

Glencoe

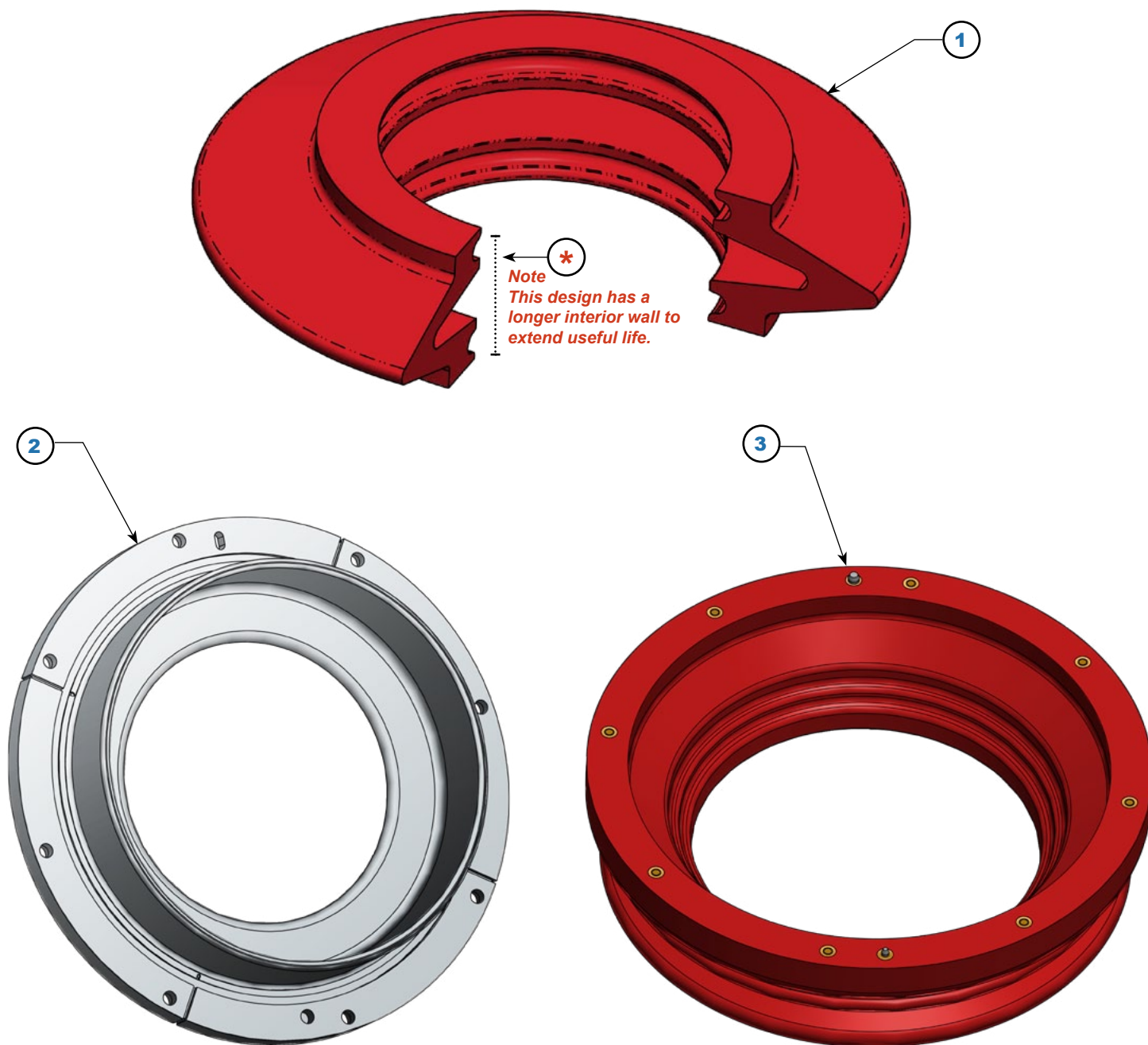
A Resource for Semiconductor Manufacturers

Illustrated Parts Guide for arian E500 Implanters

This exploded view diagram illustrates the components of the Arian E500 Implanter. The main assembly is shown on the left, with various parts labeled with callouts. The components include:

- Top Cover:** A large, rectangular, light gray cover with a central slot and a handle on the right side.
- Internal Components:** A series of smaller parts, including a black rectangular plate, a black rectangular plate with a central slot, a black rectangular plate with a central slot and a handle, and a black rectangular plate with a central slot and a handle.
- Bottom Cover:** A large, rectangular, light gray cover with a central slot and a handle on the right side.
- Motor Assembly:** A complex assembly at the bottom right, featuring a motor, gears, and a handle.
- Red Ring:** A large, red, toroidal ring with a central hole.
- Other Parts:** Various small components, including a black rectangular plate, a black rectangular plate with a central slot, a black rectangular plate with a central slot and a handle, and a black rectangular plate with a central slot and a handle.

Source Bushings & Flange

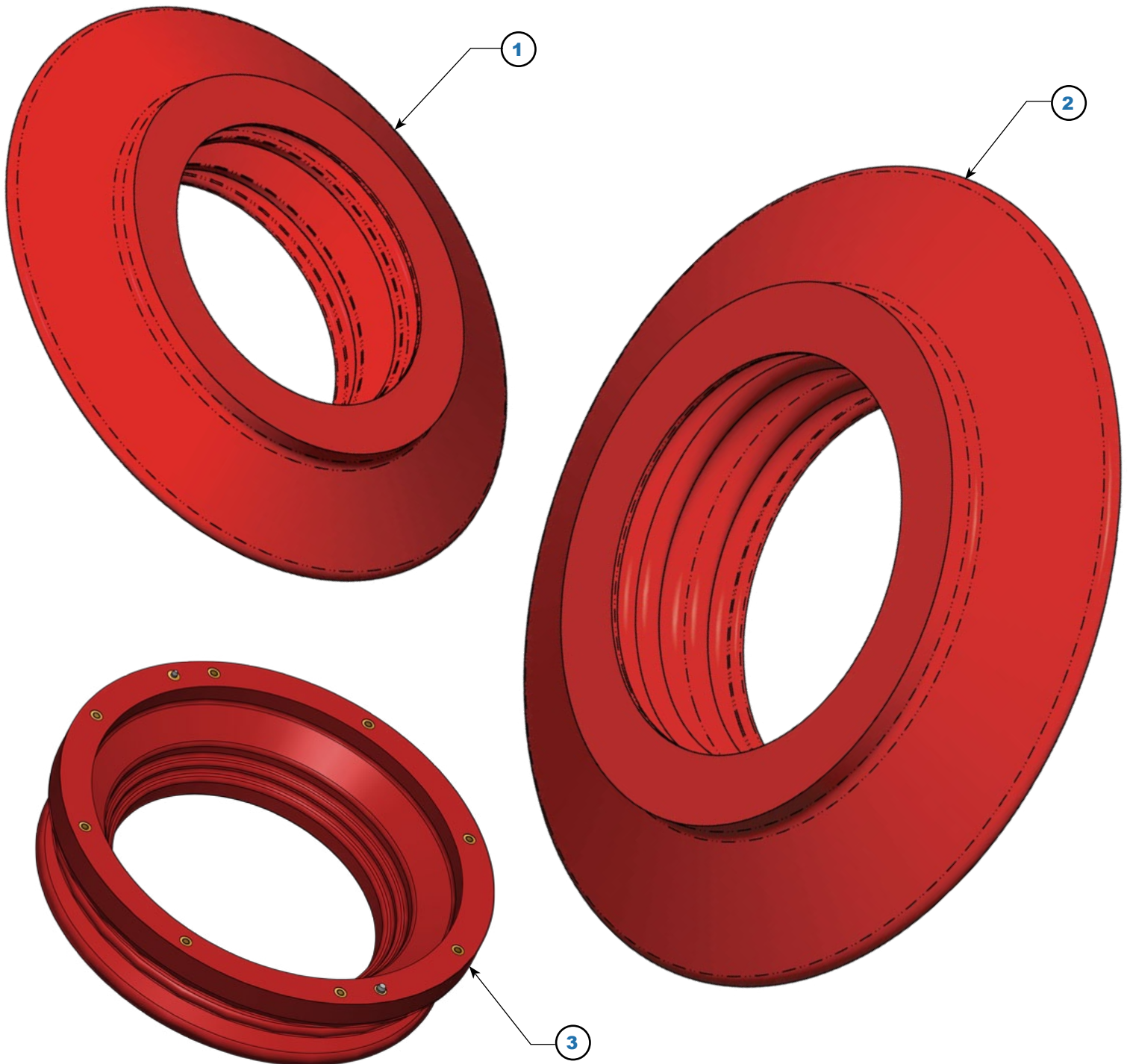


Item	P/N	Description	OEMs	Qty
1	52076M*	Source Bushing	H5022001, E17123040	1
2	55327	Flange	No OEM Reference	1
3	55408	E500HP/ E500EHP Source Bushing	E17125590	1

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



Refurbishment Services For Source Bushings

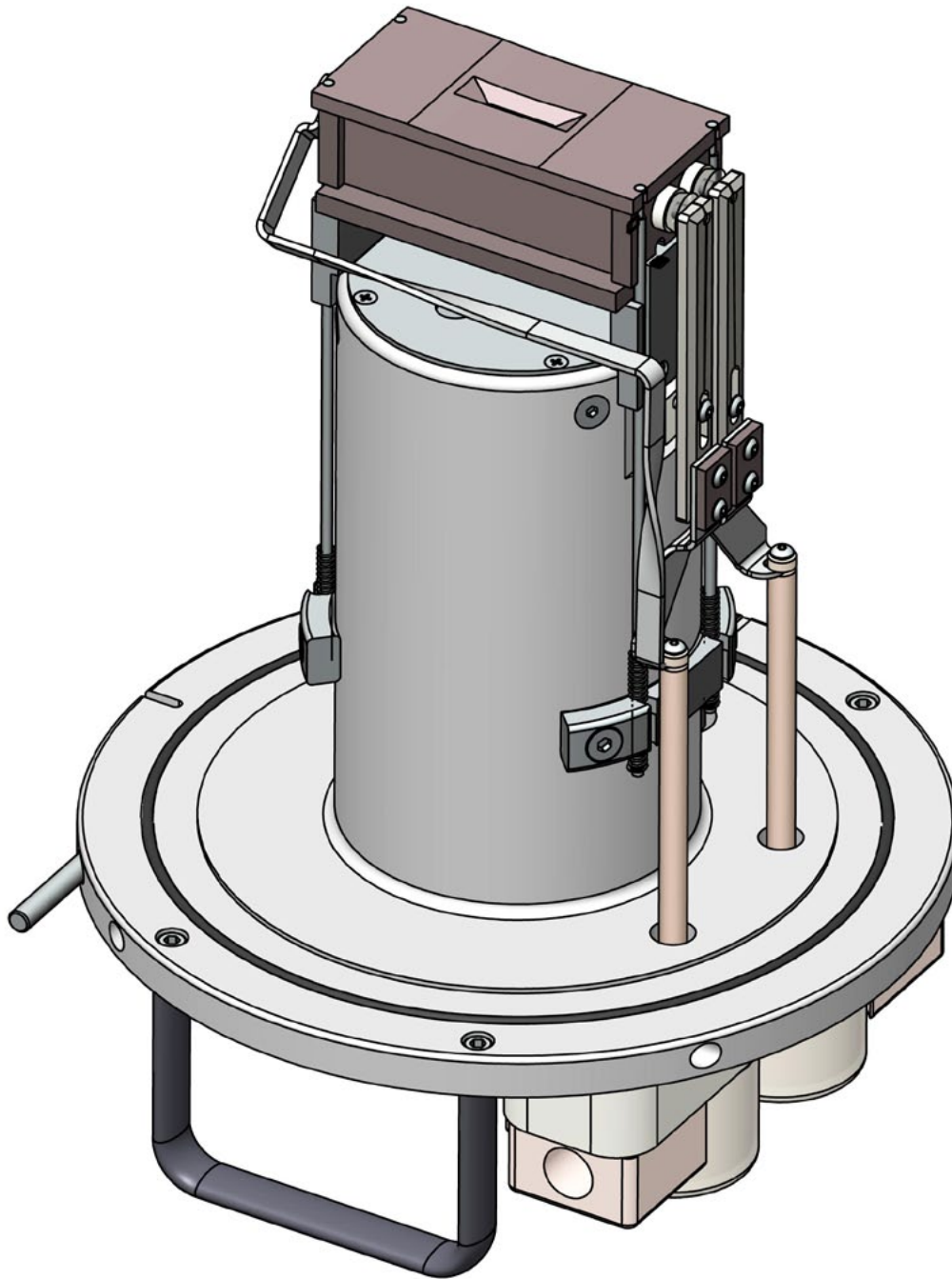


Item	P/N	Description	OEMs	Qty
1	52076MR	Source Bushing, Refurbished	H5022001	1
2	52076R	Source Bushing, Refurbished	H5022001	1
3	55408R	E500HP/ E500EHP Source Bushing, Refurbished	E17125590	1

