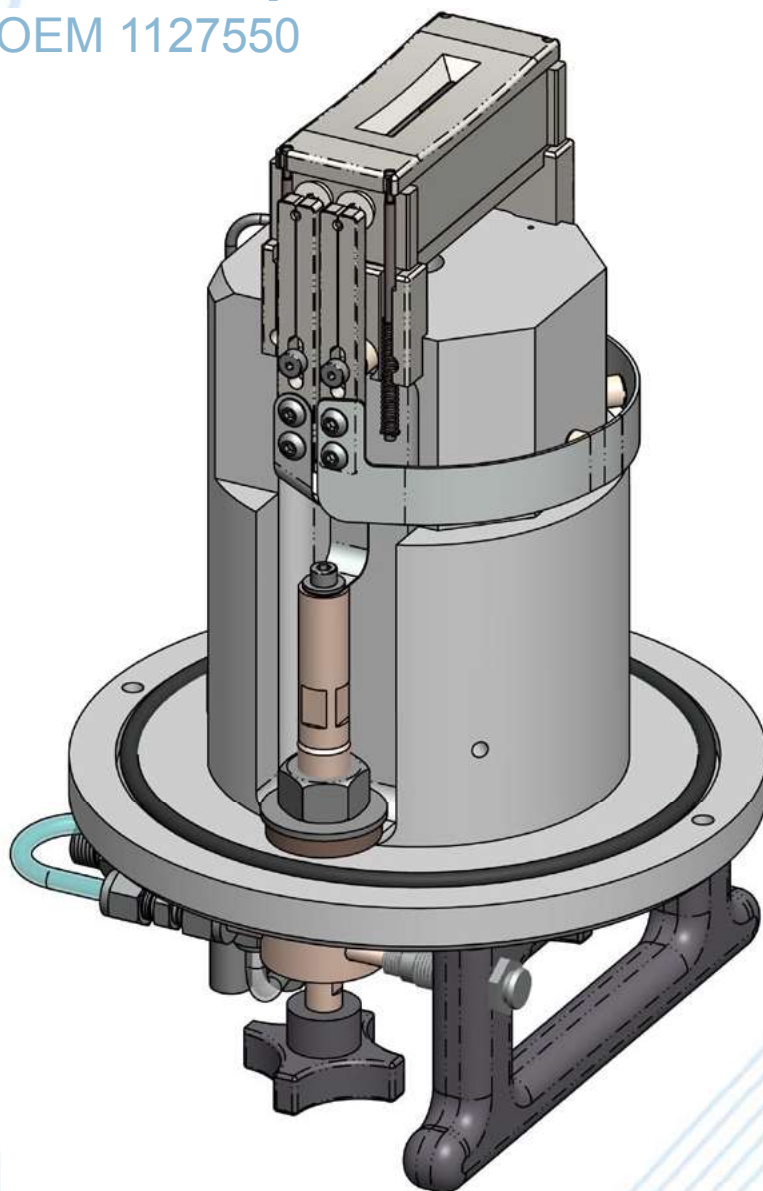




A Resource for Semiconductor Manufacturers

Illustrated Parts Guide for
**Non-Vaporizer Source for 10-80,
10-160 & NV-10 Implanters**

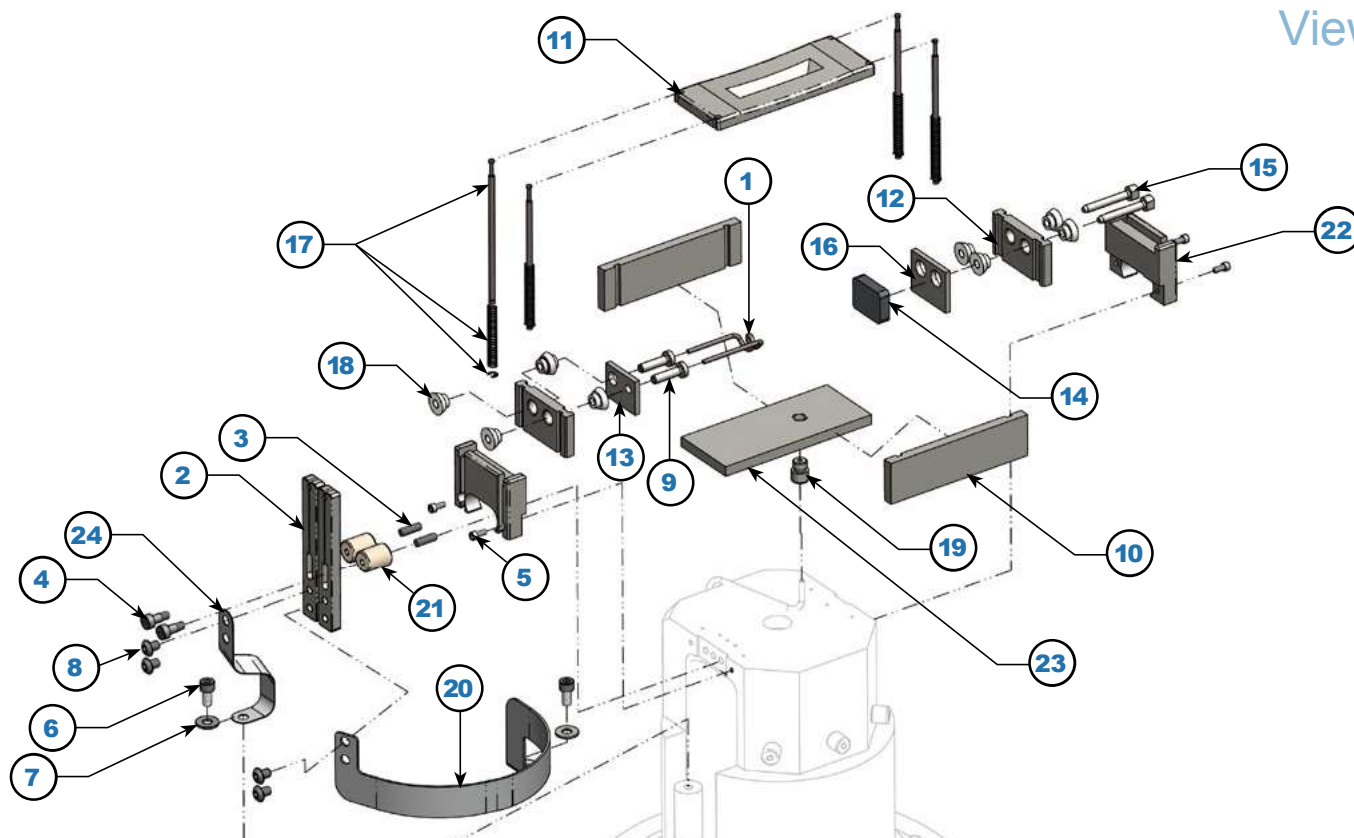
P/N 99210 - OEM 1127550





Non-Vaporizer Source Body Components

View 1

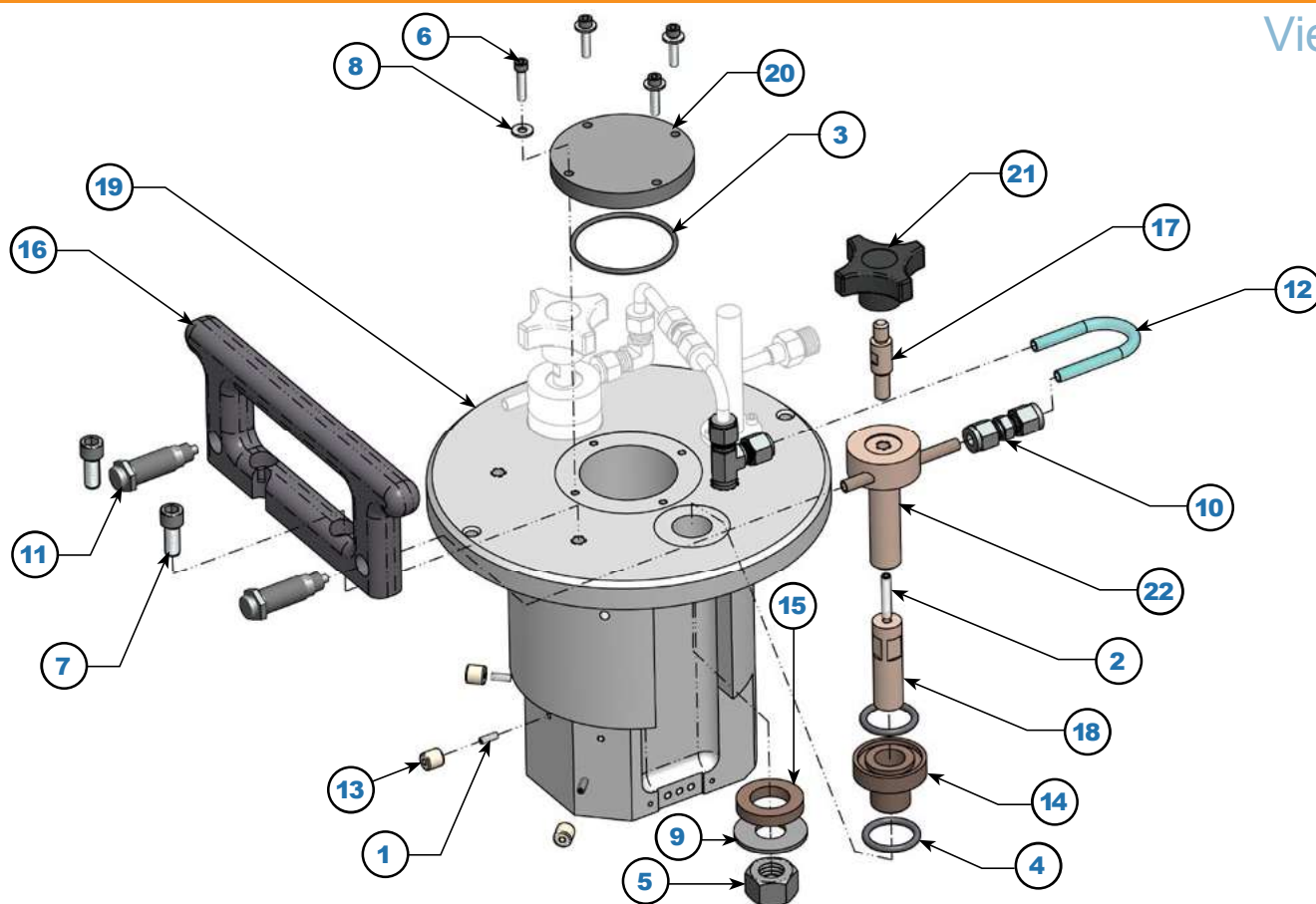


Item	P/N	Description	OEMs	Qty
1	30670	Pigtail Filament	1789850	1
2	40562	Filament Clamp	17043870	2
3	82127	8-32 X 1/2, Set Screw, 18-8 SST	1236200410	2
4	82285	Shoulder Screw, 8-32 .188 DIA X .250L, SST	4400263	2
5	82385	SHCS, 4-40 X 1/4", SST	1236200403	4
6	82439	SHCS, 10-32 X 3/8", SST	E47000047	2
7	82478	Washer, Flat, #10, .203 ID, .438 OD, .032 Thick, 18-8 SST	1410201000	2
8	82639	BHSS, 10-32 X 1/4", SST	E47000056	4
9	99002	Filament Insulator Insert, Molybdenum	1789930	2
10	99004	Side Plate, Molybdenum	1704990	2
11	99007	Face Plate	1717480	1
12	99008	End Plate	1789810	2
13	99009	Filament Shield	1789820	1
14	99010	Repeller Plate, Graphite	1789830	1
15	99011	Repeller Retainer Insert, Molybdenum	1789840	2
16	99012	Repeller Shield	1790420	1
17	99014	Retainer Pin Assembly	1200080	4
18	99022	Filament Insulator, Ceramic	1708680	7
19	99045	Gas Port, Short	No OEM Reference	1
20	99051	Feed Strap, Silver	1789890	1
21	99052	Ceramic Standoff, 1/2" Dia X 5/8" Long X 8-32 Thread	5000024	2
22	99053	Arc Chamber Mounting Block, Molybdenum	1789870	2
23	99070-1	Single Gas Base Plate	1705001	1
24	99178	Filament Strap, Silver	17033170B	1

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

Non-Vaporizer Source Body Components

View 2



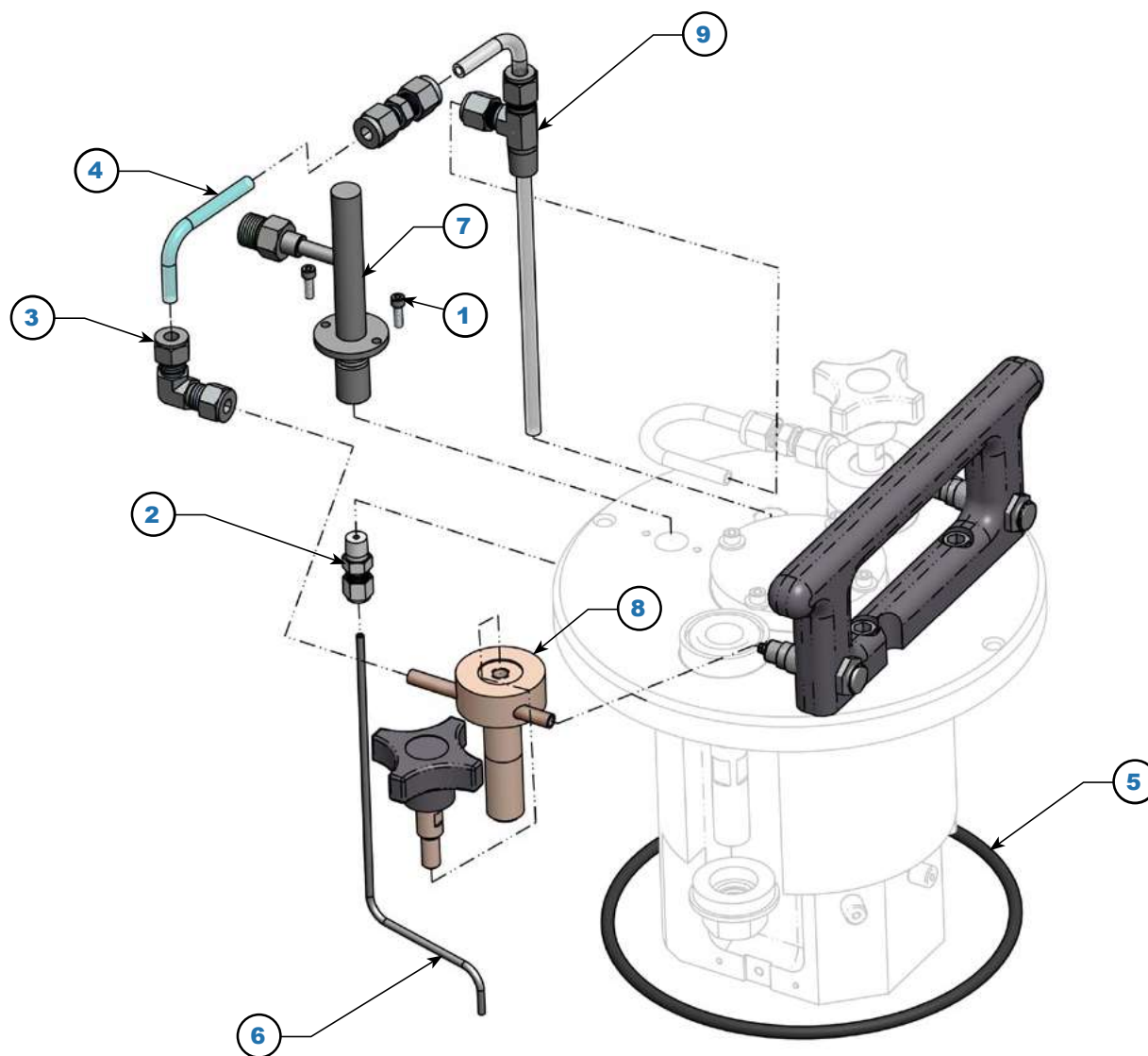
Item	P/N	Description	OEMs	Qty
1	82118	Set Screw, 6-32 X 3/8", SST	4400103	3
2	82195	Set Screw, 10-32 X 1", SST	No OEM Reference	2
3	82203	O-Ring, -136, Buna-N	3500067	1
4	82210	O-Ring, - 214, Buna-N	3500027	4
5	82337	Nut, 5/8-11 Hex, 316-AISI SST	4400006	2
6	82431	SHCS, 8-32 X 3/4", SST	4400057	4
7	82449	SHCS, 5/16-18 X 3/4", Alloy Steel	No OEM Reference	2
8	82474	Washer, Flat, Standard, #8, 18-8 SST	4400498	4
9	82491	Washer, Flat 9/16" High Strength, SST	1700250	2
10	82523	Fitting, Union, 1/4", 316 Stainless	3400806	2
11	82524	Fitting, 1/4" Shut-Off Body, Tube To Tube	No OEM Reference	2
12	82751	Tubing, 1/4" DIA. OD X .040 Wall, LDPE	7500007	As Needed
13	99054	Ceramic Standoff, 3/8" Dia X 3/8" Long X 6-32 Thread	5000132	3
14	99066	Feed-Thru, Vespel®	1700230	2
15	99067	Spacer, Vespel®	1700240	2
16	99117	Source Handle	1700130	1
17	99120	Threaded Stud	1700220	2
18	99121	Terminal Extension Buss	1715240	2
19	99123	Source Body	1789900	1
20	99153	Blank-Off Plate	1706310	1
21	99163	Source Knob	4000073	2
22	99187	Left Hand Terminal Stud	1700142	1

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



Non-Vaporizer Source Body Components

View 3



Item	P/N	Description	OEMs	Qty
1	82414	SHCS, 6-32 X 7/16", SST	4400044	2
2	82503	Male Connector, 1/8" P-NPT	No OEM Reference	1
3	82535	Fitting, Union Elbow, 1/4", 316 SST	3400062	1
4	82751	Tube, 1/4"OD X.040 Wall, LDPE	7500007	As Needed
5	83264	O-Ring, 364, Buna-N	3500028	1
6	99101	Gas Feed Tube	1740290	1
7	99110	Lower Gas Feed Tube, 1/8 NPT	1102030	1
8	99188	Right Hand Terminal Stud	1700141	1
9	99340	Cooling Tube Assembly	17033360	1

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



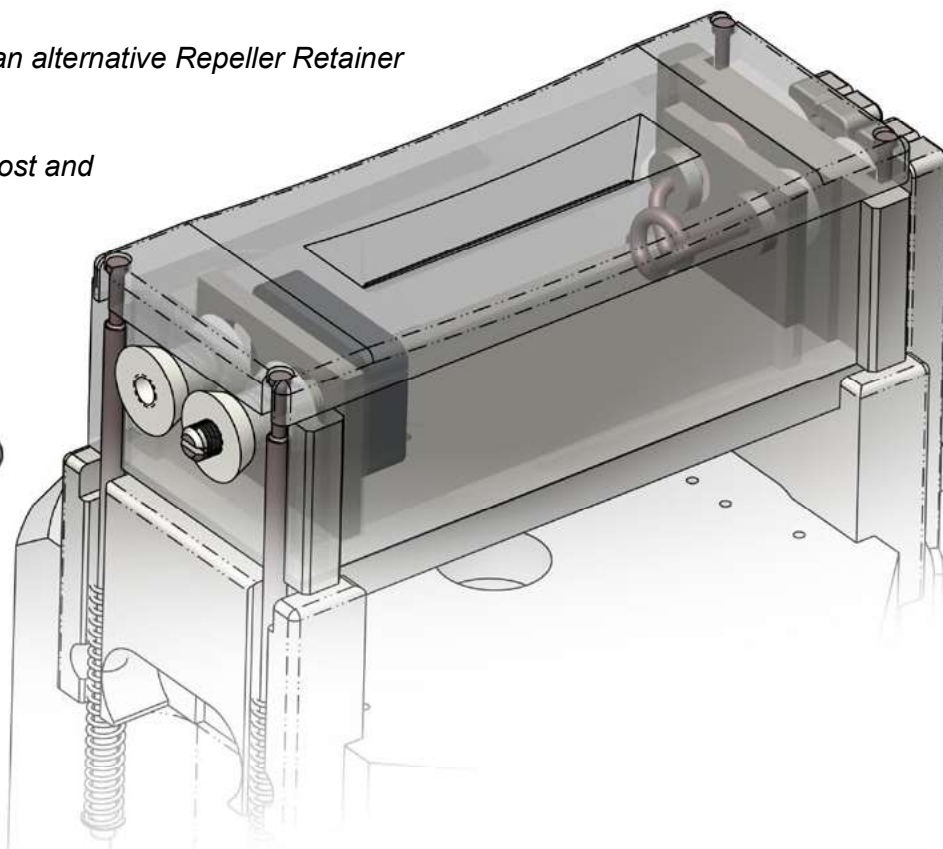
Arc Chamber Options

Glemco offers the **P/N 99234** as an alternative Repeller Retainer to the P/N 99011.

The headless design is lower in cost and allows for ease of assembly.

P/N 99234

OEM - 17072941 MOD
Repeller Retainer, Molybdenum



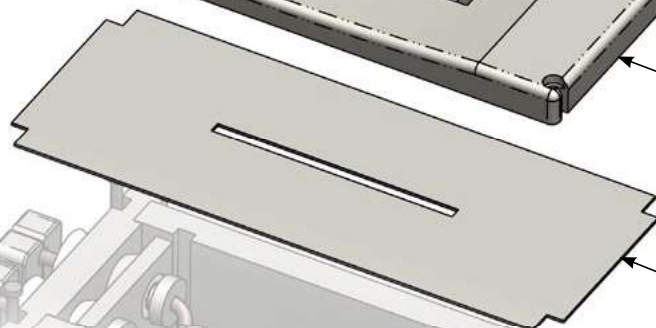
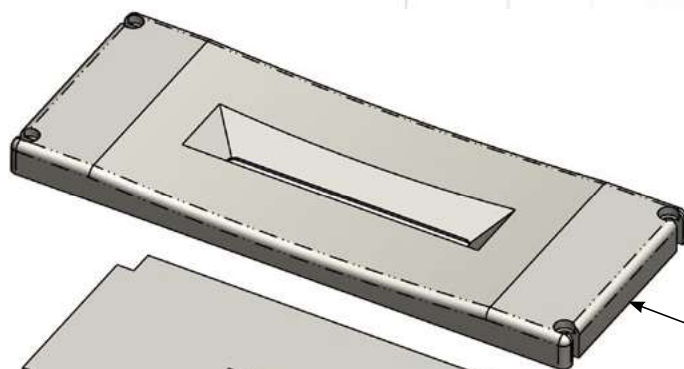
Our alternative Face Plate Assembly for P/N 99007 includes the **P/N 99007EEC** and **P/N 99159**.

