum	E17037001, E17066340, E17179690	2
14	55101M	Filament Screw, Molybdenum	E17037001	
15	82299	Nut, 10-32 Hex, 18-8 SST	1312206000	1

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Glemco Customized Design One Piece Tungsten Arc Chamber/Liner System

View A



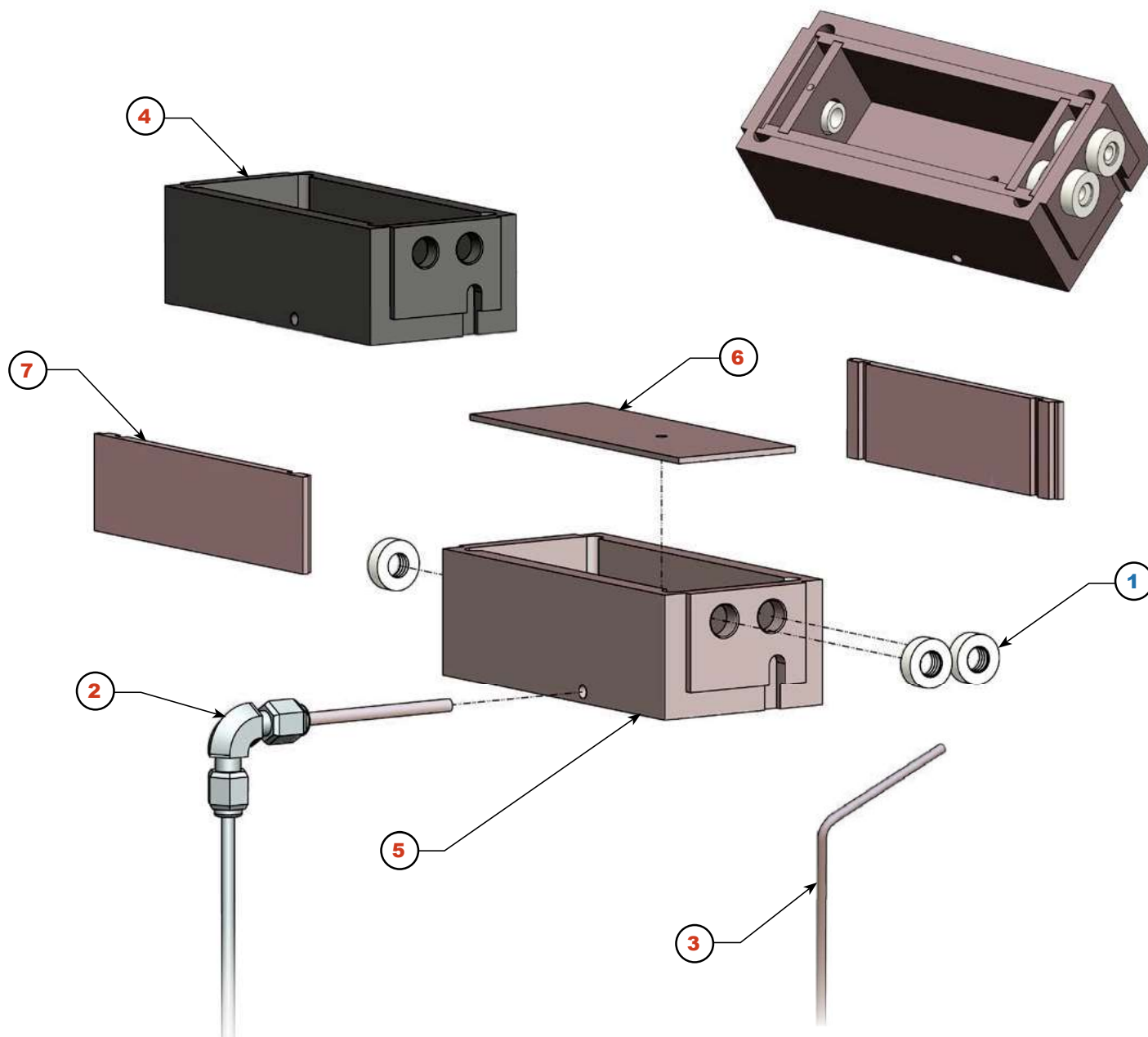
Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	51109C	Filament/Repeller Insulator (Enhanced), Used With 55079BW & 55080CW	E17168271, E17168272	
4	55074W	Reflector, Tungsten	E17066330, E17036981W	1
5	55079AW	Reflector Shield, Tungsten	E17037063	1
6	55079BW	Repeller Shield, Liner Version, Tungsten (Enhanced)	E17037063	
7	55080AW	Filament Shield, Tungsten	E17037062	1
8	55080CW	Filament Shield, Liner Version, Tungsten (Enhanced)	E17037062	1
9	55101	Filament Screw, Tantalum	E17037001, E17066340, E17179690	2
10	55101M	Filament Screw, Molybdenum	E17037001	
11	55161W	Filament End Liner, Tungsten	No OEM Reference	1
12	55162W	Repeller End Liner, Tungsten	No OEM Reference	1
13	55409W	Arc Chamber Top Plate, Used With .080 Liner, Tungsten	No OEM Reference	1
14	55410W	Top Plate Liner, .080, Tungsten	No OEM Reference	1

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Glemco Customized Design One Piece Tungsten Arc Chamber/Liner System

View B



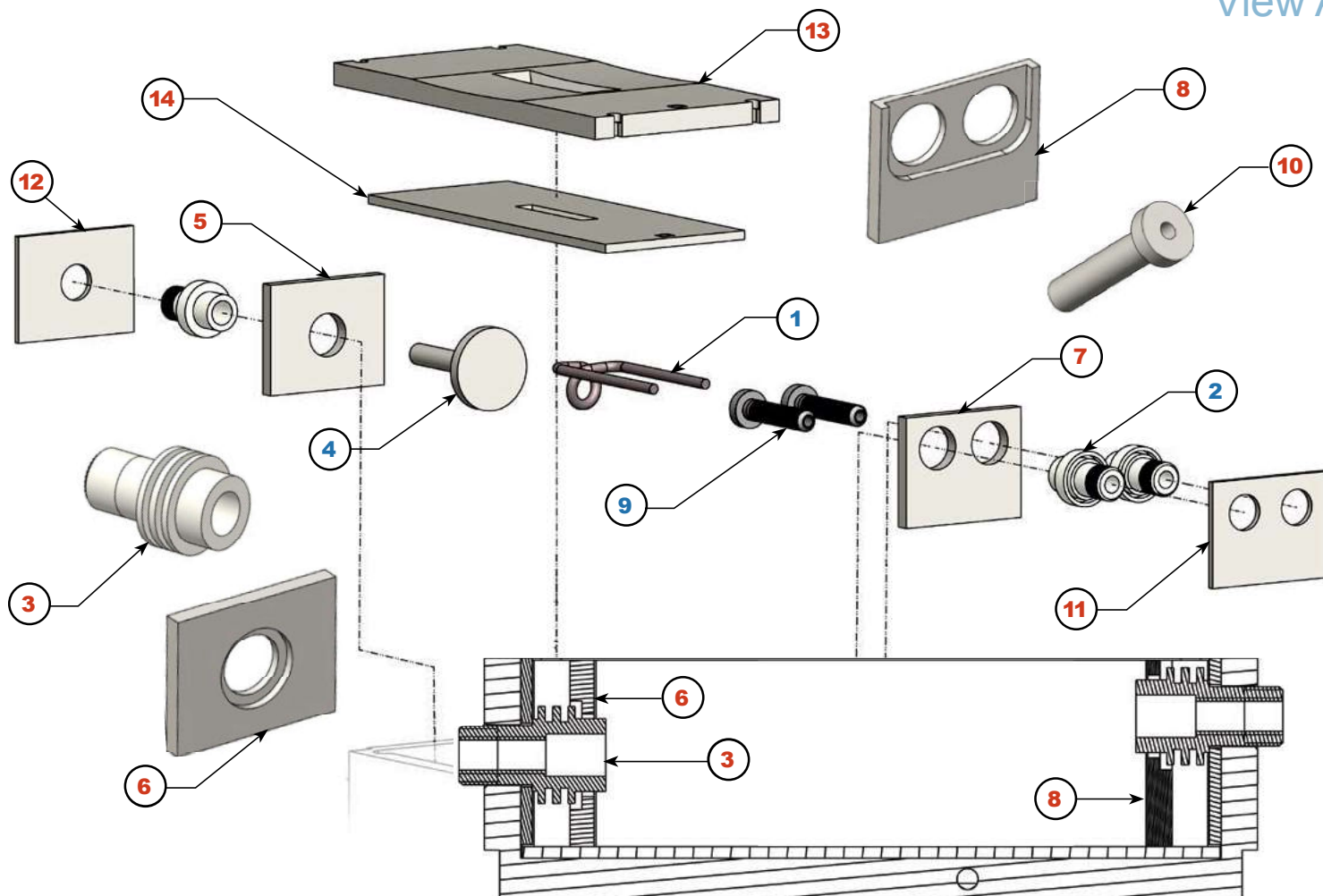
Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55109A	Gas Tube Assembly, Stainless/Tantalum	E17014832	1
3	55109T	Gas Manifold Tube, Tantalum	E17014832	
4	55150G	Chamber, 1 PC, Graphite (Non Vaporizer)	No OEM Reference	1
5	55150W	Chamber, 1 PC, Tungsten	No OEM Reference	1
6	55160W	Liner, Base Plate, Tungsten	No OEM Reference	1
7	55163W	Liner, Side Plate, Tungsten	No OEM Reference	2

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Glemco Customized Design One Piece Molybdenum Arc Chamber/Liner System

View A



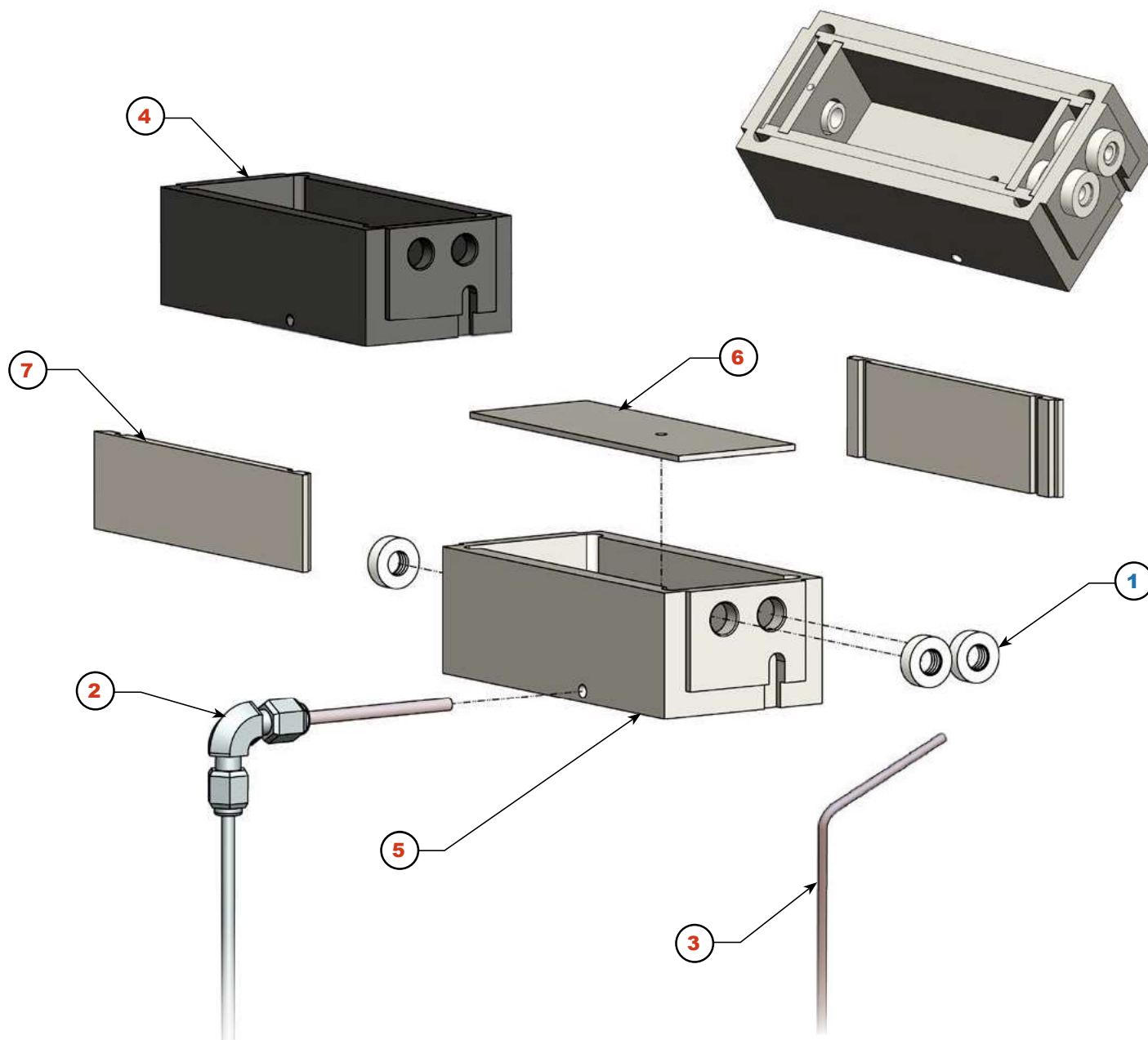
Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	51109C	Filament/Repeller Insulator (Enhanced), Used With 55079B & 55080C	E17168271, E17168272	1
4	55074	Reflector, Molybdenum	E17036981	1
5	55079A	Reflector Shield, Molybdenum	E17037063	1
6	55079B	Repeller Shield, Molybdenum (Enhanced)	E17037063	
7	55080A	Filament Shield, Molybdenum	E17037062	1
8	55080C	Filament Shield, Molybdenum (Enhanced)	E17037062	1
9	55101	Filament Screw, Tantalum	E17037001, E17066340, E17179690	2
10	55101M	Filament Screw, Molybdenum	E17037001	
11	55161	Filament End Liner, Molybdenum	No OEM Reference	1
12	55162	Repeller End Liner, Molybdenum	No OEM Reference	2
13	55409	Arc Chamber Top Plate, For Use With .080 Liner, Molybdenum	No OEM Reference	1
14	55410	Top Plate Liner, .080, Molybdenum	No OEM Reference	1

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Glemco Customized Design One Piece Molybdenum Arc Chamber/Liner System