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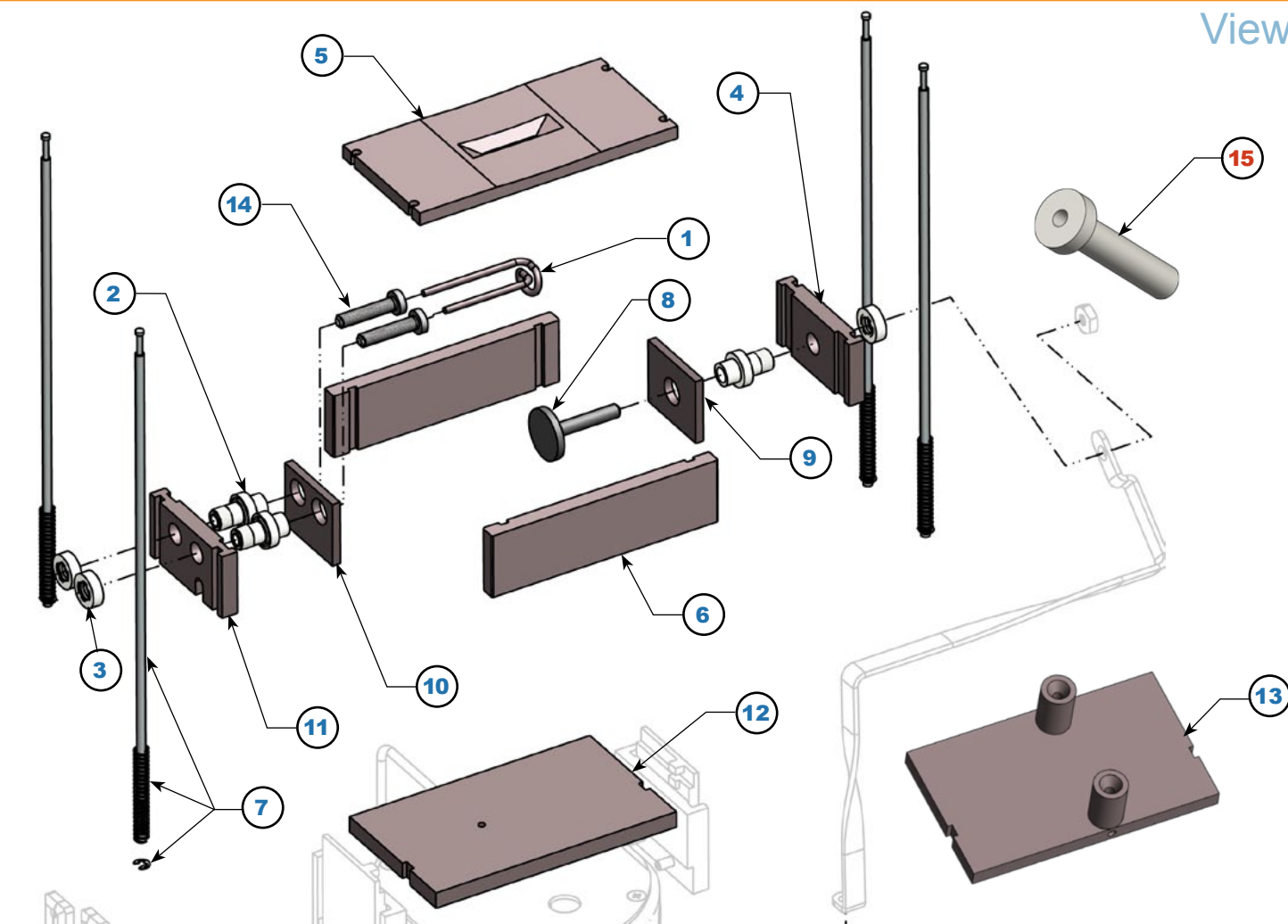
Standard Source Assembly



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Standard Source Assembly Components

View A

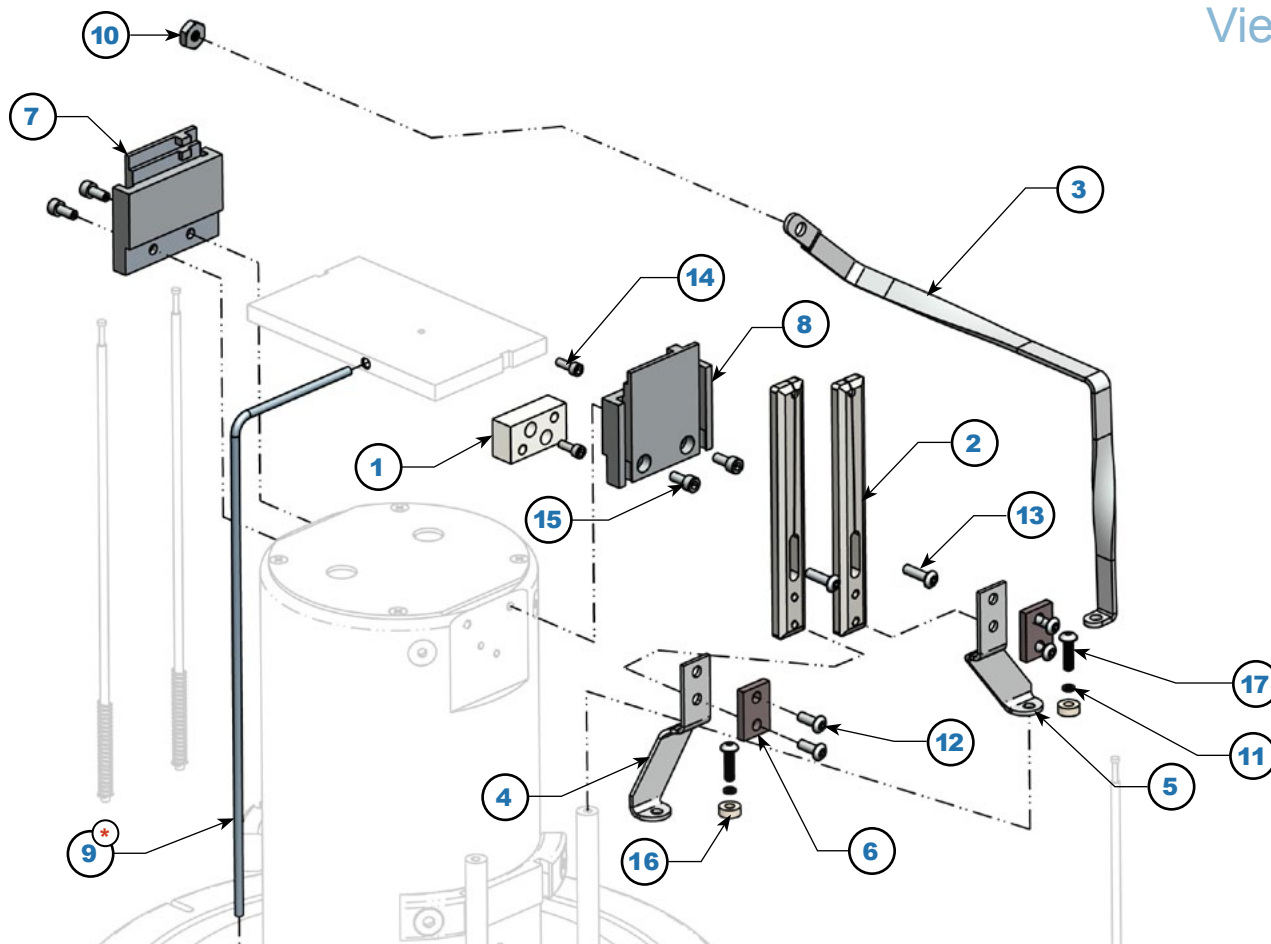


Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
4	55061W	Reflector End Plate, Tungsten	E17063170	1
5	55064W	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

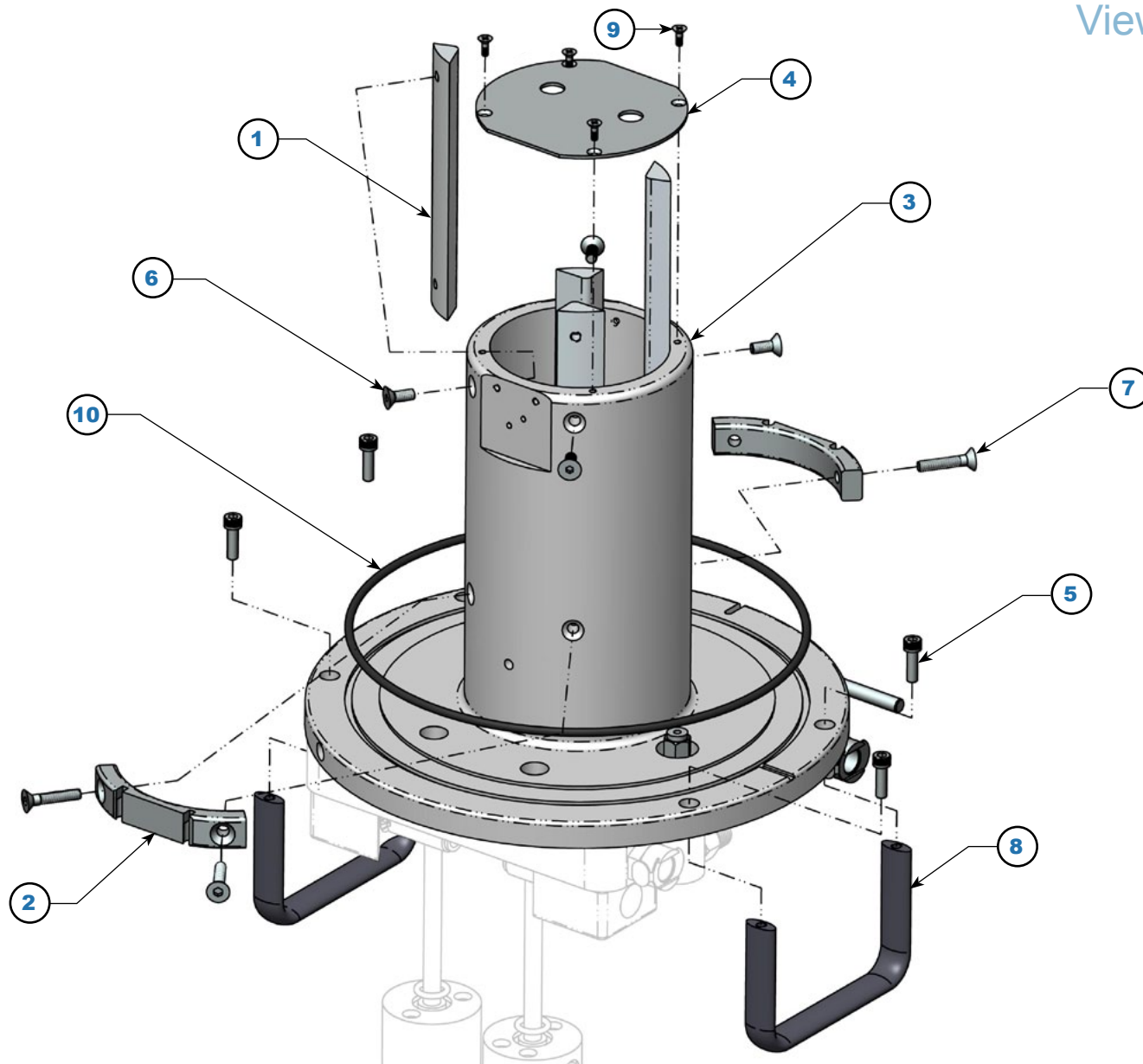


Item	P/N	Description	OEMs	Qty
1	55033	Insulator With Helicoil, Boron	E17037010	1
2	55071	Filament Clamp, Molybdenum	E17036930	2
3	55075	Reflector Strap	E17121420	1
4	55076	Filament Feed Strap	E17121431, E17036911	1
5	55077	Filament Feed Strap	E17121430, E17036910	1
6	55081	Clamp, Filament Strap	E17036950	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

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Standard Source Assembly Components

View C

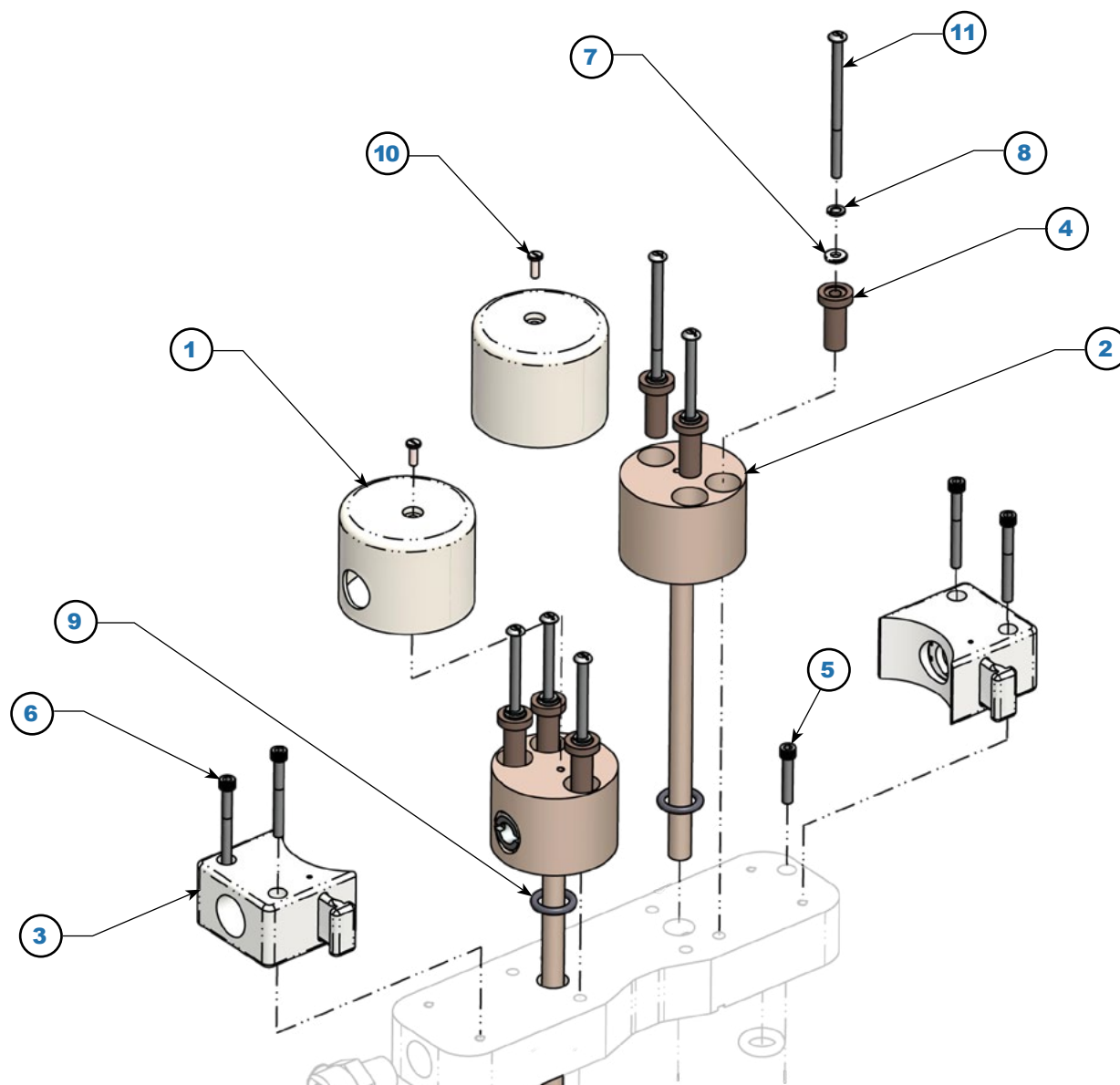


Item	P/N	Description	OEMs	Qty
1	55088	Internal Reflector	No OEM Reference	4
2	55104	Retainer Pin Anchor Block	No OEM Reference	2
3	55105	Source Body	No OEM Reference	1
4	55106	Vaporizer Heat Shield	E17071110	1
5	82436	10-32 x 5/8 SHCS 18-8 SST	E47000049	4
6	82594	10-32 x 1/2 FHSS 18-8 SST	E47000062	4
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