P/N 99007EEC

OEM - 1717480 MOD
Face Plate, Thicker Slot, Molybdenum

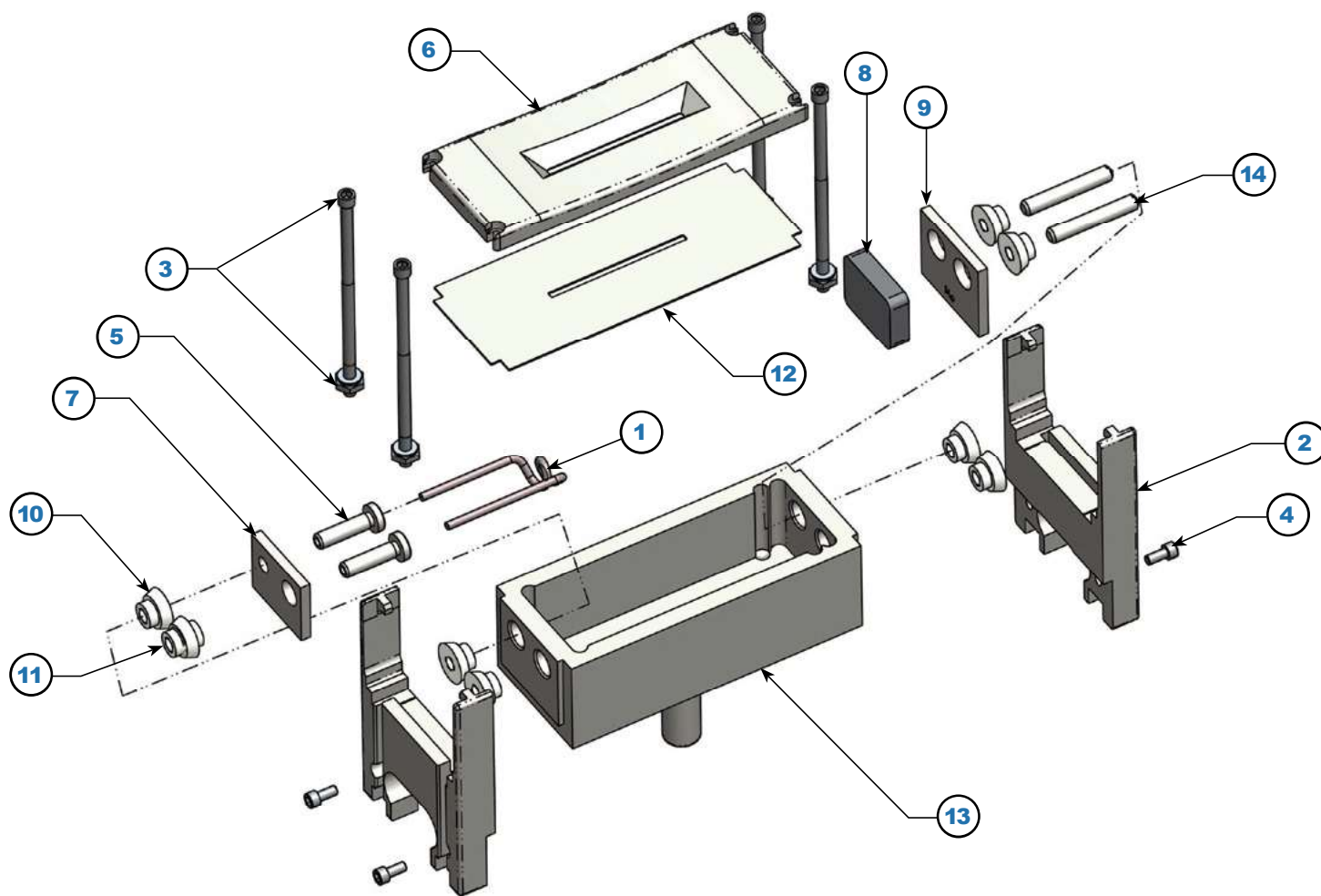
P/N 99159

OEM - 1717481
Aperture Shim, Molybdenum



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

Arc Chamber Options

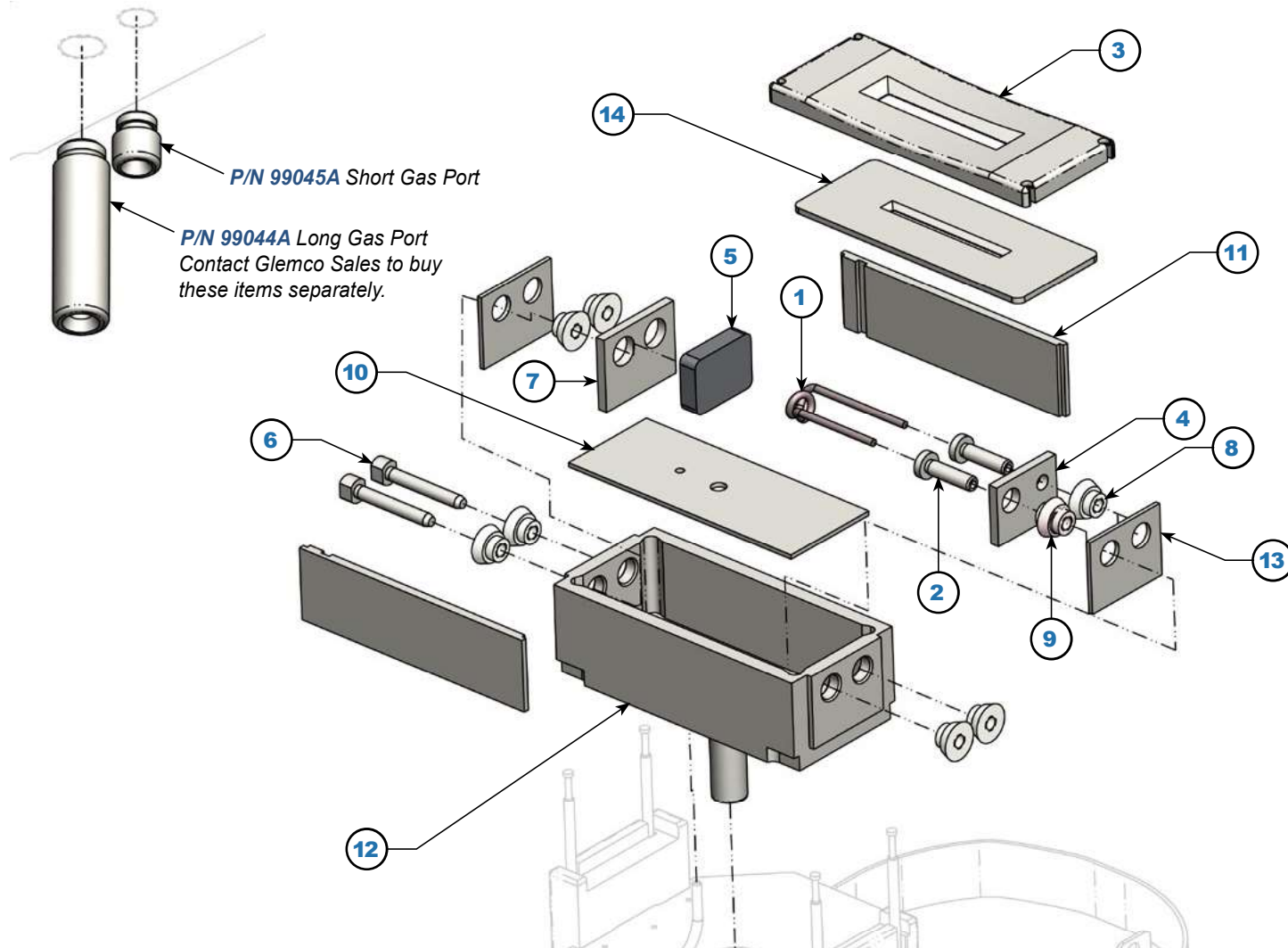


Item	P/N	Description	OEMs	Qty
1	30670	Pigtail Filament	1789850	1
2	40558	Arc Chamber Mounting Block	4710-0060-0002	2
3	40563	Retainer Screw Assembly	No OEM Reference	4
4	82385	SHCS, 4-40 X 1/4", SST	1236200403	4
5	99002	Filament Insulator Insert, Molybdenum	1200321	2
6	99007A	Face Plate	1717480	1
7	99009	Filament Shield	1789820	1
8	99010	Repeller Plate, Graphite	1789830	1
9	99012	Repeller Shield	1790420	1
10	99022	Filament Insulator, Ceramic	1708680	7
11	99023	Ceramic Filament Insulator	1709830, 17032830	1
12	99159	Aperture Shim	1717481	1
13	99221	One Piece Arc Chamber	No OEM Reference	1
14	99234	Repeller Retainer	17072941	2

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



Liner Solution for NV10-80



Item	P/N	Description	OEMs	Qty
1	30670	Pigtail Filament	1789850	1
2	99002	Filament Insulator Insert, Molybdenum	1200321 / 1789930	2
3	99007L	Face Plate, Liner Version, Molybdenum	No OEM Reference	1
4	99009	Filament Shield	1789820	1
5	99010	Repeller Plate, Graphite	1789830	1
6	99011	Repeller Retainer Insert, Molybdenum	1789840	2
7	99012	Repeller Shield	1790420	1
8	99022	Filament Insulator, Ceramic	1708680	7
9	99023	Filament Insulator, Ceramic	1709830 / 17032830	1
10	99207	Liner Base Plate, Molybdenum	No OEM Reference	1
11	99219	Liner Side Plate, Molybdenum	No OEM Reference	2
12	99221B	NV-10-80 Arc Chamber, 1 Piece, Liner Version, Molybdenum	No OEM Reference	1
13	99232	Universal End Liner, Molybdenum	No OEM Reference	2
14	99244	Face Plate Liner, .080 Thick, Molybdenum	No OEM Reference	1

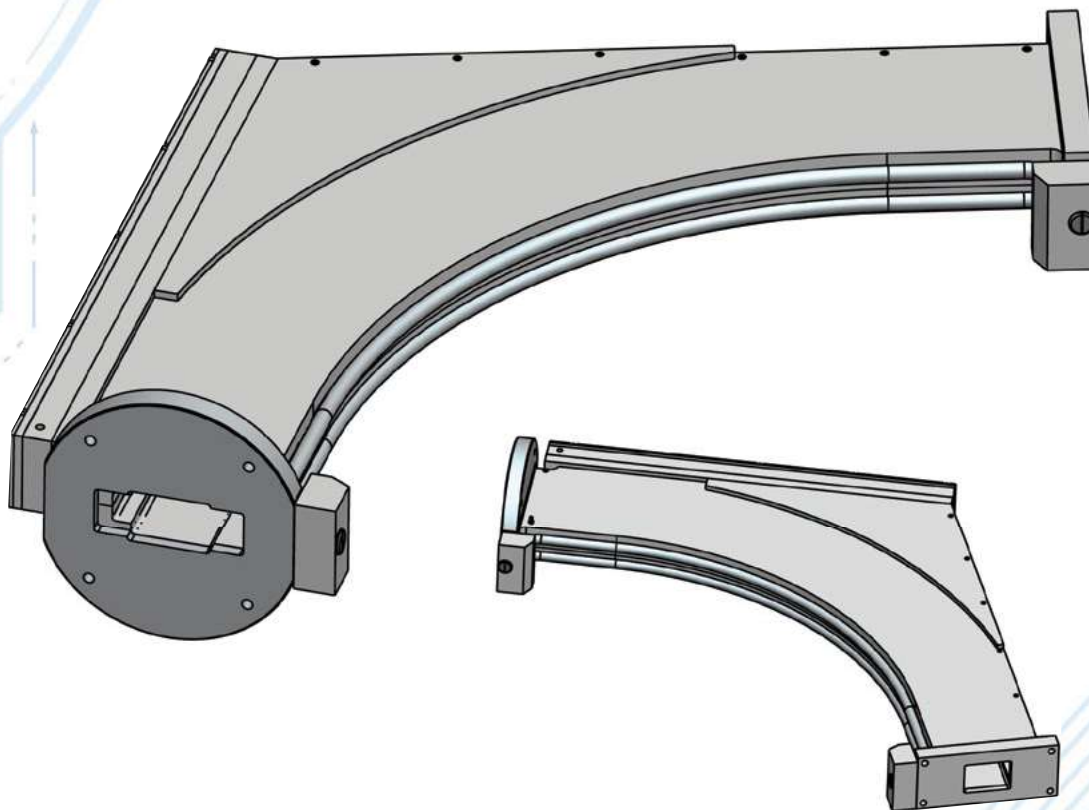
* Glemco offers improvements, modifications, or alternatives to standard OEM replacement components as indicated in red throughout this guide.



A Resource for Semiconductor Manufacturers

Illustrated Parts Guide for
**Wave Guide Assembly for
10-80, 10-160 & NV-10 Implanters**

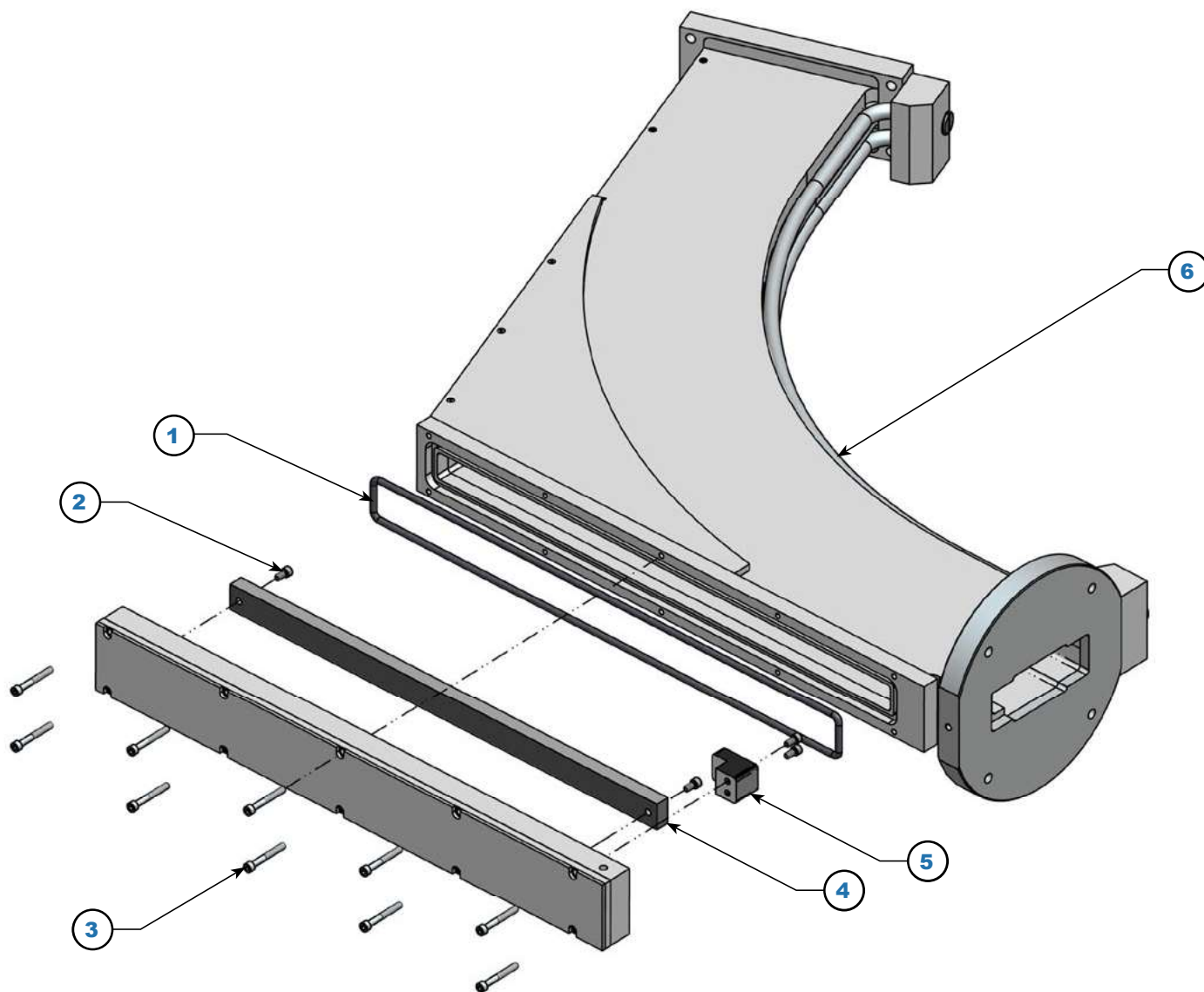
P/N 99160 - OEM 1103970





Wave Guide Assembly

99160



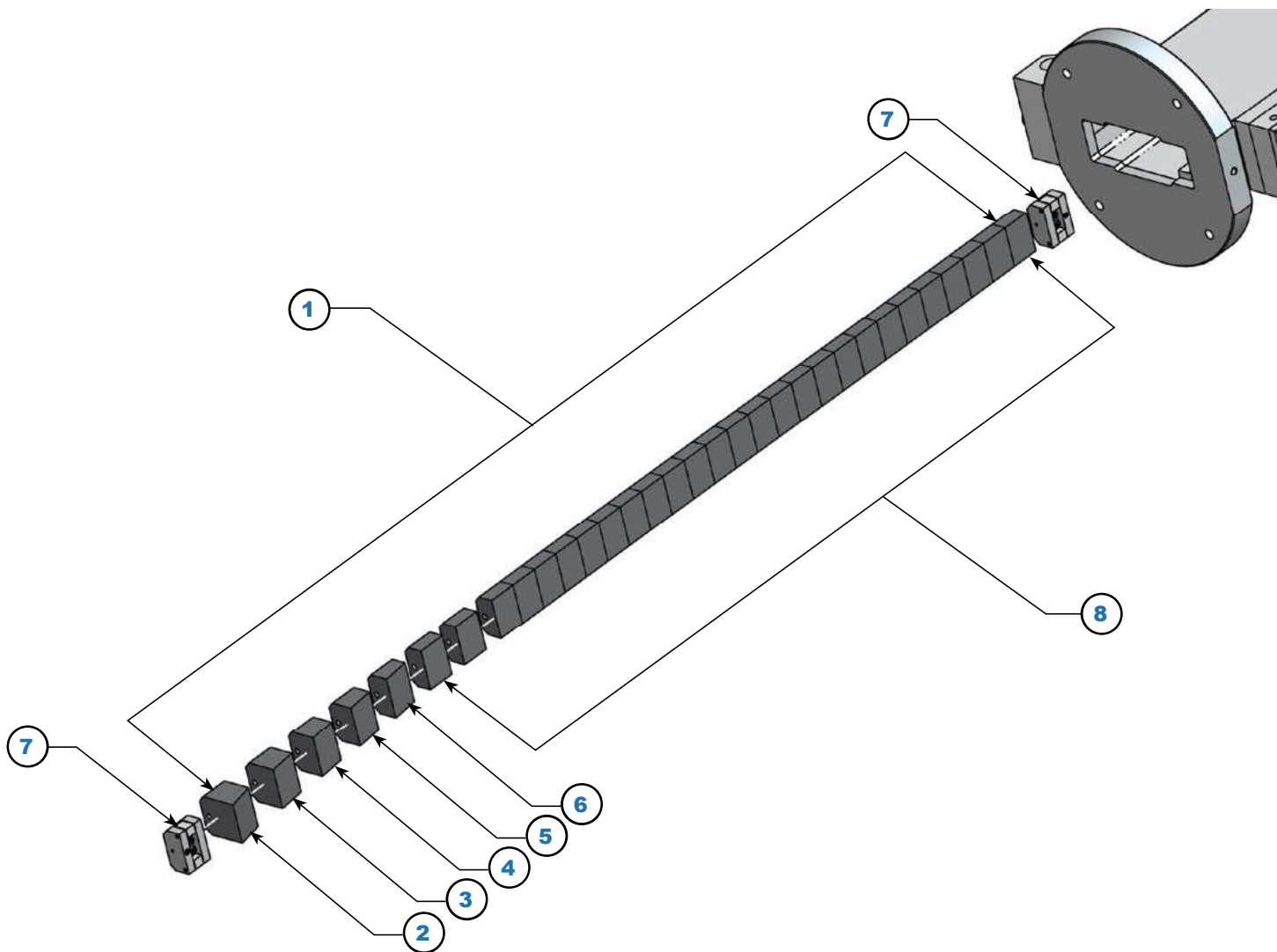
Item	P/N	Description	OEMs	Qty
1	82219	O-Ring, -382, Buna-N	3500114	1
2	82439	SHCS, 10-32 X 3/8", SST	E47000047	4
3	82443	SHCS, 10-32 X 1.5", SST	No OEM Reference	10
4	99029	Strike Plate Liner, Graphite	1740130	1
5	99129	Outside Radius Block	1740120	1
6	99160	Wave Guide Assembly	1103970	1

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



Liner Block Set With Mounting Assembly

99151/99152



Item	P/N	Description	OEMs	Qty
1	99151	Liner Block Set, Graphite	No OEM Reference	1
2	99151-1	Liner Block	17062931	1
3	99151-2	Liner Block	17062932	1
4	99151-3	Liner Block	17062933	1
5	99151-4	Liner Block	17062934	1
6	99151-5	Liner Block	17062935	1
7	99152	Liner Block Mounting Assembly	No OEM Reference	1
8	99155	Liner Block	1732990	27

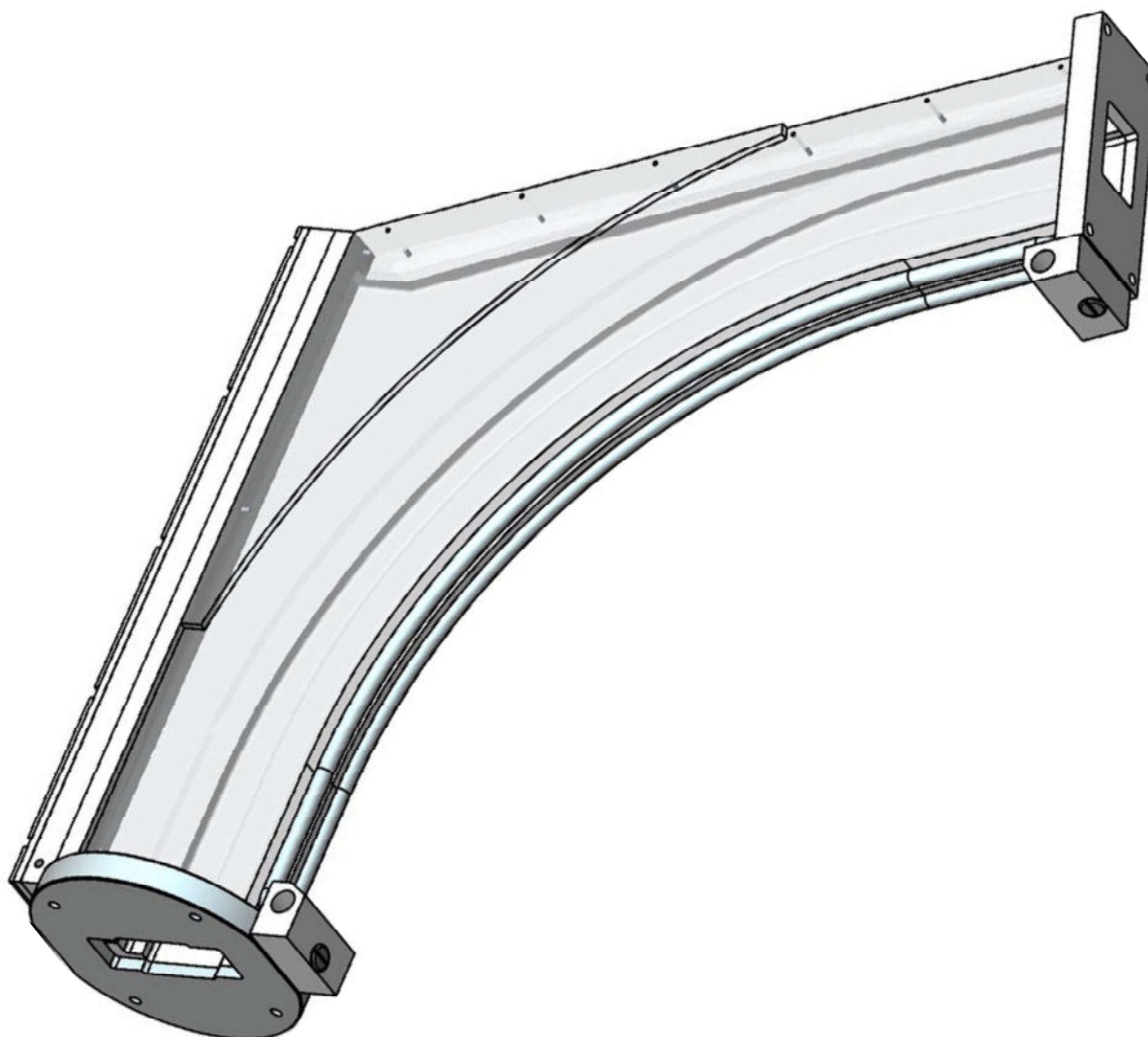
* Glemco offers improvements, modifications, or alternatives to standard OEM replacement components as indicated in red throughout this guide.



Optional Wave Guide Assembly

99160K-WC — OEM: 11103970

*Glemco also offers the **P/N 99160K-WC** as an optional wave guide assembly. This assembly only features the Magnet Chamber. The graphite strike plates and block assembly are not included. Product is packed in an international shipping crate.*

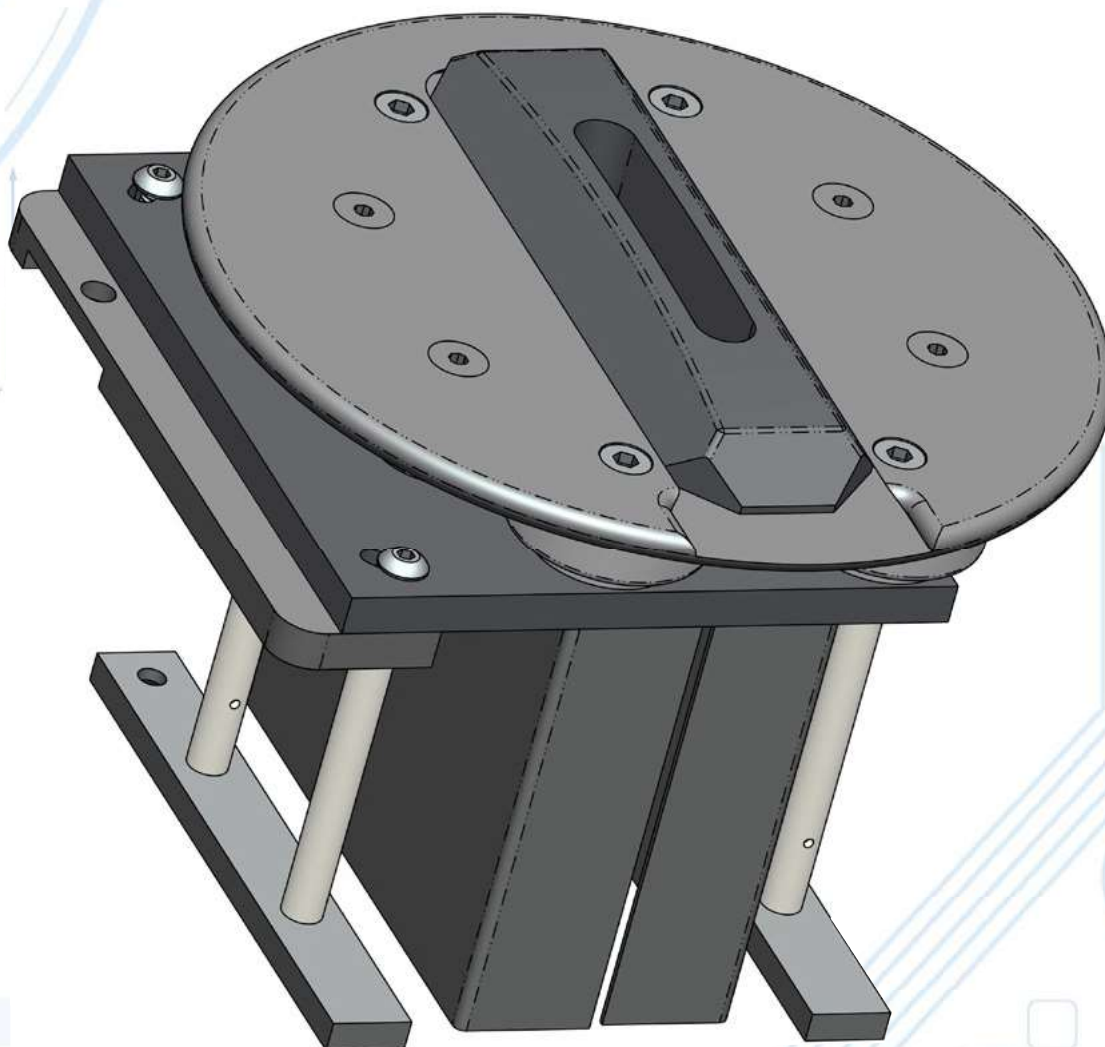




A Resource for Semiconductor Manufacturers

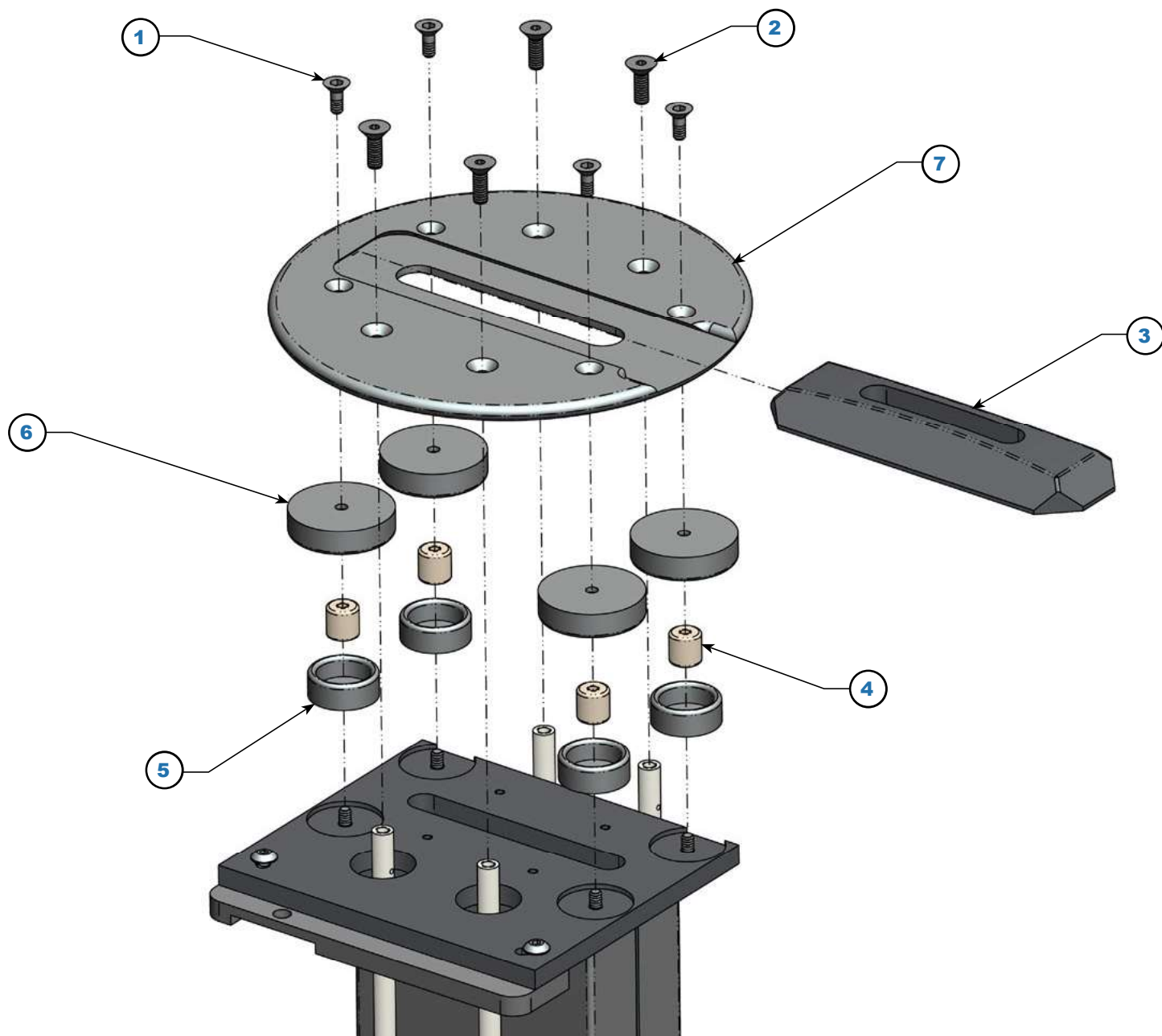
Illustrated Parts Guide for
**Extraction Electrode Assembly for
10-80, 10-160 & NV-10 Implanters**