View B



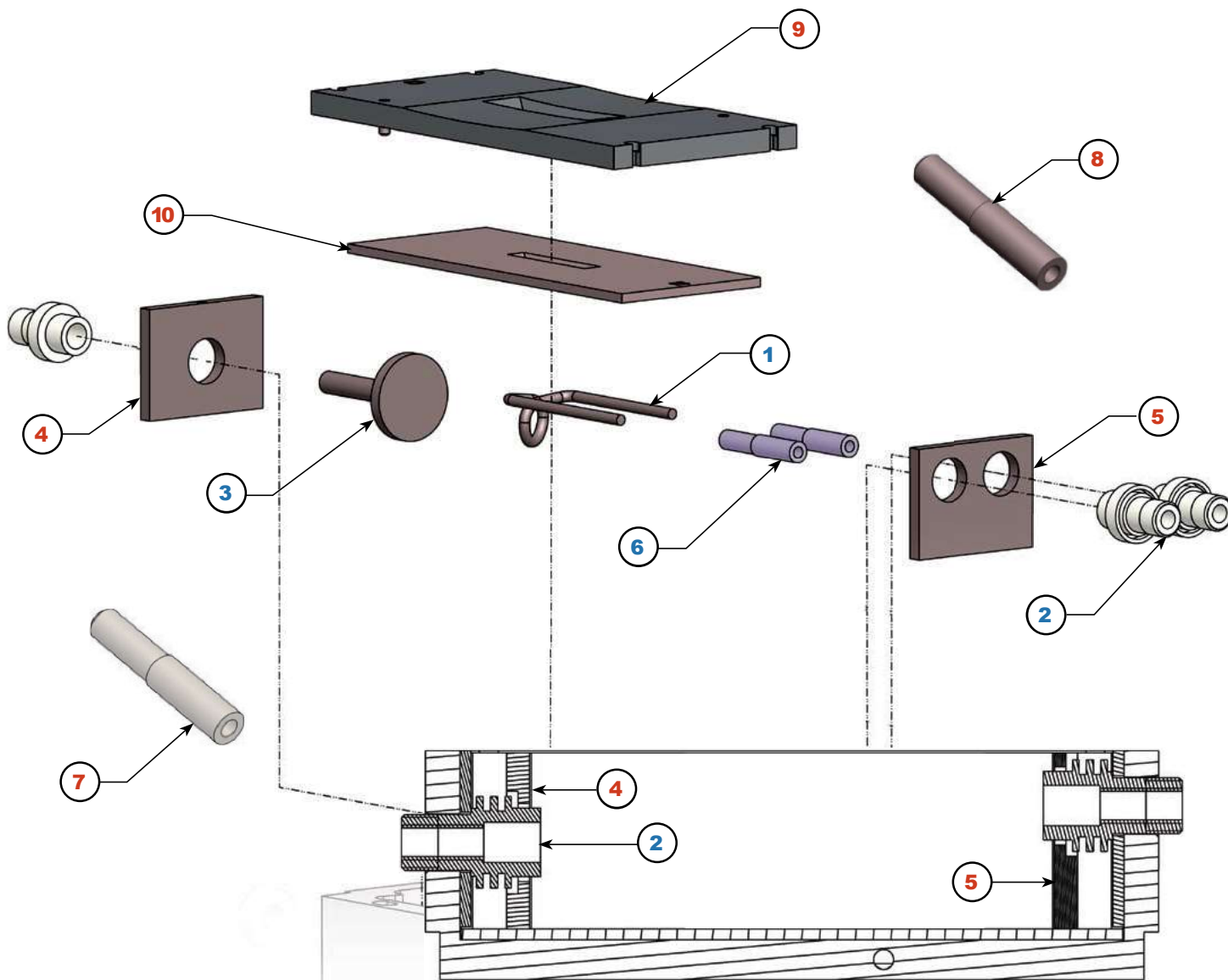
Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55109A	Gas Tube Assembly, Stainless/Tantalum	E17014832	1
3	55109T	Gas Manifold Tube, Tantalum	E17014832	1
4	55150	Chamber, 1 PC, Molybdenum	E17036921, E17063191	1
5	55150G	Chamber, 1 PC, Graphite (Non Vaporizer)	No OEM Reference	1
6	55160	Liner, Base Plate, Molybdenum	No OEM Reference	1
7	55163	Liner, Side Plate, Molybdenum	No OEM Reference	1

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Glemco Customized Design One Piece Hybrid Arc Chamber/Liner System

View A



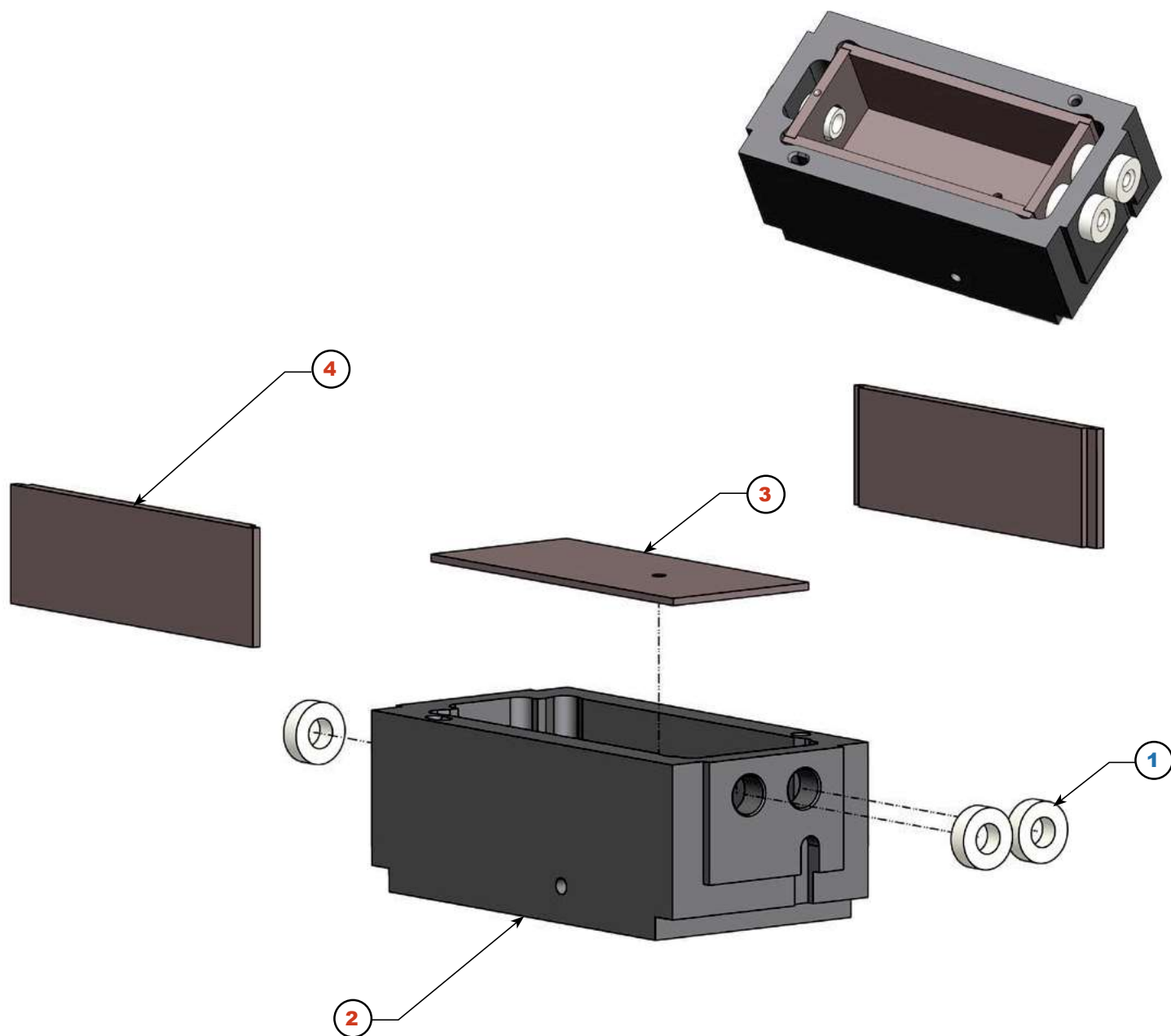
Item	P/N	Description	OEMs	Qty
1	51068D	Pigtail Filament, Tungsten	E19009080	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	55074W	Reflector, Tungsten	E17066330, E17036981W	1
4	55079AW	Reflector Shield, Liner Version, 1 PC Arc Chamber, Tungsten	E17037063	1
5	55080AW	Filament Shield, 1 PC Arc Chamber, Tungsten	E17037062	1
6	55101A	Filament Screw, Headless Design, Tantalum	E17037001, E17066340, E17179690	2
7	55101AM	Filament Screw, Headless Design, Molybdenum	E17179692	
8	55101AW	Filament Screw, Headless Design, Tungsten	E17037001	
9	55409G	Arc Chamber Top Plate, Uses .080 Liner, Graphite	No OEM Reference	1
10	55410W	Top Plate Liner, .080, Tungsten	No OEM Reference	1

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Glemco Customized Design One Piece Hybrid Arc Chamber/Liner System

View B



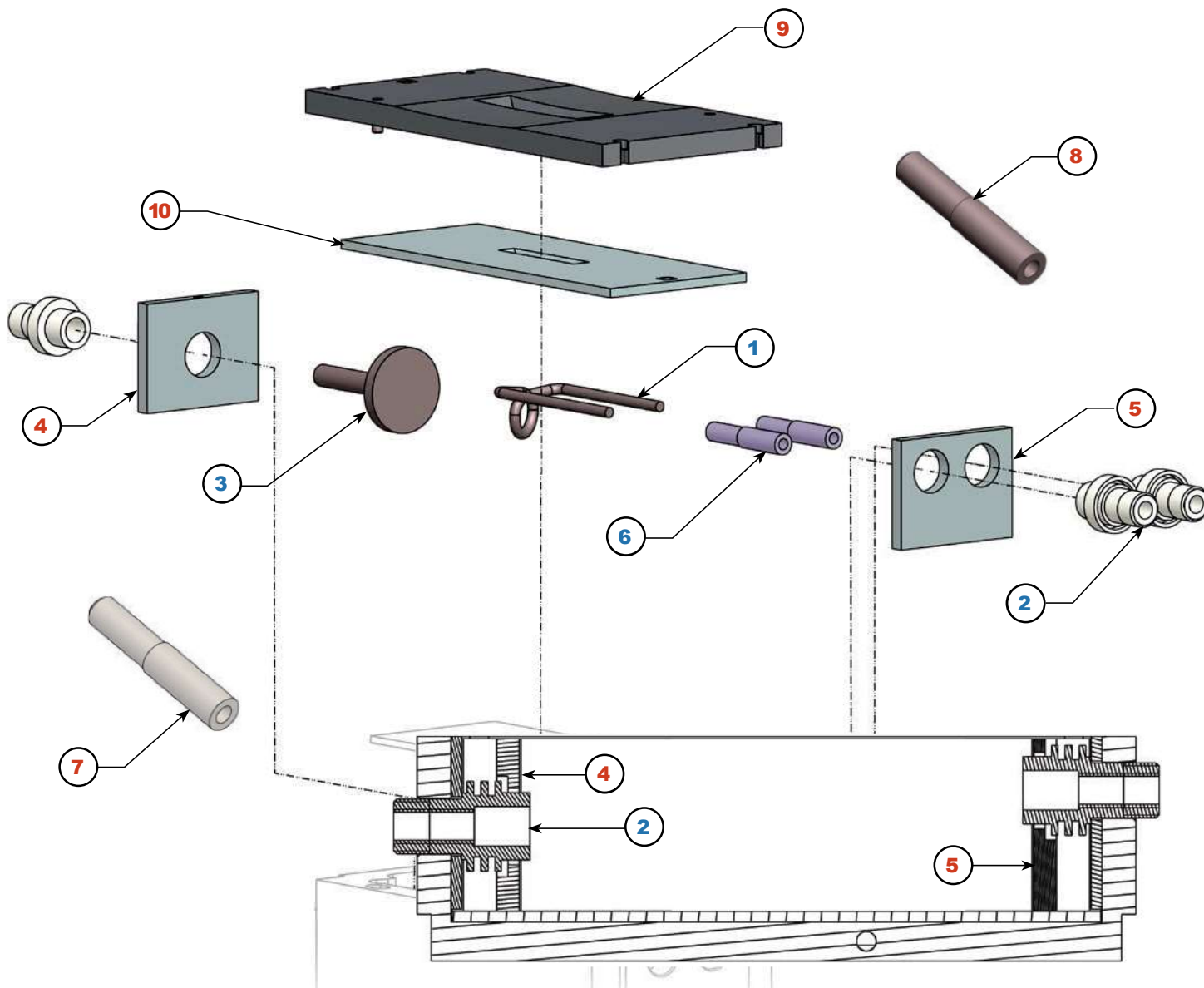
Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55150BG	Chamber, 1 PC, Graphite	E17036921, E17063191	1
3	55160AW	Liner, Base Plate, Tungsten	No OEM Reference	1
4	55163AW	Liner, Side Plate, Tungsten	No OEM Reference	2

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Glemco Customized Design One Piece Aluminum Nitride Arc Chamber/Liner System

View A



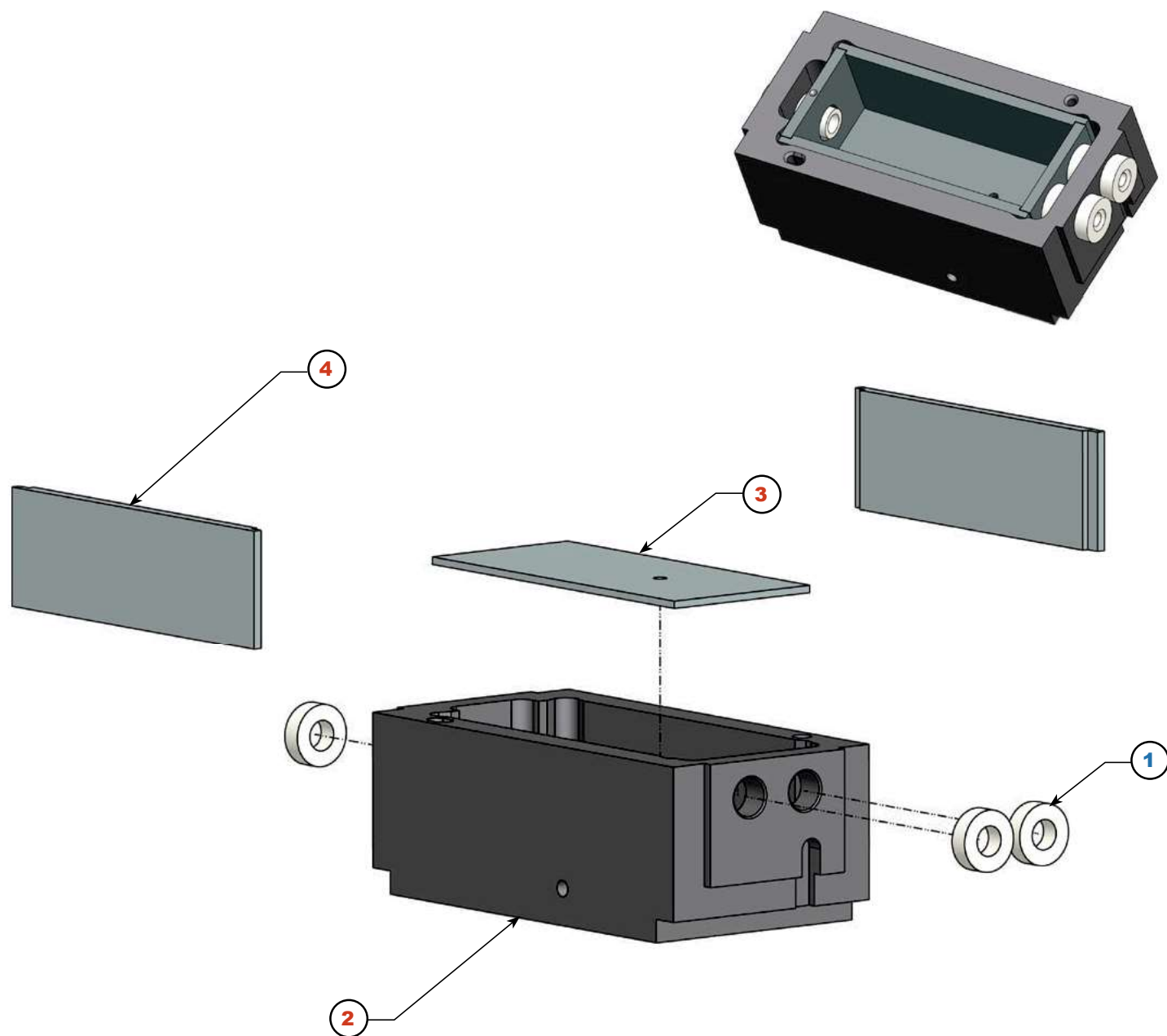
Item	P/N	Description	OEMs	Qty
1	51068D	Pigtail Filament, Tungsten	E19009080	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	55074W	Reflector, Tungsten	E17066330, E17036981W	1
4	55079AC	Reflector Shield, Aluminum Nitride	E17037063	1
5	55080AC	Filament Shield, Aluminum Nitride	E17037062	1
6	55101A	Filament Screw, Headless Design, Tantalum	E17037001, E17066340, E17179690	2
7	55101AM	Filament Screw, Headless Design, Molybdenum	E17179692	
8	55101AW	Filament Screw, Headless Design, Tungsten	E17037001	
9	55409G	Arc Chamber Top Plate, Uses .080 Liner, Graphite	No OEM Reference	1
10	55410C	Top Plate Liner, .080, Aluminum Nitride	No OEM Reference	1