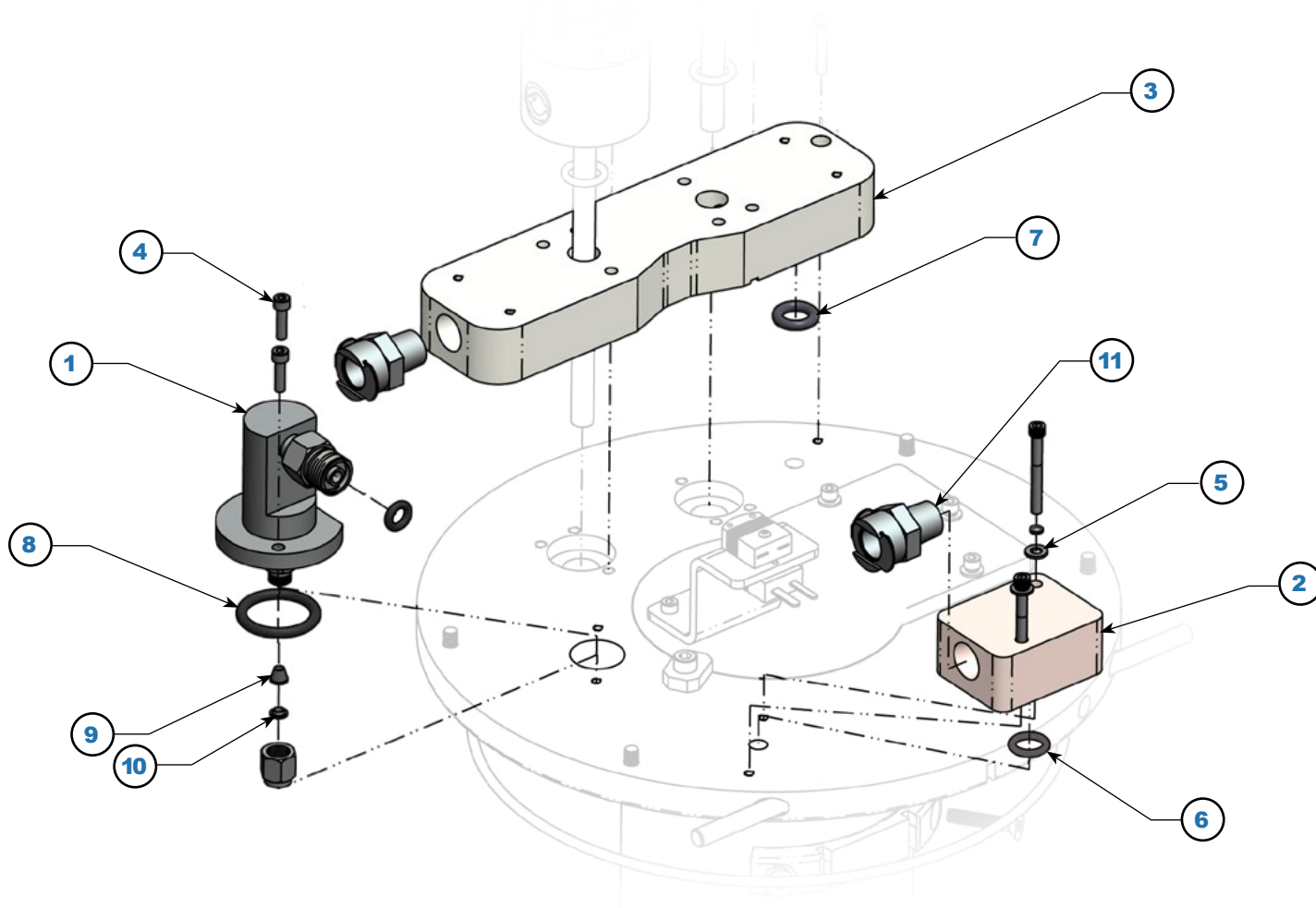


Item	P/N	Description	OEMs	Qty
1	55086	Feed-Thru Insulator Shield	E17015051	2
2	55090	Feed-Thru	E17014840	2
3	55093	Feed-Thru Connector, Virgin Teflon	No OEM Reference	2
4	55096	Feed-Thru Insulator, Torlon	E17014880	6
5	82421	6-32 x 3/4 SHCS 18-8 SST	E47000020	1
6	82424	SHCS 6-32 X 1 1/4" SST	E47000284	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

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Standard Source Assembly Components

View E

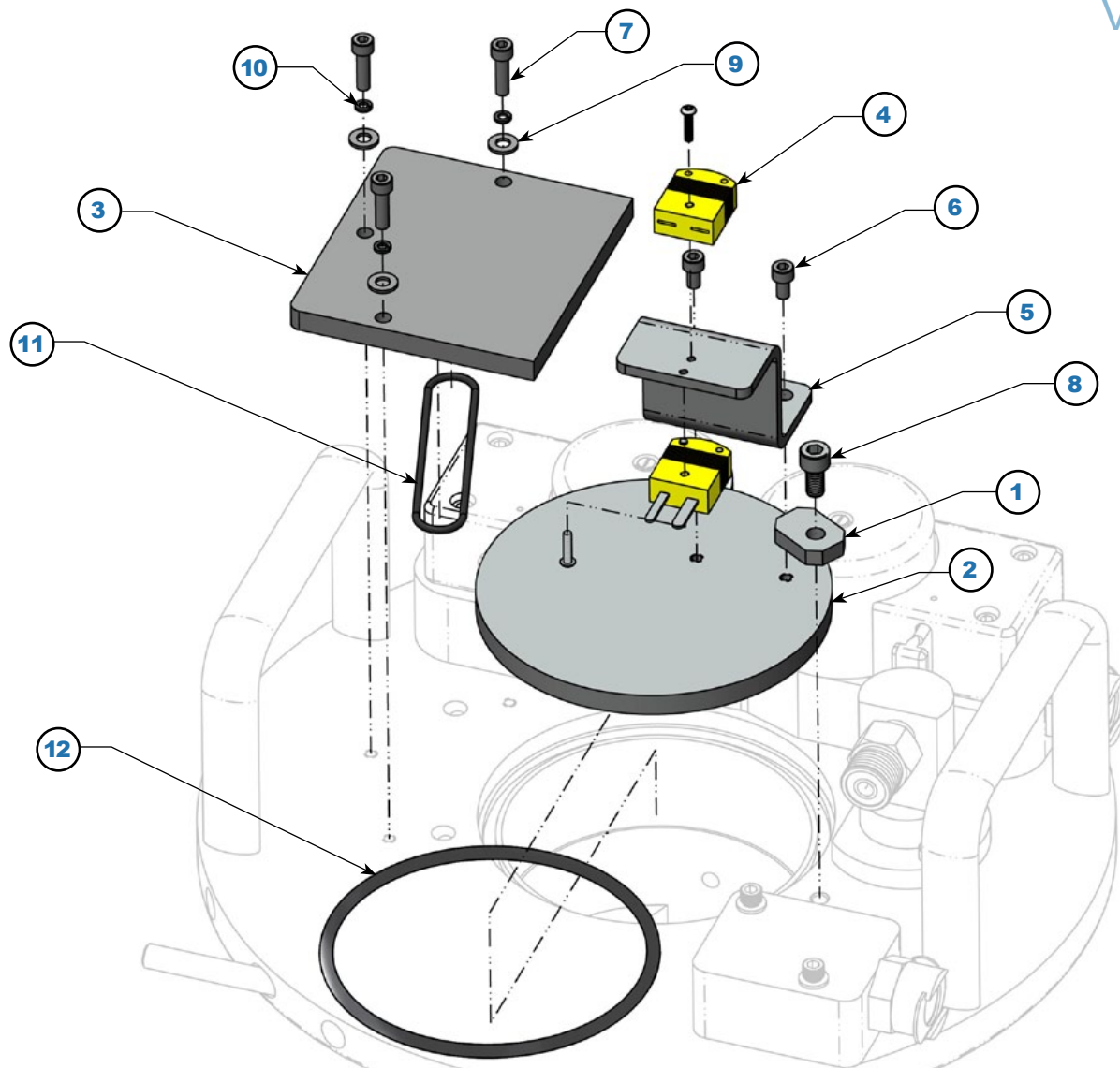


Item	P/N	Description	OEMs	Qty
1	55085	Gas Manifold Assembly	E17014700	1
2	55094	Sub-block Manifold, Nylon	E17063130	1
3	55095	Feed-Thru Manifold, Virgin Teflon	E17063120	1
4	82415	6-32 X 1/2" SHCS, SST	1231200608, E47000018	2
5	82472	No.6 Standard Washer, 18-8 SST	E48000016	2
6	83010V	O-Ring, -110, Viton®	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

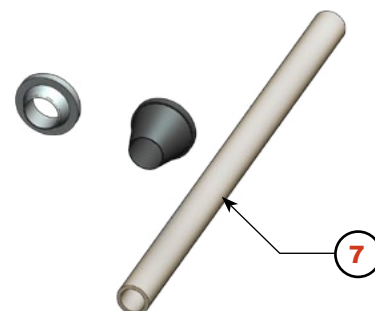
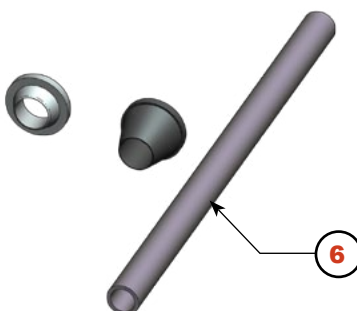
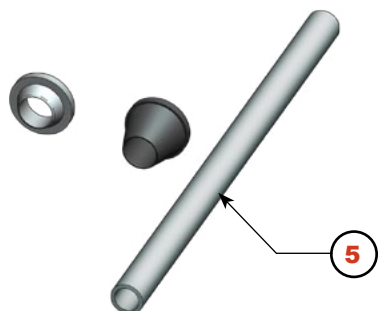
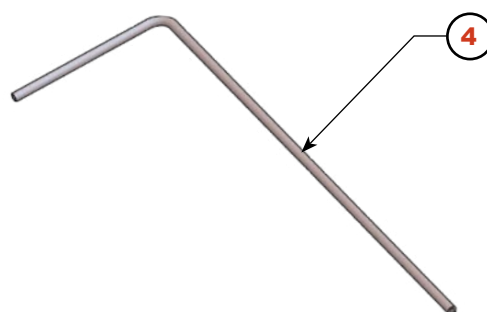
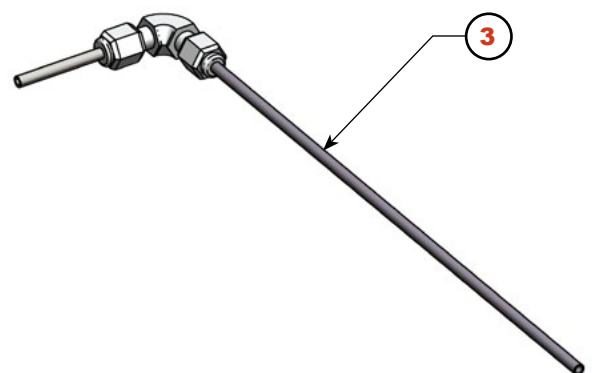
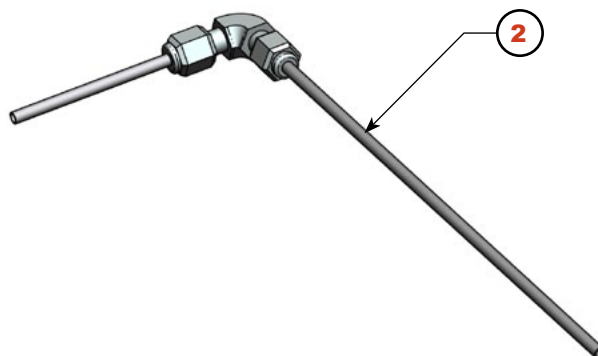
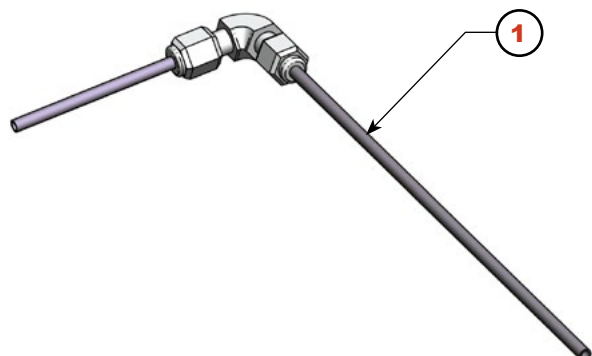