P/N 99144 - OEM 1102460



Extraction Electrode Assembly

View 1

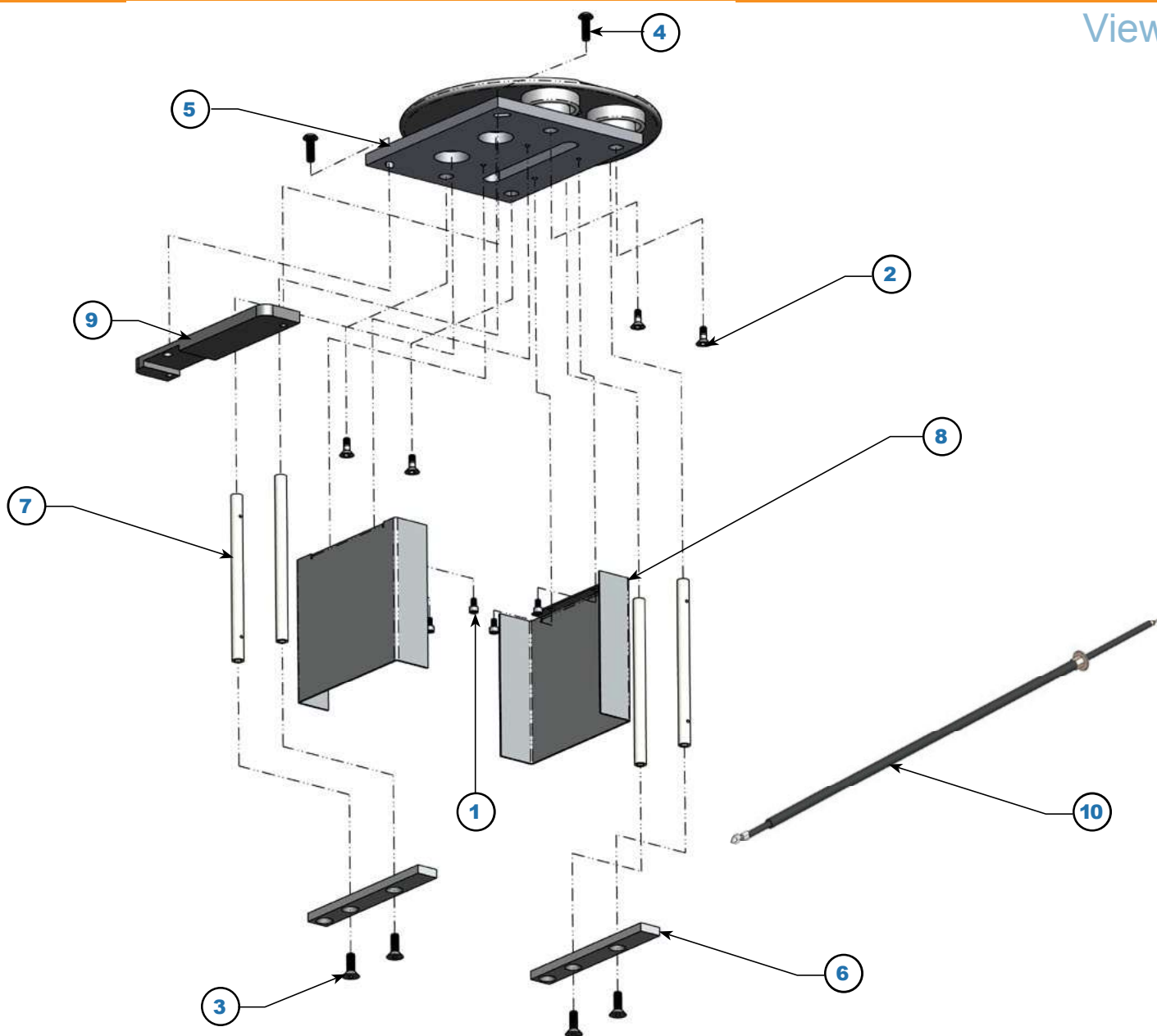


Item	P/N	Description	OEMs	Qty
1	82587	FHSS, 6-32 X 3/8", SST	No OEM Reference	4
2	82589	FHSS, 8-32 X 1/2", SST	No OEM Reference	4
3	99028	Curved Field Block	1704940	1
4	99054	Ceramic Standoff, 3/8" Dia X 3/8" Long X 6-32 Thread	7230-0003-0038	4
5	99138	Small Cup	1711262	4
6	99139	Large Cup	1711261	4
7	99143	Block Carrier	1711280	1

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

Extraction Electrode Assembly

View 2



Item	P/N	Description	OEMs	Qty
1	82384	SHCS, 4-40 X 3/16", SST	No OEM Reference	4
2	82587	FHSS, 6-32 X 3/8", SST	No OEM Reference	4
3	82589	FHSS, 8-32 X 1/2", SST	No OEM Reference	4
4	82633	BHSS, 8-32 X 1/2", SST	No OEM Reference	2
5	99030	Single Gas Electrode Ground Plate	1712070	1
6	99137	Bar	1701730	2
7	99140	Standoff	1712390	4
8	99141	Bracket, Pair	1712400	1
9	99142	Support Plate	1715000	1
10	99601	Extraction Electrode Ground Cable	1174750	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 **Axcelis® GSD 200E**

Source Components
Non-Vaporizer/Vaporizer
pgs. 2-18

GSD Water Cooled and
Non-Water Cooled Bushing
and Liner Flange Upgrades
pgs. 19-21

Extraction Electrode
Version 34
pgs. 22-29

Faraday Flag Selective
Aperture Components
pgs. 32-37

Faraday Discs and
End Station Components
pgs. 54-55

High Current Post Accel
Extraction Electrode Assembly
Resolve Housing Aperture
pgs. 31

GSD Electron Shower
pgs. 38-40

Eaton GSD Electron Shower
Housing Assembly - 99400
pgs. 41-47

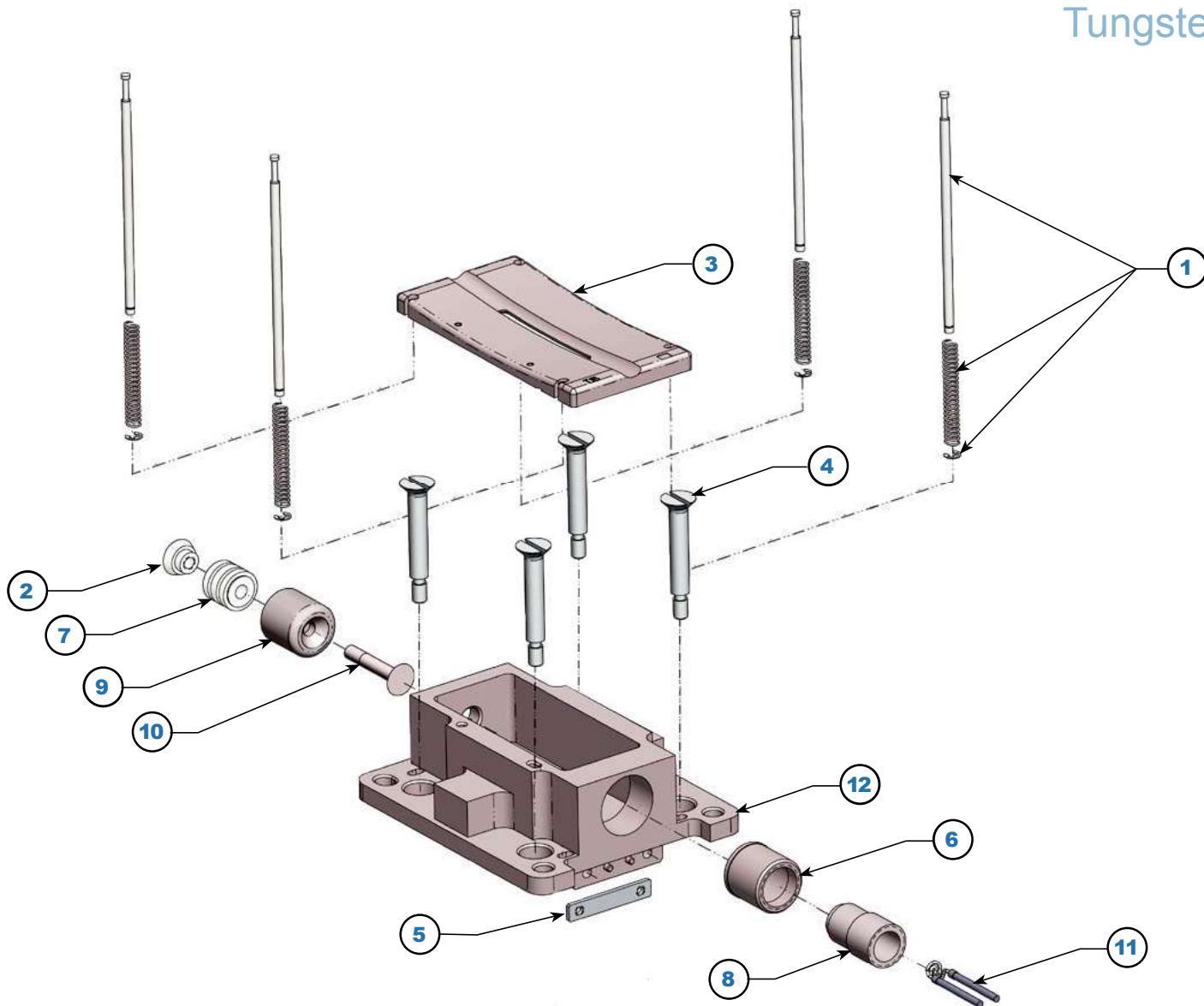
Eaton GSD ELS Plasma
Shower Assembly - 99540
pgs. 48-53

GSD Analyzer
Components
pgs. 30



Non-Vaporizer Arc Chamber Components

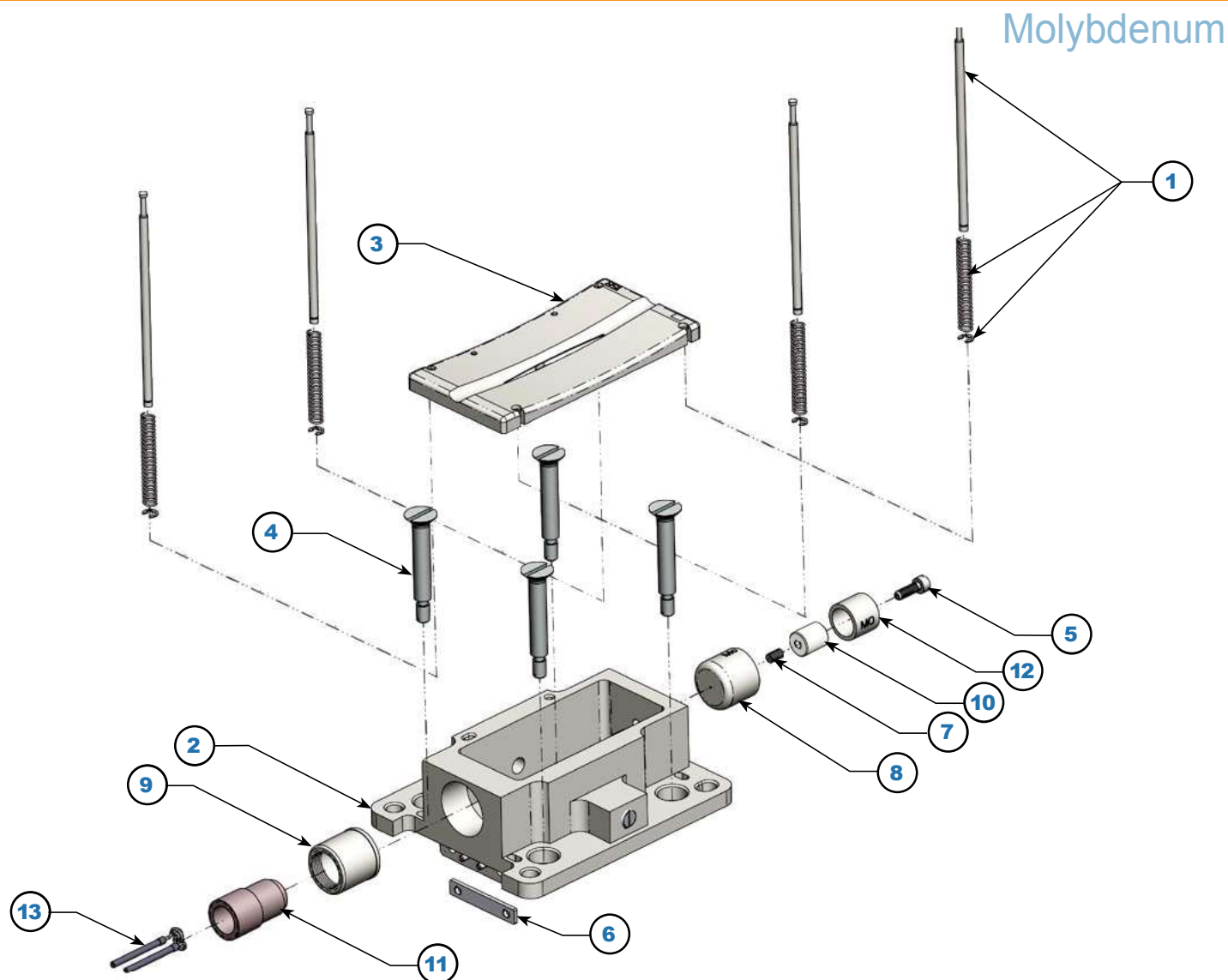
Tungsten



Item	P/N	Description	OEMs	Qty
1	99014	Retainer Pin Assembly	1200080	4
2	99022	Filament Insulator Ceramic	1708680	1
3	99290W	Face Slit Plate, Tungsten	17129020	1
4	99338	Arc Chamber Mounting Screw	17127640	4
5	99404A	Screw Retainer No Slots	17189140	1
6	99409W	Cathode Repeller Fully Dense/Pure Tungsten	17133340	1
7	99412A	Repeller Insulator	17170590	1
8	99413A	GSD ELS Cathode, Arc Wire, Tungsten	17158000	1
9	99429	Repeller, Tungsten	17170600	1
10	99430	Repeller Screw, Tungsten	17170610	1
11	99477A	GSD ELS Filament, .040	17287850	1
12	99589	GSD ELS Arc Chamber, .313 Repeller Hole, No Vaporizer Ports, No Liner Pocket, Tungsten	17133310	1

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

Non-Vaporizer Arc Chamber Components

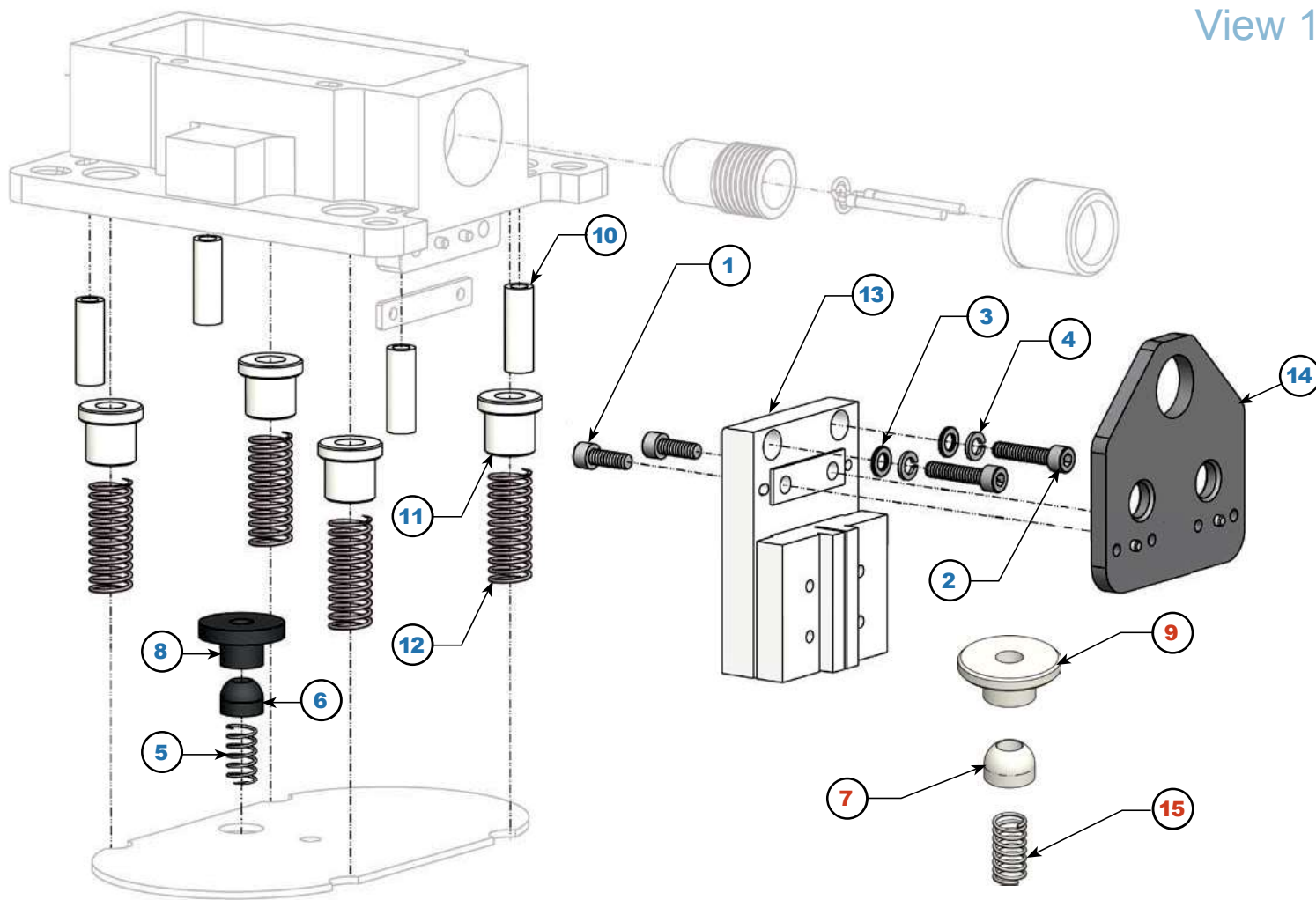


Item	P/N	Description	OEMs	Qty
1	99014	Retainer Pin Assembly	1200080	4
2	99286C	GSD ELS Arc Chamber, .140 Repeller Hole, No Vaporizer Ports, Molybdenum	17133400 REF	1
3	99290	Face Plate, Molybdenum	17128110	1
4	99338	Arc Chamber Mounting Screw	17127640	4
5	99403	Repeller Screw, Molybdenum	17121770	1
6	99404A	Screw Retainer No Slots	17189140	1
7	99405	Repeller Set Screw	17121760	1
8	99406	Repeller, Molybdenum	17121740	1
9	99409	Cathode Repeller, Molybdenum	17121930	1
10	99412	Repeller Insulator, 3/8" X 7/16" X 6-32 Thread	17121850, 17E9158	1
11	99413A	GSD ELS Cathode, Arc Wire, Tungsten	17158000	1
12	99415	Inner Cup Shield, Molybdenum	17121750, 6615-0003-0001	1
13	99477A	GSD ELS Filament, .040	17287850	1

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

Non-Vaporizer Source Body Components

View 1

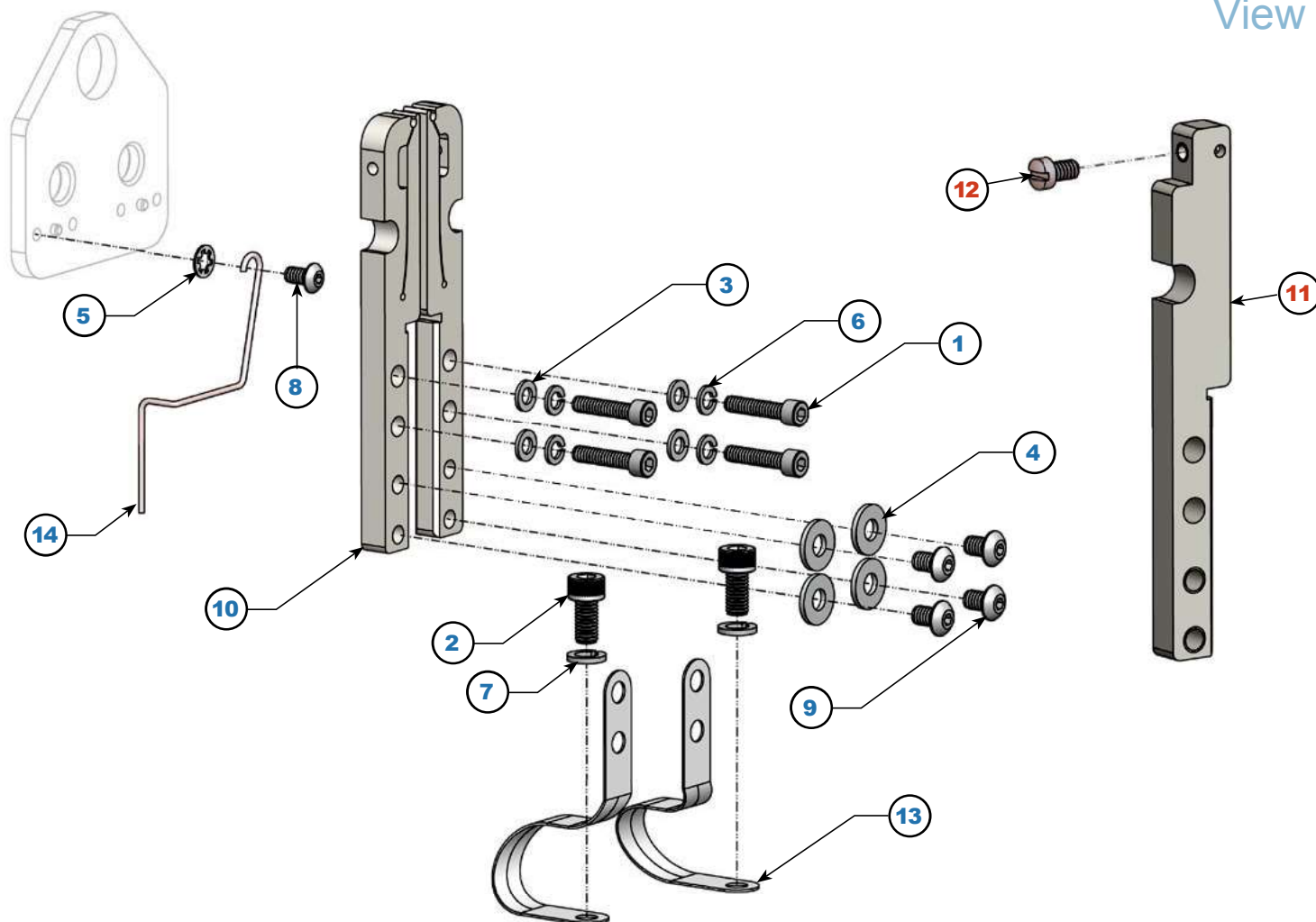


Item	P/N	Description	OEMs	Qty
1	82411	SHCS, 6-32 X 3/8", SST	4400044	2
2	82420	SHCS, 6-32 X 5/8", SST	4400061	2
3	82469	#6 Washer, .032TH, 5/16 ID, 1/4 OD, 18-8 SST	8462-0043-0001	2
4	82606	#6 Regular Spring Washer, 18-8 SST	4400034	2
5	99172A	Compression Spring Stainless	17033140	1
6	99176	Ball Joint Graphite	17021591	1
7	99176C	Ball Joint, Alumina	17287690	
8	99177	Skt Joint	17033150	1
9	99177C	SKT Joint, Alumina	No OEM Reference	
10	99285A	Ceramic Spacer	17124410	4
11	99292	Shoulder Screw Spacer	17128230	4
12	99293	Shoulder Screw Spring	4001166	4
13	99401B	Insulator Mounting Block With Screws	17287870	1
14	99410GC	Cathode Support Plate, Graphite	17287860 REV A	1
15	99664A	Compression Spring, GSD, Long Life Gas Feed	17270640	