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One Piece Aluminum Nitride Arc Chamber/Liner System

View B



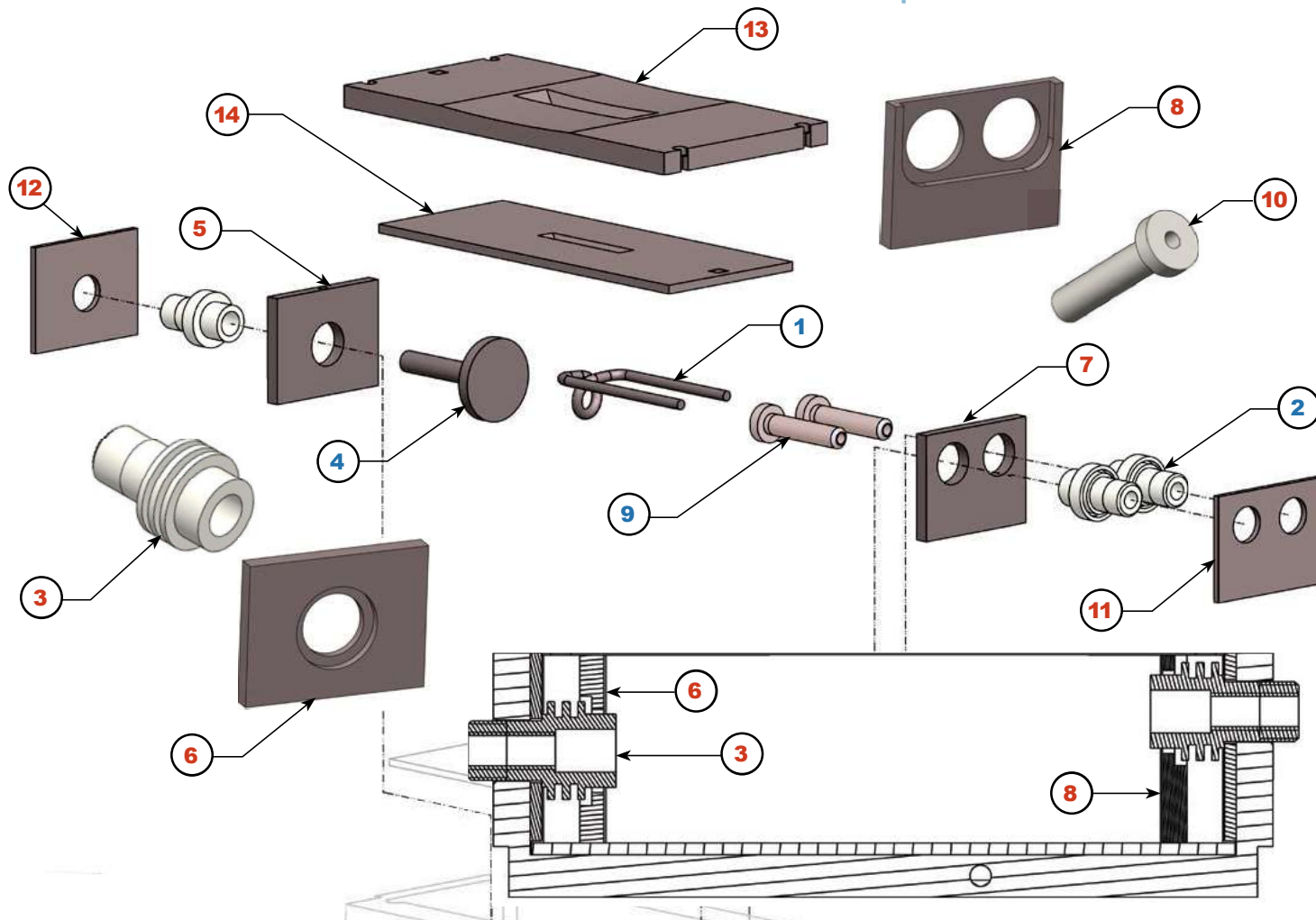
Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55150BG	Chamber, 1 PC, Graphite	E17036921, E17063191	1
3	55160AC	Liner, Base Plate, Aluminum Nitride	No OEM Reference	1
4	55163AC	Liner, Side Plate, Aluminum Nitride	No OEM Reference	2

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Glemco Customized Design One Piece Graphite Arc Chamber With Manifold/Tungsten Liners

Vaporizer Process View A



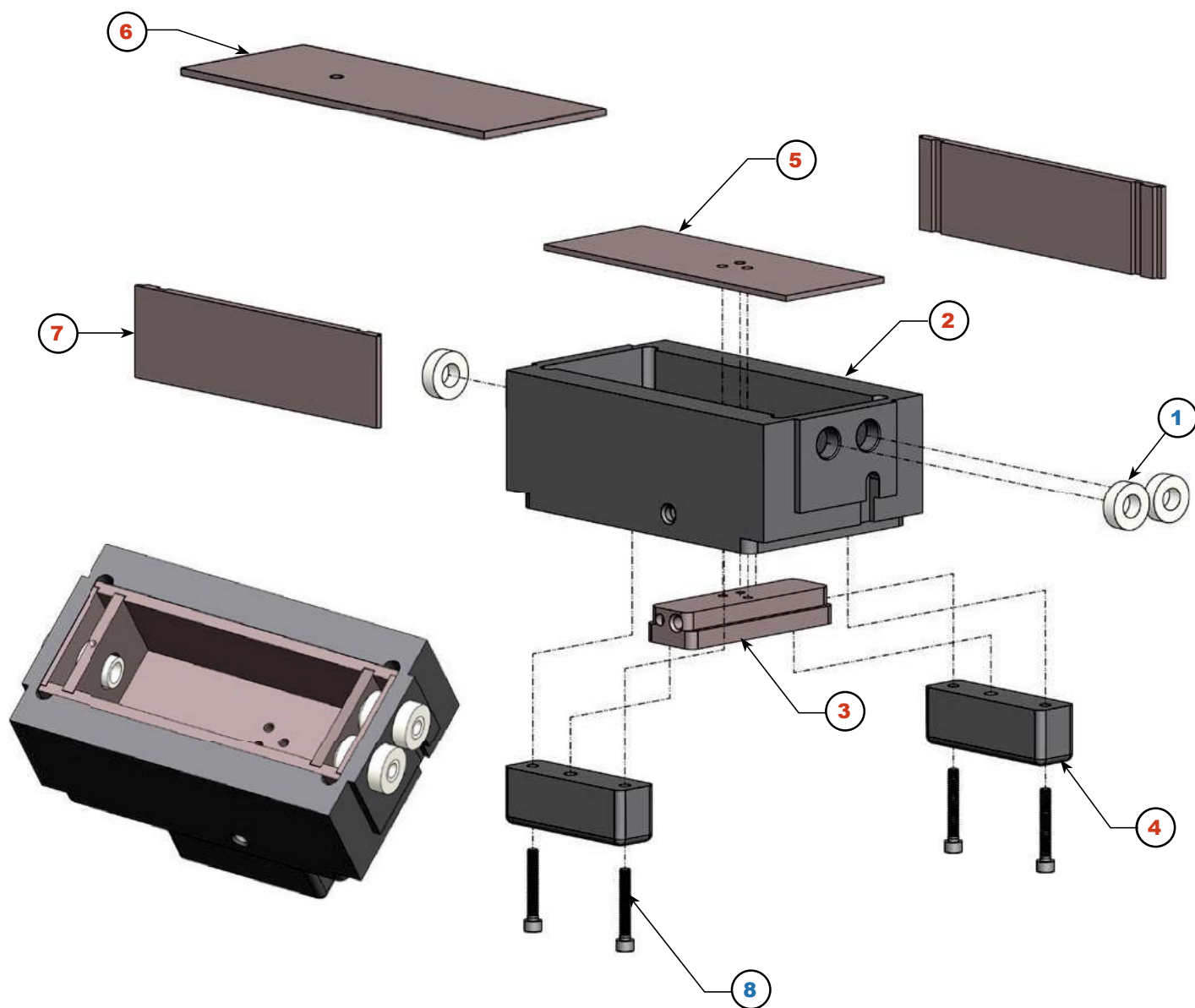
Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	51109C	Filament/Repeller Insulator (Enhanced) Used With 55079BW & 55080CW	E17168271	
4	55074W	Reflector, Tungsten	E17066330, E17036981W	1
5	55079AW	Reflector Shield, Tungsten	E17037063	1
6	55079BW	Repeller Shield, Liner Version, Tungsten (Enhanced)	E17037063	
7	55080AW	Filament Shield, Tungsten	E17037062	1
8	55080CW	Filament Shield, Liner Version, Tungsten (Enhanced)	E17037062	
9	55101	Filament Screw, Tantalum	E17037001, E17066340, E17179690	2
10	55101M	Filament Screw, Molybdenum	E17037001	
11	55161W	Filament End Liner, Tungsten	No OEM Reference	1
12	55162W	Repeller End Liner, Tungsten	No OEM Reference	1
13	55409W	Arc Chamber Top Plate, For Use With .080 Liner, Tungsten	No OEM Reference	1
14	55410W	Top Plate Liner,.080, Tungsten	No OEM Reference	1

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Glemco Customized Design One Piece Graphite Arc Chamber With Manifold/Tungsten Liners

Vaporizer Process View B

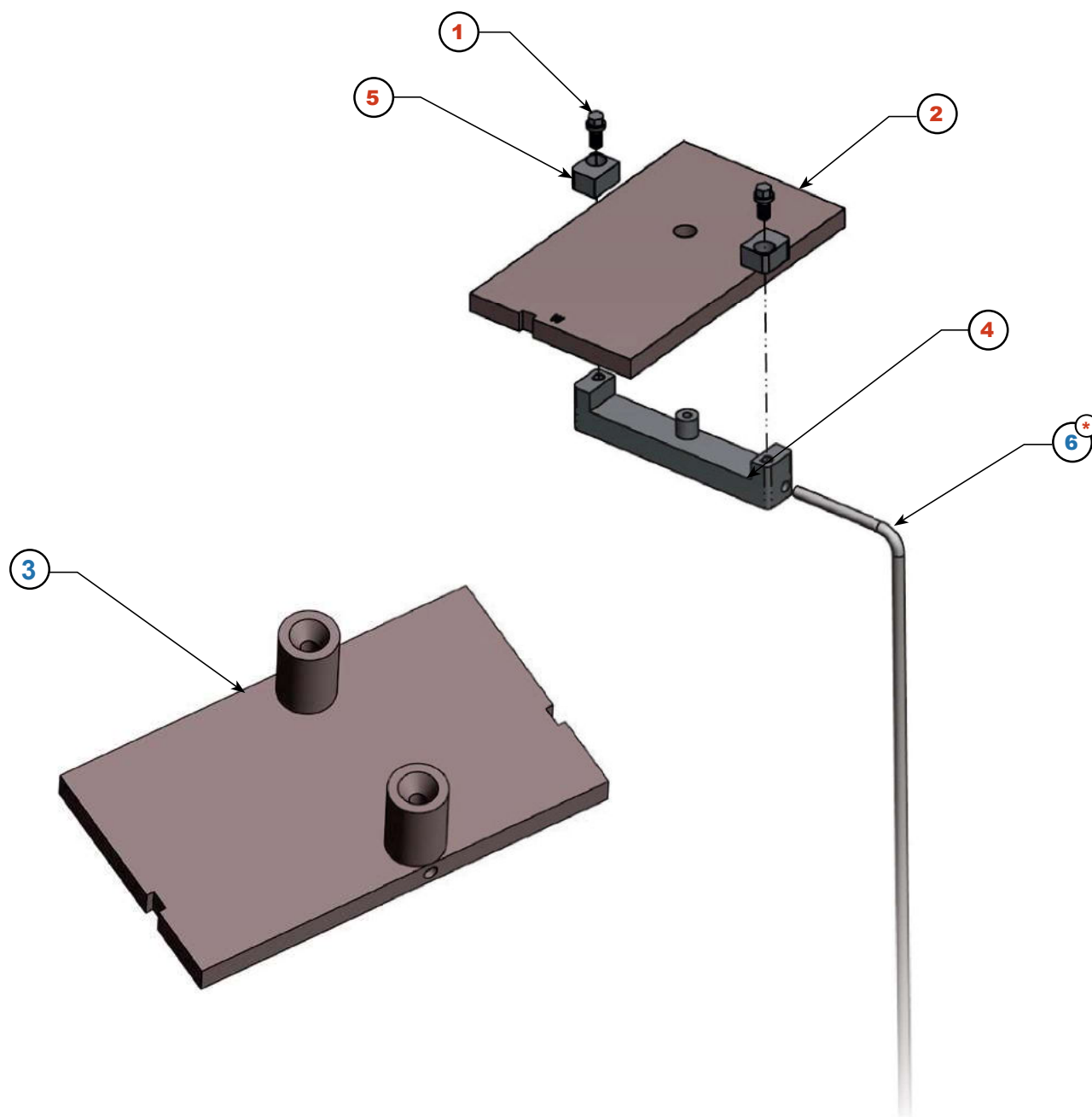


Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55150A-1	One Piece Arc Chamber, Graphite	E17036921, E17063191	1
3	55150A-3	Manifold, Tungsten	E17036921, E17063191	1
4	55150A-4	Gas Port, Graphite	E17036921, E17063191	2
5	55160VW	Liner, Base Plate, Tungsten	No OEM Reference	1
6	55160W	Liner, Base Plate, Tungsten	No OEM Reference	
7	55163W	Liner, Side Plate, Tungsten	No OEM Reference	2
8	8A747	SHCS, 4-40 X 3/4	No OEM Reference	4