Item	P/N	Description	OEMs	Qty
1	55087	Vaporizer Blank-Off Clamp	E17063200	1
2	55091	Vaporizer Blank-Off	E17065390	1
3	55092	Source Body Water Manifold	E17065400	1
4	55097	Thermocouple Connector	No OEM Reference	1
5	55098	Thermocouple Mounting Bracket	E17077370	1
6	82412	6-32 X 1/4", SHCS, SST 18-8	E47000016	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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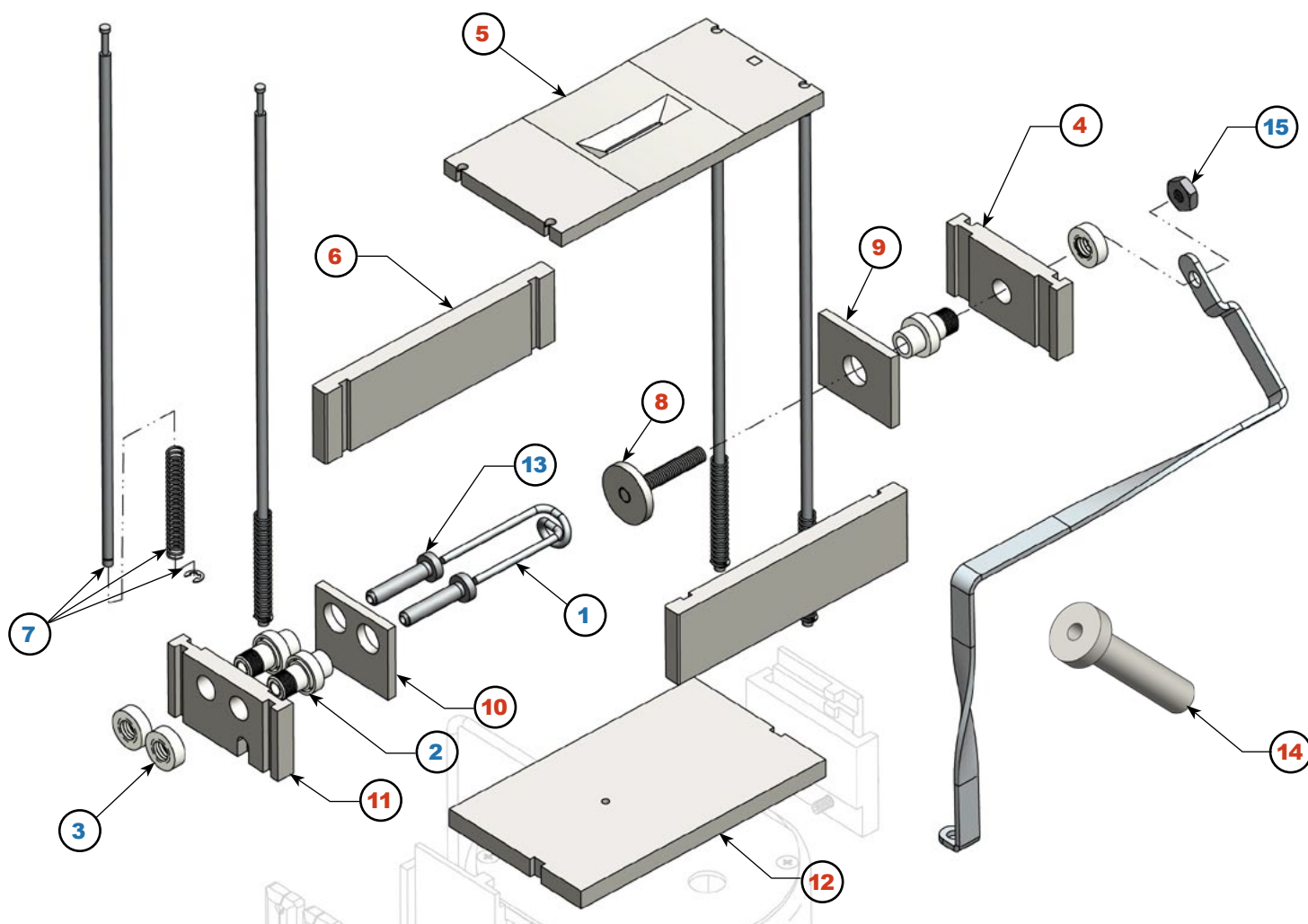
Optional Gas Tube Assemblies & Refurbishment Kits



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



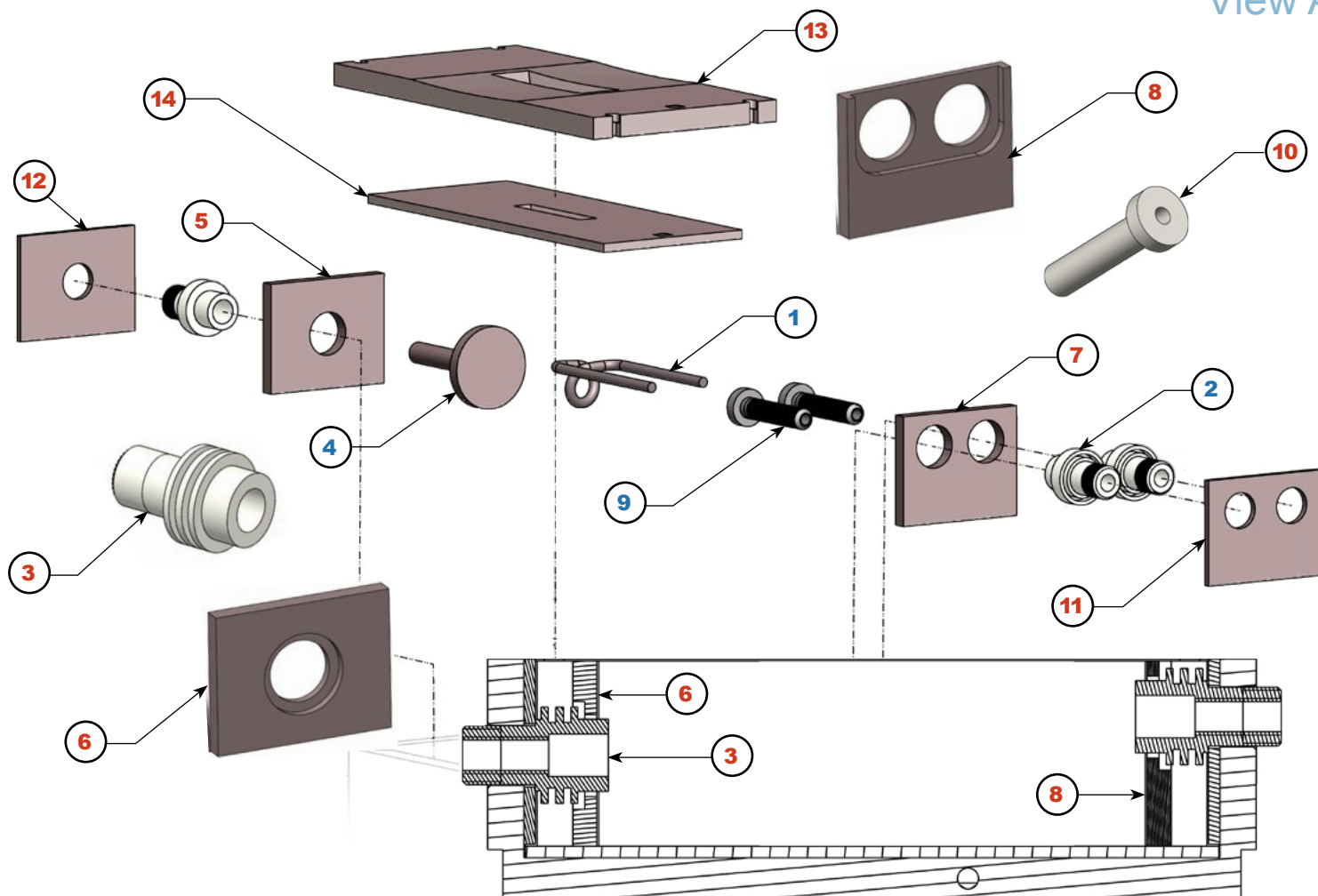
Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	2
3	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
4	55061	Reflector End Plate, Molybdenum	E17063170	1
5	55064	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



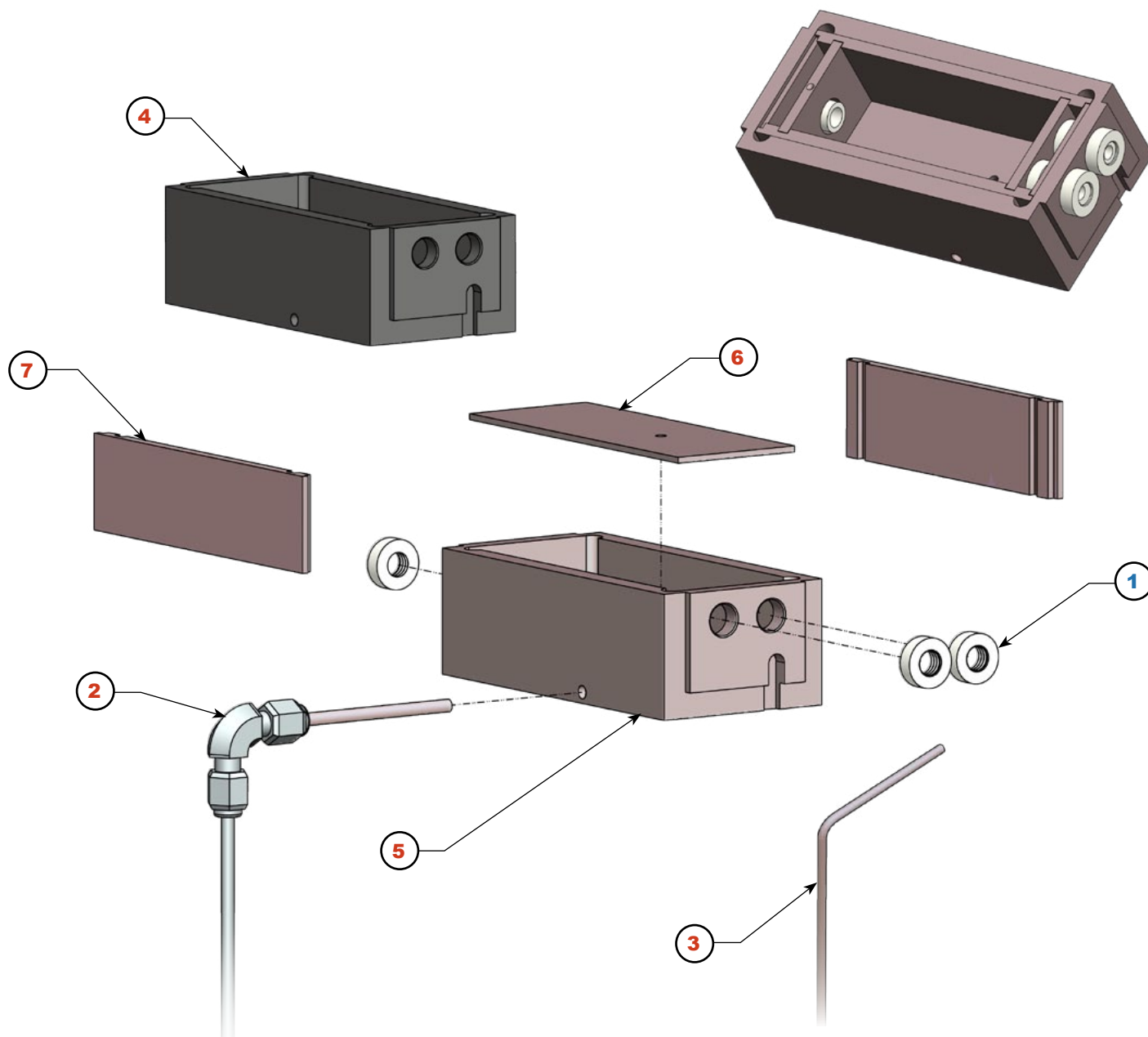
Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	51109C	Filament/Repeller Insulator (Enhanced), Used With 55079BW & 55080CW	E17168271, E17168272	
4	55074W	Reflector, Tungsten	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



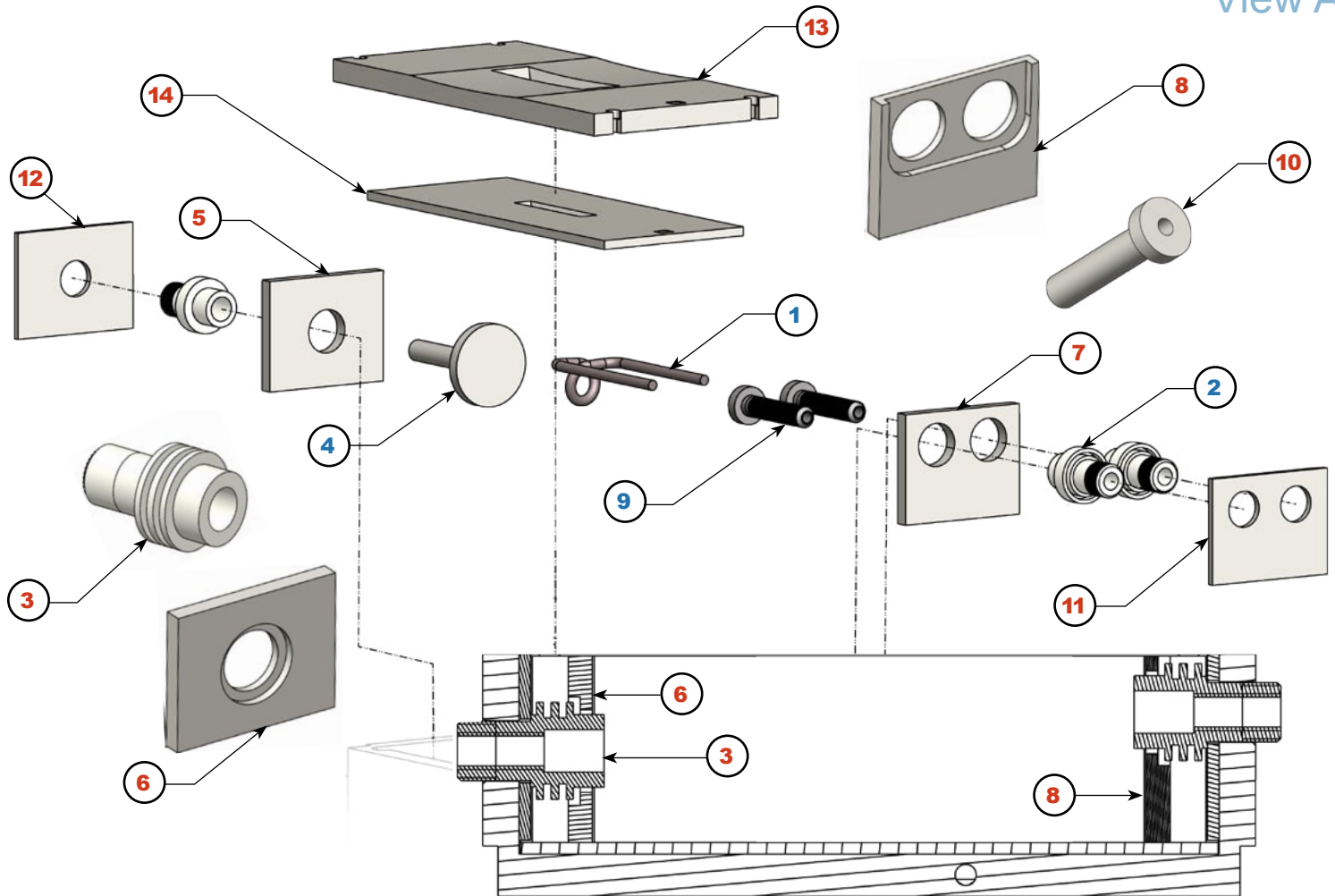
Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55109A	Gas Tube Assembly, Stainless/Tantalum	E17014832	1
3	55109T	Gas Manifold Tube, Tantalum	E17014832	
4	55150G	Chamber, 1 PC, Graphite (Non Vaporizer)	No OEM Reference	1
5	55150W	Chamber, 1 PC, Tungsten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