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

Non-Vaporizer Source Body Components

View 2

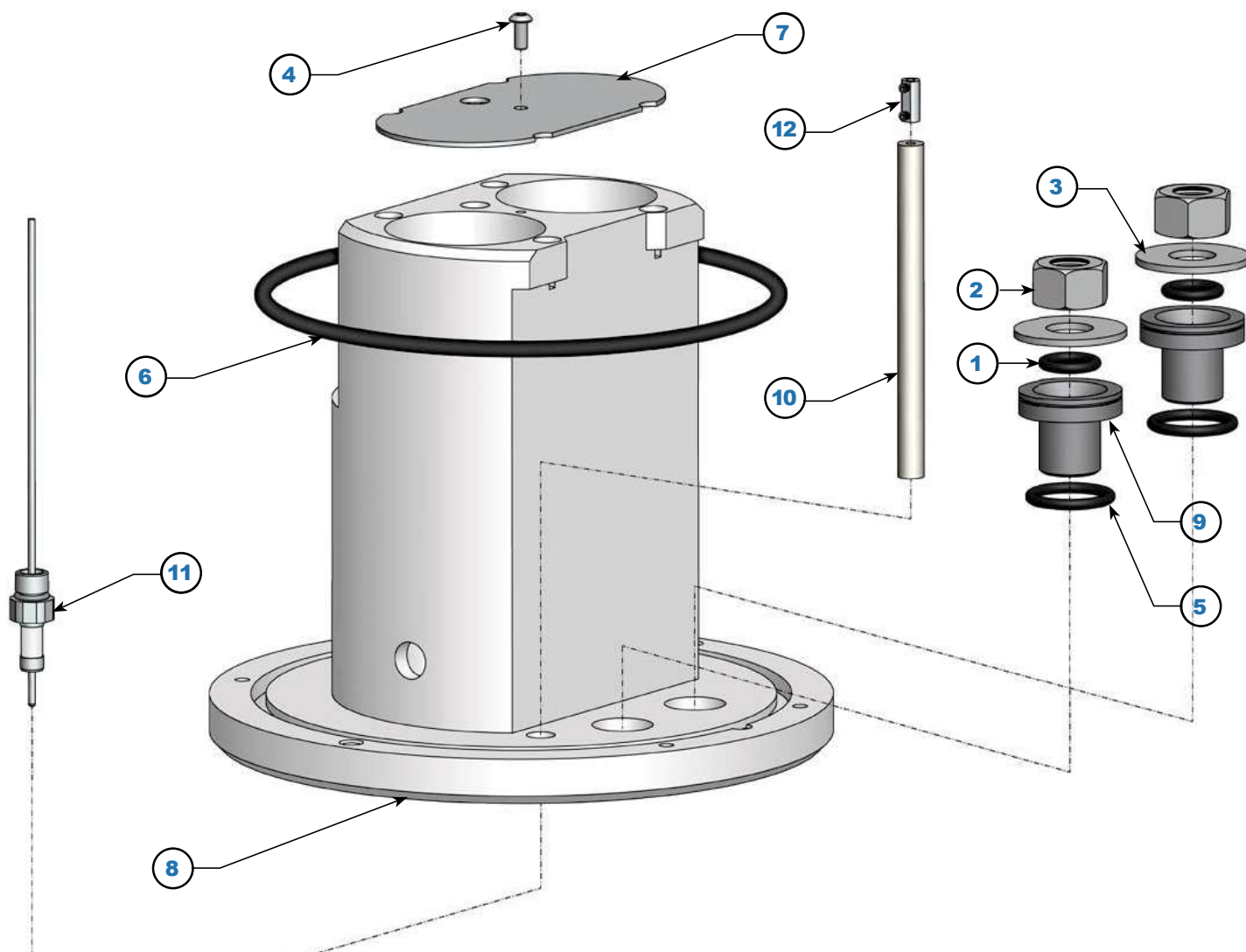


Item	P/N	Description	OEMs	Qty
1	82420	SHCS, 6-32 X 5/8", SST	4400061	4
2	82439	SHCS, 10-32 X 3/8", SST	4400001	2
3	82469	#6 Washer, .032TH, 5/16 ID, 1/4 OD, 18-8 SST	8462-0043-0001	4
4	82474	#8 Flat Washer, Standard, 18-8 SST	8462-0004-0807	4
5	82604	#6 Lock Washer, Internal Tooth	4400059	1
6	82606	#6 Regular Spring Washer, 18-8 SST	4400034	4
7	82608	#10 Lock Washer, Regular Spring	8465-0002-0102	2
8	82625	BHSS, Button Head Socket Screw, 6-32 X 1/4", SST	44K00002	1
9	82630	BHSS, Button Head Socket Screw, 8-32 X 1/4", SST	4400735	4
10	99407	Filament Clamp	17287880	2
11	99407A	Filament Clamp Assembly	No OEM Reference	
12	99407A-2	Screw, Fillister Head, Slotted, 6-32 X 1/4	No OEM Reference	
13	99414	Filament Feed Strap	17133300	2
14	99428	Cathode Wire	17156990	1

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

Non-Vaporizer Source Body Components

View 3

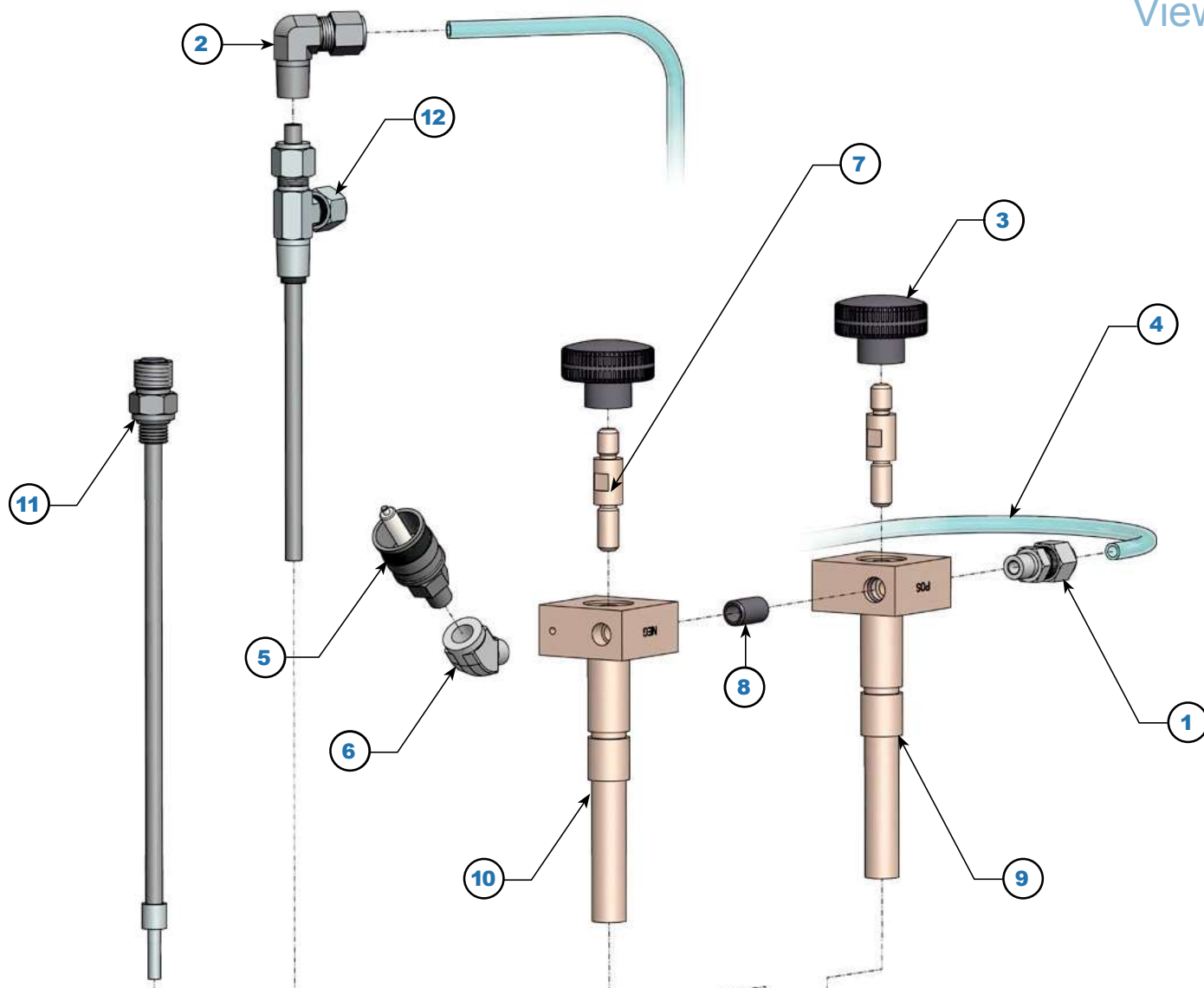


Item	P/N	Description	OEMs	Qty
1	82207V	O-Ring, -208, Buna-N	No OEM Reference	2
2	82337	Nut, Hex, 5/8-11, SST	5053-0027-0632	2
3	82491	Washer, Filament Feed-Thru	1700250	2
4	82631	BHSS, Button Head Socket Screw, 8-32 X 3/8", SST	4400183	1
5	83114	O-Ring, -214, Buna-N	No OEM Reference	2
6	83264	O-Ring, 364, Buna-N	3500028	1
7	99252	Vaporizer Exit Shield	No OEM Reference	1
8	99277	Source Body	17174120	1
9	99324A	Feed-Thru Insulator, Long	17127830	2
10	99422	Insulator, Cathode Feed Thru	17147310	1
11	99426	Feed-Thru Cathode	1910710	1
12	99445	Connector, Feed-Thru / Cathode	5101979	1

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

Non-Vaporizer Source Body Components

View 4

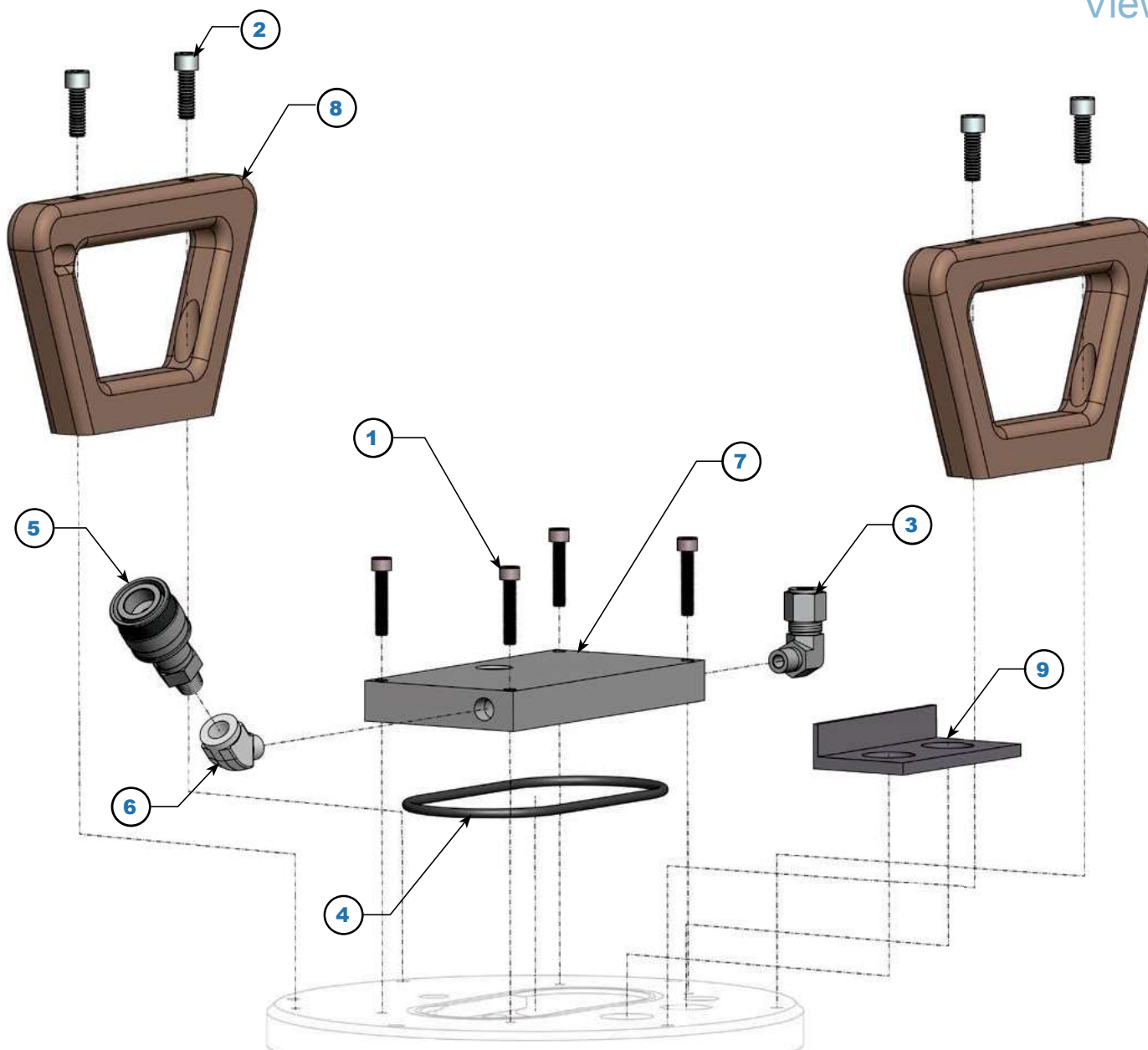


Item	P/N	Description	OEMs	Qty
1	82527	Fitting, Connector, 1/4", 1/8" Male NPT, SST	3400064	1
2	82535A	Fitting, Union Elbow, 1/4" W/O Nut, SST	No OEM Reference	1
3	82708	Knob, Plastic Fluted Hand Knob	4000861	2
4	82751	Tube, 1/4"OD X .040 Wall, LDPE	7500007	13.5"
5	83701	Fitting, QC Series Instrumentation Quick Connect Stem, Key 1	No OEM Reference	1
6	8A130	Street Elbow, 45° 1/8 NPTF X 1/8 NPTM, SST	3401279	1
7	99120	Threaded Stud	1700220	2
8	99327	Feed-Thru Connector	17033010	1
9	99329	Positive Feed-Thru	17033021	1
10	99330	Negative Feed-Thru	17033020	1
11	99333	Gas Feed Tube Assembly	17032980	1
12	99335	Cooling Tube Assembly	1200850	1

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

Non-Vaporizer Source Body Components

View 5



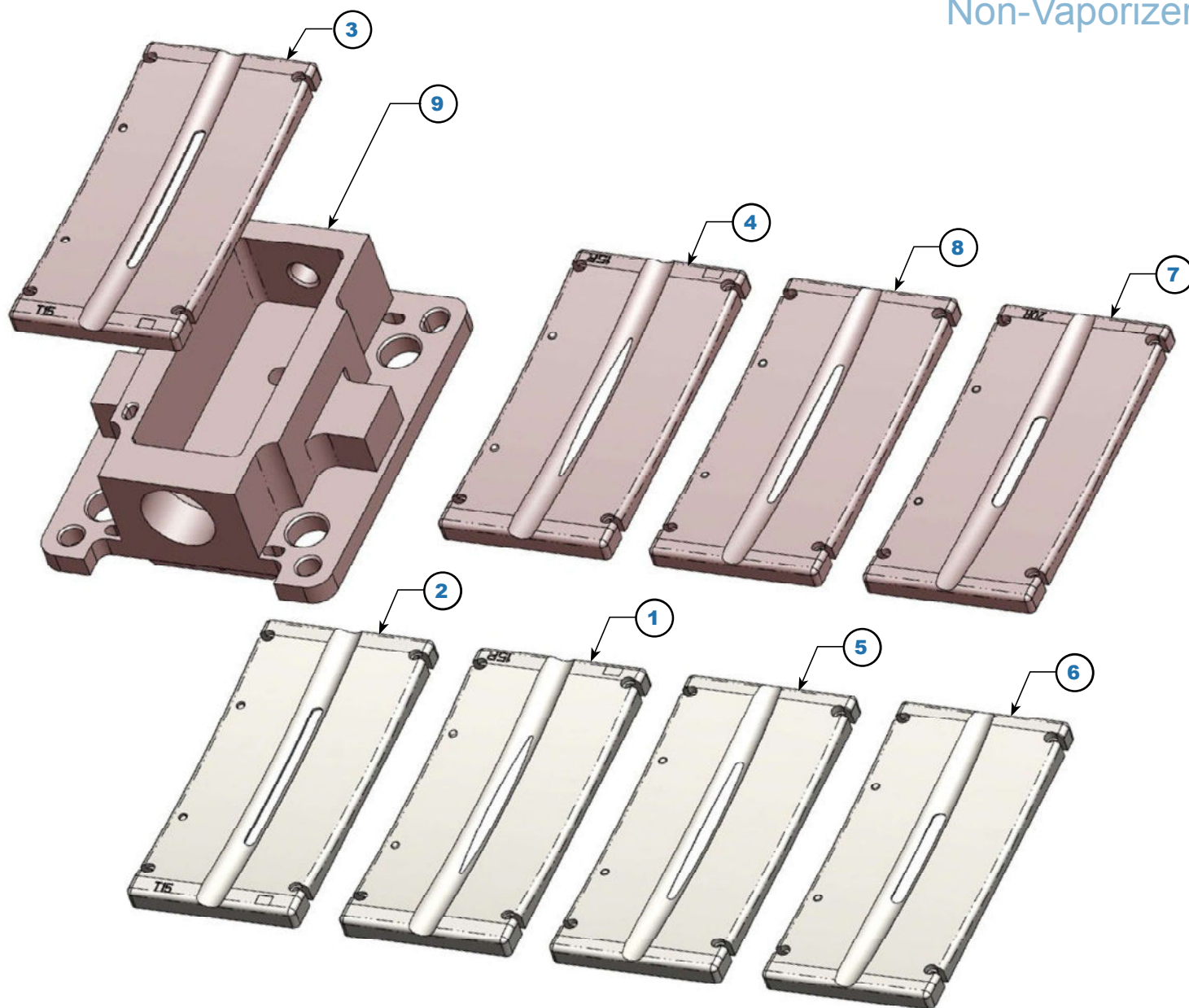
Item	P/N	Description	OEMs	Qty
1	82442	SHCS, Socket Head Cap Screw, 10-32 X 1, SST	4400022	4
2	82445	SHCS, Socket Head Cap Screw, 1/4-20 X 3/4, SST	44K00014, 4400017	4
3	82528	Fitting, Male Elbow, 1/4" TUBE, 1/8 NPT	3400501	1
4	83141V	O-Ring, -241, Viton®	3500344	1
5	83703	Fitting, QC Series Instrumentation Quick Connect Stem, Key 3	No OEM Reference	1
6	8A130	Street Elbow, 45° 1/8 NPTF X 1/8 NPTM, SST	3401279	1
7	99251	Vaporizer Blank-Off Plate	No OEM Reference	1
8	99326A	Source Handle	17270740, 17036660	2
9	99418	Insulator	17127840	1

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



Source Body Arc Chamber/Face Plates

Non-Vaporizer

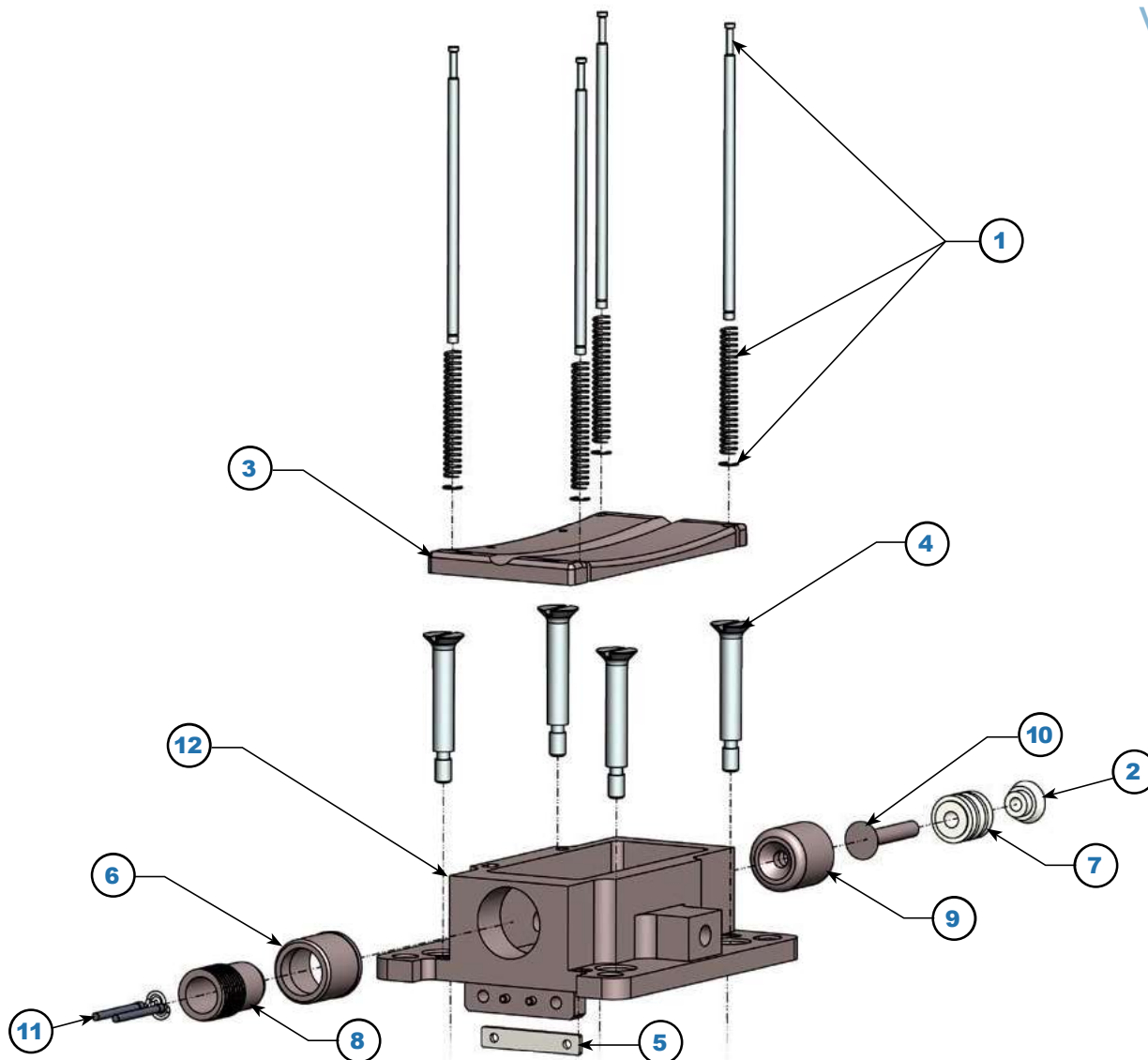


Item	P/N	Description	OEMs
1	99290	GSD Face Plate, 15R, Molybdenum	17128110
2	99290T15	GSD Face Plate, Molybdenum	17230100
3	99290T15W	GSD Face Plate, Tungsten	17230090
4	99290W	GSD Face Plate, 15R, Tungsten	17129020
5	99402	GSD Face Plate, 20R, Molybdenum	17155580
6	99402C	GSD Face Plate 20R Molybdenum	17165580
7	99402CW	GSD Face Plate 20R, Tungsten	17165580
8	99402W	GSD Face Plate, 20R, Tungsten	17155580
9	99589	GSD ELS AC, .313 Repeller Hole, No Vaporizer Ports, No Liner Pocket, Tungsten	17133310

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

Vaporizer Source Body Components

View 1



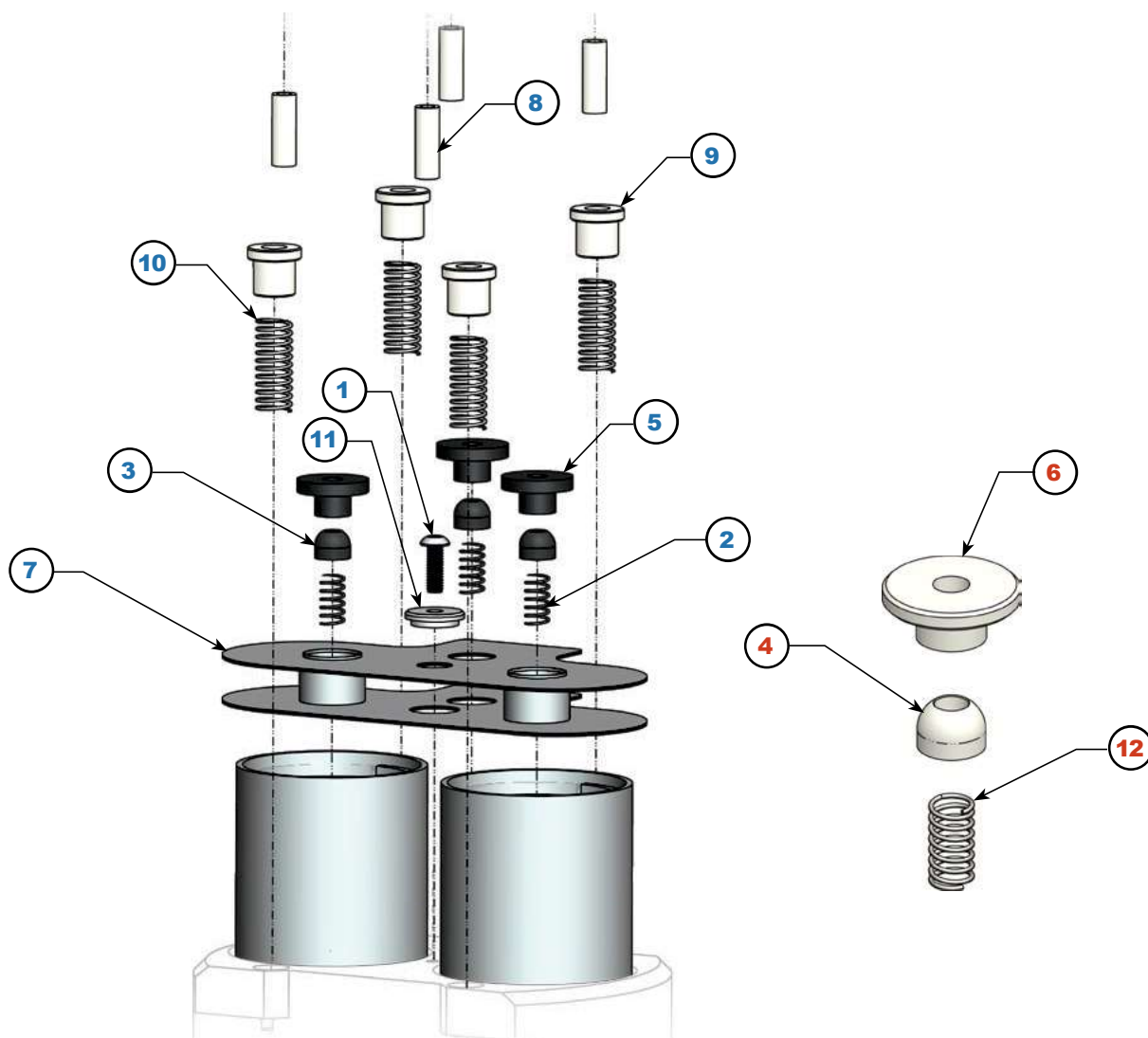
Item	P/N	Description	OEMs	Qty
1	99014	Retainer Pin Assembly	17036440	4
2	99022	Filament Insulator, Ceramic	1708680	1
3	99290T15W	Face Plate, T15, Tungsten	17230090	1
4	99338	Arc Chamber Mounting Screw	17127640	4
5	99404A	Screw Retainer, No Slots	17189140	1
6	99409W	Cathode Repeller, Fully Dense/Pure Tungsten	17133340	1
7	99412A	Repeller Insulator	17170590	1
8	99413A	Cathode, Arc Wire, Tungsten With 4.6mm Tungsten Button	17158000	1
9	99429	Repeller, Tungsten	17170600	1
10	99430	Repeller Screw	17170610	1
11	99477A	GSD ELS Filament, .040	17287850	1
12	99595	Arc Chamber, ELS, With Vaporizer Ports, No Liner Pocket, Tungsten	17133310	1