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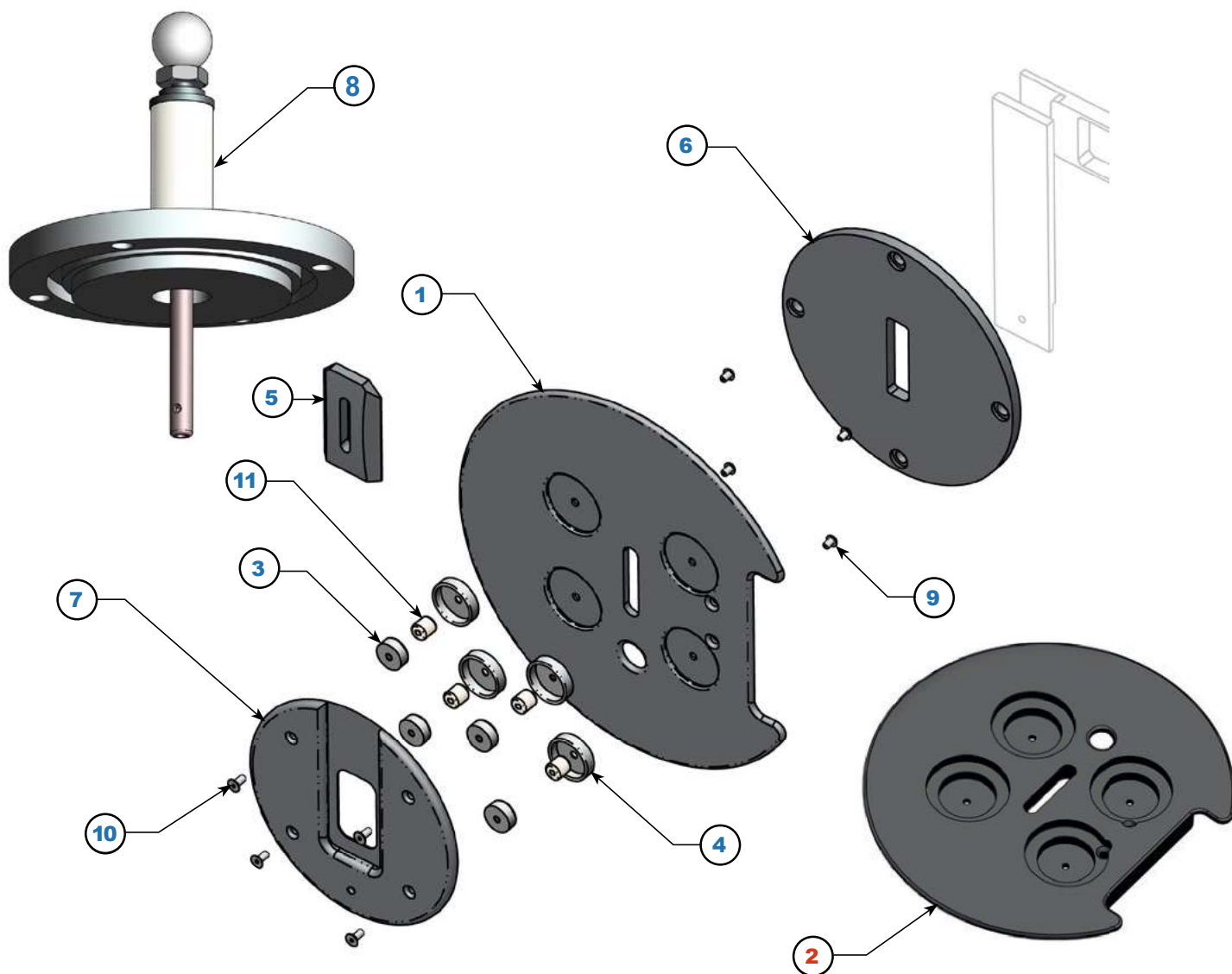
Options For Gas Feed/Manifold Components



Item	P/N	Description	OEMs	Qty
1	20105	Endcap Retainer, Graphite	No OEM Reference	2
2	55083BW	Base Plate, Tungsten	E17063191	1
3	55083VW	Base Plate, Tungsten	E17063190	1
4	55102-1	Manifold, Graphite	No OEM Reference	1
5	55102-2	Manifold Clamp, Graphite	No OEM Reference	2
6	55103*	Source Gas Tube, Tantalum	E17014833	1

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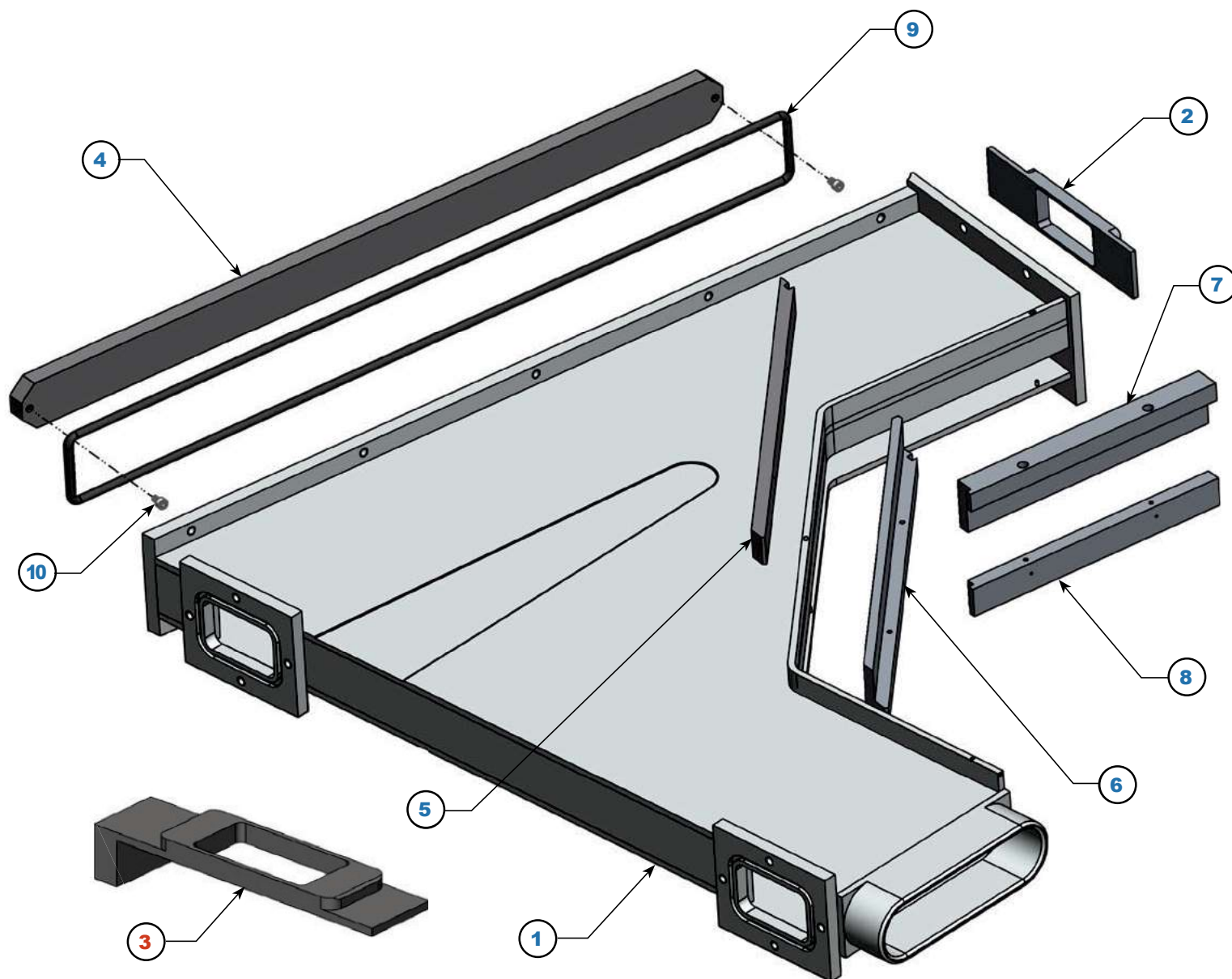
Extraction Electrode



Item	P/N	Description	OEMs	Qty
1	55063	Ground Electrode, Graphite	E17026550	1
2	55063A	Ground Electrode, Custom	E17026550	
3	55066	Inner Shielding Cup, SST	E17002860	4
4	55067	Outer Shielding Cup, SST	E17002870	4
5	55073	Suppression Electrode, Graphite	E17026540	1
6	55107	Exit Aperture, Graphite	E17023041	1
7	55108	Manipulator Mounting Plate, Graphite	E17026530	1
8	55122	High Voltage Feedthru	E11034700	
9	8A317	VBH 6-32 X 3/16 18-8 SST	No OEM Reference	4
10	8A327	VFH 6-32 X 5/16 18-8 SST, 82°	No OEM Reference	4
11	99054	Ceramic Standoff, 3/8" Diameter X 3/8" Long X 6-32 Thread	E59000003, 2866042	4

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

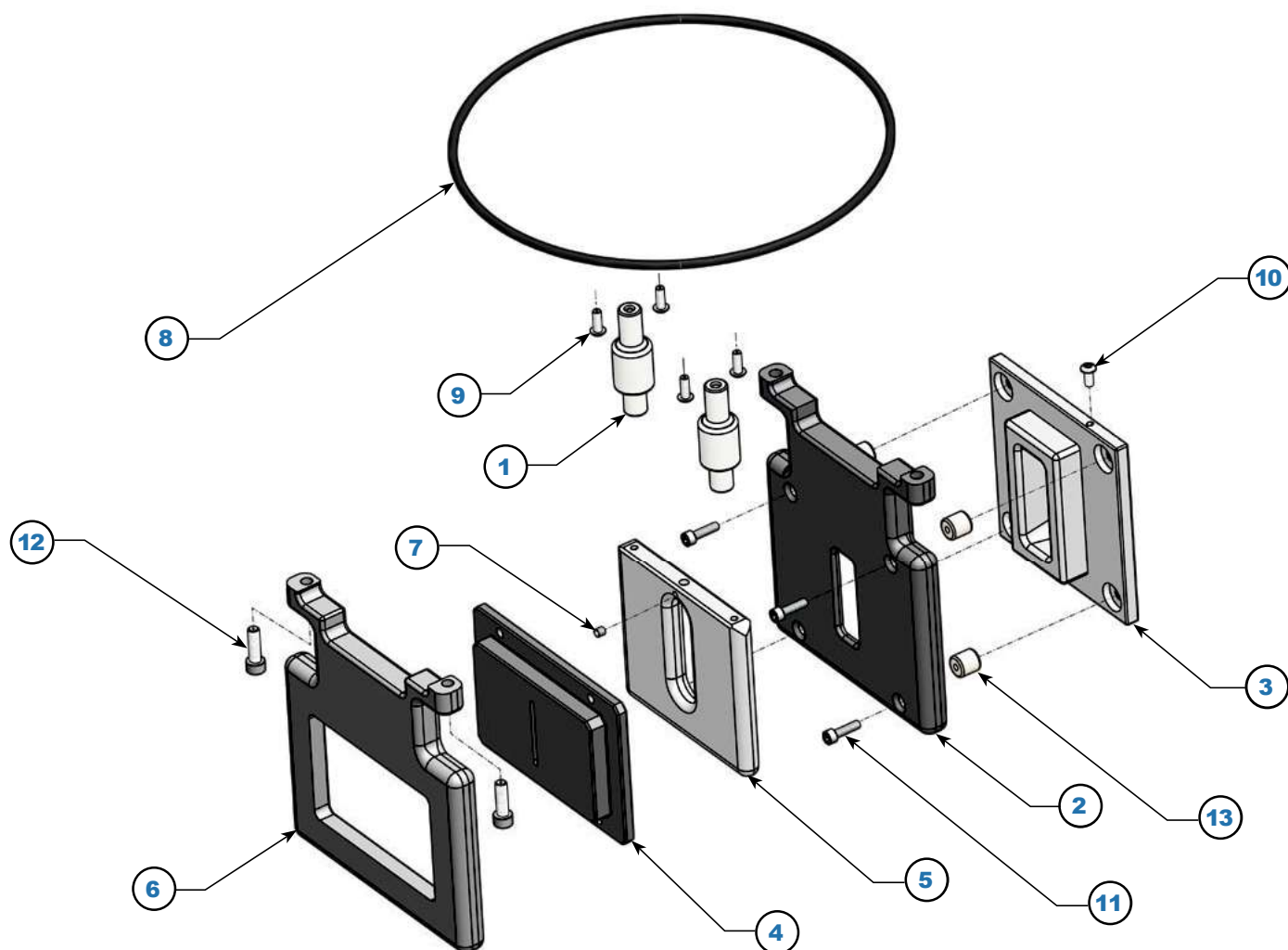
Analyzer Magnet



Item	P/N	Description	OEMs	Qty
1	52138	Analyzer Magnet Chamber, Liners Not Included	E17001070	1
2	55115	Aperture	E17033420	1
3	55115MOD	Aperture, Keyed	E17033420	
4	55116	Liner	E17016260	1
5	55321	Shield	E17145700	1
6	55322	Shield Bracket	E17145710	1
7	55323	Shield Analyzer Exit Upper	E17145720	1
8	55325	Shield Analyzer Exit Lower	E17145730	1
9	8A158V	O-Ring, 2, -384, Viton®	E35000166	1
10	8B237	SHCS, Vented, 8-32 X 1/4, SST	E47000292	2