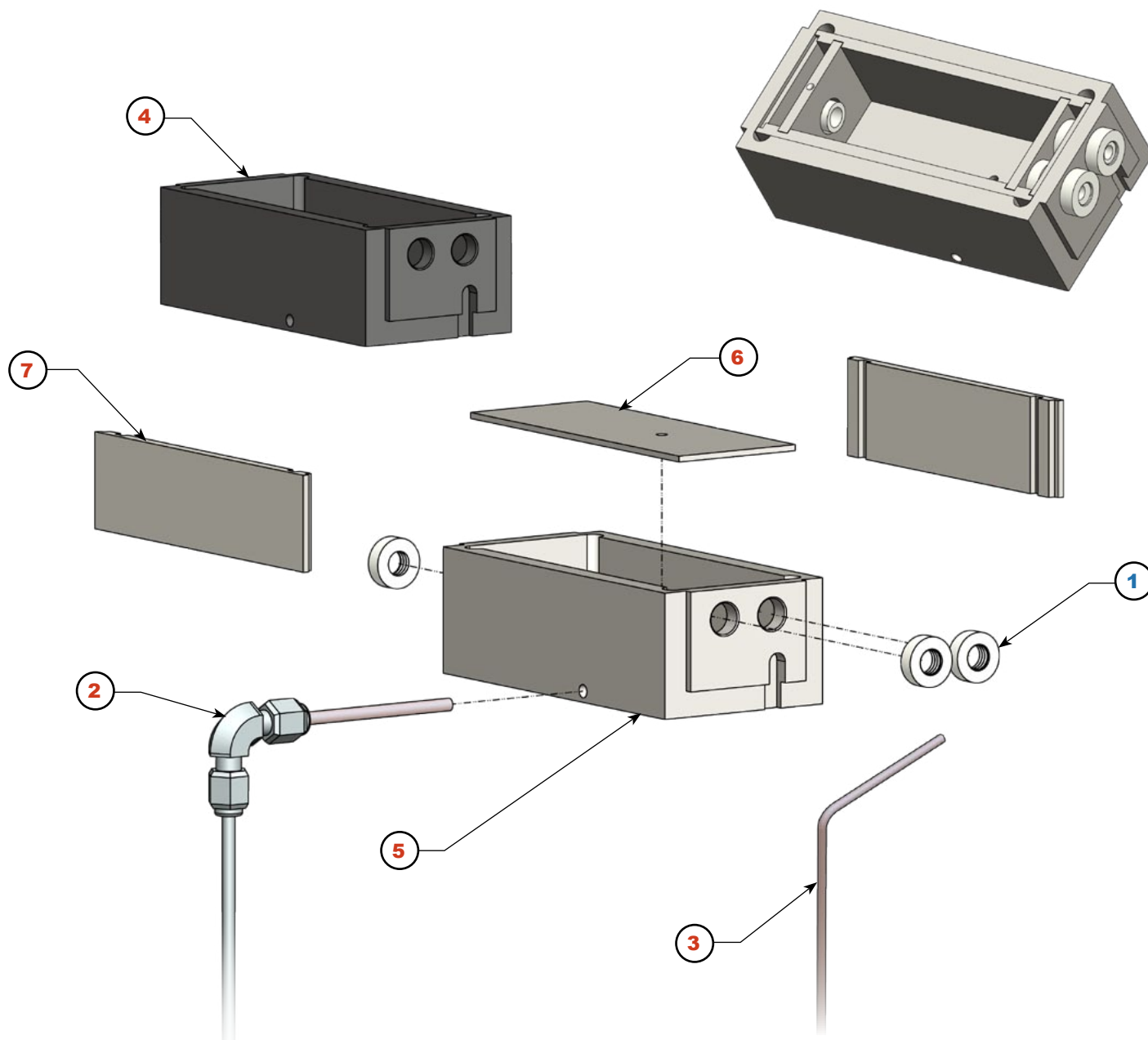
Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	51109C	Filament/Repeller Insulator (Enhanced), Used With 55079B & 55080C	E17168271, E17168272	1
4	55074	Reflector, Molybdenum	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



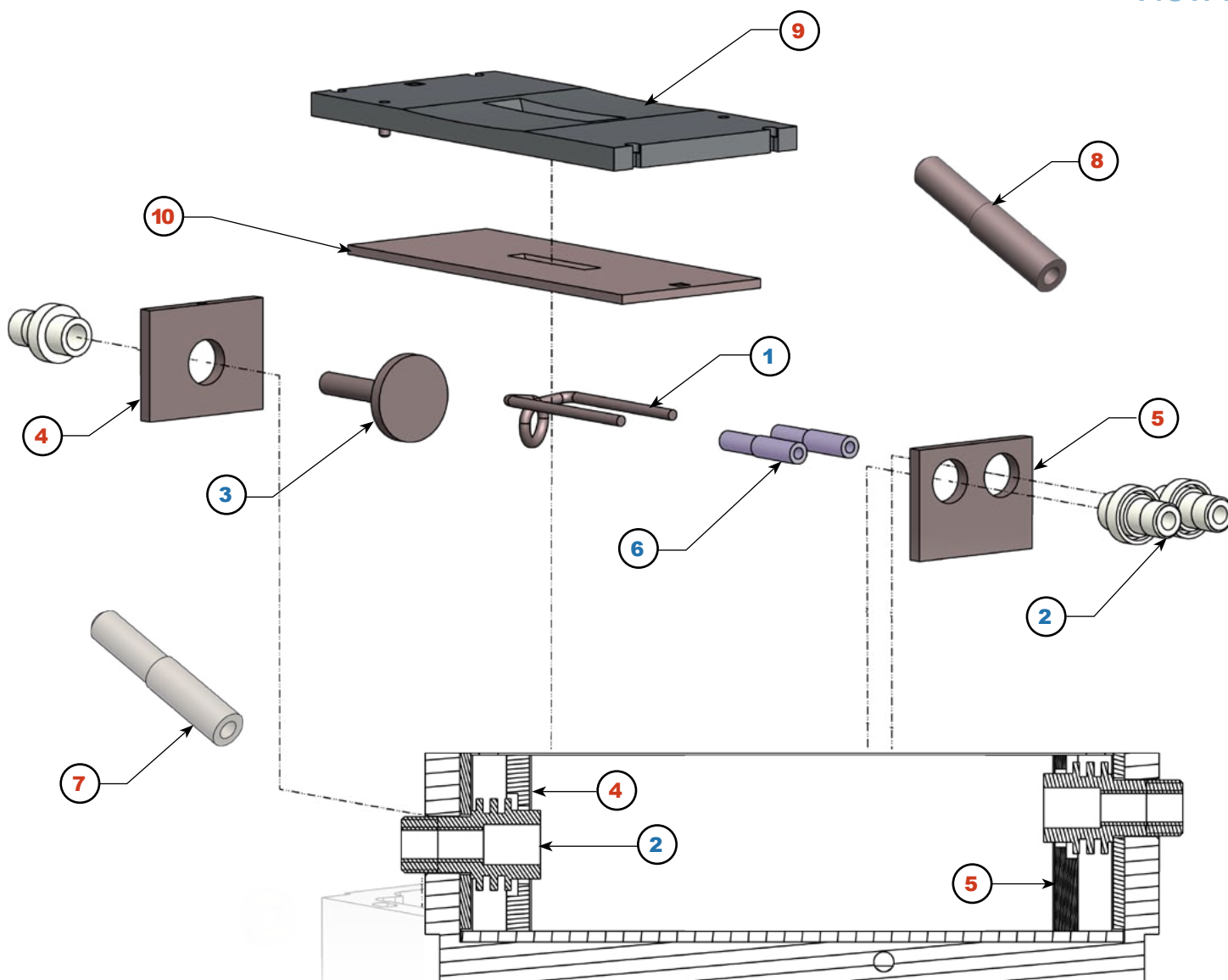
Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55109A	Gas Tube Assembly, Stainless/Tantalum	E17014832	1
3	55109T	Gas Manifold Tube, Tantalum	E17014832	1
4	55150	Chamber, 1 PC, Molybdenum	E17036921, E17063191	1
5	55150G	Chamber, 1 PC, Graphite (Non 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



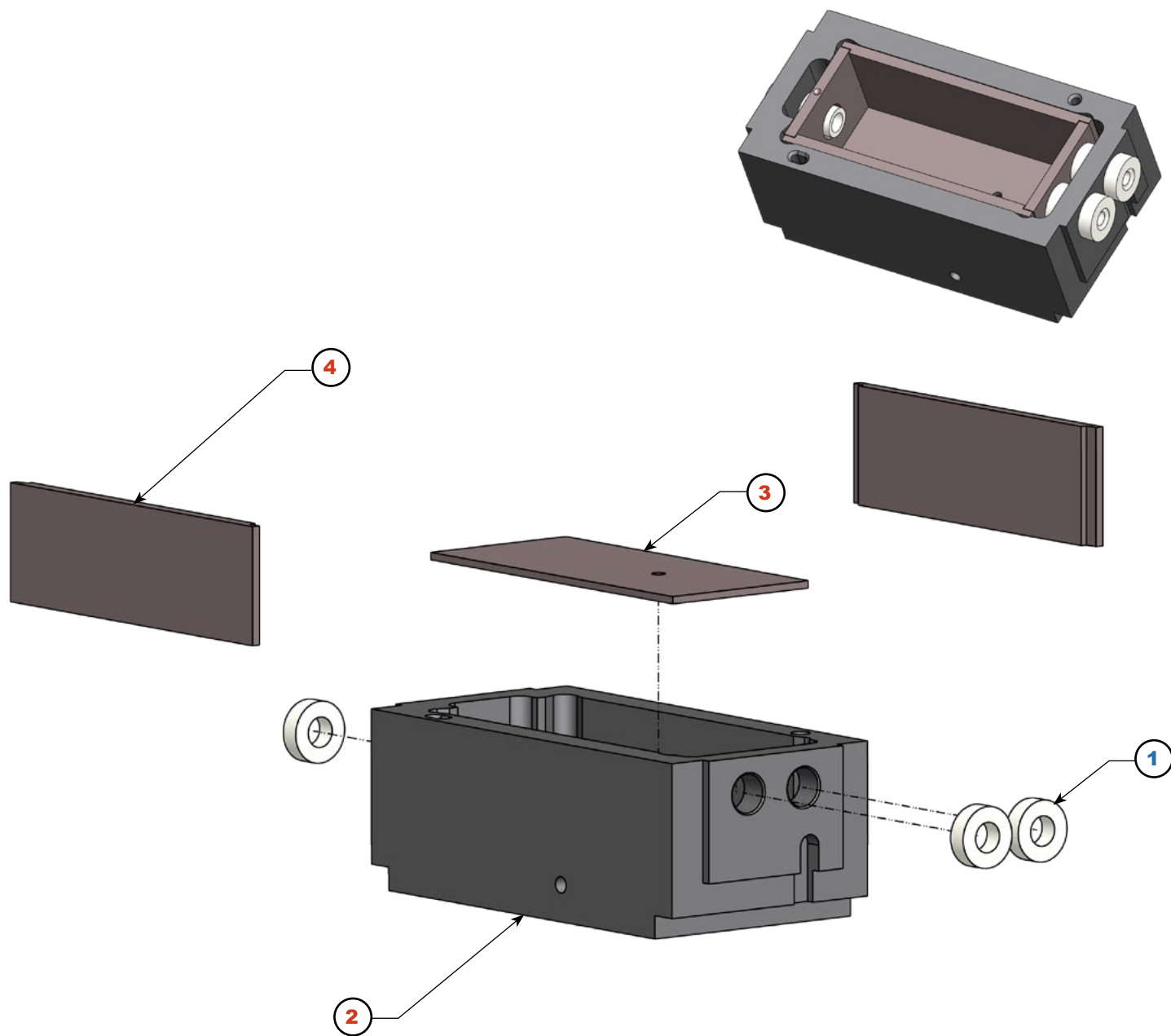
Item	P/N	Description	OEMs	Qty
1	51068D	Pigtail Filament, Tungsten	E19009080	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	55074W	Reflector, Tungsten	E17066330, E17036981W	1
4	55079AW	Reflector Shield, Liner Version, 1 PC Arc Chamber, Tungsten	E17037063	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