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



Vaporizer Source Body Components

View 2

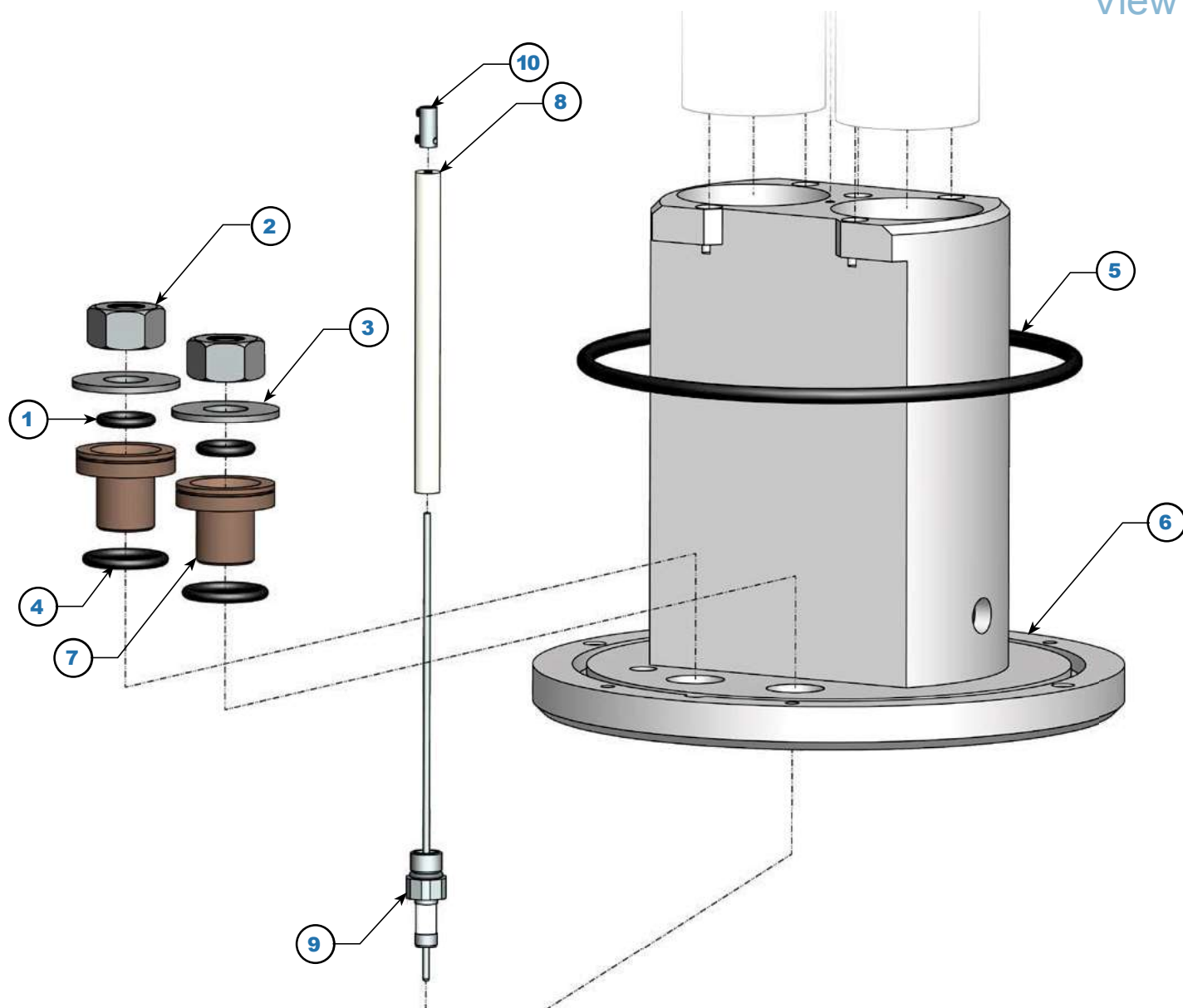


Item	P/N	Description	OEMs	Qty
1	82633	BHSS, 8-32 X 1/2" Long, 18-8, SST	4400042	1
2	99172A	Compression Spring, Inconel	17033140	3
3	99176	Ball Joint, Graphite	17021591	3
4	99176C	Ball Joint, Alumina	17287690	
5	99177	SKT Joint	17033150	3
6	99177C	SKT Joint, Alumina	No OEM Reference	
7	99183B	Heat Shield Assembly	17142660	1
8	99285A	Ceramic Spacer	17124410	4
9	99292	Shoulder Screw Spacer	17128230	4
10	99293	Shoulder Screw Spring	4001166	4
11	99331	Retainer Washer, Vaporizer Heat Shield	17033100	1
12	99664A	Compression Spring, GSD, Long Life Gas Feed	17270640	

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

Vaporizer Source Body Components

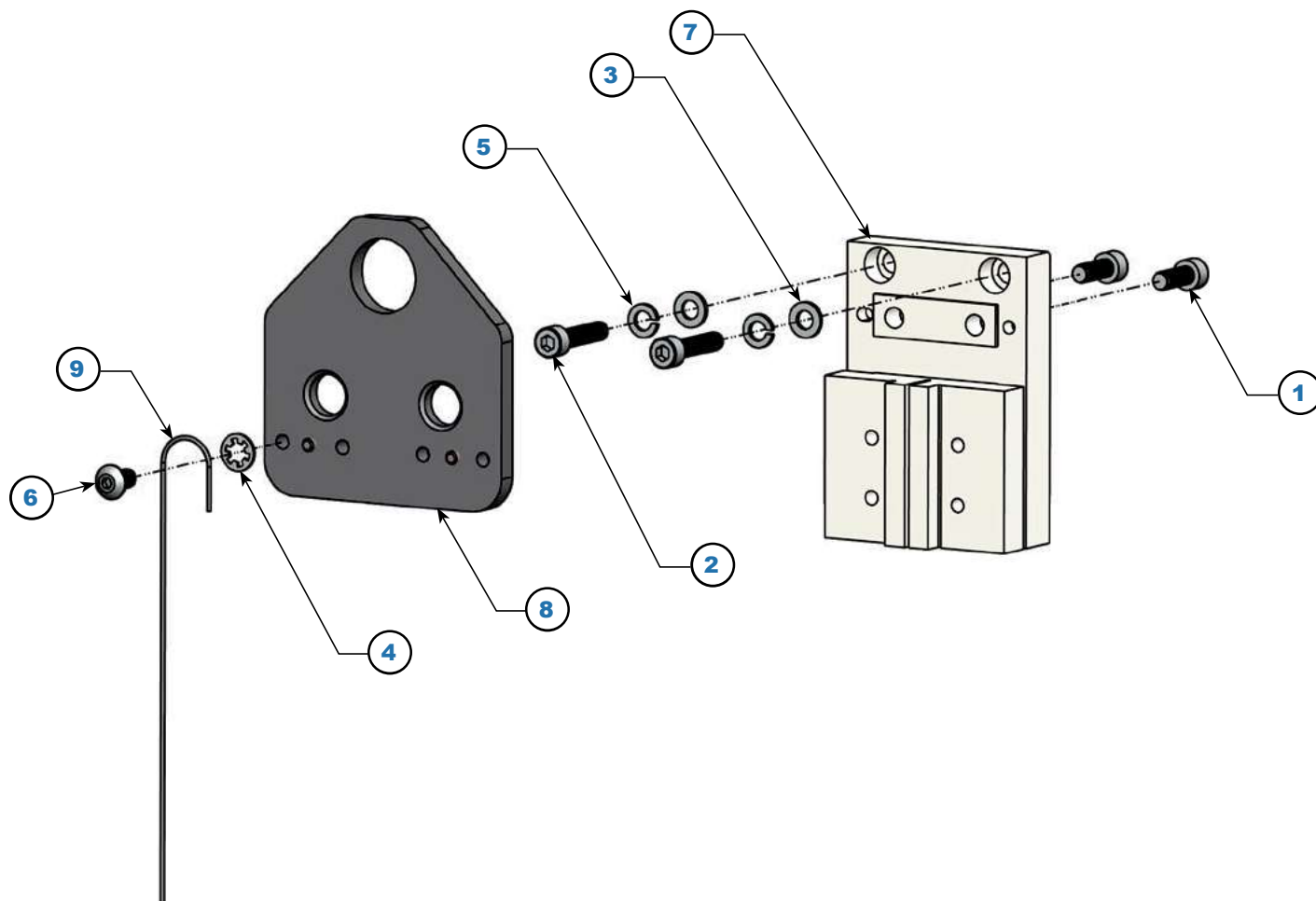
View 3



Item	P/N	Description	OEMs	Qty
1	82207V	O-Ring, -208, Viton®	No OEM Reference	2
2	82337	Nut, Hex, 5/8-11, SST	4400006	2
3	82491	Washer, Filament Feed-Thru	1700250	2
4	83114	O-Ring, -214, Buna-N	No OEM Reference	2
5	83264	O-Ring, -364, Buna-N	3500028	1
6	99277	Source Body With Vaporizer Ports	17174120	1
7	99324A	Feed-Thru Insulator, Long	17127830	2
8	99422	Insulator, Cathode Feed Thru	17147310	1
9	99426	Feed-Thru Cathode	1910710	1
10	99445	Connector, Feed-Thru / Cathode	5101979	1

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

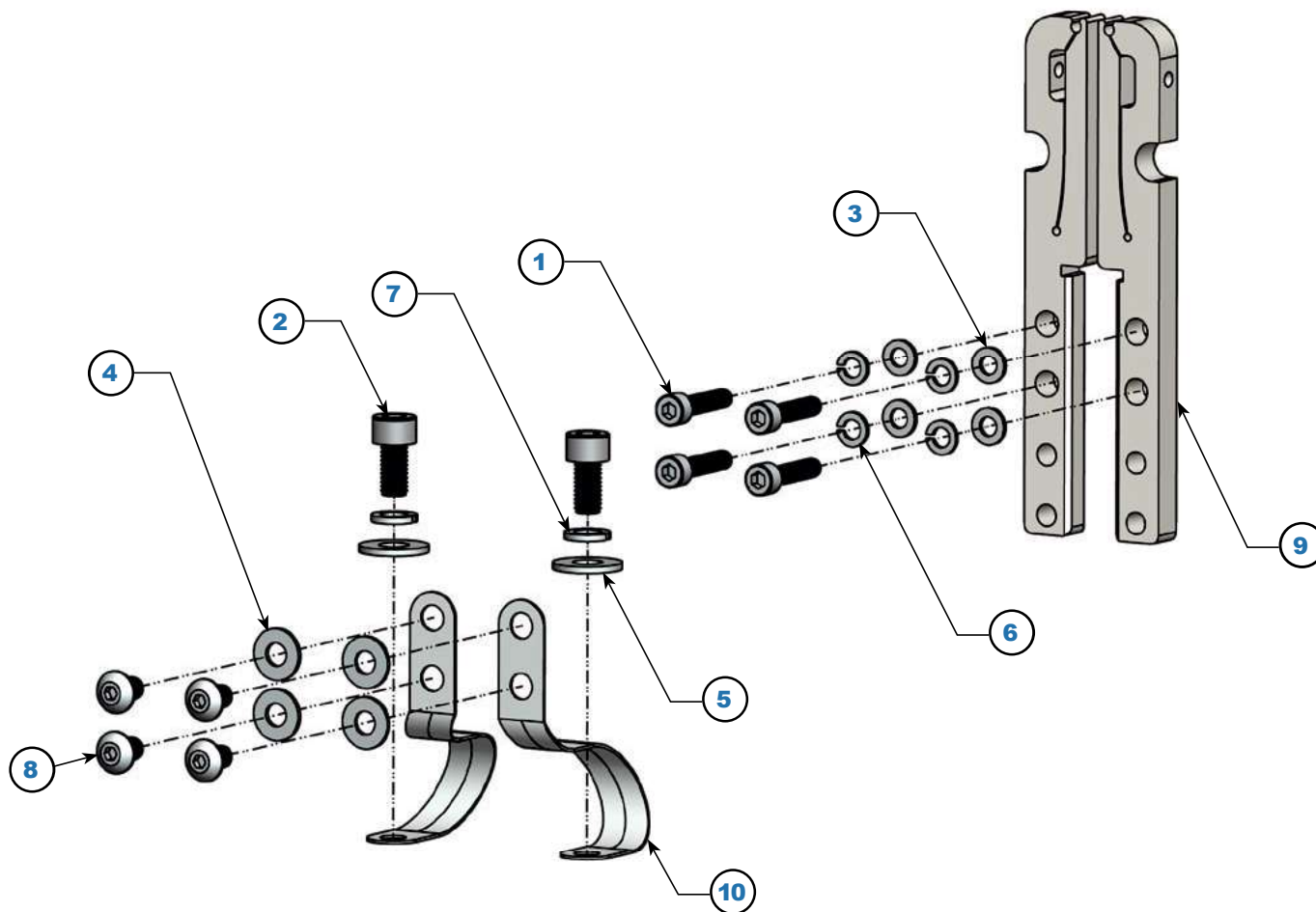
View 4



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

Vaporizer Source Body Components

View 5



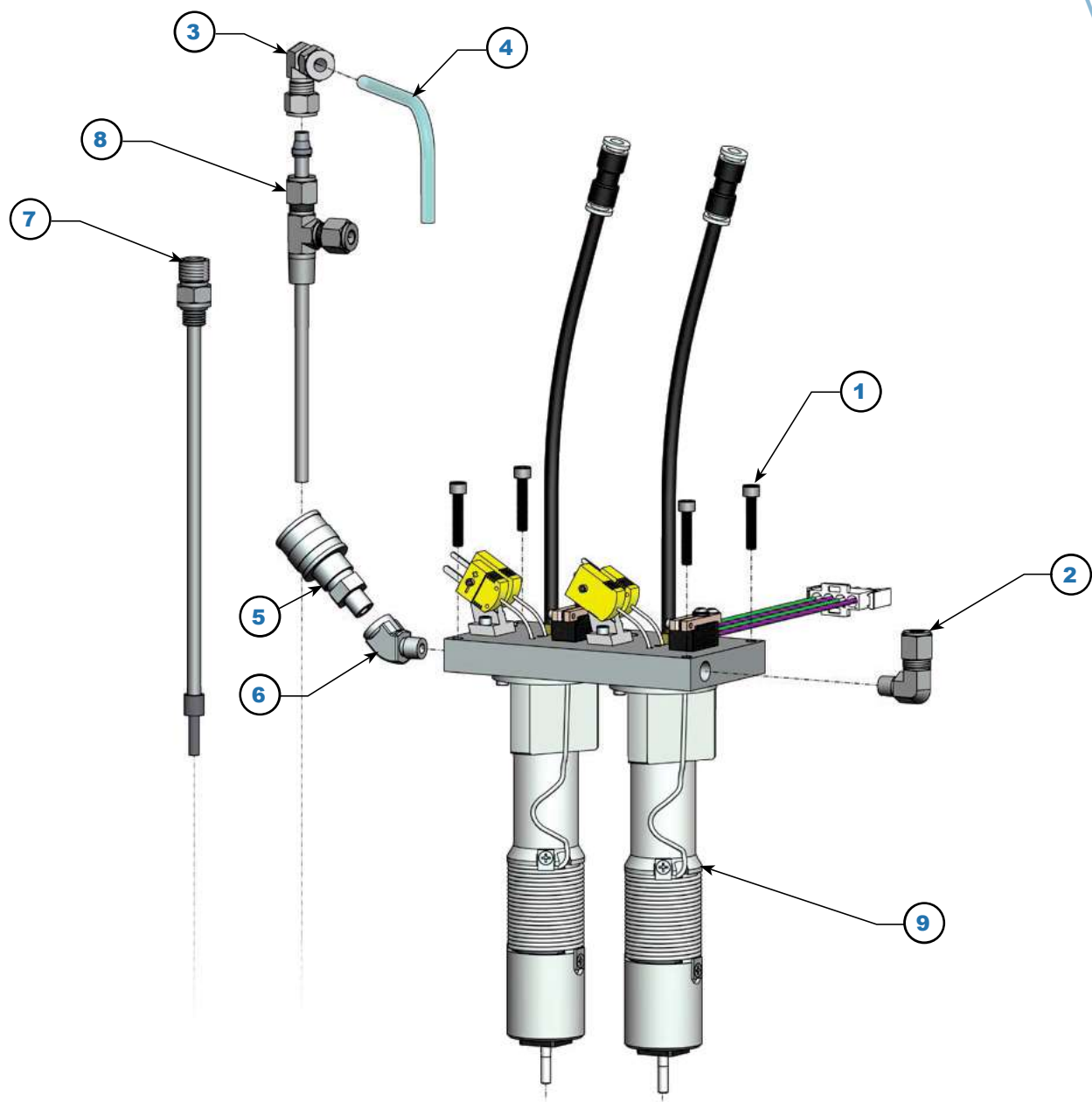
Item	P/N	Description	OEMs	Qty
1	82420	SHCS, 6-32 X 5/8", SST	4400061	4
2	82439	SHCS, 10-32 X 3/8", SST	4400001	2
3	82469	#6 Washer, .032TH, 5/16 ID, 1/4 OD, 18-8 SST	4400232	4
4	82474	#8 Flat Washer, Standard, 18-8 SST	4400498	4
5	82478	#10 Washer, Standard 18-8 SST	4400007	2
6	82606	#6 Regular Spring Washer, 18-8 SST	4400034	6
7	82608	#10 Lock Washer, Regular Spring	4400041	2
8	82630	BHSS, Button Head Socket Screw, 8-32 X 1/4", SST	4400735	4
9	99407	Filament Clamp	17287880	2
10	99414	Filament Feed Strap	17133300	2

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



Vaporizer Source Body Components

View 6

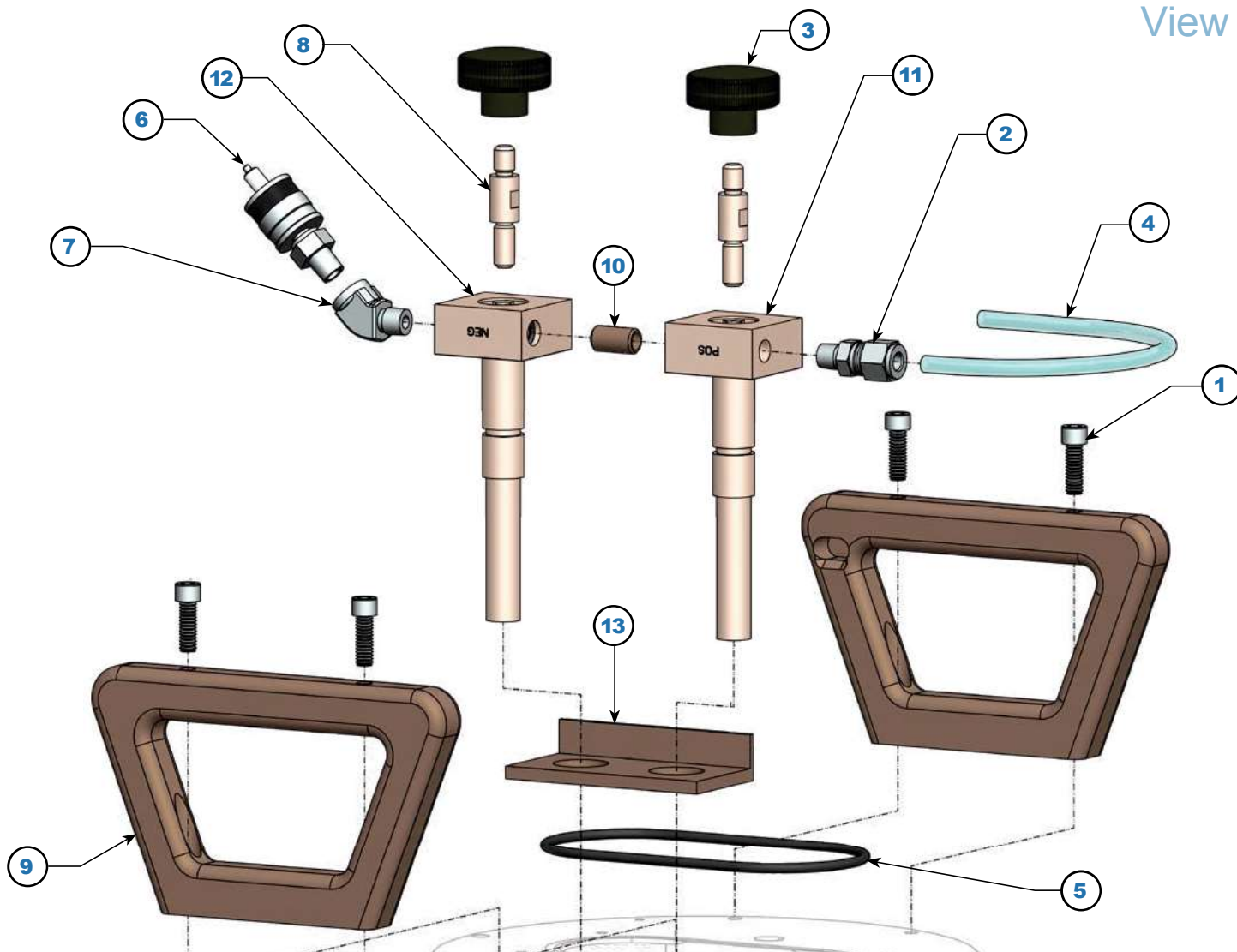


Item	P/N	Description	OEMs	Qty
1	82442	SHCS, 10-32 X 1, SST	4400022	4
2	82528	Fitting, Male Elbow, 1/4" TUBE, 1/8 NPT, 316 SST	3400501	1
3	82535	Fitting, Union Elbow, 1/4", 316 SST	3400062	1
4	82751	Tube, 1/4"OD X .040 Wall, LDPE	7500007	13.5"
5	83702	Fitting, QC Series Instrumentation Quick Connect Stem, Key 2	No OEM Reference	1
6	8A130	Street Elbow, 45° 1/8 NPTF X 1/8 NPTM, SST	3401279	1
7	99333	Gas Feed Tube Assembly	17032980	1
8	99335	Cooling Tube Assembly	1200850	1
9	99551	Dual Vaporizer Assembly, 1-1/8" Nozzle Thread	17033330	1

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

Vaporizer Source Body Components

View 7



Item	P/N	Description	OEMs	Qty
1	82445	SHCS, Socket Head Cap Screw, 1/4-20 X 3/4, SST	44K00014, 4400017	4
2	82527	Fitting, Connector, 1/4", 1/8" Male NPT, 316 SST	3400064	1
3	82708	Knob, Plastic Fluted Hand Knob	4000861	2
4	82751	Tube, 1/4"OD X .040 Wall, LDPE	7500007	13.5"
5	83141V	O-Ring, -241, Viton®	3500344	1
6	83701	Fitting, QC Series Instrumentation Quick Connect Stem, Key 1	No OEM Reference	1
7	8A130	Street Elbow, 45° 1/8 NPTF X 1/8 NPTM, SST	3401279	1
8	99120	Threaded Stud	1700220	2
9	99326A	Source Handle	17270740, 17036660	2
10	99327	Feed-Thru Connector	17033010	1
11	99329	Positive Feed-Thru	17033021	1
12	99330	Negative Feed-Thru	17033020	1
13	99418	Insulator	17127840	1

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

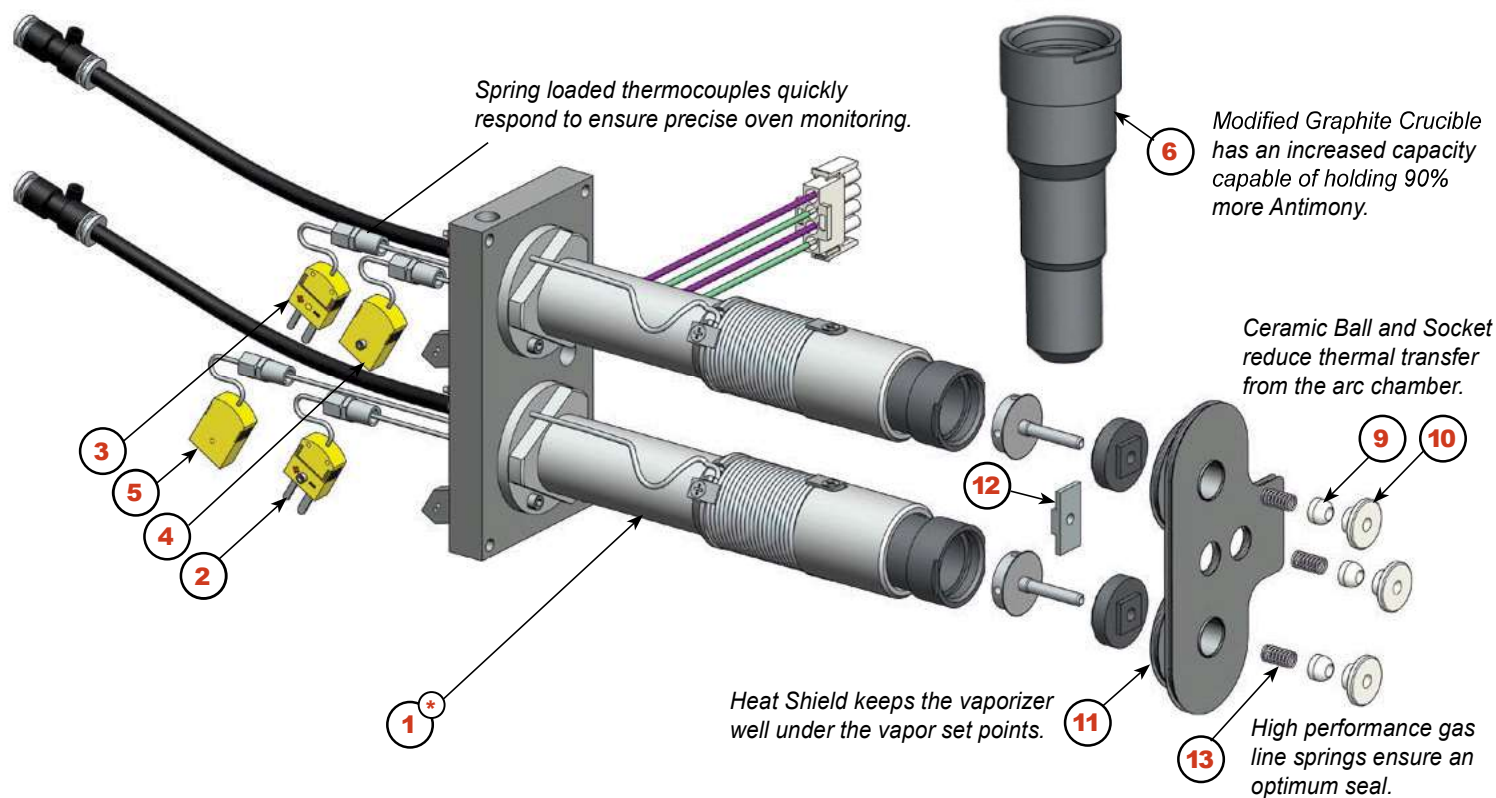


Dual Vaporizer Option

99551ASB

Production test results verified a 70% increase in Antimony source hours can be achieved by using the Glemco 99551ASB vaporizer, modified heat shield, ceramic gas line ball and socket, and extended life gas line springs.

Contact us at sales@glemco.com for more details.



* Items 83827, 83827A, 83828, 83828A, 99145B, 99146C, 99147A are included in the 99551ASB assembly.