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

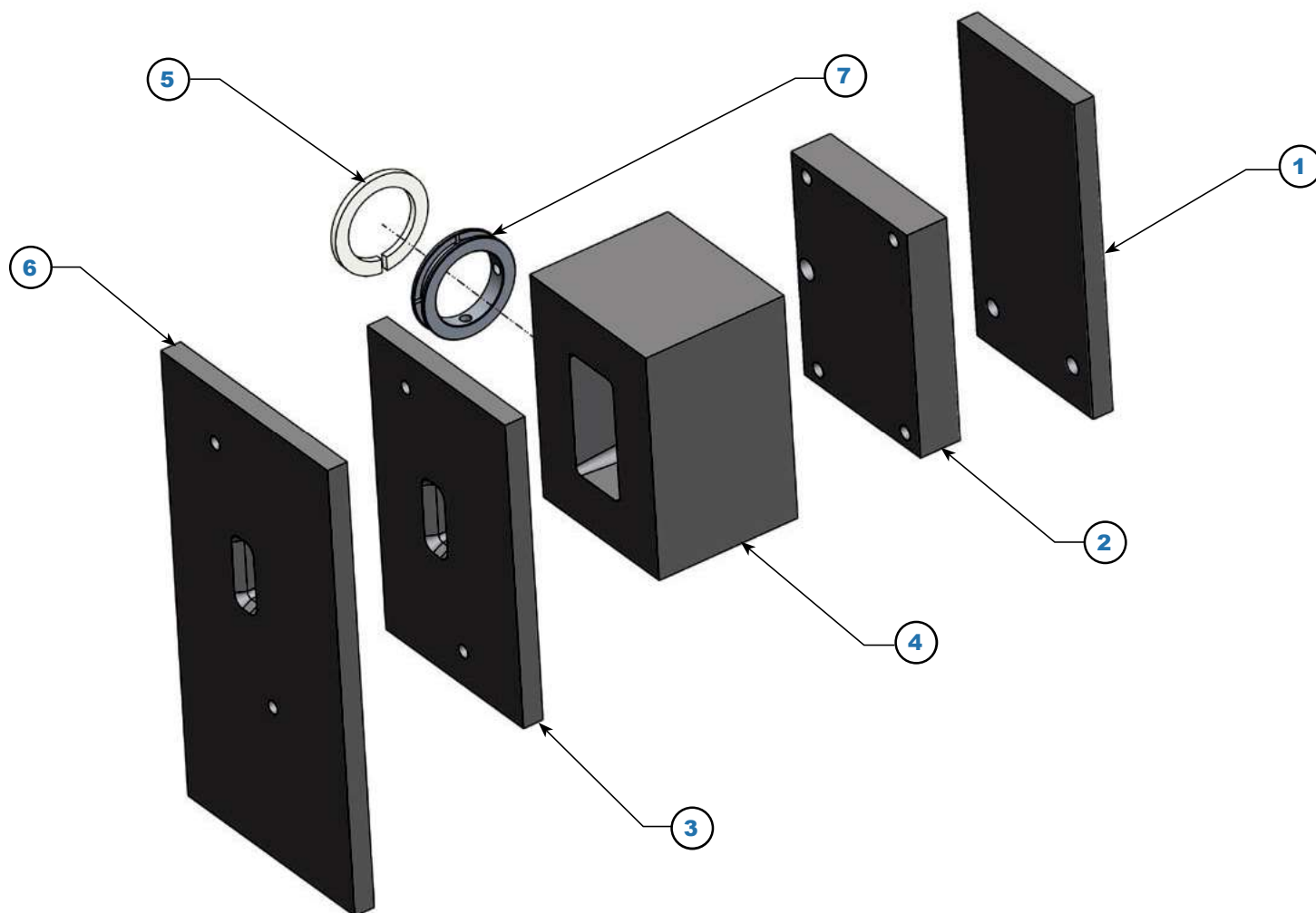
Mirror Assembly



Item	P/N	Description	OEMs	Qty
1	52073	Mirror Insulator	E17036030	2
2	52097	Plate, Ground, Mirror, Graphite	E17061270	1
3	52135	Suppressor Plate	E17020820	1
4	55057	Mirror Aperture	E17026590	1
5	55120	60 KV Mirror	E17030530	1
6	55320	Aperture Support, Mirror	E17061280	1
7	82114	6-32 X 1/8, Set Screw, SST	E47000119	1
8	83162	O-Ring, -262, Buna	E35000047	1
9	8A257	6-32 X 3/8" Vented Button Head Socket Screw, SST	E47000192	4
10	8B234	Screw, Vented, BH 6-32 X 5/16L, SST	3350605	1
11	8B235	SHCS, Vented, 6-32 X 1/2L, SST	E47000163	4
12	8B236	SHCS, Vented, 10-32 X 5/8", SST	3351010	2
13	99054	Ceramic Standoff, 3/8" Diameter X 3/8" Long X 6-32 Thread	E59000003, 2866042	4

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

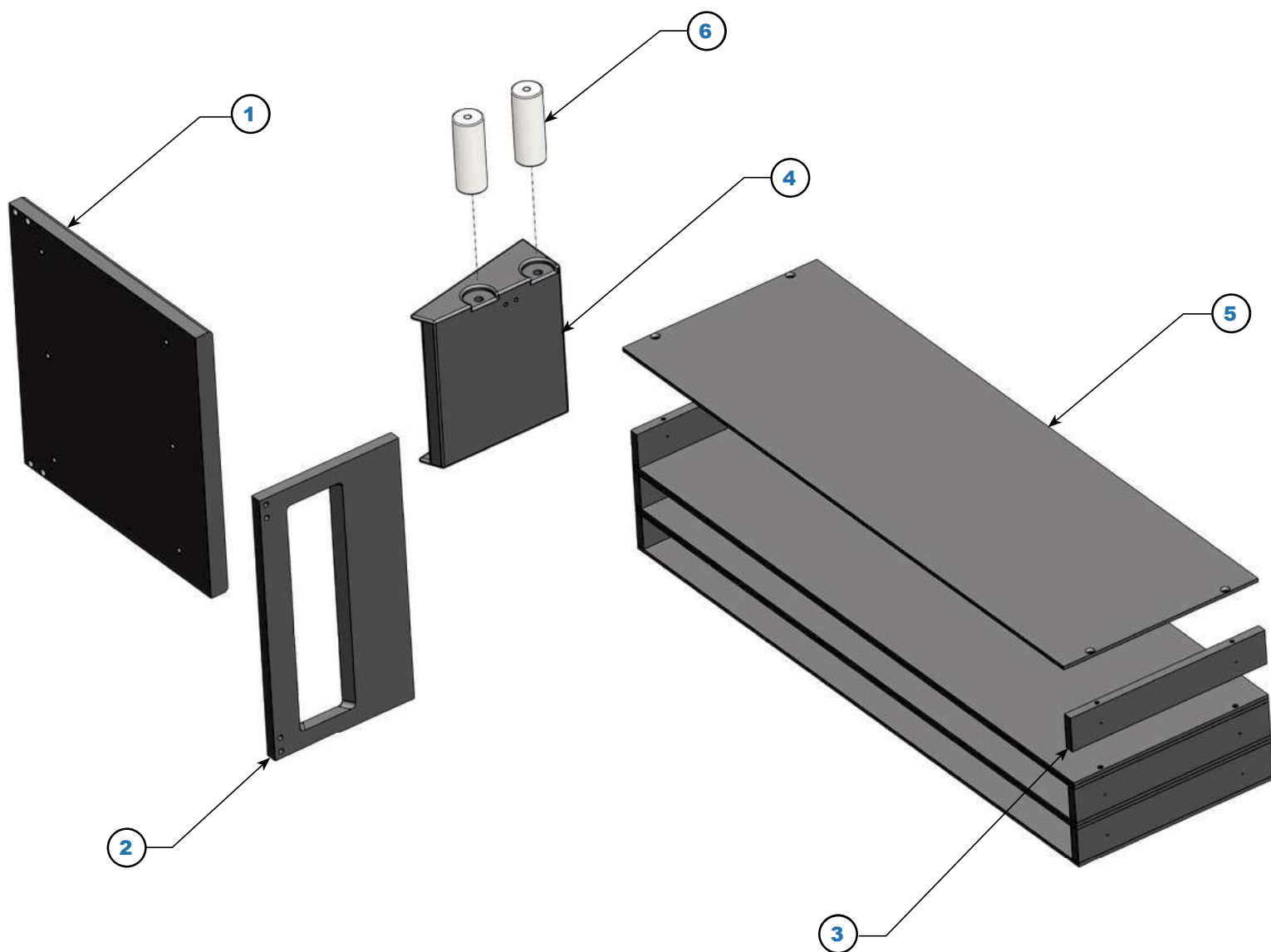
Faraday/Setup Cup



Item	P/N	Description	OEMs	Qty
1	51122	Neutral Dump, Beamstop	E17106820	1
2	55059	Setup - Faraday Plate, Graphite	E17001780	1
3	55112	Faraday Gate Focus	E17023050	1
4	55113	Faraday Cup, Special, Graphite	E17032831-1	1
5	55124	Set Up Seal, Backup Ring	E17037140	1
6	55127	Focus Cup Plate	E17123500 Rev A	1
7	55128	Setup Cup Seal Spacer	E17032810	1

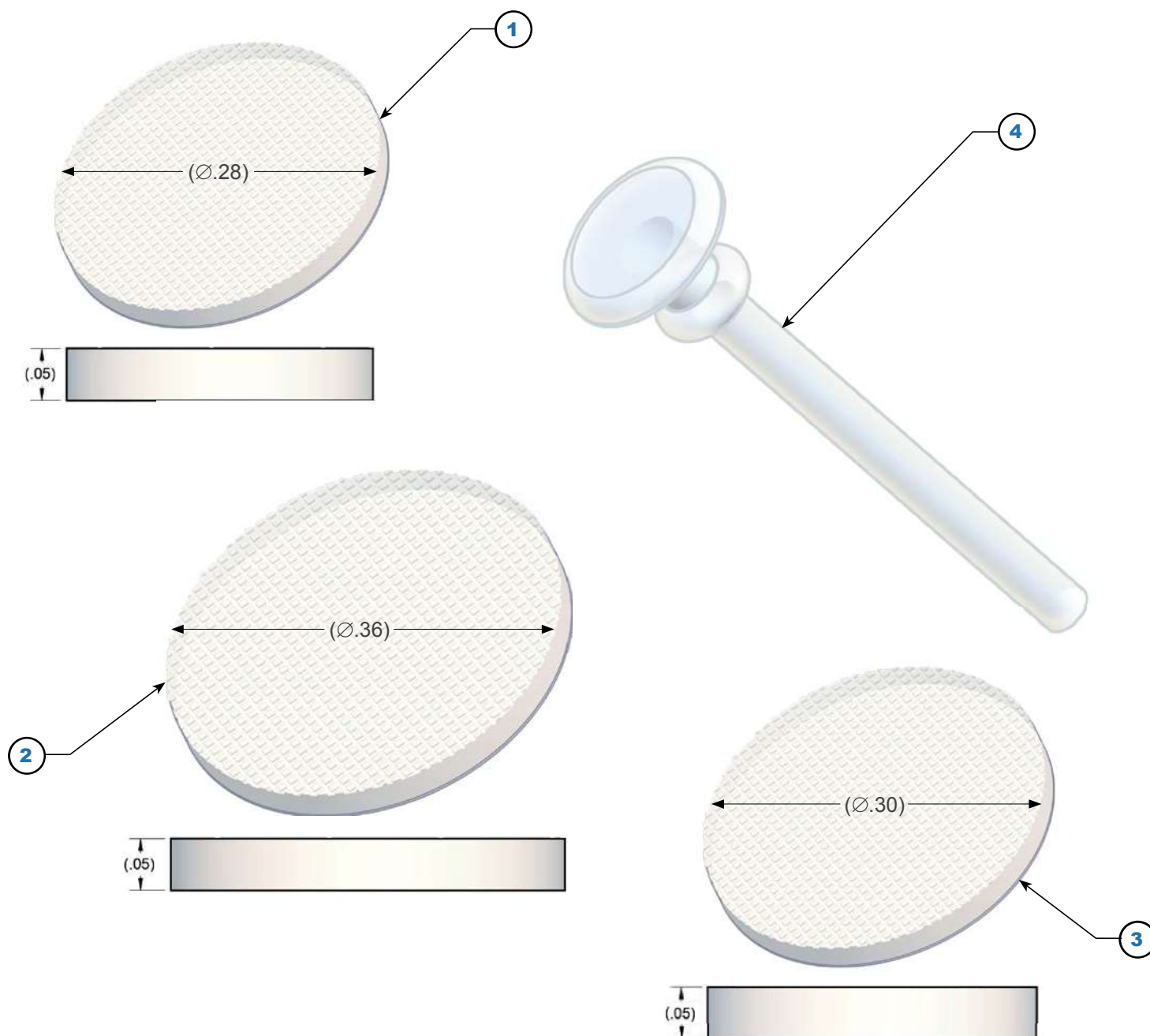
* Glemco offers improvements, modifications, or alternatives to standard OEM replacement components as indicated in red throughout this guide.

Dipole & Scanner



Item	P/N	Description	OEMs	Qty
1	52136	Deflector, Scan, Ground Plate	E17026680	1
2	52137	Plate, Scan, Front, Ground, Graphite	E17103110	1
3	55117	Liner Dipole Vertical Support, Graphite	E17036400	6
4	55118	Scan Plate, Graphite	E17026720-1	1
5	55119	Dipole Liner	E17036410	6
6	83742	Ceramic Standoff, 2" Long X 3/4" Diameter, 10-32 Thd X 3/8" Deep	E59000010	2

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



Item	P/N	Description	OEMs	Qty
1	55125	Pick Pad, Ø.28 Diameter	E17045252	1
2	55125A	Pick Pad, Ø.36 Diameter	E17045250 Rev: A	1
3	55125B	Pick Pad, Ø.30 Diameter	E17045252	1
4	55126	Spider Pad	E17014500	1

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

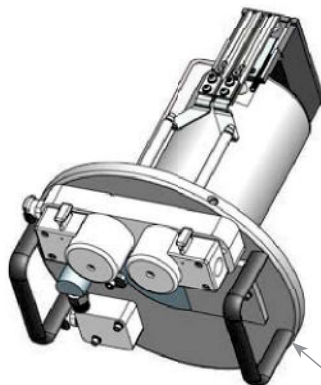
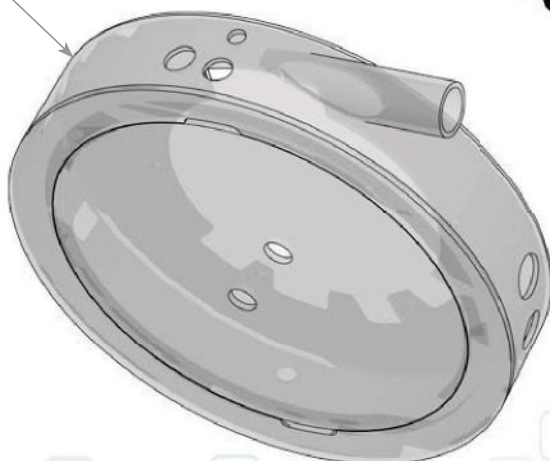


A Resource for Semiconductor Manufacturers

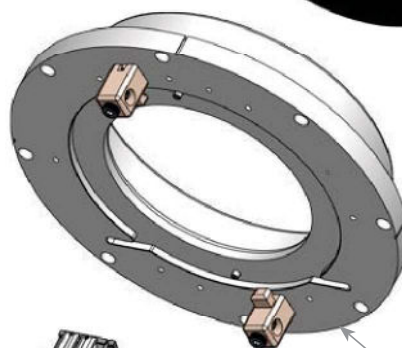
Illustrated Parts Guide for **Varian E500 Implanters** with TI P/N Reference