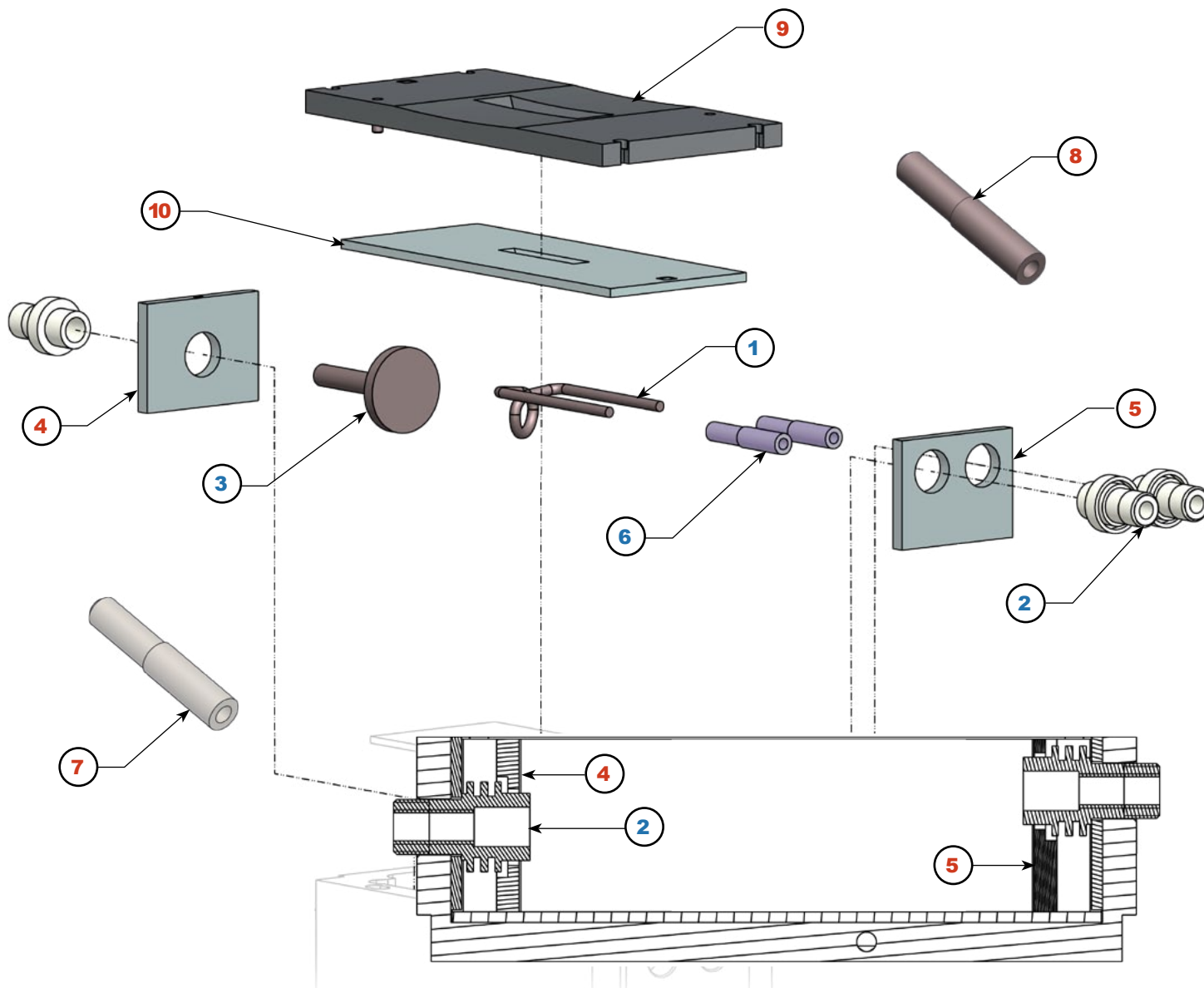
Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55150BG	Chamber, 1 PC, Graphite	E17036921, E17063191	1
3	55160AW	Liner, Base Plate, Tungsten	No OEM Reference	1
4	55163AW	Liner, Side Plate, Tungsten	No OEM Reference	2

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

View A



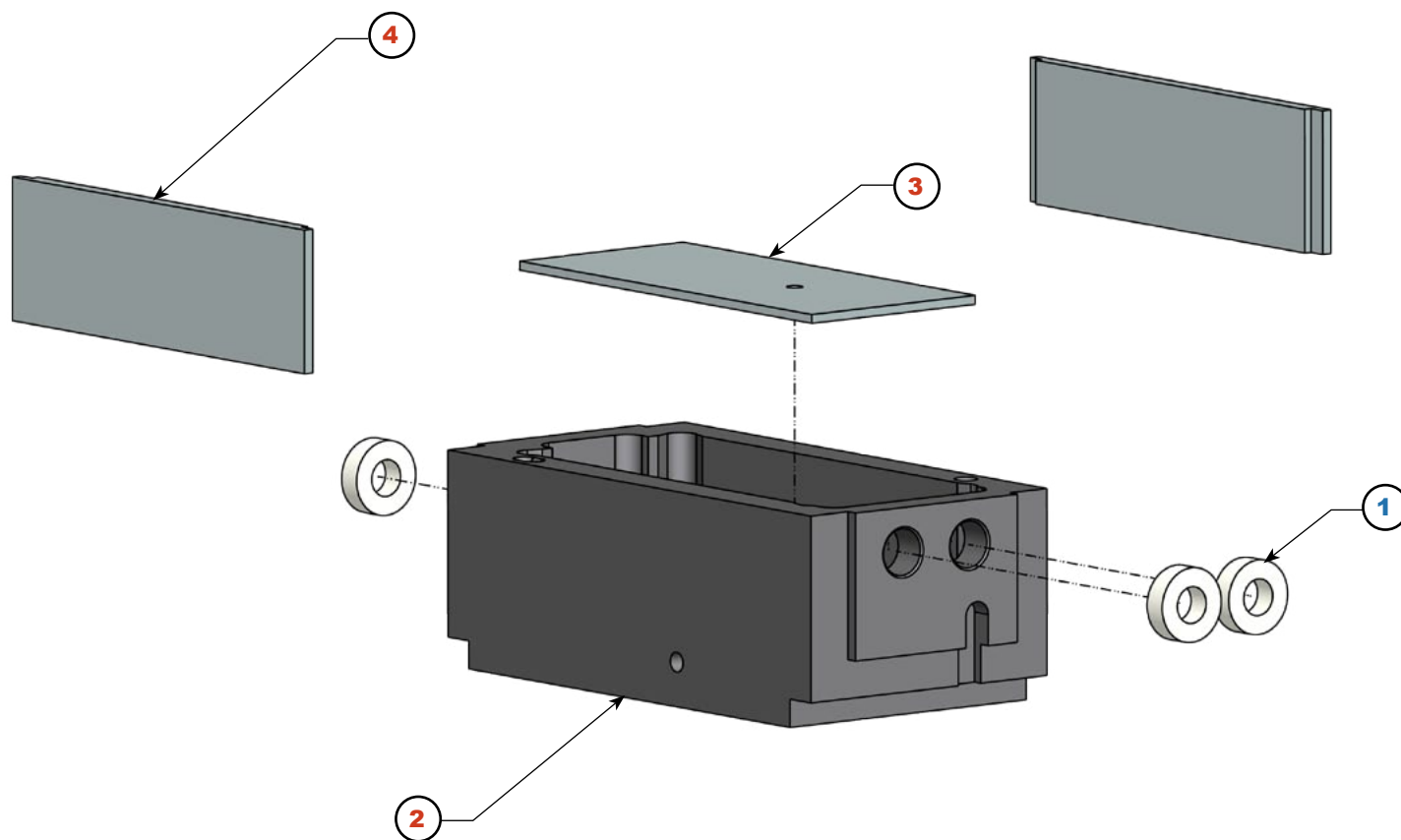
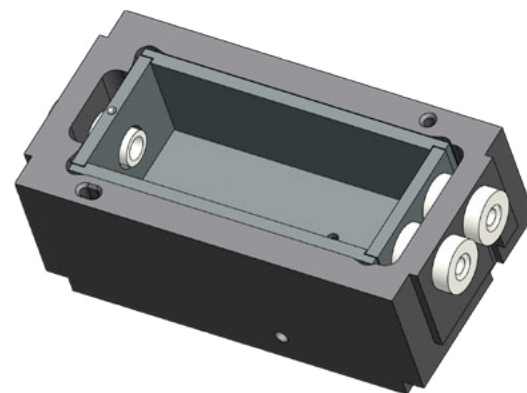
Item	P/N	Description	OEMs	Qty
1	51068D	Pigtail Filament, Tungsten	E19009080	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	55074W	Reflector, Tungsten	E17066330, E17036981W	1
4	55079AC	Reflector Shield, Aluminum Nitride	E17037063	1
5	55080AC	Filament 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

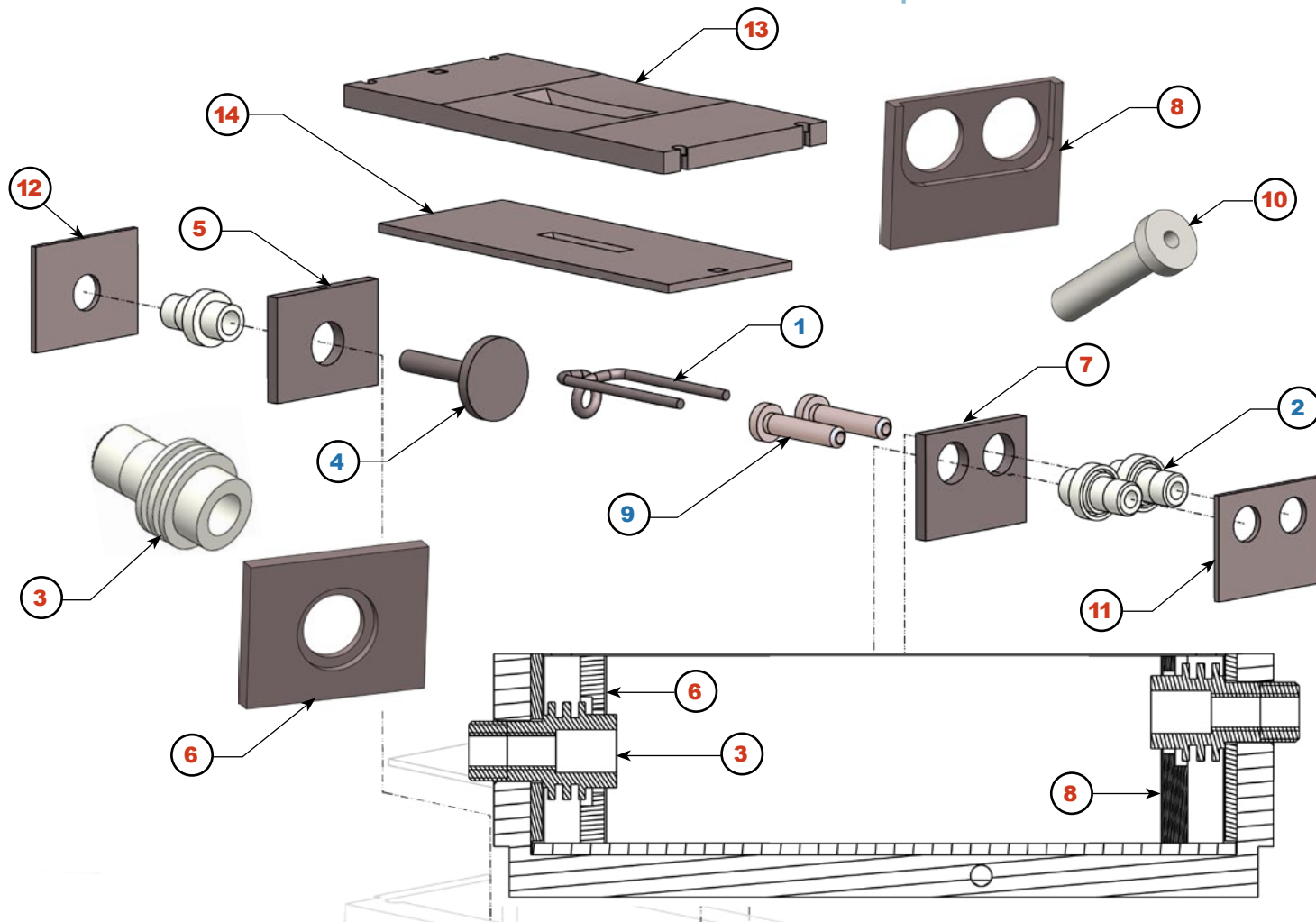
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Glemco Customized Design

One Piece Graphite Arc Chamber With Manifold/Tungsten Liners

Vaporizer Process View A



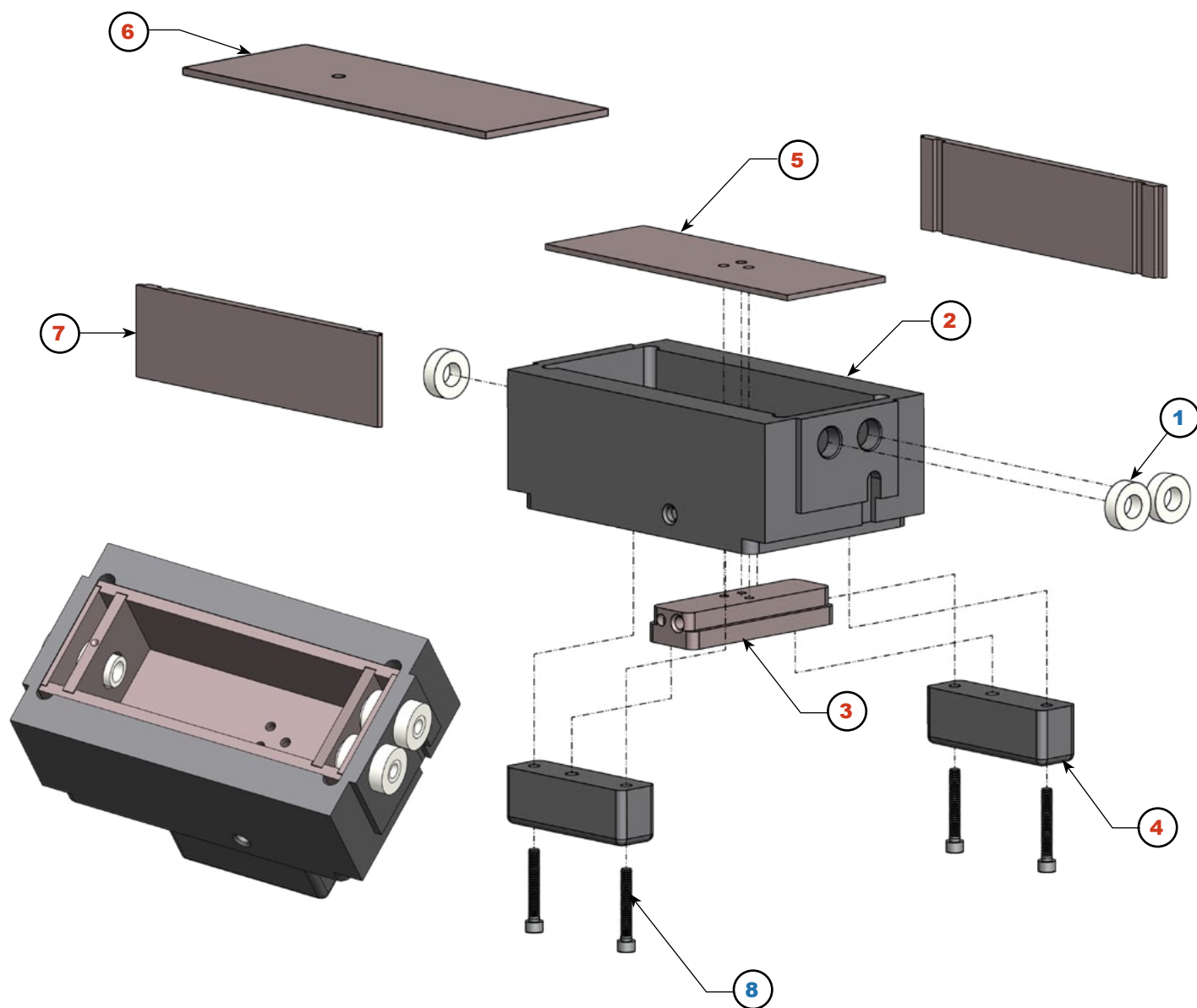
Item	P/N	Description	OEMs	Qty
1	51068	Pigtail Filament, Tungsten	E17036990	1
2	51109A	Filament/Repeller Insulator, Boron Nitride (High Temp)	E17168272, E17183480, E17168271	3
3	51109C	Filament/Repeller Insulator (Enhanced) Used With 55079BW & 55080CW	E17168271	
4	55074W	Reflector, Tungsten	E17066330, 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