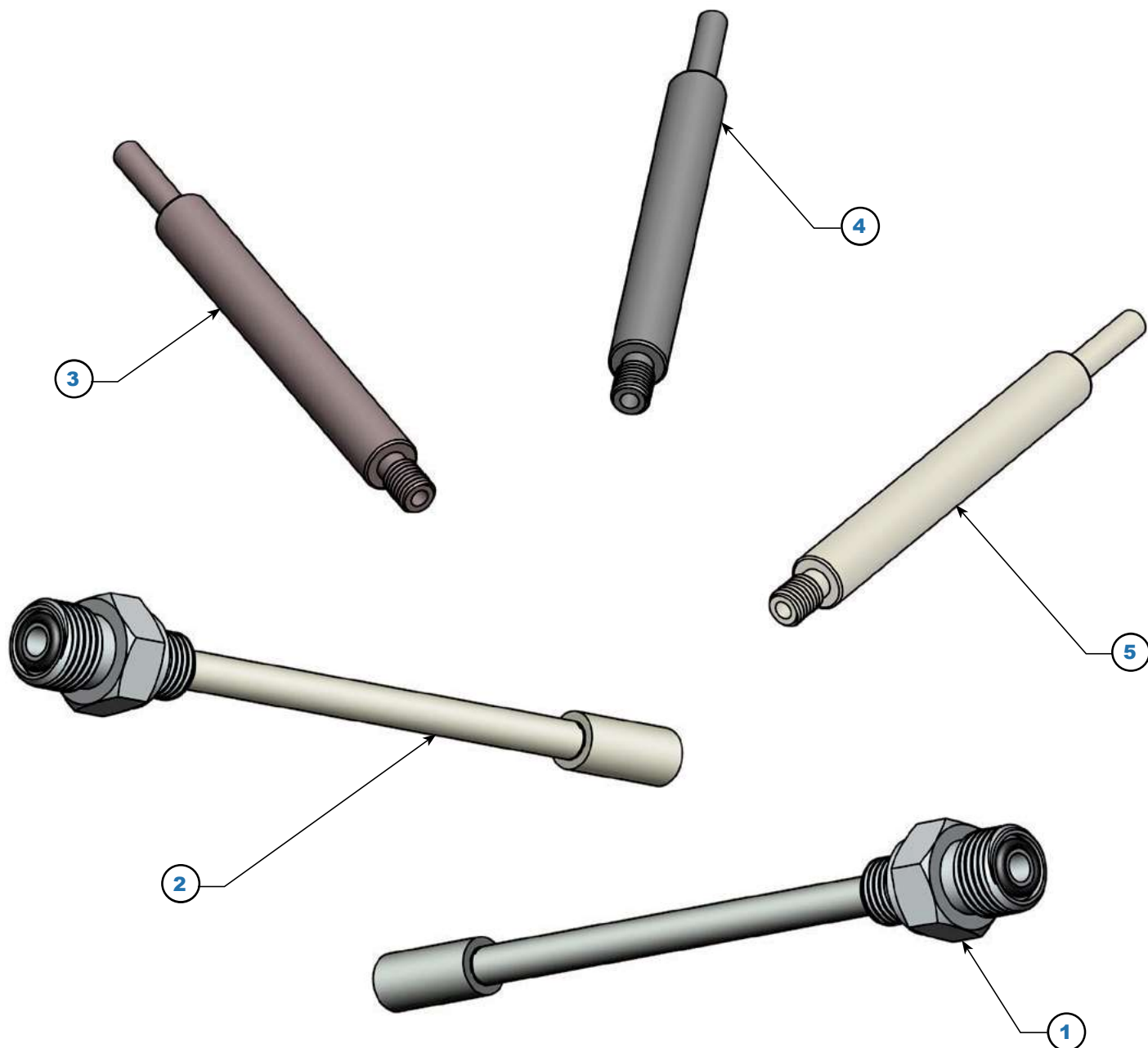
Item	P/N	Description	Qty
1*	99551ASB	Dual Vaporizer, Antimony, Custom, Increased Capacity	1
2	83827	Vaporizer Thermocouple, Male	1
3	83827A	Vaporizer Thermocouple, Male, Short	1
4	83828	Vaporizer Thermocouple, Female	1
5	83828A	Vaporizer Thermocouple, Female, Short	1
6	99145B	Vaporizer Crucible, Custom Increased Capacity, Graphite	2
7	99146C	Quad Port Vaporizer Nozzle, SB	2
8	99147A	Vaporizer Top, Graphite	2
9	99176C	Ball Joint, Alumina	3
10	99177C	SKT Joint, Alumina	3
11	99183DG	Vaporizer Heat Shield With Thermal Barrier	1
12	99554A	Heat Shield Retainer	1
13	99664A	Compression Spring, Gas Feed, GSD, Long Life, Tungsten	3

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



Gas Feed Tube and Nozzle Options

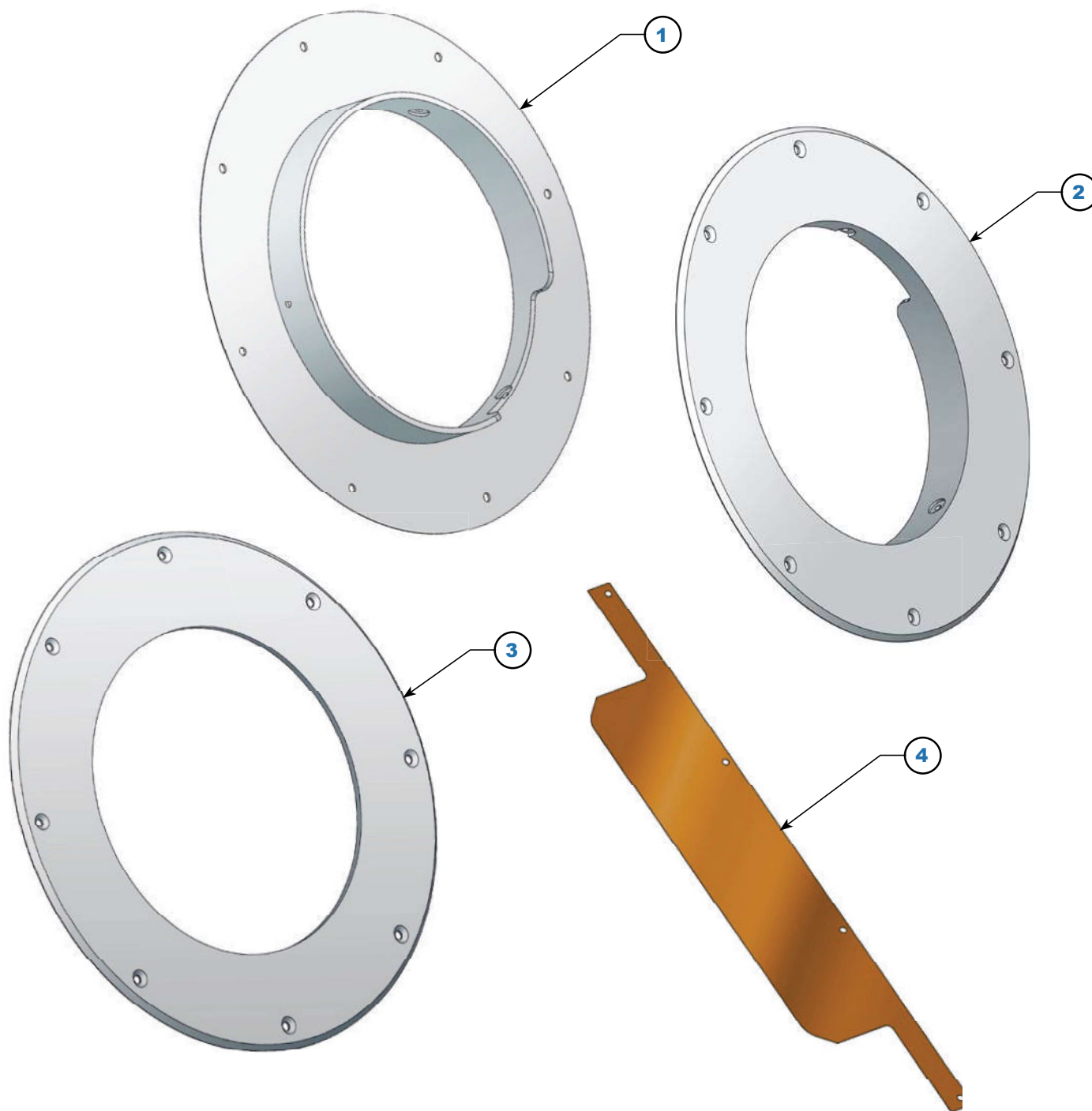
Used in place of OEM P/N 17032980 - Glemco P/N 99333



Item	P/N	Description	OEMs
1	99333A-S1	Gas Feed Tube Assembly, Stainless Body, Stainless Fitting	No OEM Reference
2	99333AM-S1	Gas Feed Tube Assembly, Molybdenum Body, Stainless Fitting	No OEM Reference
3	99334A	Gas Feed Nozzle, Tungsten	No OEM Reference
4	99334AG	Gas Feed Nozzle, Graphite	No OEM Reference
5	99334AM	Gas Feed Nozzle, Molybdenum	No OEM Reference

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

V3 Bellows Liner Components



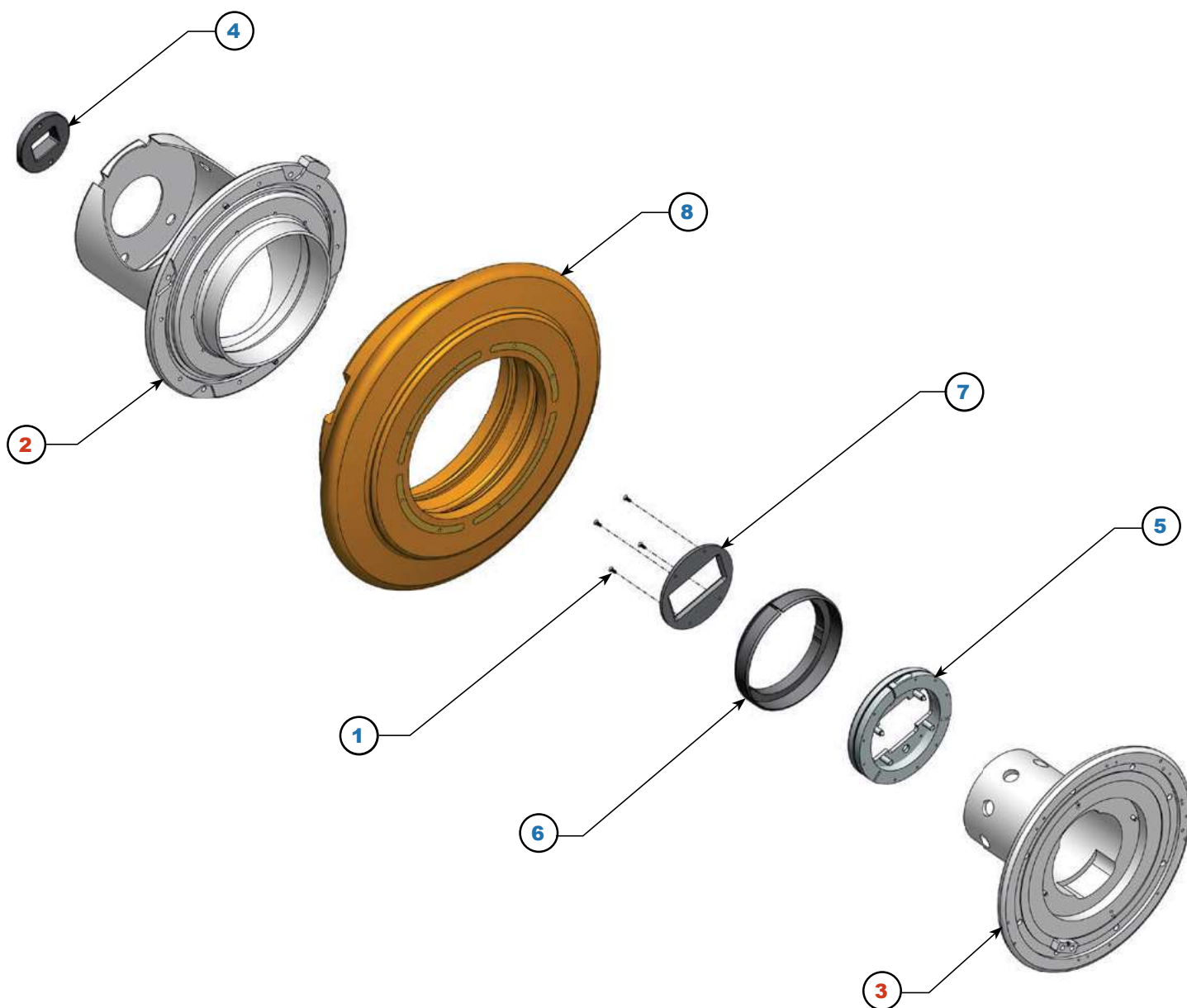
Item	P/N	Description	OEMs
1	8B339	1/8 Mounted Snap Lock, Nylon®	No OEM Reference
2	99903A	V3 Bellows Liner Flange, Custom, Aluminum	170103830
3	99903B	V3 Bellow Valve Door Interface, Aluminum	170103830
4	99904	V3 Bellows Liner, Kapton®	170103830

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



Water Cooled Source and Liner Flange Upgrades

99280A/99196 Floating Clamp Ring Setup



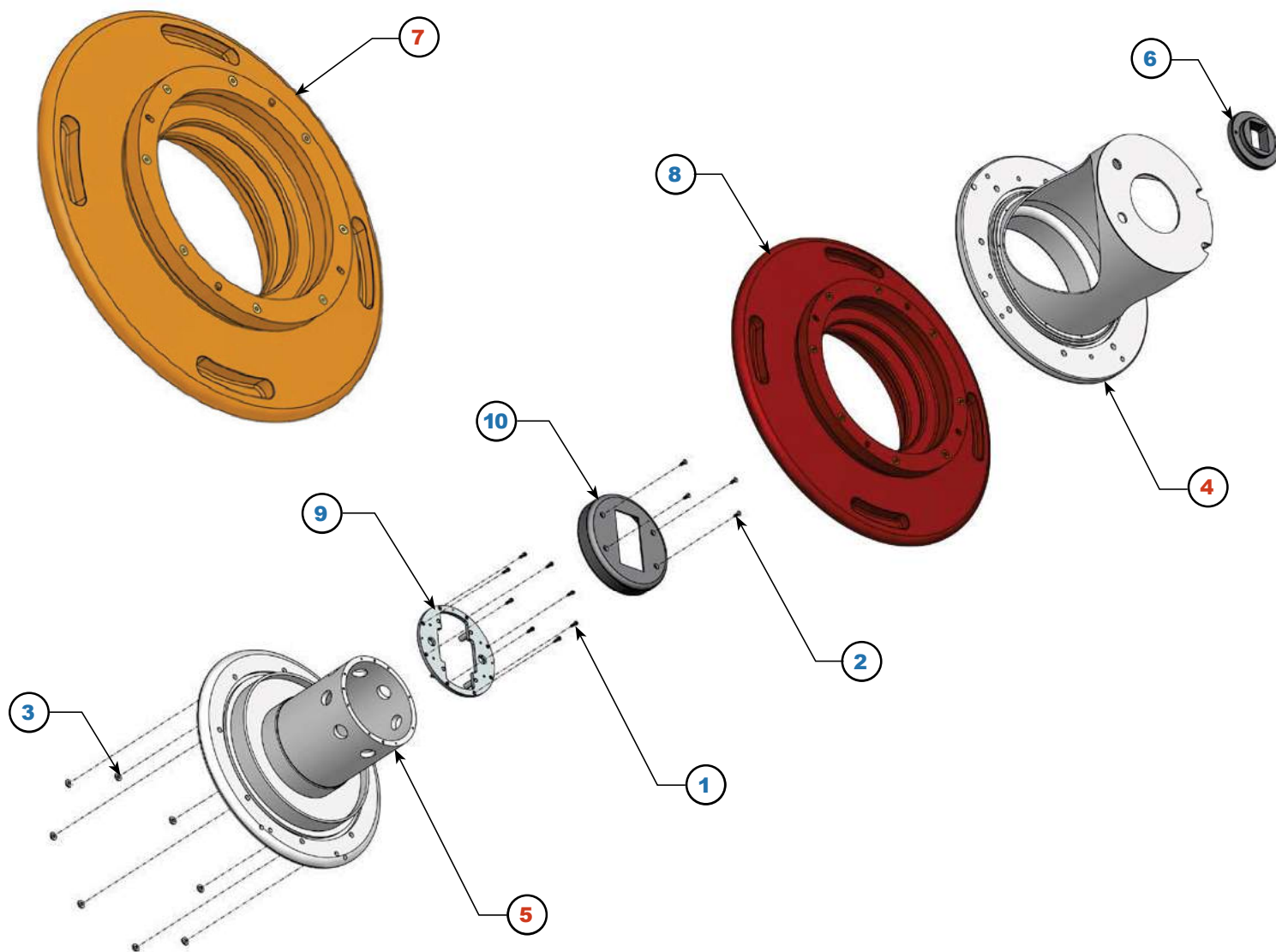
Item	P/N	Description	OEM	Qty
1	8B330	FHSS, Slotted, 8-32 X 7/16, SST	No OEM Reference	4
2	99196	Source Liner Flange, Water Cooled, Modified	11026870MOD	1
3	99280A	Source Flange, Water Cooled, Modified	17263590MOD	1
4	99453A	Beam Defining Aperture	17208240	1
5	99462	Source Collar	1190320	1
6	99463	Source Clamp Ring, Graphite	17128740	1
7	99548	Source Shield, Graphite	17139160, 17128250	1
8	99636	GSD II Source Bushing, High Voltage	11022760	1

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



Non-Water Cooled Source and Liner Flange Upgrades

99280C/99196A Fixed Clamp Ring Setup

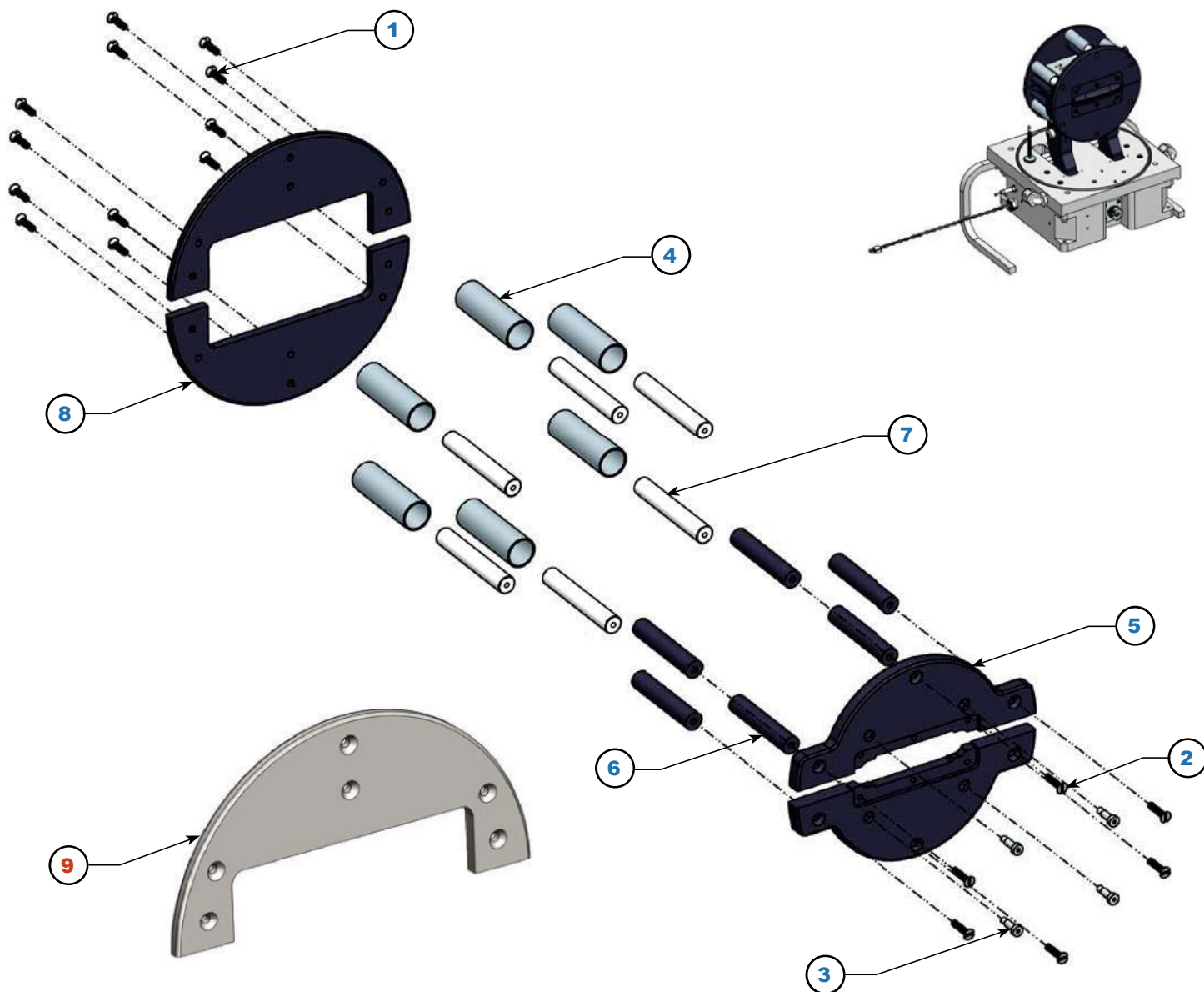


Item	P/N	Description	OEM	Qty
1	82721	VSHCS, .138 X .375, 6-32 X 3/8, SST	44K00103	8
2	8B330	FHSS, 8-32 X 7/16, (SLOTTED), SST	No OEM Reference	4
3	8B331	WASHER, FLAT, .257ID X .50OD, SST	No OEM Reference	8
4	99196A	Source Liner Flange, Non-Water Cooled, Modified	11051680MOD	1
5	99280C	Source Flange, Fixed Clamp Ring, Glemco Design	17263590	1
6	99453A	Beam Defining Aperture	17208240	1
7	99454A	High Voltage Insulating Source Bushing, Lead Shield	17174960	1
8	99454B	High Voltage Insulating Source Bushing, Non-Lead Shield	17322400	1
9	99462C	Source Collar, Rigid Mount Non-Floating	1190320	1
10	99548B	Source Shield, Fixed Clamp Flange, Graphite	17304460	1

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

Extraction Electrode Version 34

View 1

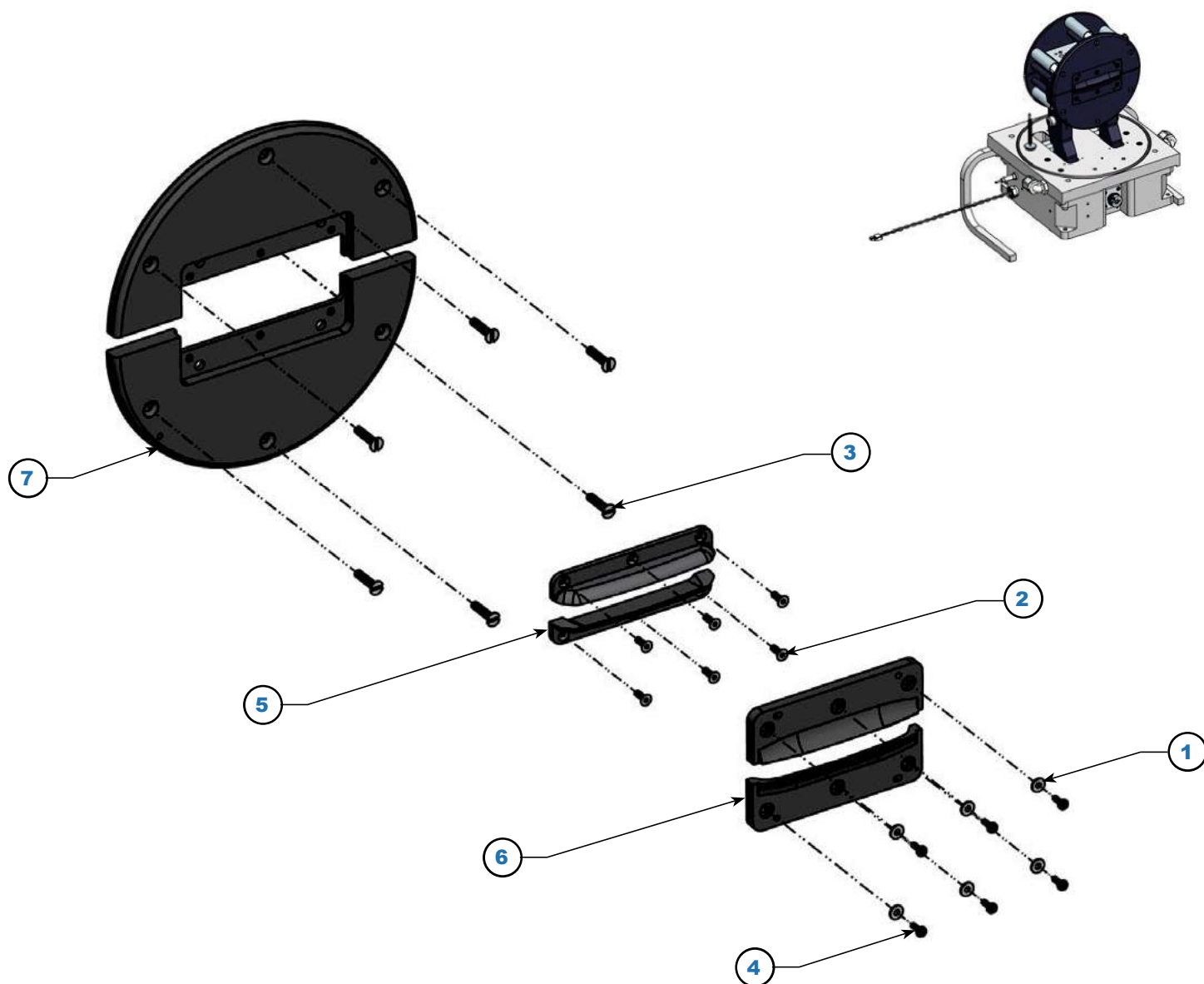


Item	P/N	Description	OEM	Qty
1	82735	8-32 X 5/8" Flat Head Cap Screw, Slotted, Vented, SST	4400619	12
2	82737	Flat Head Screw, 8-32 X 3/4", Slotted, Vented	4400659	12
3	99262-3	Shoulder Screw, Lower Extraction Electrode	1214390	4
4	99433A	Insulator Shield, Aluminum	17192400	6
5	99437A	Ground Plate, Graphite	17192420	2
6	99455	Spacer, Ground Electrode, Graphite	17192390	6
7	99456	Standoff, Ceramic	17192380	6
8	99537	End Plate, Graphite	17192430	2
9	99537M	End Plate, Modified, Molybdenum	17192430	