E500 Upgrade Kits
P/N's K55000, KE500UP &
KE500UPMOD
pgs. 13-15

Source Shroud
P/N 55329
pg. 2



Modified Source
Assembly
pgs. 3-10



Modified Source Flange
P/N 55327A
pg. 11



Modified Extraction
Electrode
pg. 12



Source Shroud

TI P/N: 4720752-0001

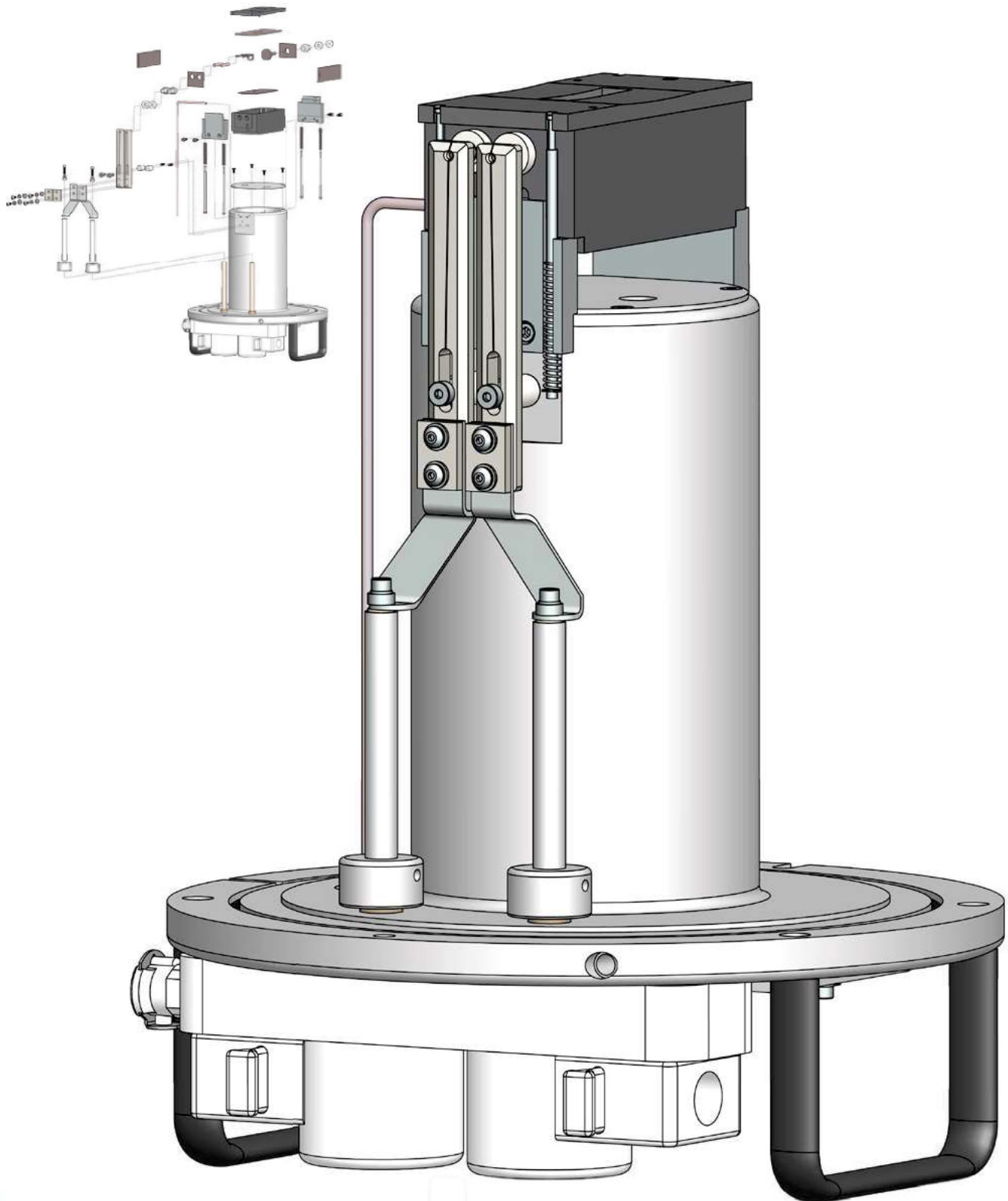
Glemco P/N: 55329





Source Assembly

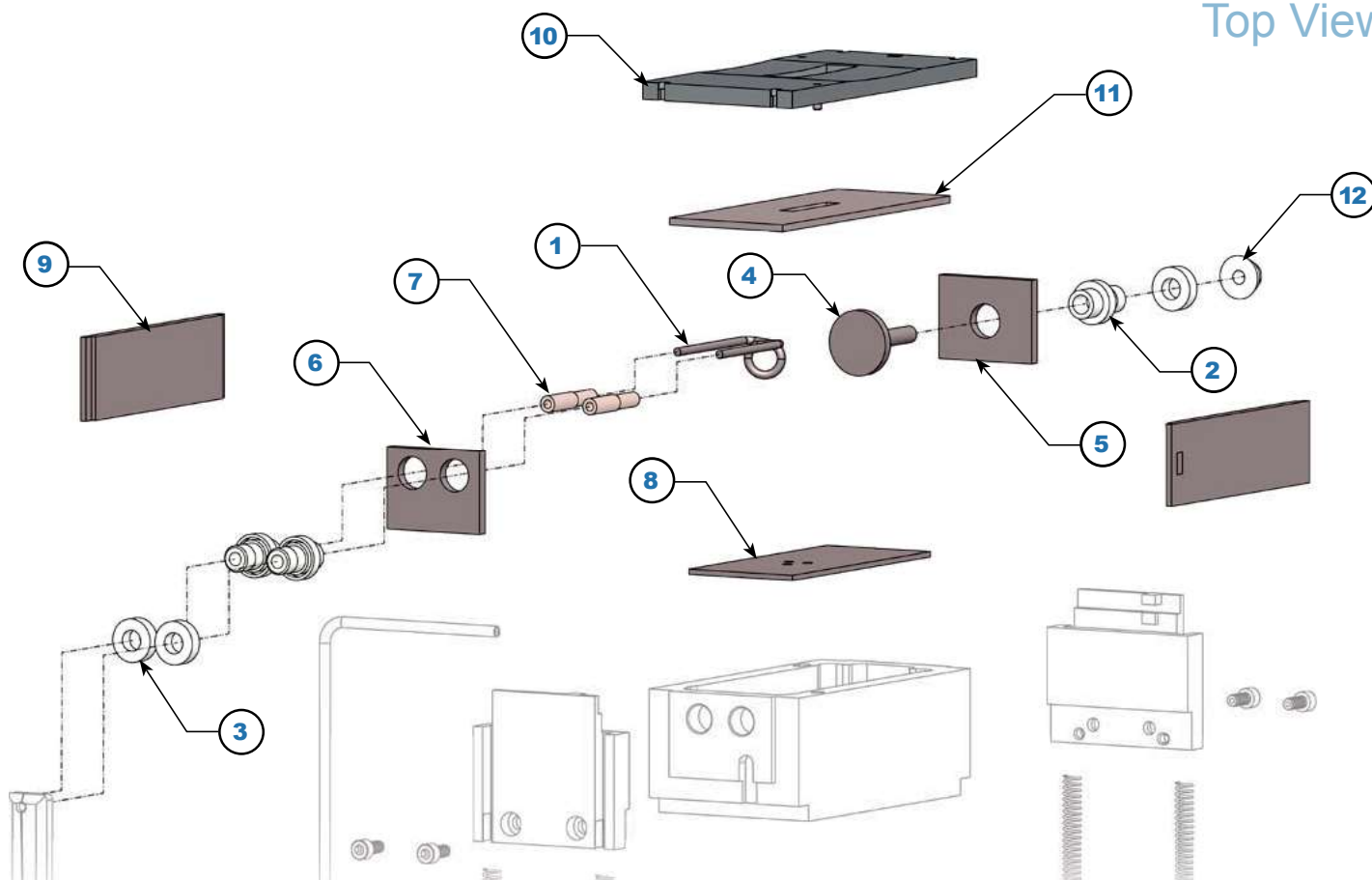
Top View





Source Assembly Components

Top View A



Order our convenient **P/N 99022TI**,
a 25 piece Ceramic Filament Insulators pack,
to have on hand for ease of maintenance.

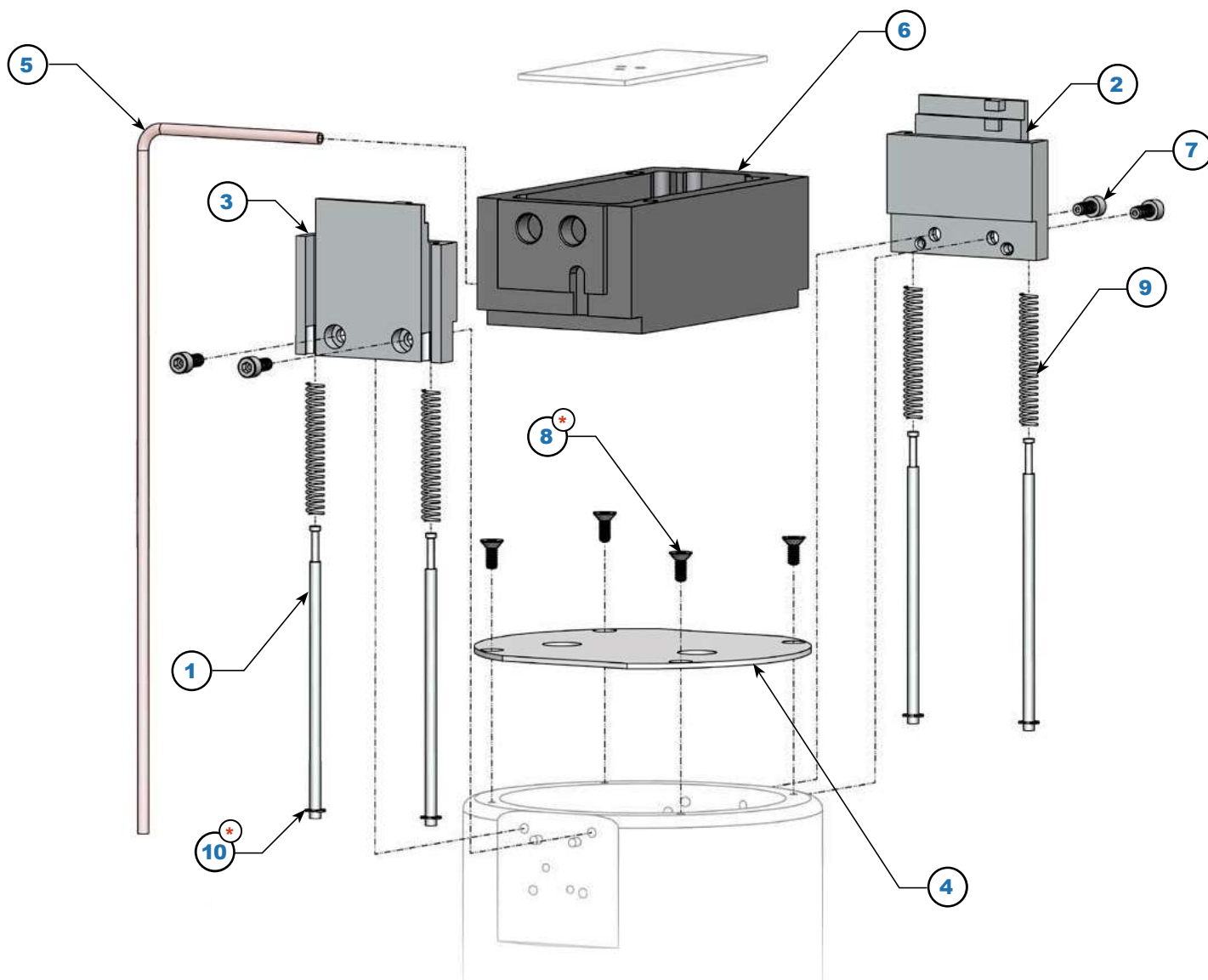


Item	Glemco P/N	TI P/N	Description	Qty
1	51068D		FILAMENT	1
2	51109A		FILAMENT/REPELLER INSULATOR, BORON	3
3	51110		FILAMENT INSULATOR NUT	3
4	55074W		REPELLER	1
5	55079AW	4720921-0001	REPELLER SHIELD	1
6	55080AW	4720920-0001	FILAMENT SHIELD	1
7	55101A		FILAMENT INSERT, HEADLESS DESIGN	2
8	55160AW	4720918-0001	LINER BASE PLATE	1
9	55163AW	4720917-0001	LINER SIDE PLATE	2
10	55409G	4720916-0001	ARC CHAMBER TOP PLATE, GRAPHITE	1
11	55410W	4720915-0001	.080 LINER ARC CHAMBER TOP PLATE	1
12	99022		CERAMIC FILAMENT INSULATOR	1
13	99022TI	1021023-0298	25 PIECE CERAMIC FILAMENT INSULATORS PACK	



Source Assembly Components

Top View B

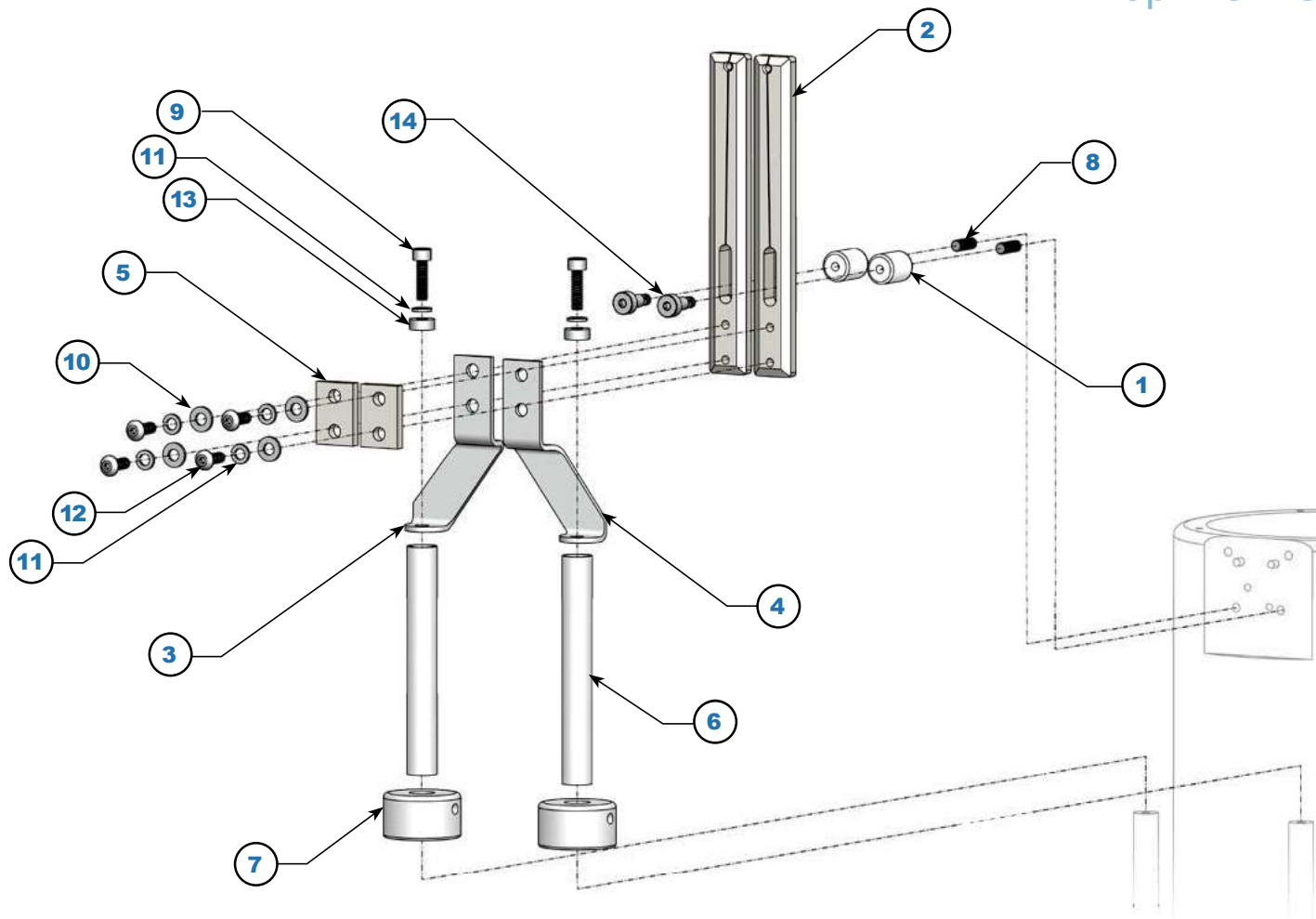


Item	Glemco P/N	TI P/N	Description	Qty
1	55068A	4607964-0001	RETAINING ROD SHORT	4
2	55099	4721213-0001	ARC CHAMBER REPELLER END MOUNTING BRACKET	1
3	55100	4721212-0001	ARC CHAMBER FILAMENT END MOUNTING BRACKET	1
4	55106		VAPORIZER HEAT SHIELD	1
5	55109T		GAS MANIFOLD TUBING	1
6	55150BG	4720919-0001	ONE PIECE ARC CHAMBER	1
7	82730		VSHCS, 6-32 X 5/16", VENTED	4
8	8B373*		4-40 X 1/4 FHPs, UNDERCUT HEAD, SST, INCLUDED IN P/N 55106	4
9	99035		SPRING	4
10	99048*		RETAINING RING, Ø.125 SHAFT, SST, INCLUDED IN P/N 55068A	4