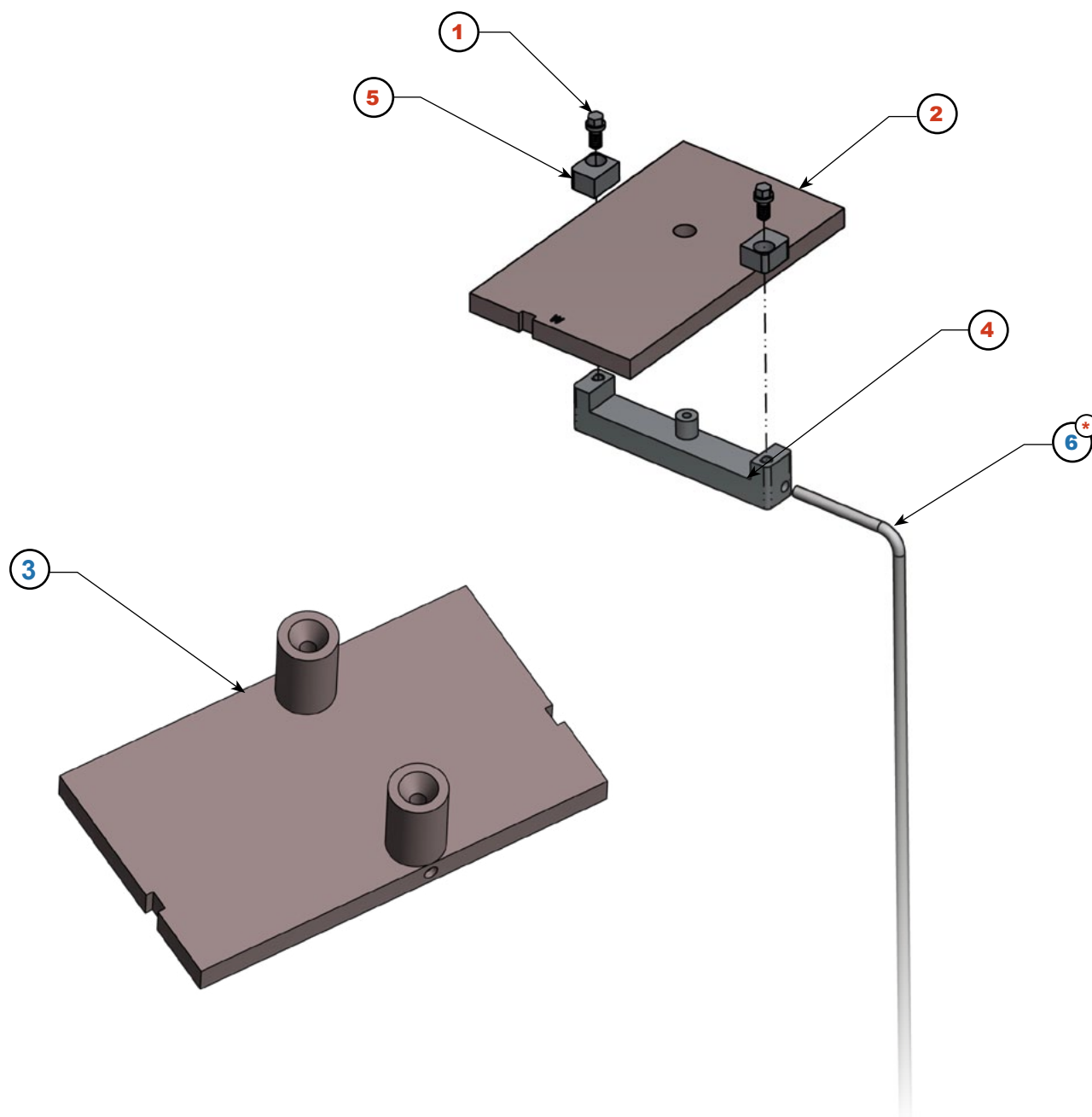


Item	P/N	Description	OEMs	Qty
1	51110	Filament/Repeller Insulator Nut, Aluminum Oxide	E17168280	3
2	55150A-1	One Piece Arc Chamber, Graphite	E17036921, E17063191	1
3	55150A-3	Manifold, Tungsten	E17036921, E17063191	1
4	55150A-4	Gas Port, Graphite	E17036921, E17063191	2
5	55160VW	Liner, Base Plate, Tungsten	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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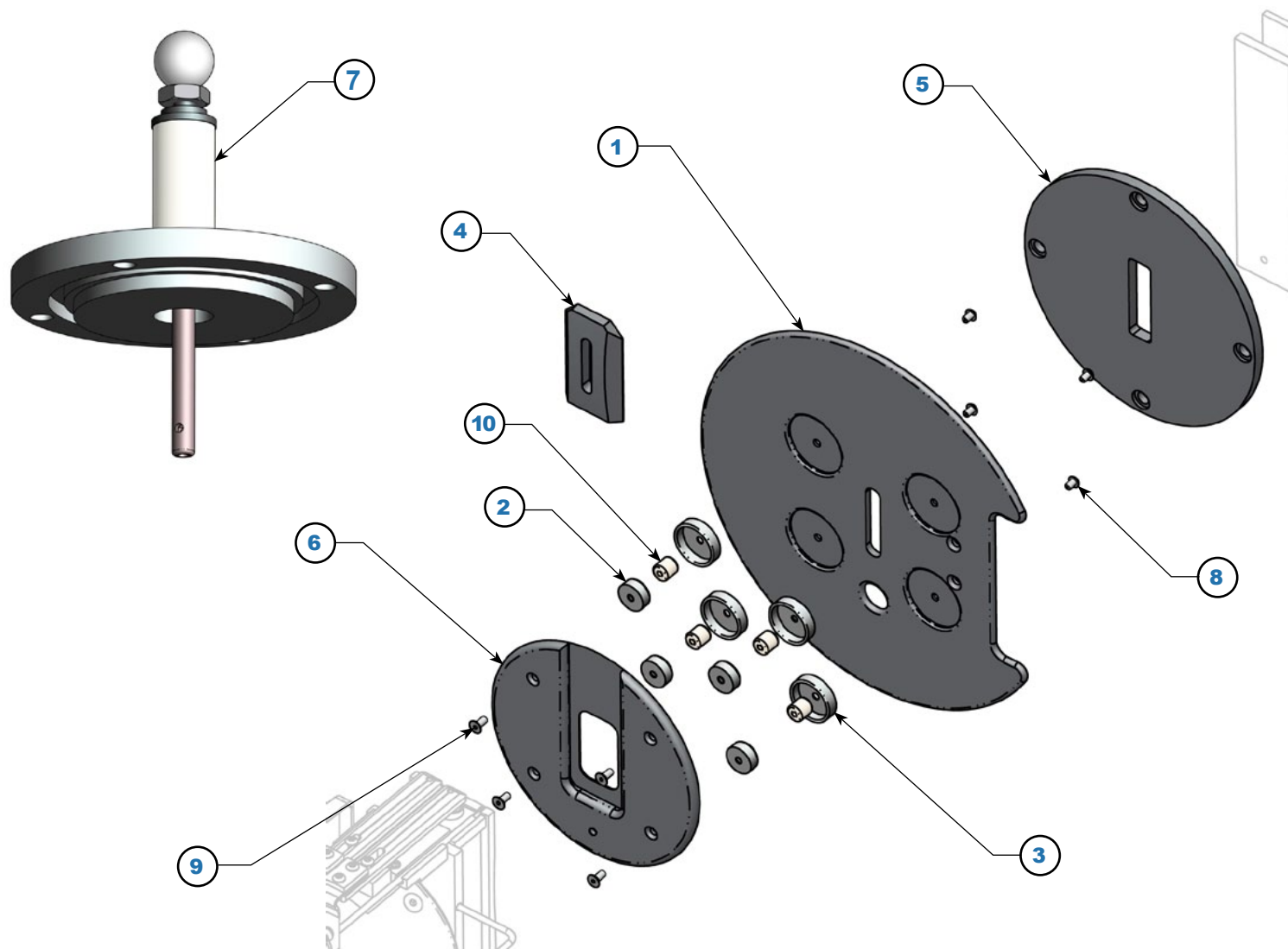
Options For Gas Feed/Manifold Components



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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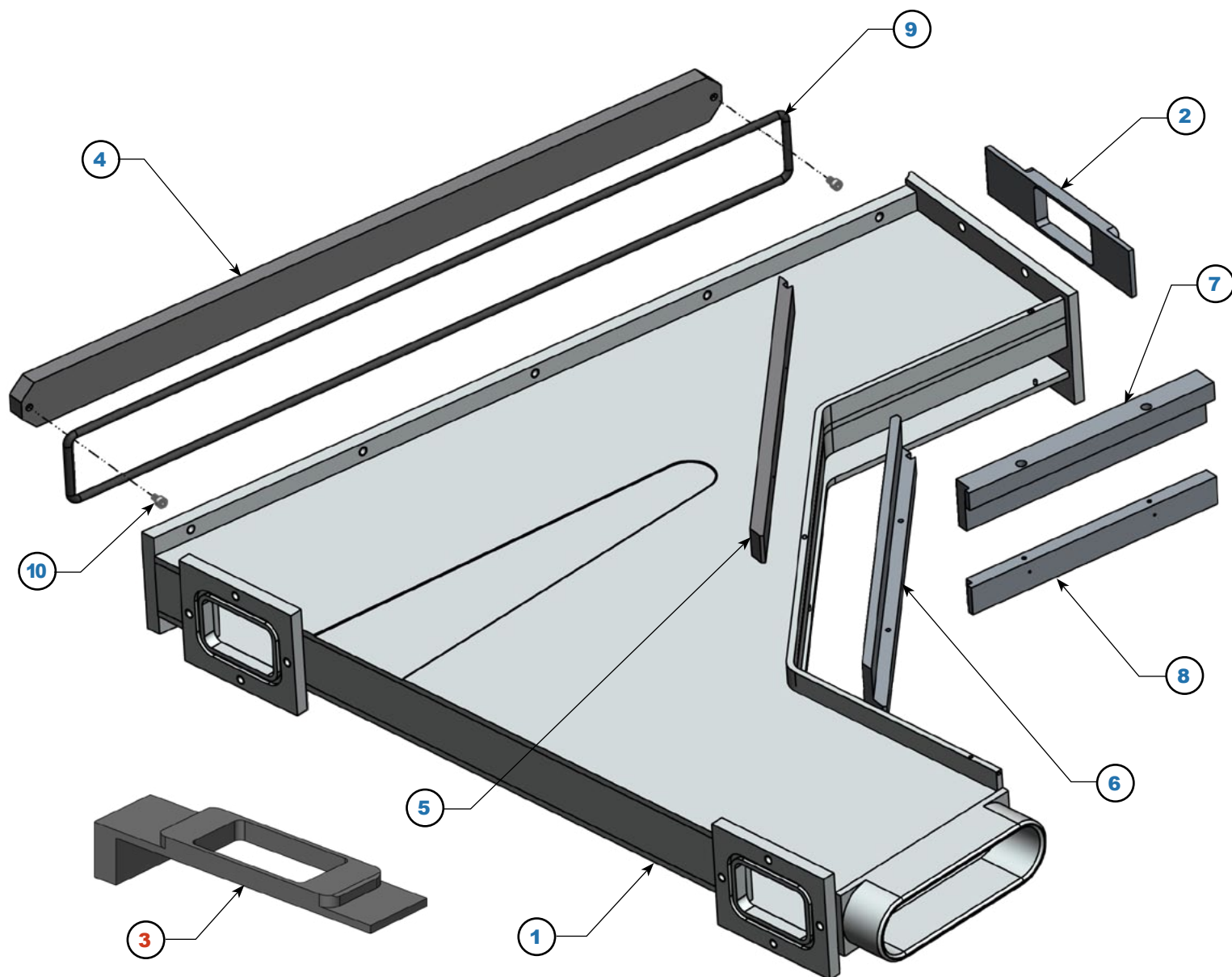
Extraction Electrode