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

Extraction Electrode Version 34

View 2

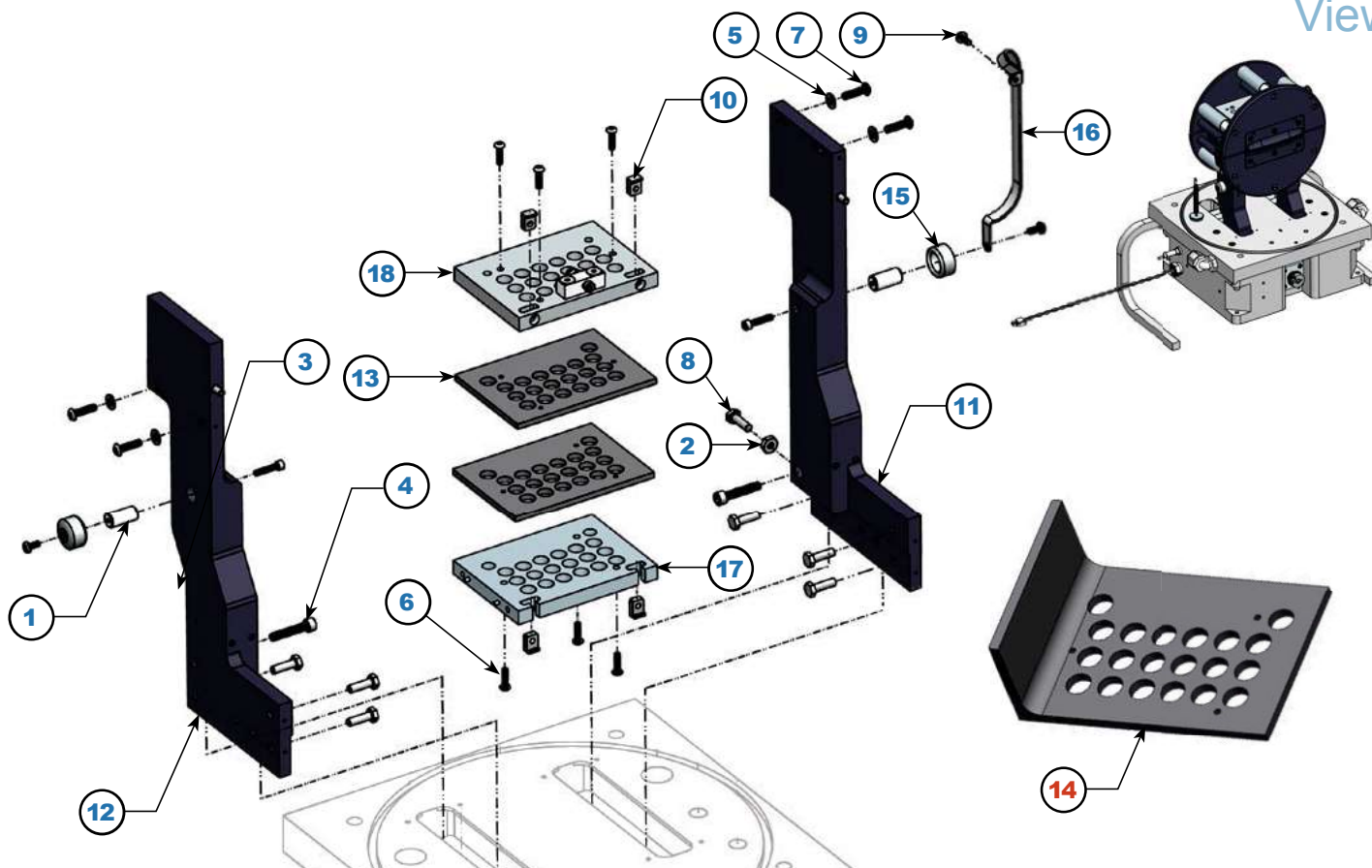


Item	P/N	Description	OEM	Qty
1	82456	Washer, No.4, .028" Thick X .125" ID X .250" OD, 300 Series, SST	4400035	6
2	82580	4-40 X 3/8", Flat Head Socket Screw, 18-8 SST	4400208	6
3	82737	Flat Head Screw, 8-32 X 3/4", Slotted, Vented	4400659	6
4	83628	4-40 X 5/16 Slotted PHCS, 18-8 SST	4400364	6
5	99238A	Ground Electrode Aperture	17132290	2
6	99432	Extraction Electrode Aperture, Graphite	17170040	2
7	99436A	Extraction Electrode, Graphite	17192410	2

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

Extraction Electrode Version 34

View 3



Item	P/N	Description	OEM	Qty
1	30680	Ceramic Standoff, 3/8" Dia X 3/4 Long	5001608	2
2	82299	Nut, 10-32 Hex, 18-8 SST	4400049	1
3	82420	SHCS 6-32 X 5/8" SST	4400061	2
4	82442	SHCS 10-32 X 1 SST	4400022	2
5	82474	Washer, #8 Flat, Standard, 18-8 SST	4400498	4
6	82629	6-32 X 1/2" Button Head Socket Screw, SST	4400431	6
7	82634	BHSS, 8-32 x 5/8, 18-8 SST	1236200810	4
8	82875	Hex Head Screw 10-32 X 5/8, 18-8 SST	No OEM Reference	7
9	8A060	6-32 X 5/16", Pan Head Phillips Screw, 18-8 SST	4400113	3
10	99186	Electrode Mounting Plate Nut	17133750	4
11	99254AV	Top Extraction Electrode Assembly Arm, VIG	17133800	1
12	99255AV	Bottom Extraction Electrode Assembly Arm, VIG	17133790	1
13	99262-5	Liner, Extraction Electrode	17122880	2
14	99262-5A	Liner, Extraction Electrode Modified	17122880 MOD	
15	99435A	Shield, Extraction Insulator	17254950	2
16	99472	Suppression Strap, Aluminum	17251090 REV A	1
17	99756	Electrode Mounting Plate, Bottom SST	17133741	1
18	99757	Top Electrode Mounting Plate With Cam Assy.	17133740	1

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

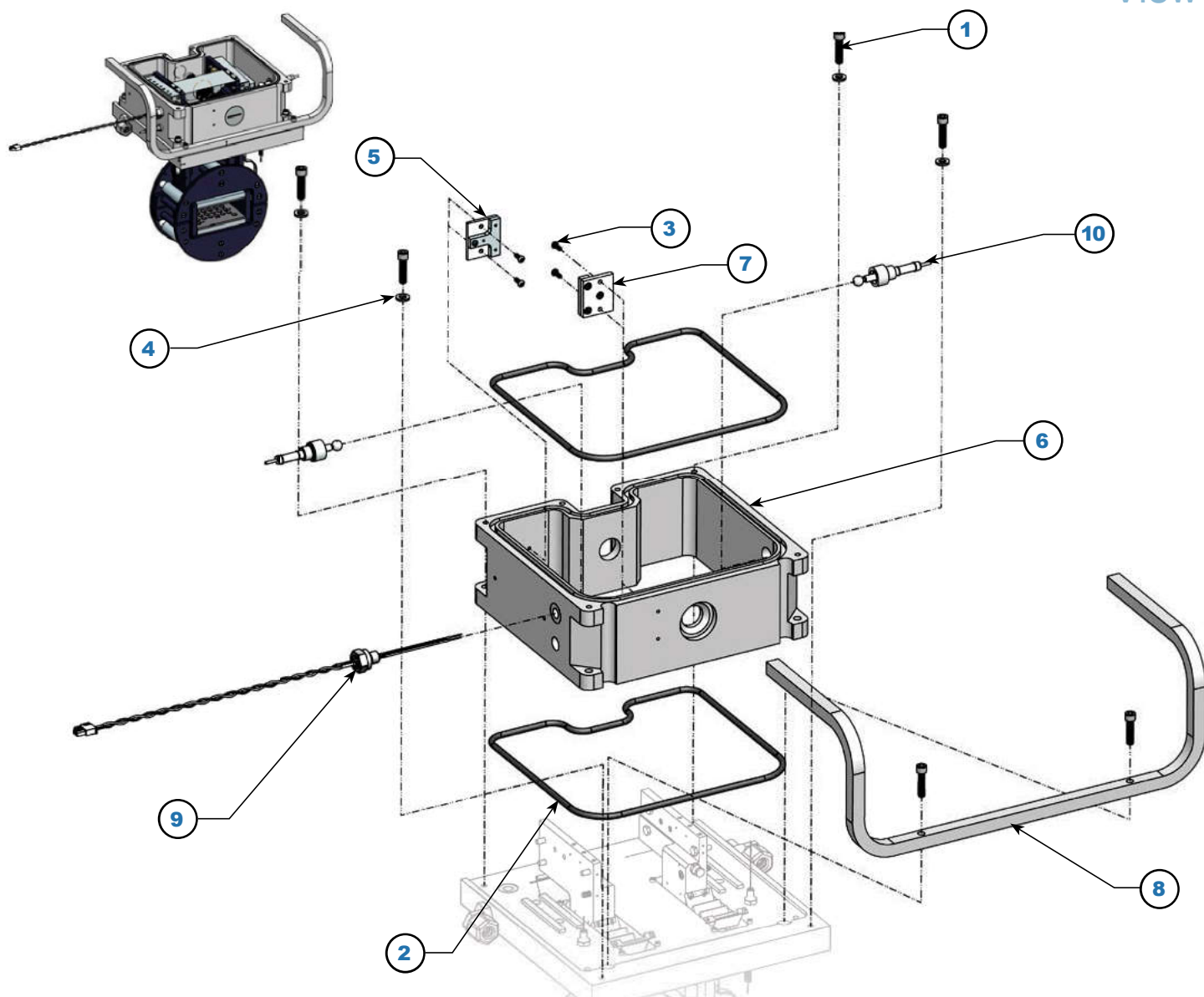
View 4



PO Box 217 Leander, TX USA 78646-0217 • 800-621-9598 • sales@glemco.com • www.glemco.com

Extraction Electrode Version 34

View 5



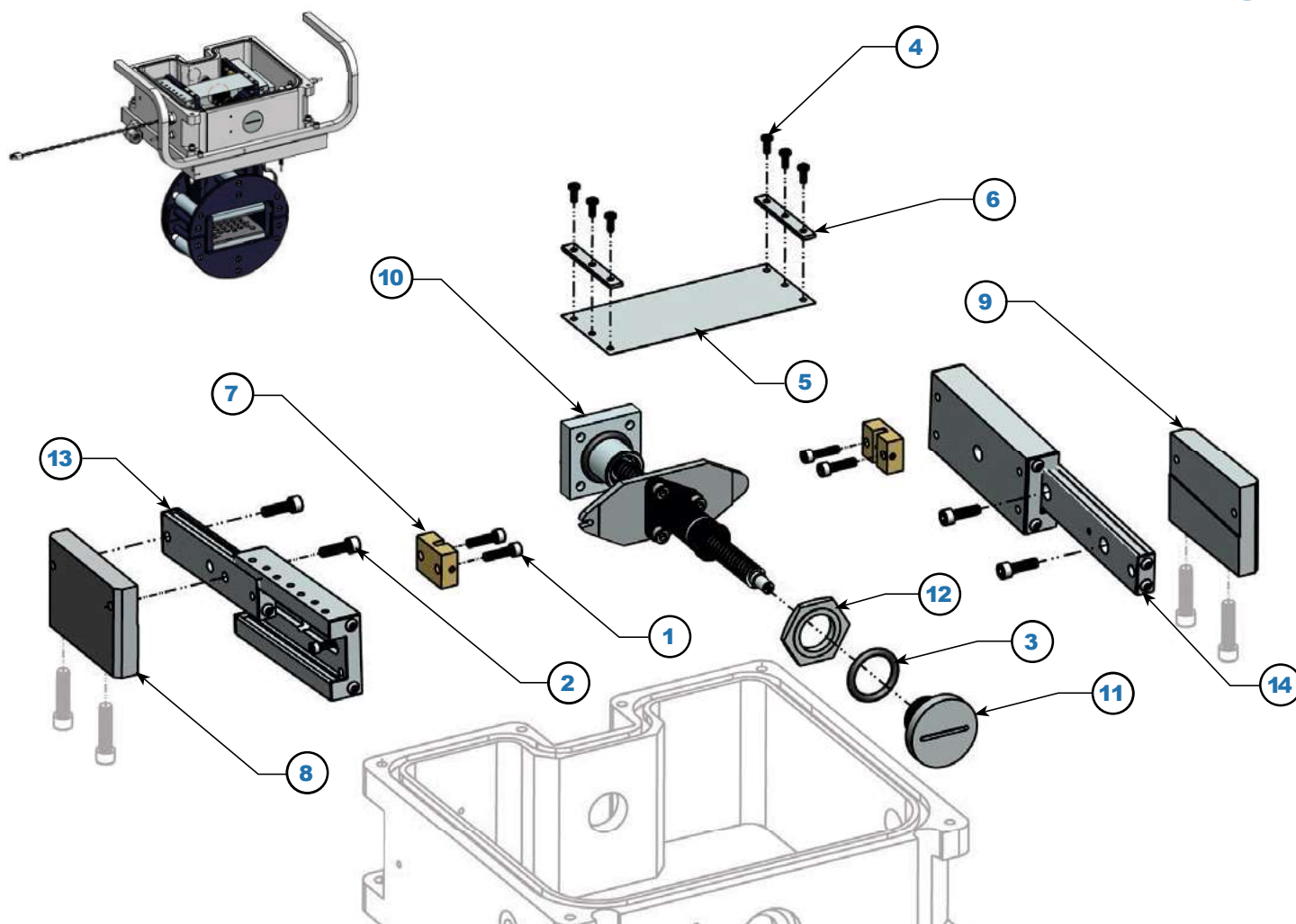
Item	P/N	Description	OEM	Qty
1	82446	SHCS, Socket Head Cap Screw, 1/4-20 X 1", SST	4500138	6
2	83277	O-Ring, - 377, Buna-N	3500263	2
3	8A257	VBHSS, Vented Button Head Socket Screw, 6-32 X 3/8", SST	No OEM Reference	4
4	8A820	Flat Washer Ø.275 ID, Ø.50 OD, X.06-.09	No OEM Reference	4
5	99262-19	Sensor Plate Assembly	No OEM Reference	1
6	99262-2	Extraction Electrode Housing	No OEM Reference	1
7	99262-20	Sensor Plate Assembly	No OEM Reference	1
8	99262-21	Handle, Extraction Assembly	No OEM Reference	1
9	99265	Readback Harness, Extraction Electrode	1176940	1
10	99546	Feed-Thru, 10Kv	1909860	2

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



Extraction Electrode Version 34

View 6

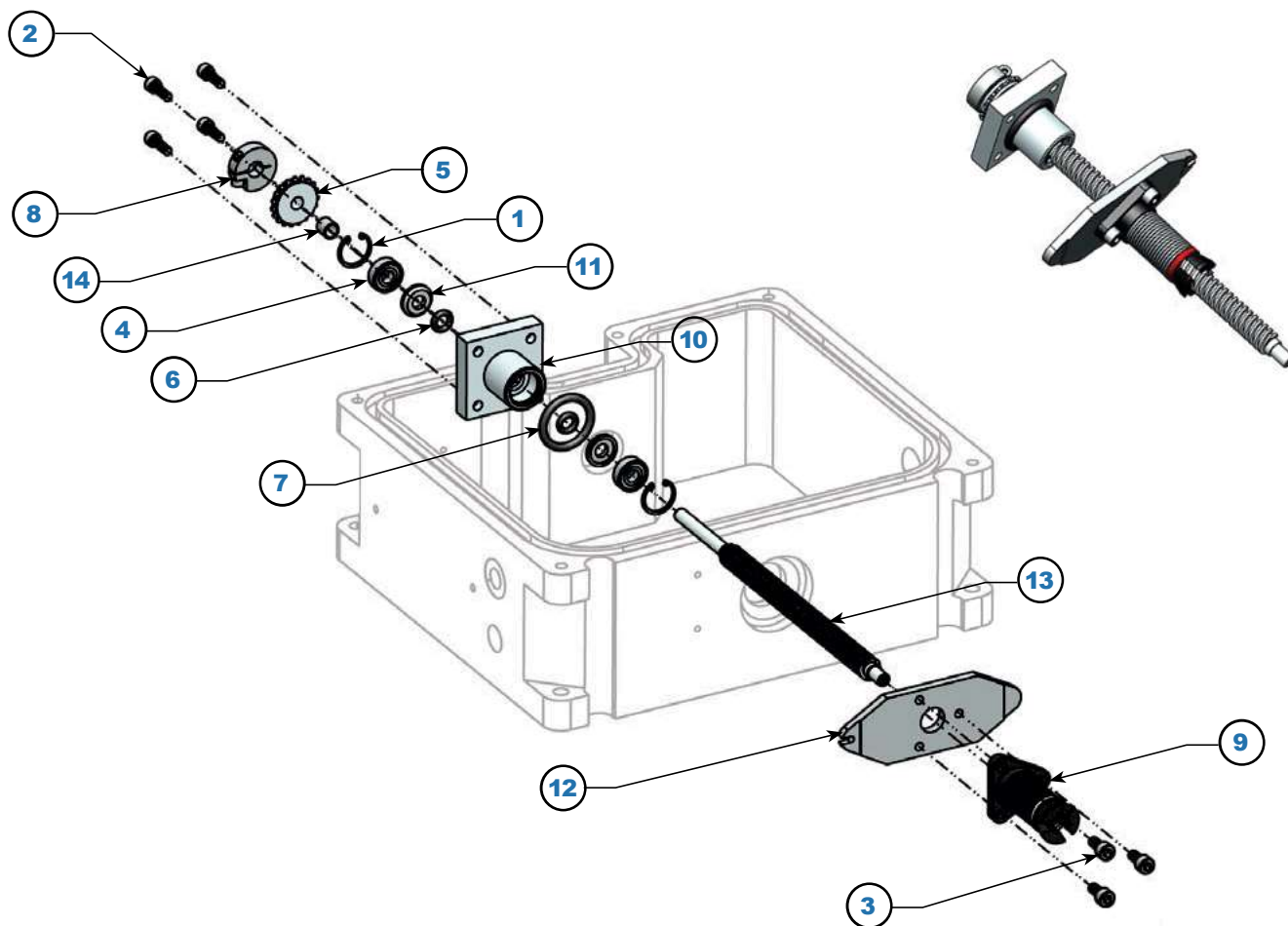


Item	P/N	Description	OEM	Qty
1	82430	SHCS, 8-32 X 5/8", SST	4400074	4
2	82436	SHCS, Cap Screw, 10-32 X 5/8, 18-8 SST	E47000049	4
3	83112V	O-Ring, 212, Viton®	E35000190	1
4	83628	PHCS, Slotted, 4-40 X 5/16, 18-8 SST	4400364	6
5	99262-6	Shield Plate	No OEM Reference	1
6	99262-7	Brace Clamp	No OEM Reference	2
7	99262-9	Mounting Block	No OEM Reference	2
8	99262-12	No. 1 Linear Slide Mtg Plate	No OEM Reference	1
9	99262-17	No. 2 Linear Slide Mtg Plate	No OEM Reference	1
10	99267	Lead Screw Assembly	No OEM Reference	1
11	99267-4	Bearing Screw Assembly	No OEM Reference	1
12	99267-5	Washer, Face Jam Nut, 7/8-14 UNF	No OEM Reference	1
13	99270	VAE Linear Bearing, Upper	No OEM Reference	2
14	99270A	VAE Linear Bearing, Lower	No OEM Reference	1

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

Extraction Electrode Version 34

P/N 99267 – OEM 1183310



Item	P/N	Description	OEM	Qty
1	82342	Retaining Ring	No OEM Reference	2
2	82395	8-32 X 1/2, SHCS, 18-8 SST	44000145	4
3	82439	SHCS, 10-32 X 3/8\", SST	4400743	3
4	82579	Bearing, Angular Contact	No OEM Reference	2
5	82672	Sprocket	No OEM Reference	1
6	83008	O-Ring, -108, Buna-N	3500196	2
7	83112	O-Ring, 212, Buna-N	3500086	1
8	8A452	Split Circular Hub Clamp	No OEM Reference	1
9	8A454	Anti Backlash Nut	No OEM Reference	1
10	99267-1	Bearing Housing	No OEM Reference	1
11	99267-2	Bearing Spacer	No OEM Reference	2
12	99267-3	Lead Screw Mounting Plate	No OEM Reference	1
13	99267-6	Acme Lead Screw, 7/16-4, 8TPI	No OEM Reference	1
14	99267-9	Spacer, Lead Screw Assy	No OEM Reference	1

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



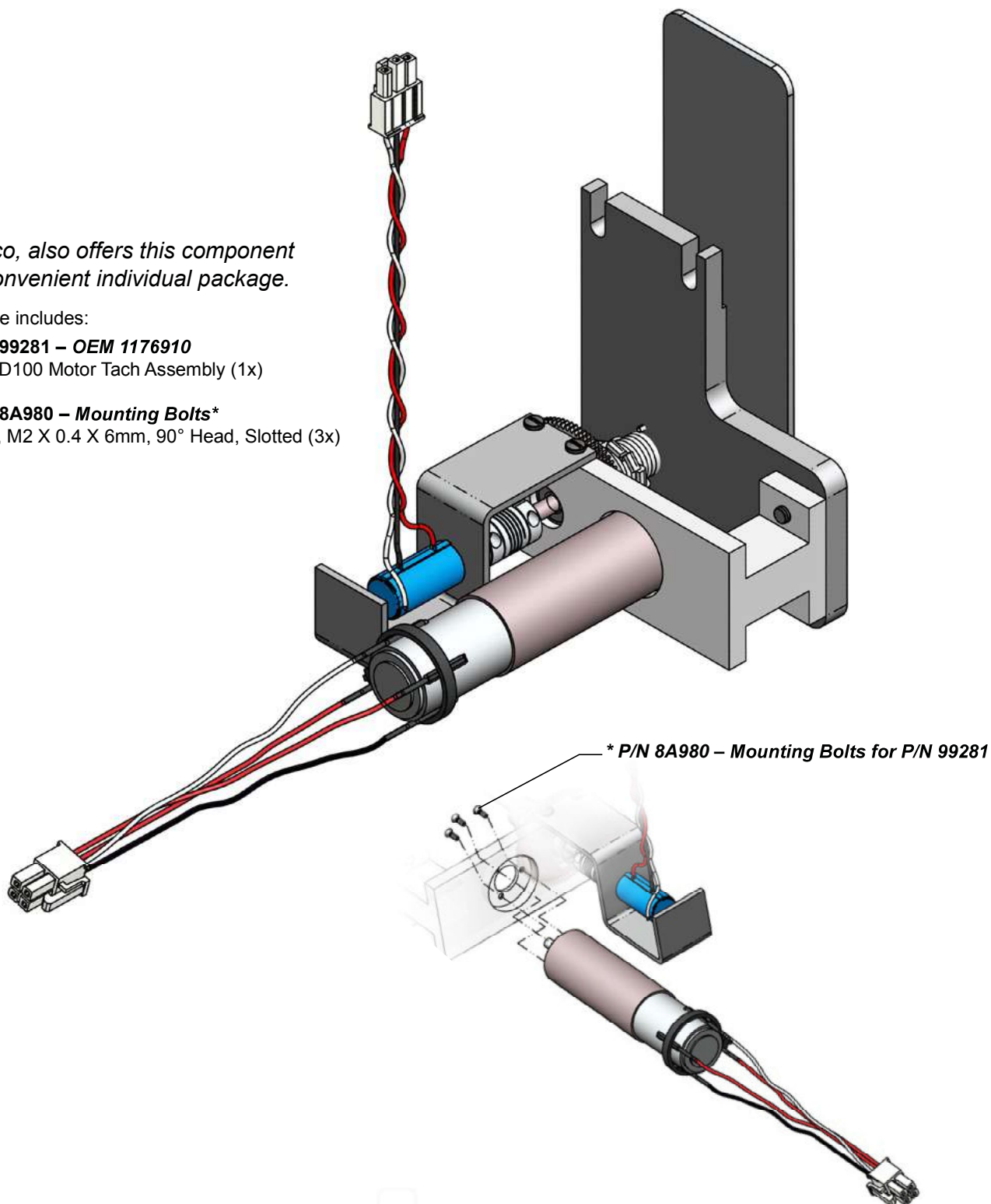
Extraction Electrode Version 34 Motor Drive Assembly

P/N 99399 – OEM 1181620

Glemco, also offers this component in a convenient individual package.