Source Assembly Components

Top View C

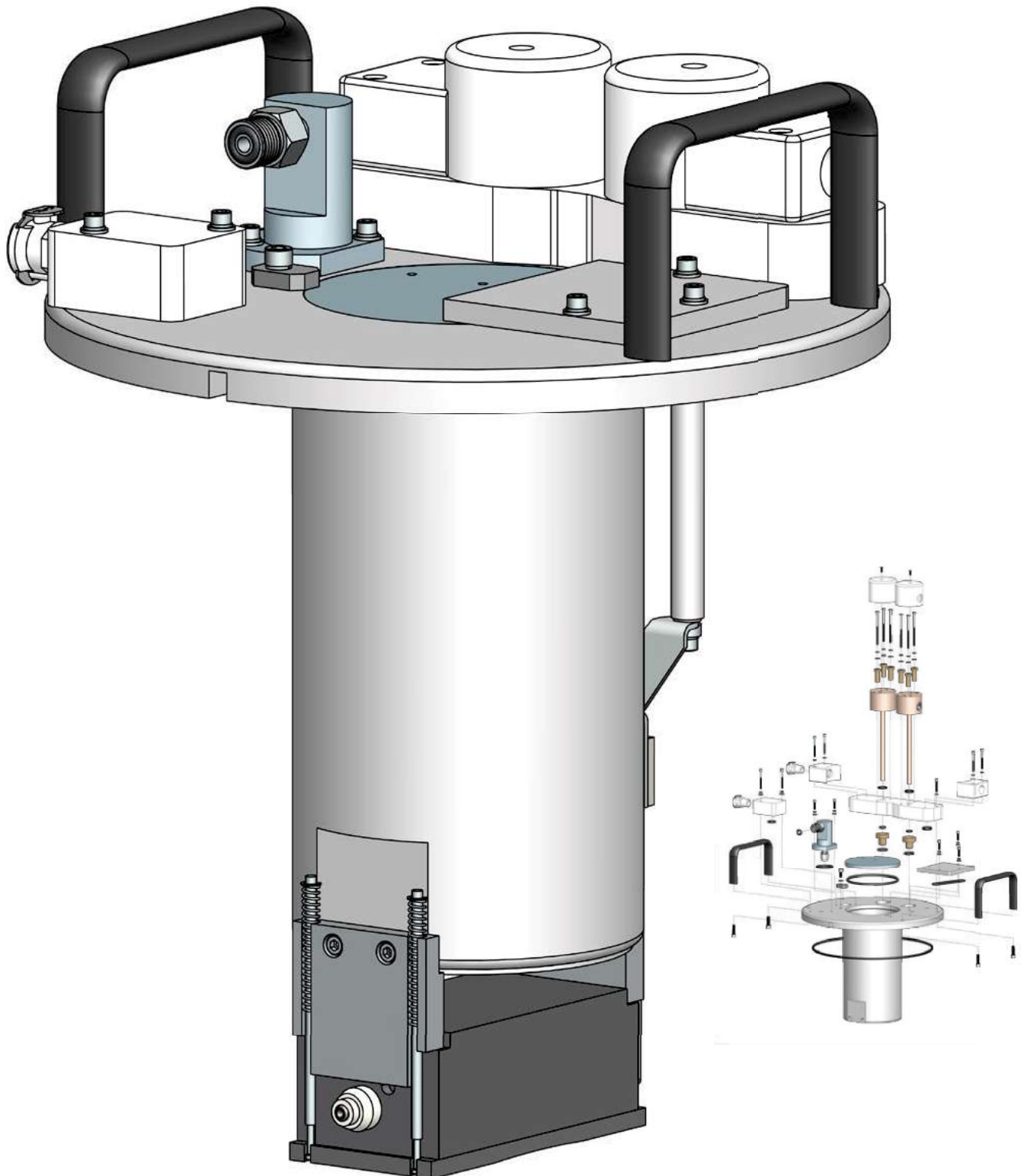


Item	Glemco P/N	TI P/N	Description	Qty
1	30681		CERAMIC STANDOFF, 3/8 X 1/2L	2
2	55071		FILAMENT CLAMP	2
3	55076		FILAMENT FEED STRAP, RIGHT	1
4	55077		FILAMENT FEED STRAP, LEFT	1
5	55081		FILAMENT FEED STRAP CLAMP	2
6	55330	4720912-0001	FEED-THRU SHIELD A	2
7	55331	4720911-0001	FILAMENT FEED-THRU SHIELD	2
8	82118		SET SCREW, 6-32 X 3/8, SST	2
9	82415		SHCS, 6-32 X 1/2"	2
10	82472		#6 FLAT WASHER	4
11	82606		#6 SPRING LOCK WASHER	6
12	82627		BHSS, 6-32 X 3/8"	4
13	83750		#6 SPACER	2
14	8B336		SHOULDER SCREW, 5/32 X 9/32, SST	2



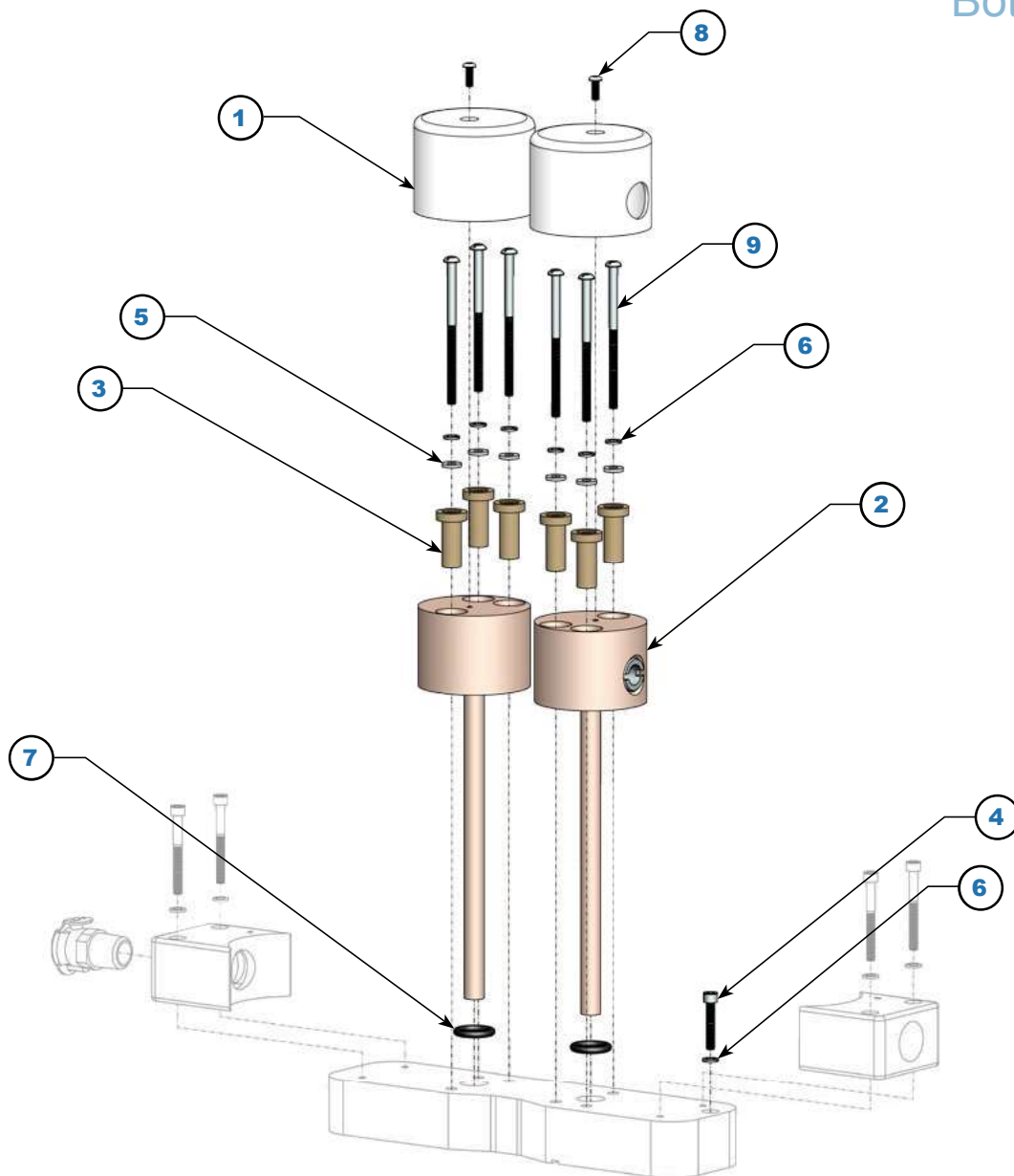
Source Assembly

Bottom View



Source Assembly Components

Bottom View A

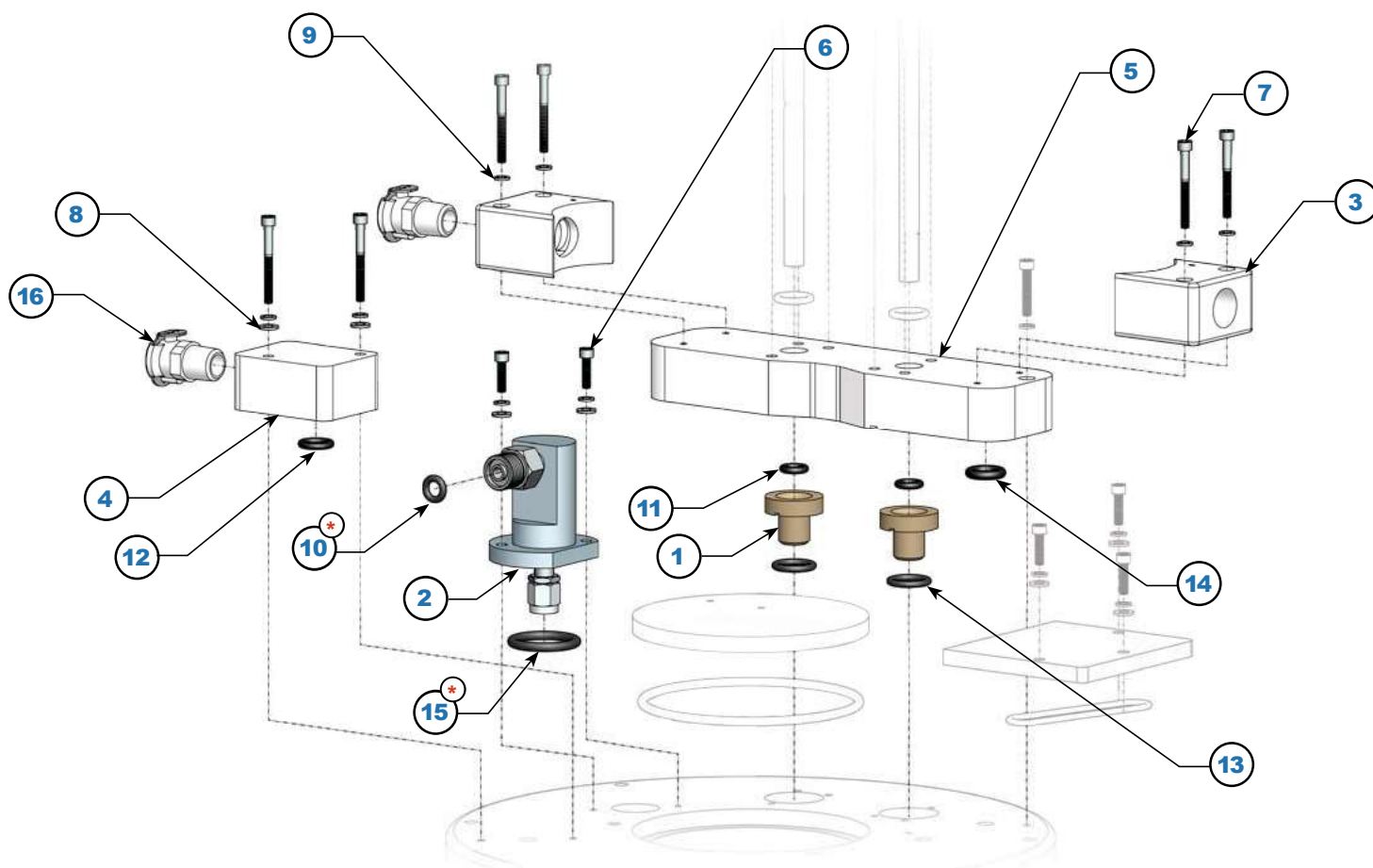


Item	Glemco P/N	TI P/N	Description	Qty
1	55086		FEEDTHRU INSULATOR SHIELD	2
2	55090		FEEDTHRU	2
3	55096		FEEDTHRU INSULATOR	6
4	82421		SHCS, 6-32 X 3/4"	1
5	82466		#6 FLAT WASHER, "PLASTIC" NYLON	6
6	82606		#6 SPRING LOCK WASHER	7
7	83012V		O-RING -112, VITON®	2
8	83627		PHSS, 4-40 X 5/16", NYLON	2
9	83640		PH, 6-32 X 2-1/4", SLOTTED	6