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

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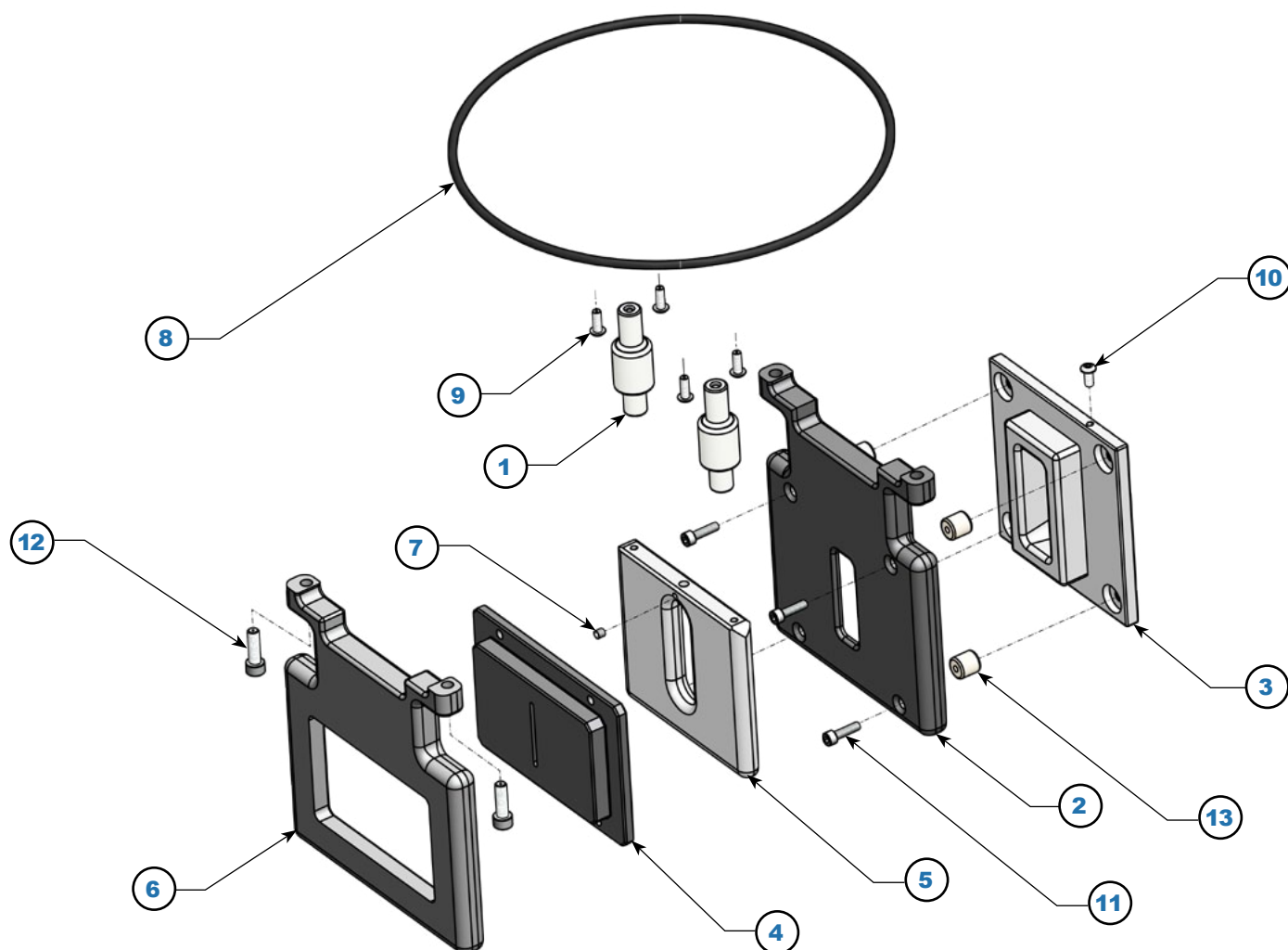
Analyzer Magnet



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

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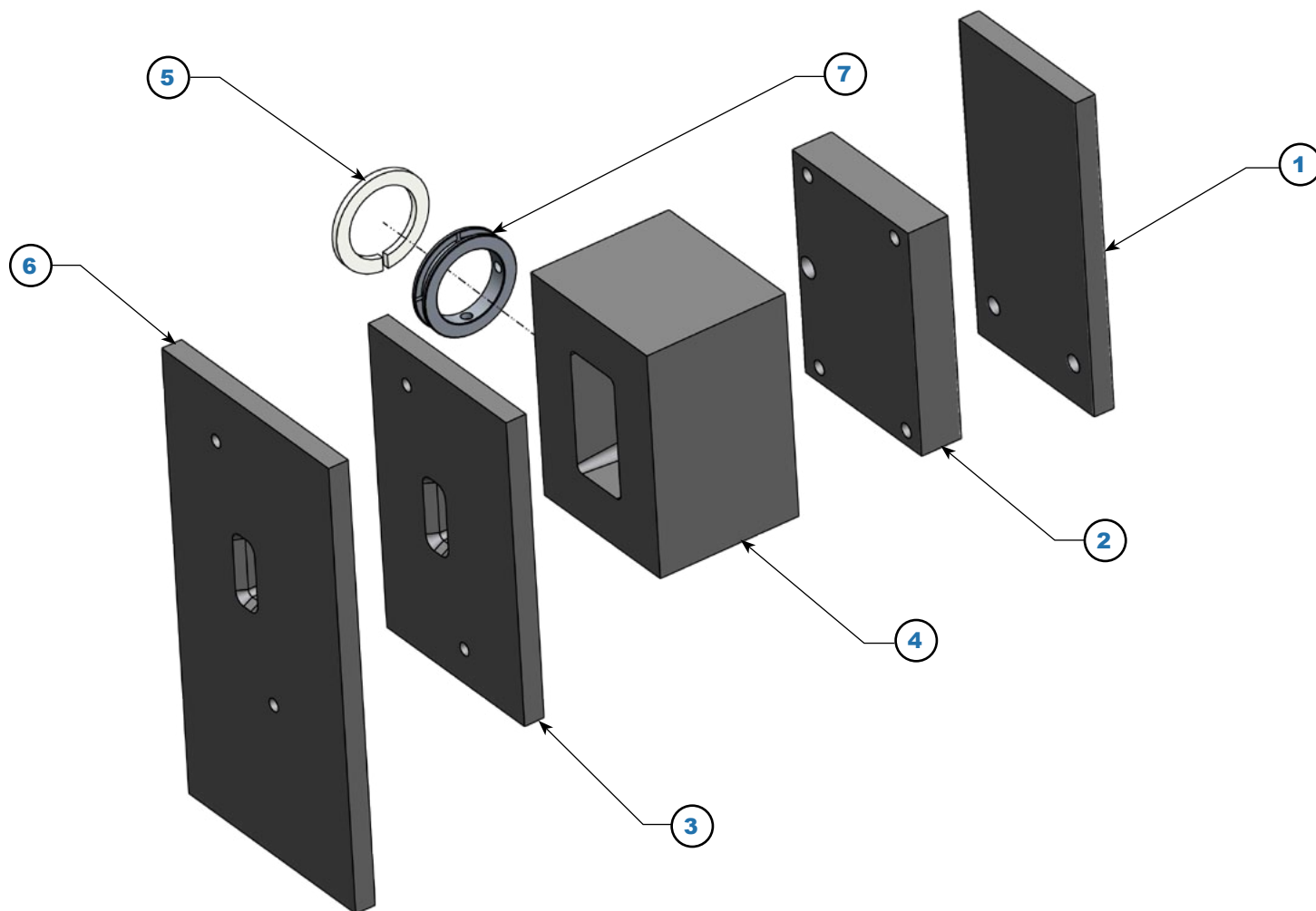
Mirror Assembly



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

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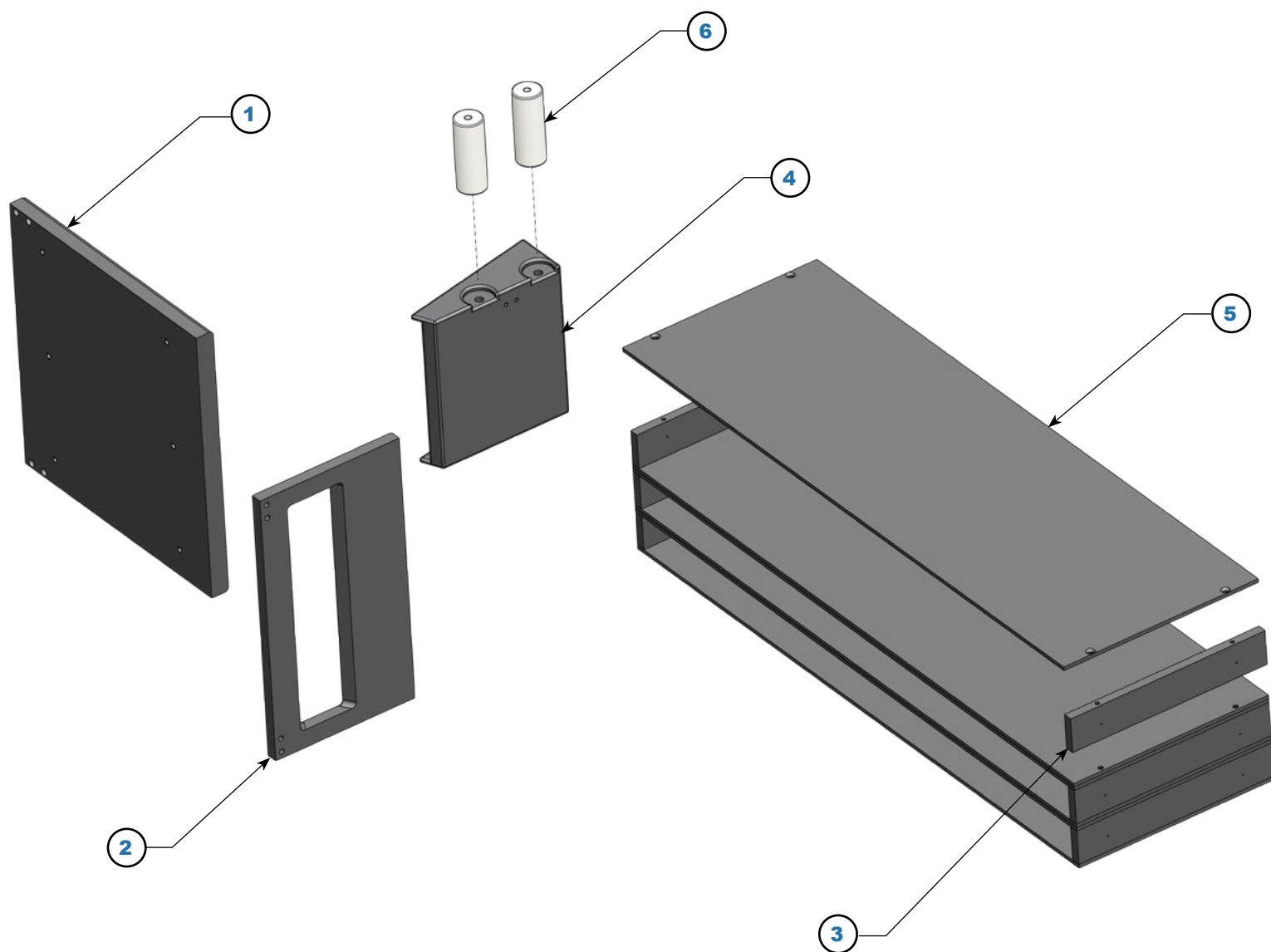
Faraday/Setup Cup



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

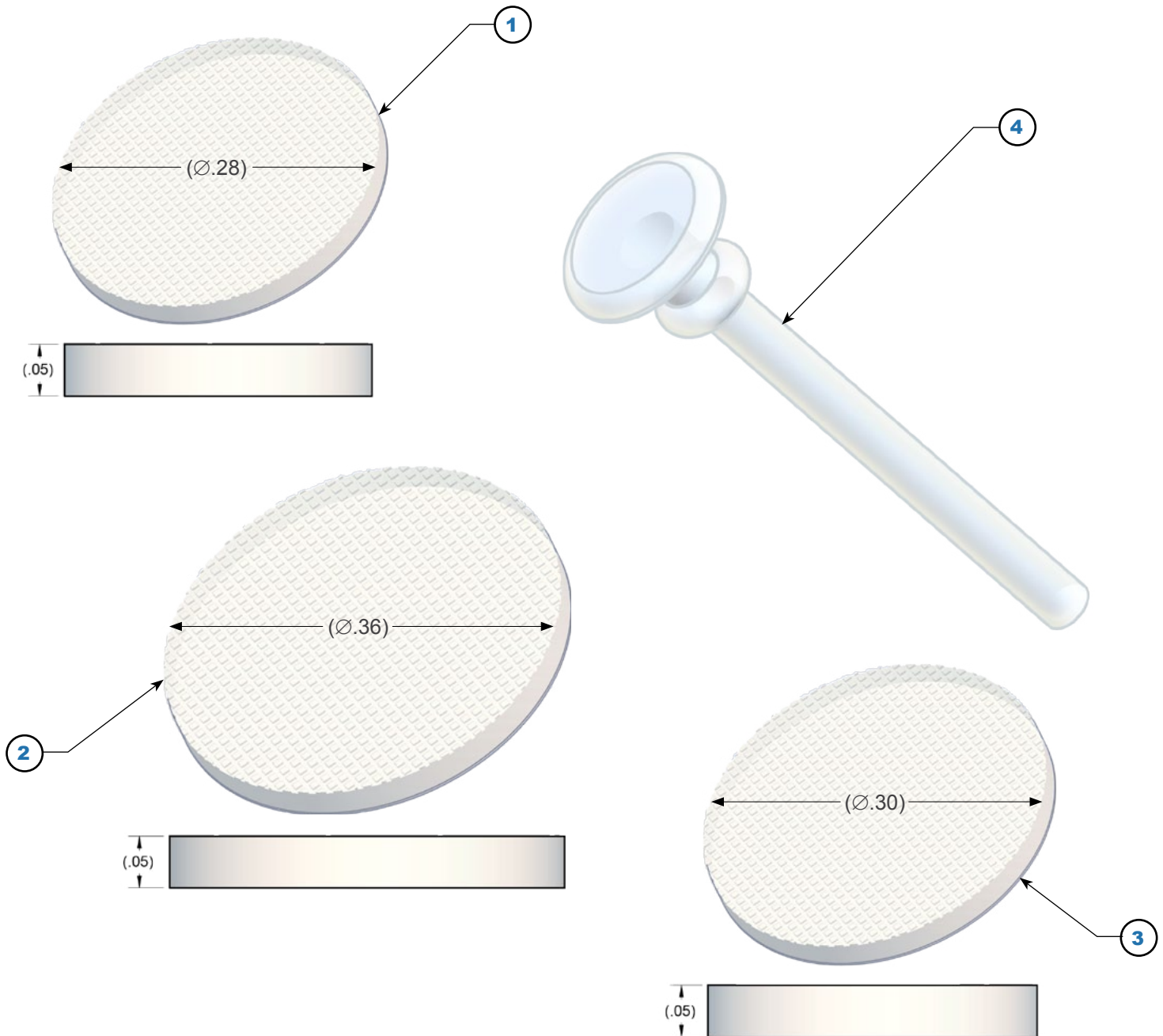
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Dipole & Scanner



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

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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

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