Source Assembly Components

Bottom View B

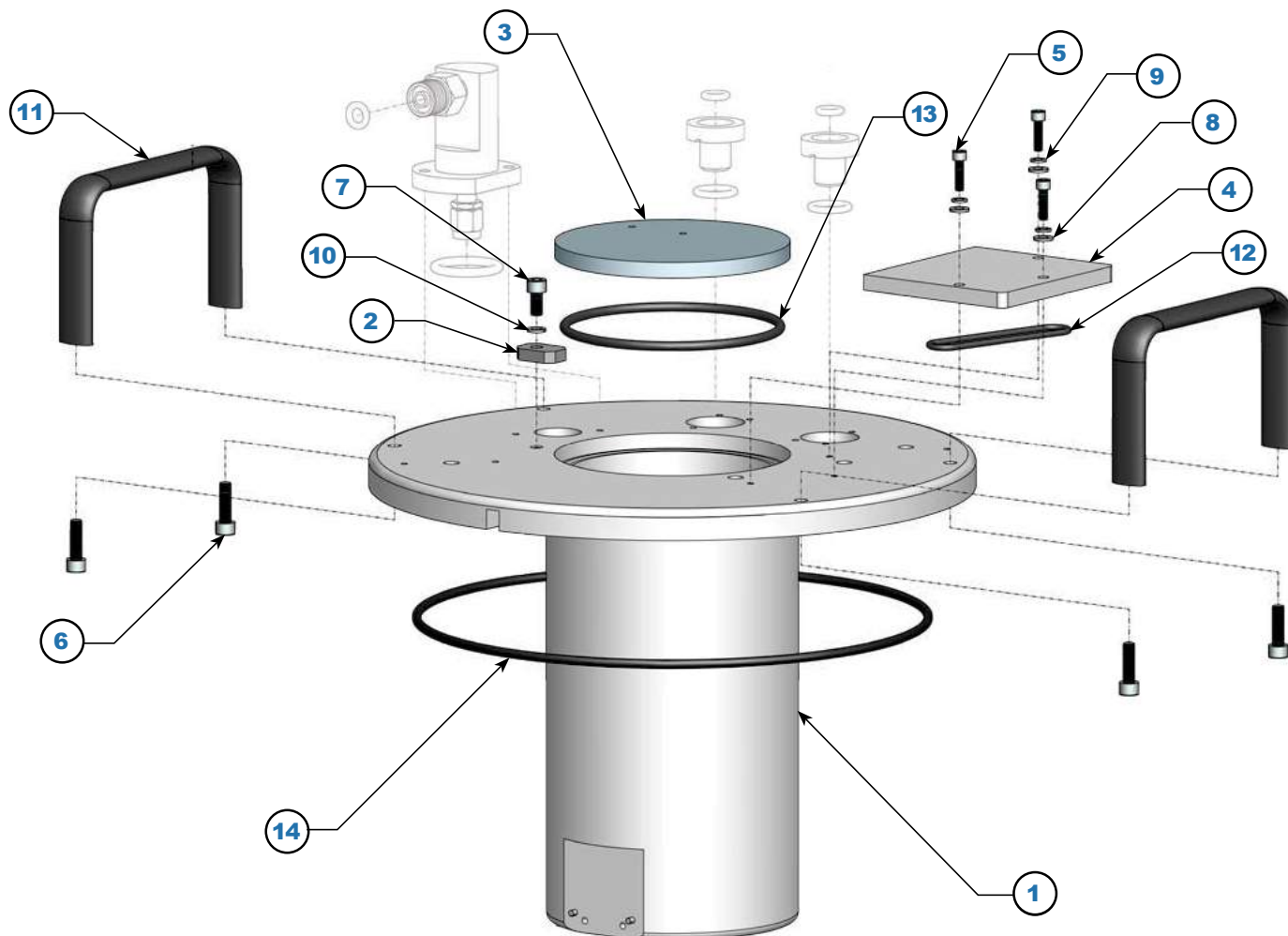


Item	Glemco P/N	TI P/N	Description	Qty
1	55078		FEEDTHRU INSULATOR	2
2	55085		GAS MANIFOLD ASSEMBLY	1
3	55093		FEEDTHRU CONNECTOR	2
4	55094		SUB-BLOCK MANIFOLD	1
5	55095		FEEDTHRU MANIFOLD	1
6	82415		SHCS, 6-32 X 1/2"	2
7	82424		SHCS, 6-32 X 1-1/4"	6
8	82472		#6 FLAT WASHER	4
9	82606		#6 SPRING LOCK WASHER	8
10	83008V*		O-RING -108, VITON®, INCLUDED IN P/N 55085	1
11	83009V		O-RING -109, VITON®	2
12	83010V		O-RING -110, VITON®	1
13	83013V		O-RING -113, VITON®	2
14	83104V		O-RING -204, VITON®	1
15	83112V*		O-RING, -212, VITON®, INCLUDED IN P/N 55085	1
16	83694		QUICK DISCONNECT COUPLING, 1/4" MALE NPT, DELRIN ACETAL	2



Source Assembly Components

Bottom View C



Item	Glemco P/N	TI P/N	Description	Qty
1	55105A		SOURCE BODY, MODIFIED	1
2	55087		VAPORIZER BLANK OFF CLAMP	1
3	55091		VAPORIZER BLANK-OFF PLATE	1
4	55092		SOURCE BODY WATER MANIFOLD	1
5	82415		SHCS, 6-32 X 1/2"	3
6	82436		SHCS, 10-32 X 5/8"	4
7	82439		SHCS, 10-32 X 3/8"	1
8	82472		#6 FLAT WASHER	3
9	82606		#6 SPRING LOCK WASHER	3
10	82608		#10 WASHER, LOCK, REGULAR SPRING, .200 ID, .334 OD, SST	1
11	82700		SOURCE HANDLE	2
12	83031V		O-RING -131, VITON®	1
13	83137V		O-RING -237, VITON®	1
14	83165V		O-RING -265, VITON®	1



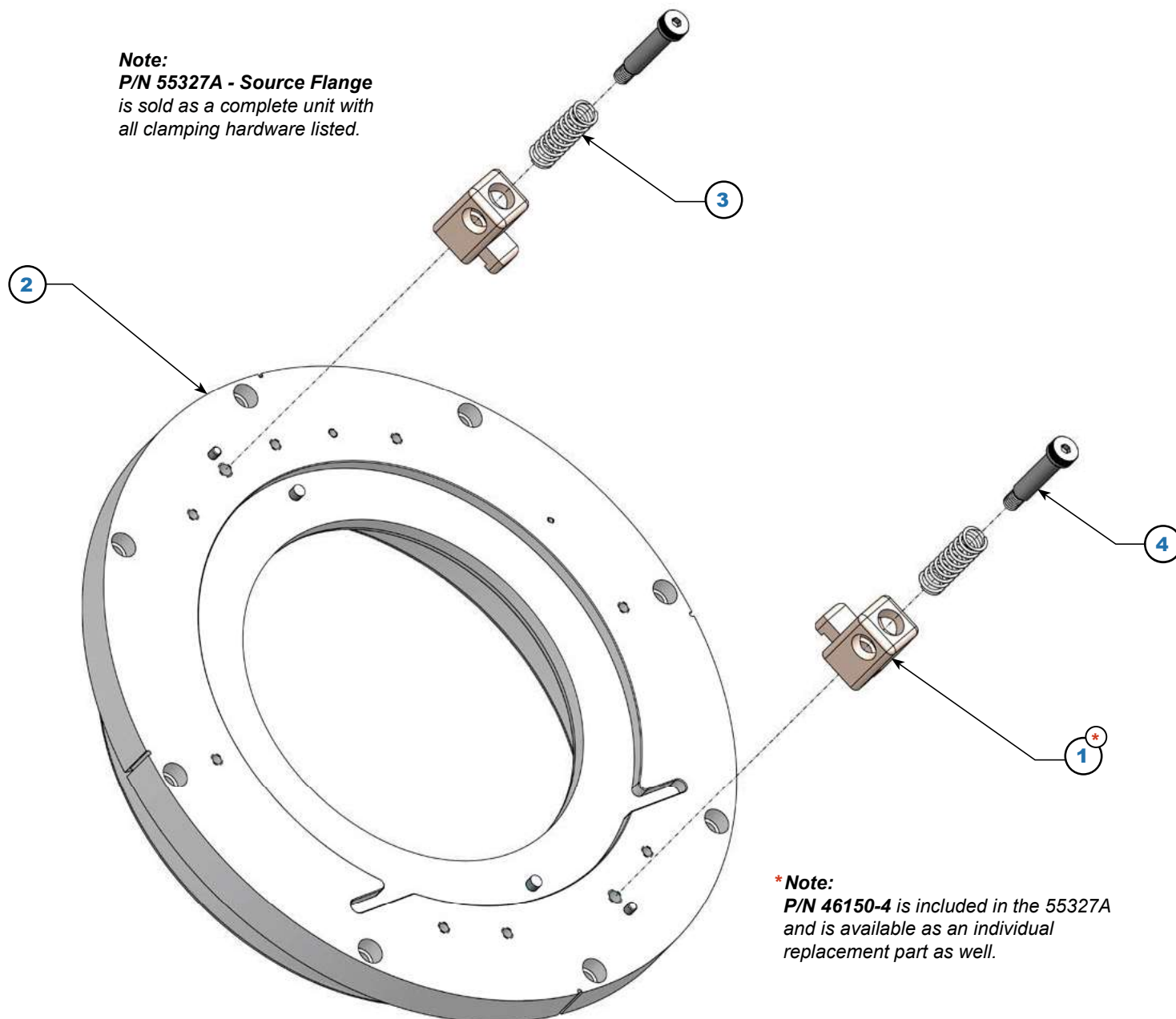
Source Flange

TI P/N: 4720751-0001

Glemco P/N: 55327A

Note:

P/N 55327A - Source Flange
is sold as a complete unit with
all clamping hardware listed.

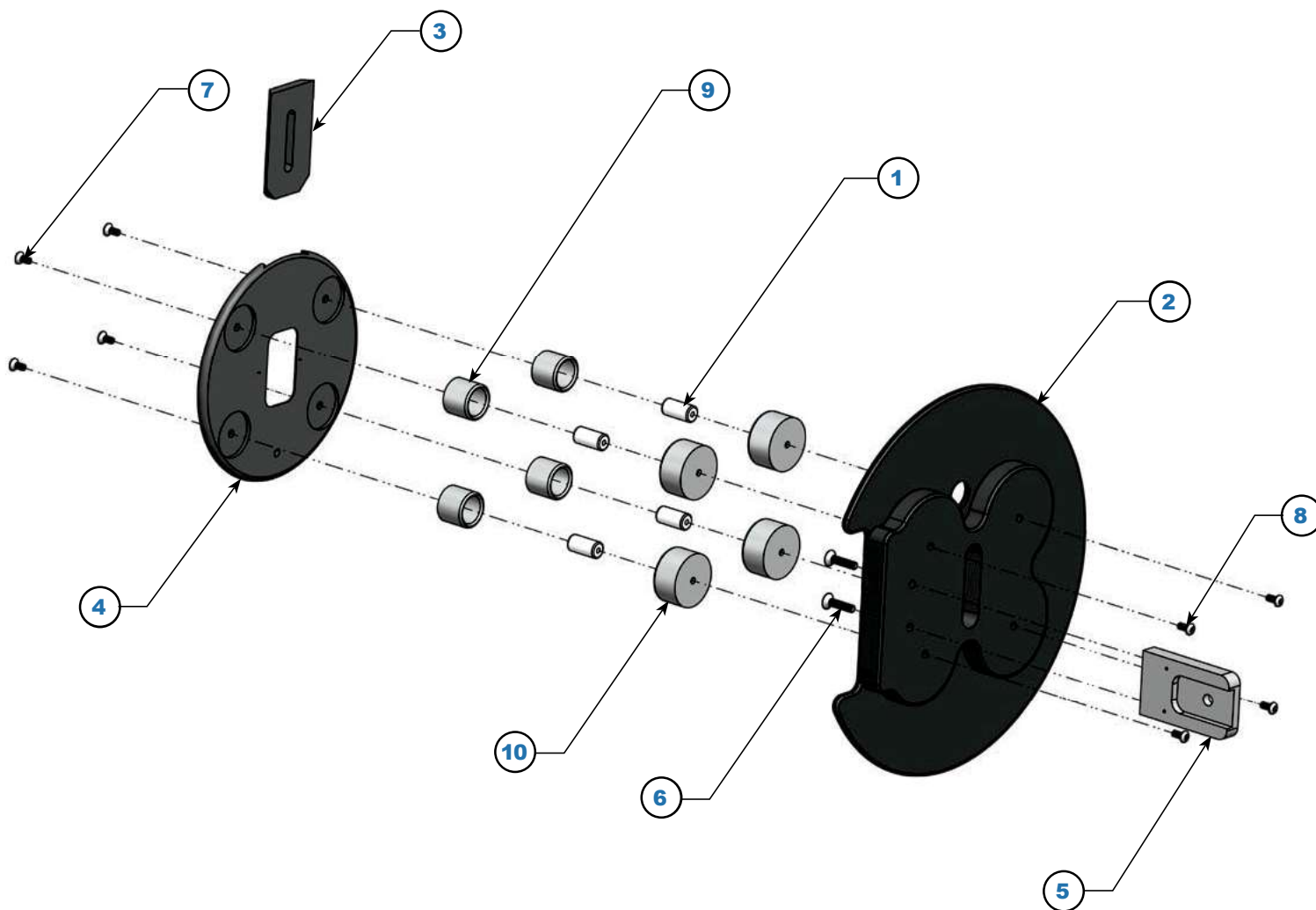


*** Note:**

P/N 46150-4 is included in the 55327A
and is available as an individual
replacement part as well.

Item	Glemco P/N	TI P/N	Description	Qty
1	46150-4*		CLAMP, ALSO AVAILABLE AS A REPLACEMENT PART	2
2	55327A	4720751-0001	FLANGE, MODIFIED WITH SPRING CLAMPS	1
3	8A936		COMPRESSION SPRING, Ø.54 OD X 1.5 LG, SST	2
4	8A937		SHOULDER SCREW, Ø.375 X 1.50, SST	2

Extraction Electrode



Item	Glemco P/N	TI P/N	Description	Qty
1	30680	4720984-0001	CERAMIC STANDOFF, 3/8" Ø X 3/4 LG	4
2	55063A	4720910-0001	GROUND ELECTRODE, GRAPHITE	1
3	55073		SUPPRESSION ELECTRODE	1
4	55108		MANIPULATOR MOUNTING PLATE, GRAPHITE	1
5	55328A	4720909-0001	EXTRACTION ELECTRODE MOUNTING BRACKET, SHORT	1
6	8A085		8-32 X 3/4, FHSS, SST	2
7	8A327		6-32 X 3/8", FHSS, SST	4
8	8A444		BHCS, 6-32 UNC X .313, SS, VENTED	4
9	99138C		SMALL CUP, EXTENDED	4
10	99139A	4683067-0001	LARGE CUP, EXTENDED	4