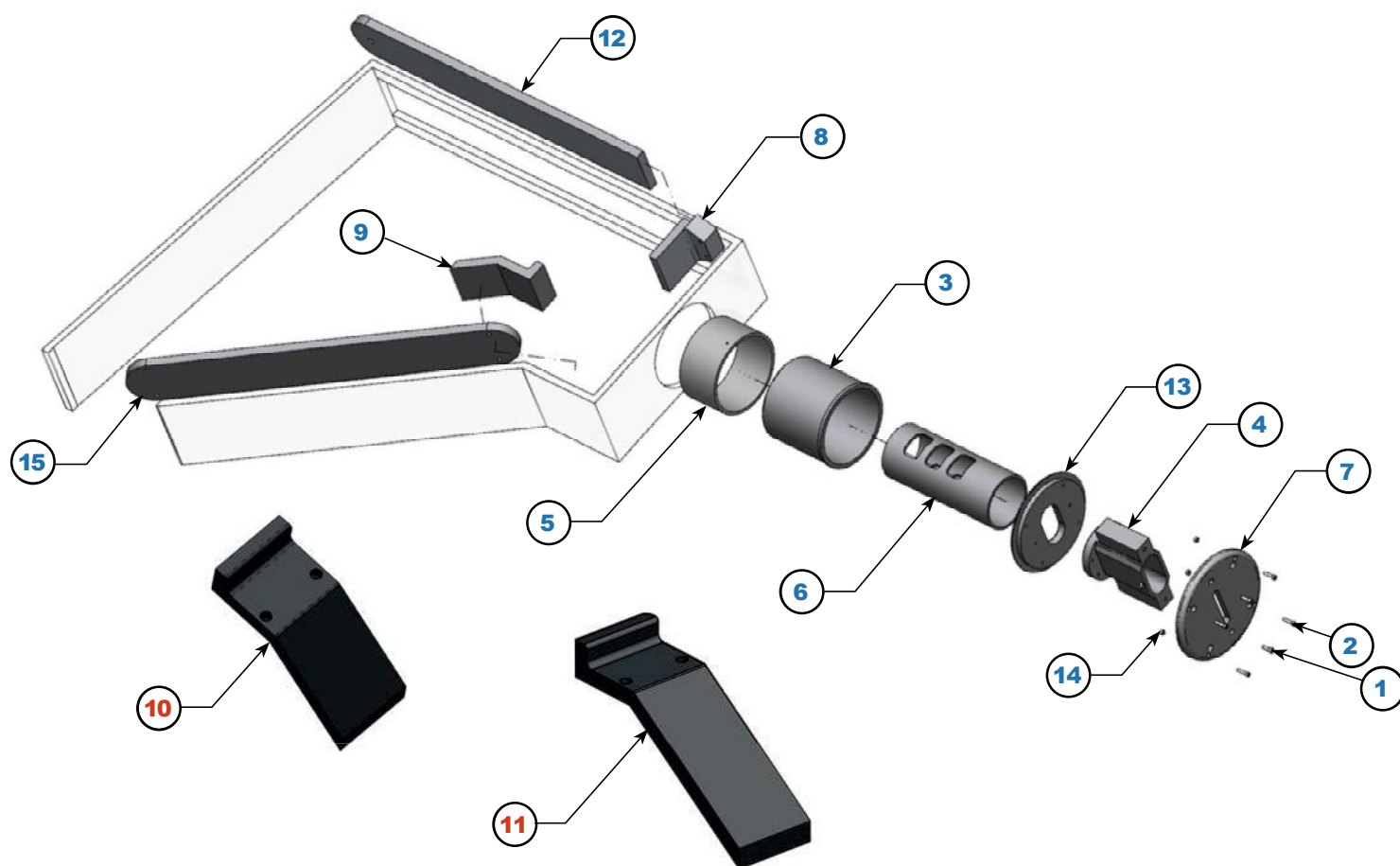
Package includes:

- **P/N 99281 – OEM 1176910**
GSD100 Motor Tach Assembly (1x)
- **P/N 8A980 – Mounting Bolts***
FH, M2 X 0.4 X 6mm, 90° Head, Slotted (3x)



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

GSD Analyzer Components

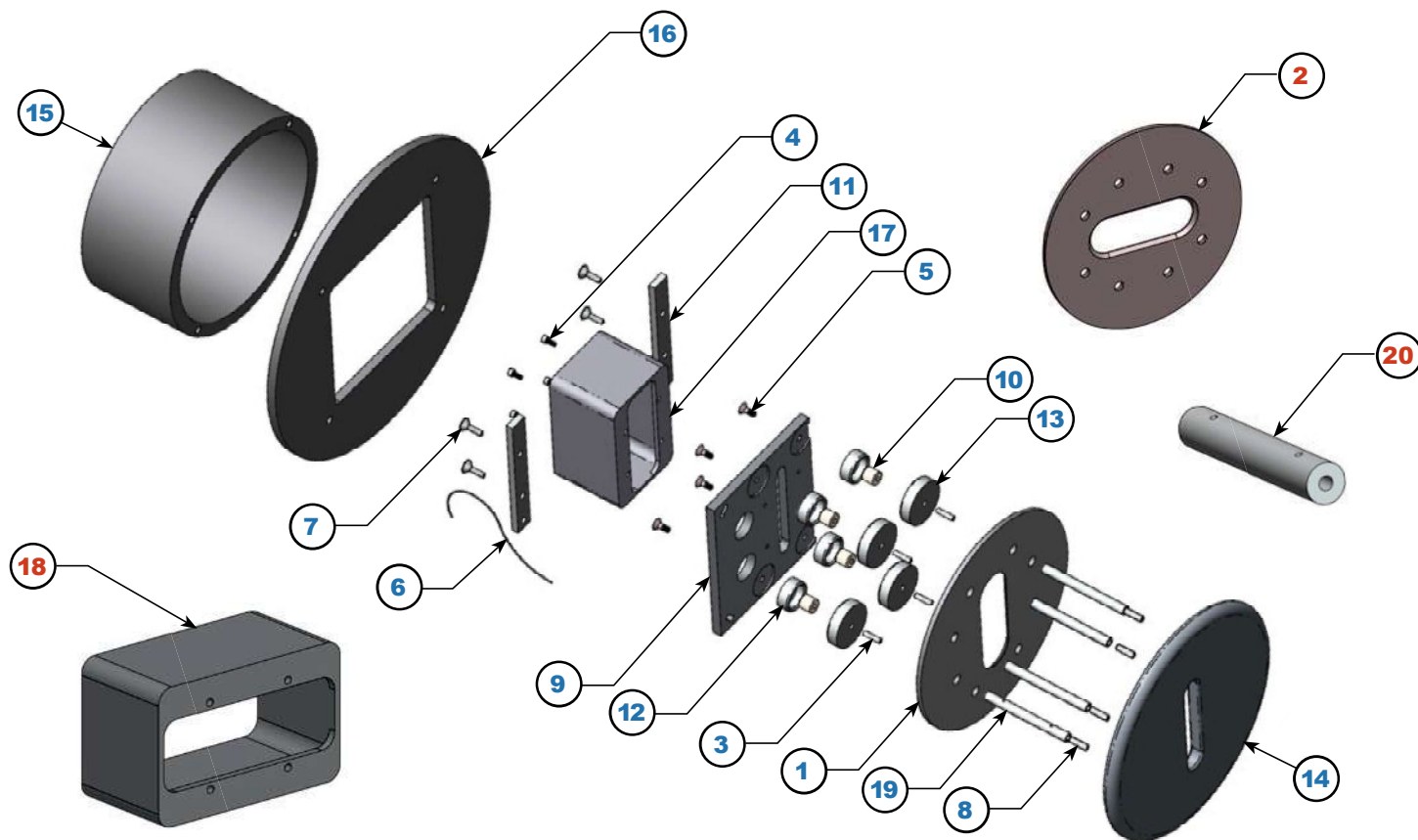


Item	P/N	Description	OEMs	QTY
1	82395	SHCS, 8-32 X 1/2", 18-8 SST	44000145	2
2	82420	SHCS, 6-32 X 5/8", 18-8 SST	4400061	4
3	99213	Extension Liner	17122930	1
4	99259	Accel Graphite Tube	17122950	1
5	99264	Exit Liner	17122910	1
6	99457	Quadrapole Lens Tube	17122960	1
7	99458	Face Plate, Quadrapole Lens, Graphite	17122970	1
8	99466	Outer Exit Shield, Graphite	17122890	1
9	99467	Inner Exit Shield, Graphite	17122900	1
10	99467A	Inner Exit Shield, Modified - 1.5" Extended Strike Zone, Graphite	17122900 REF	
11	99467B	Inner Exit Shield, Modified - 3" Extended Strike Zone, Graphite	17122900 REF	
12	99481	Long Strike Plate, Graphite	17099661	1
13	99489	Aperture, Post Accel, Graphite	17122940	1
14	99585	Spacer, .250 OD, .144 ID, .125 Deep	4001150	4
15	99684	Inner Beam Dump, Graphite	17099631	1

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



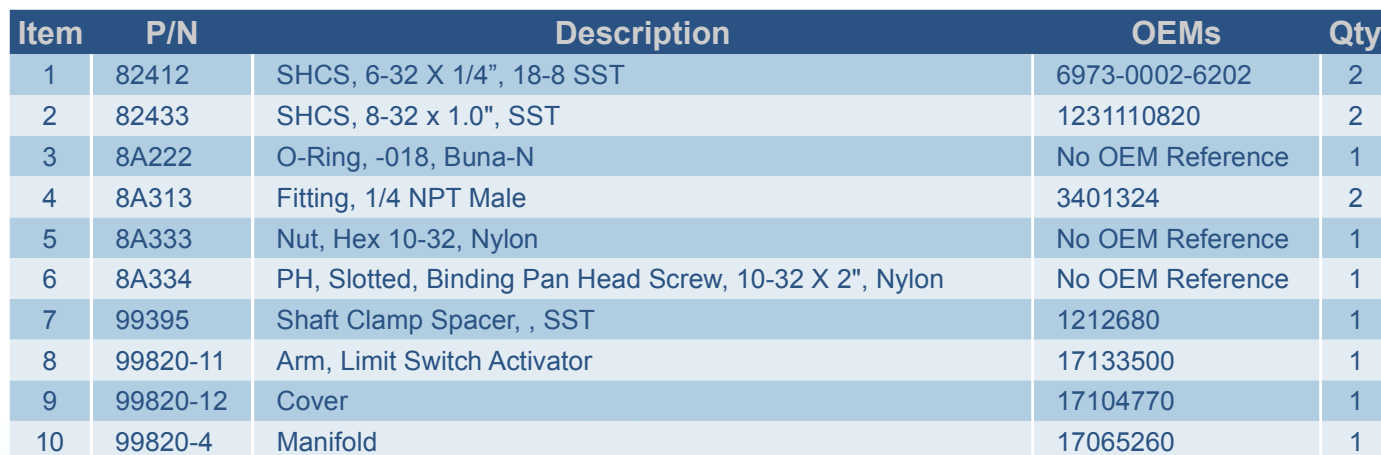
High Current Post Accel Extraction Electrode Assembly Beam Guide Shield



Item	P/N	Description	OEMs	Qty
1	40570A	Shield, Extraction Electrode, Graphite	17237120	1
2	40570AW	Shield, Extraction Electrode, Tungsten	17237120	
3	82119	Set Screw, 6-32 X 1/2", 18-8 SST	4400082	4
4	82385	SHCS, 4-40 X 1/4", SST	1236200403	4
5	82587	FHSS, 6-32 3/8", SST	No OEM Reference	4
6	82785	Wire, Safety, Ø.032", 302, SST	7100042	
7	8A217	Flat Head Screw, 8-32 X 3/8", 18-8 SST, 82°	4400024	4
8	8A387	VSS, Vented Set Screw, 8-32 X 1/2", SST	4400664	4
9	99030	Single Gas Electrode Ground Plate	1712070	1
10	99054	Ceramic Standoff, 3/8" Dia X 3/8" Long X 6-32 Thread	2866042	4
11	99137	Bar	1701730	2
12	99138	Small Cup	1711262	4
13	99139	Large Cup	1711261	4
14	99181A	Aperture, Graphite	17099281	1
15	99215	Extension Tube, Graphite	17119351	1
16	99243	Shield, Graphite	17126830	1
17	99473	Post Accel Aperture, Graphite	17122980	1
18	99473A	Post Accel Aperture Block, Modified, Graphite	17122980	
19	99582	Electrode Standoff	1712391	4
20	99582A	Electrode Standoff	1712391	

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

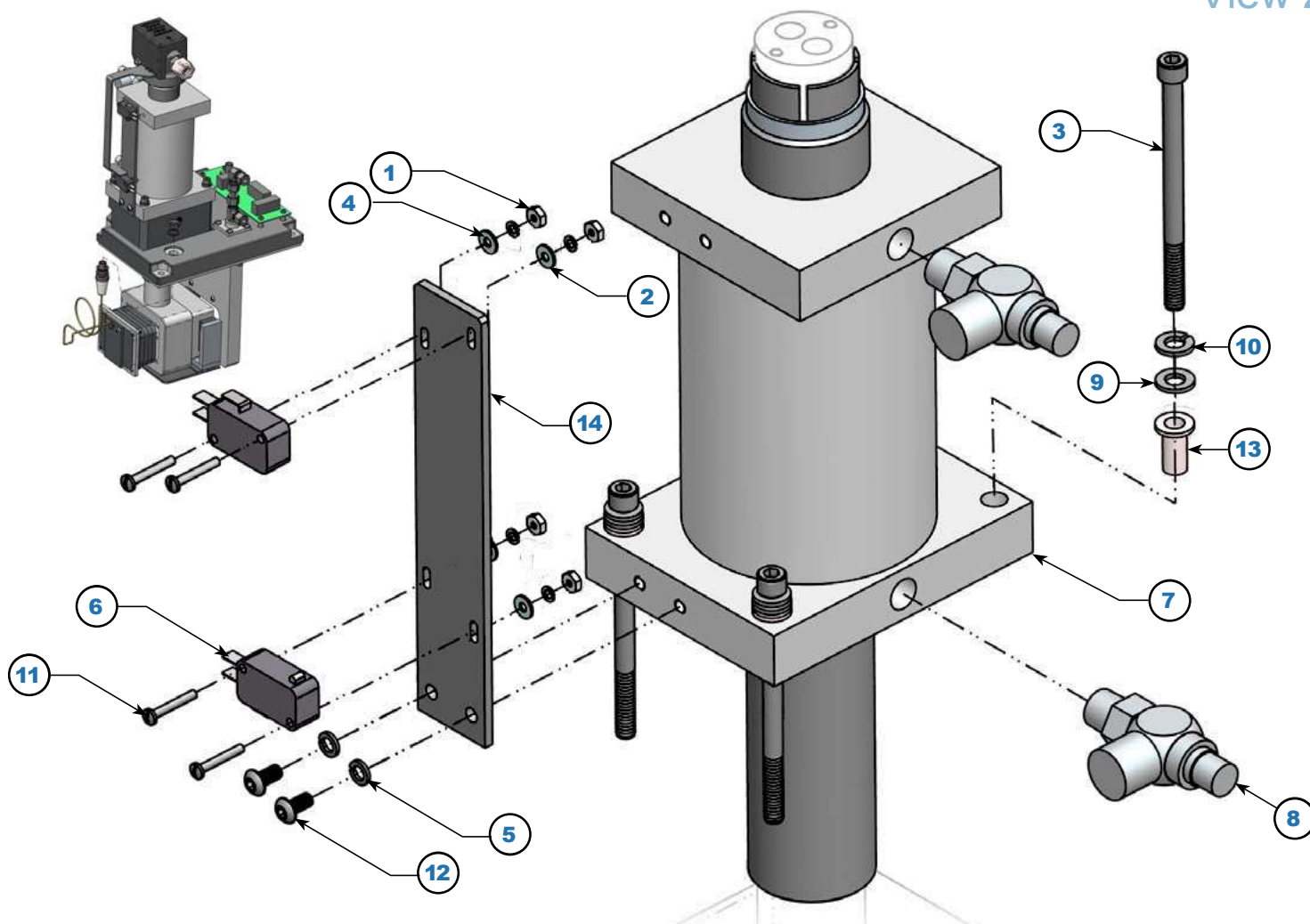
View 1



PO Box 217 Leander, TX USA 78646-0217 • 800-621-9598 • sales@glemco.com • www.glemco.com

Faraday Flag Aperture Components

View 2

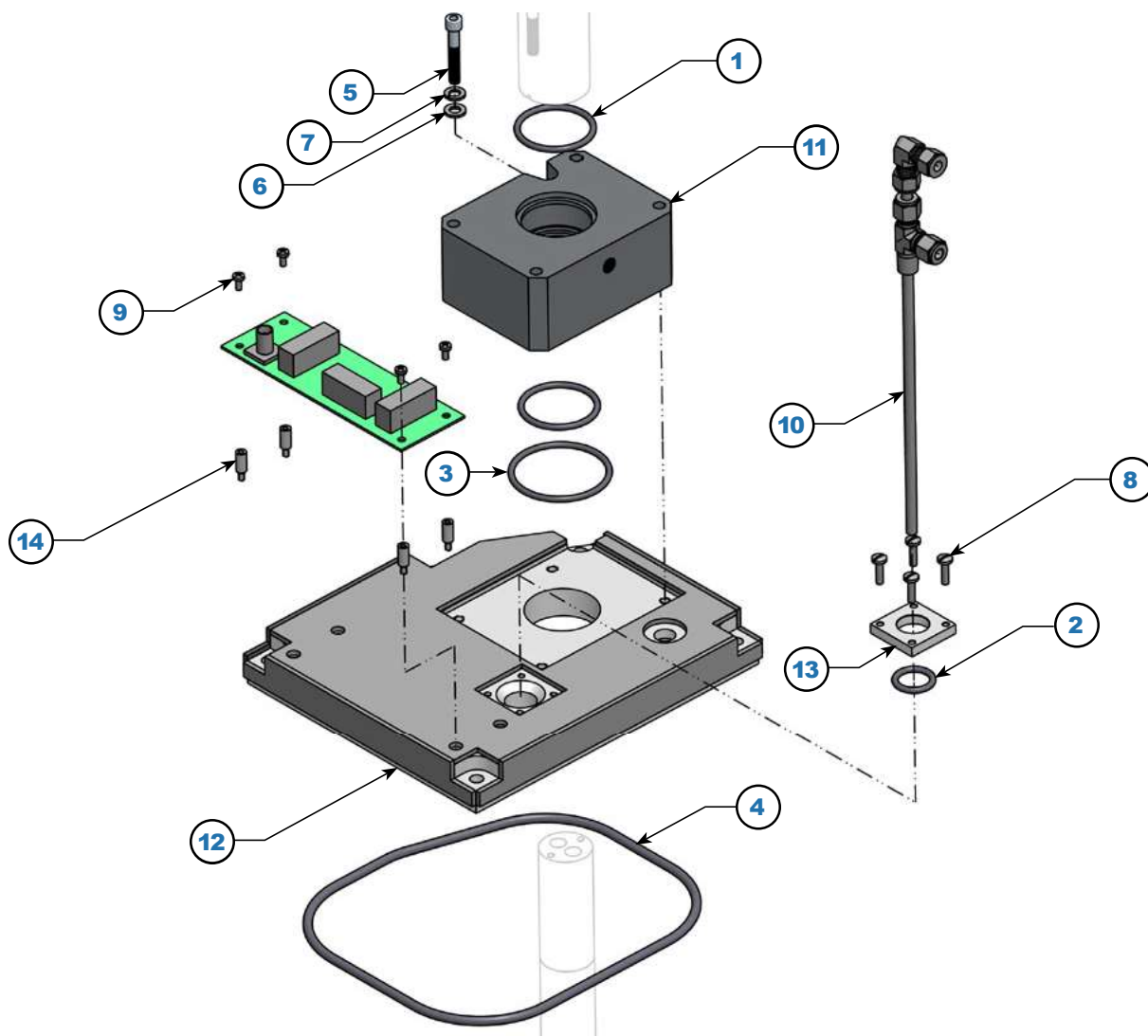


Item	P/N	Description	OEMs	Qty
1	82294	Hex Nut, 4-40, 18-8 SST	5053-0001-0042	4
2	82455	Flat Washer, #4, .032 Thick, SST	1412200400	4
3	82458	SHCS, 1/4-20 x 3.50, Alloy	No OEM Reference	4
4	82601	Regular Lock Washer Spring, #4, .120 Id, .209 OD, .025 Thick	48K00033	4
5	82608	Regular Spring Lock Washer, #10	4400041	2
6	8A312	Limit Switch	6500393	2
7	8A315	Air, Cylinder 3" Bore X 3.25" Stroke	No OEM Reference	1
8	8A316	Flow Control, Recessed	No OEM Reference	2
9	8A331	Washer, Flat .260 ID X .500 OD X .060 Thick, Black Oxide Finish	No OEM Reference	4
10	8A332	Washer, Lock, .25 Regular Spring, 260 ID, .489 OD, .06 Thick, Black Oxide Finish	No OEM Reference	4
11	8A338	PH, Slotted Pan, 4-40 X 3/4", SST	No OEM Reference	4
12	8A344	BHSS, Button Head Socket Screw, 10-32 X 3/8", Alloy	No OEM Reference	2
13	8A345	Washer, Shoulder, .260" ID X .500" OD X .060" Long, Nylon	4000982	4
14	99820-8-1	Support Plate, Bracket	17065280	1

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

Faraday Flag Aperture Components

View 3

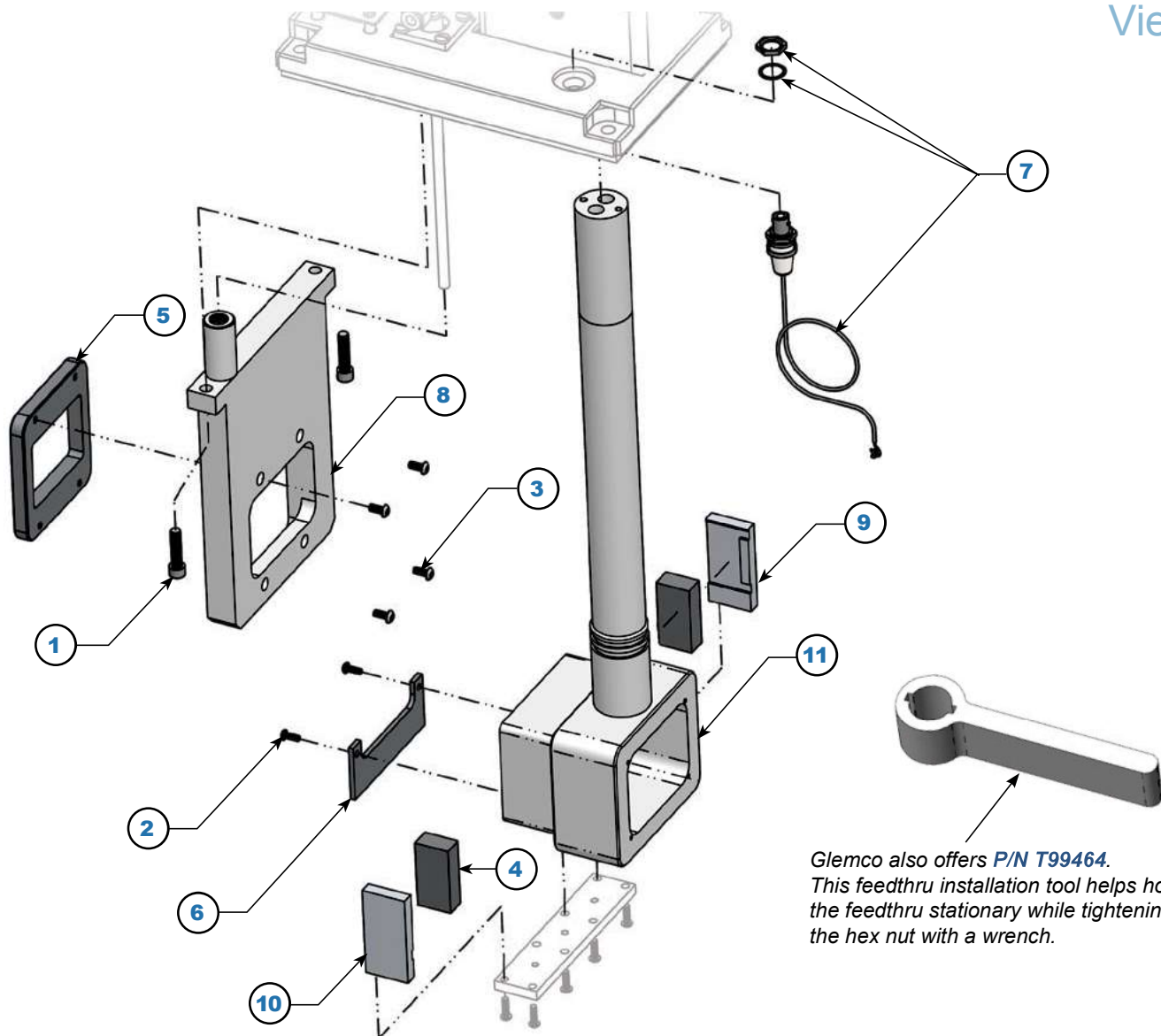


Item	P/N	Description	OEMs	Qty
1	82216	O-Ring, -223, BUNA-N	No OEM Reference	2
2	83110	O-Ring, -210, Buna-N	3500032	1
3	83127	O-Ring, -227, Buna-N	3500104	1
4	83269K	O-Ring, 7.975ID X .210W, 4079 Kalrez	22-00657-00	1
5	84171	SHCS, 1/4-20 X 1.5 LONG, ALLOY	No OEM Reference	1
6	8A331	Washer, Flat .260 ID X .500 OD X .060 Thick, Black Oxide Finish	No OEM Reference	1
7	8A332	Washer, Lock, .25 Regular Spring, 260 ID, .489 OD, .06 Thick, Black Oxide Finish	No OEM Reference	1
8	8A336	PH, Slotted, Binding, 8-32 X 5/8", 18-8 SST	No OEM Reference	4
9	8A337	PH, Phillips Pan, 6-32 X 5/16", With Internal Tooth Washer, 18-8 SST,	No OEM Reference	4
10	99394	Cooling Tube Assembly	1215620	1
11	99721	Seal Block, GSD & HE Faraday Flag	17099140	1
12	99820-1	Base Plate Assembly, Faraday Flag	17099130	1
13	99820-1-2	Retainer, O-Ring	17065370	1
14	99820-1-3	Stand-Off	5000009	4

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

Faraday Flag Aperture Components

View 4



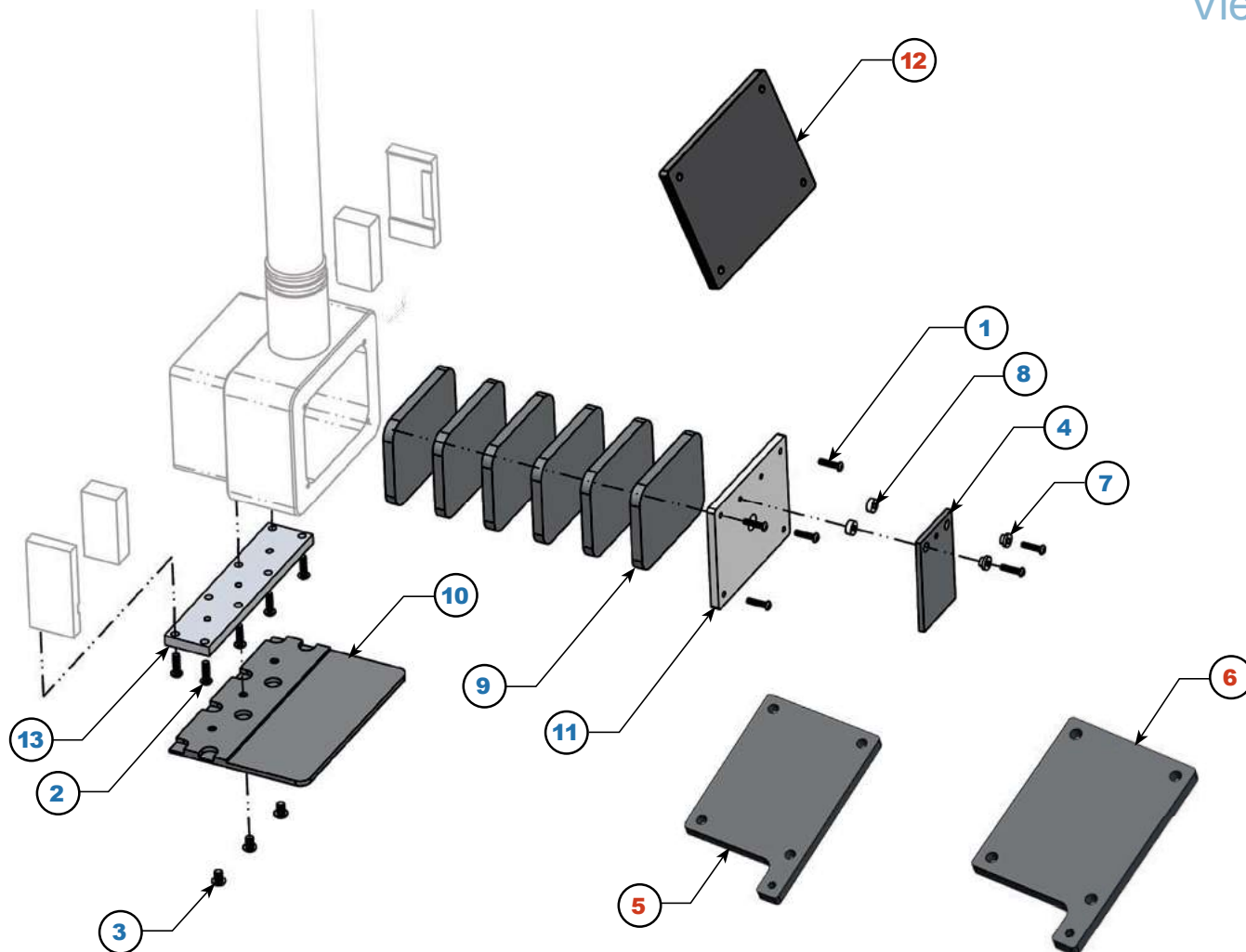
Glemco also offers [P/N T99464](#).
This feedthru installation tool helps hold the feedthru stationary while tightening the hex nut with a wrench.

Item	P/N	Description	OEMs	Qty
1	82446	SHCS, Socket Head Cap Screw, 1/4-20 X 1", SST	1231111420	2
2	82627	BHSS, Socket, Button Head Screw, 6-32 X 3/8", SST	1236200606	2
3	82631	BHSS, Socket, Button Head Screw, 8-32 X 3/8", SST	4400183	4
4	8A314	Magnet, .50 x .88 x 1.75, Special, Samarium Cobalt	No OEM Reference	2
5	99230	Faraday Flag Aperture	17099181	1
6	99392	Flag Magnet Shield	17100461	1
7	99464	5 Amp Mini MHV Coaxial Connector, Feed-Thru	1214980	1
8	99820-2	Aperture Housing	17099190	1
9	99820-5-1	Bracket, Magnet, Right	17065301	1
10	99820-5-2	Bracket, Magnet, Left	17065300	1
11	99820-6	Faraday Cup	17104810	1

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

Faraday Flag Aperture Components

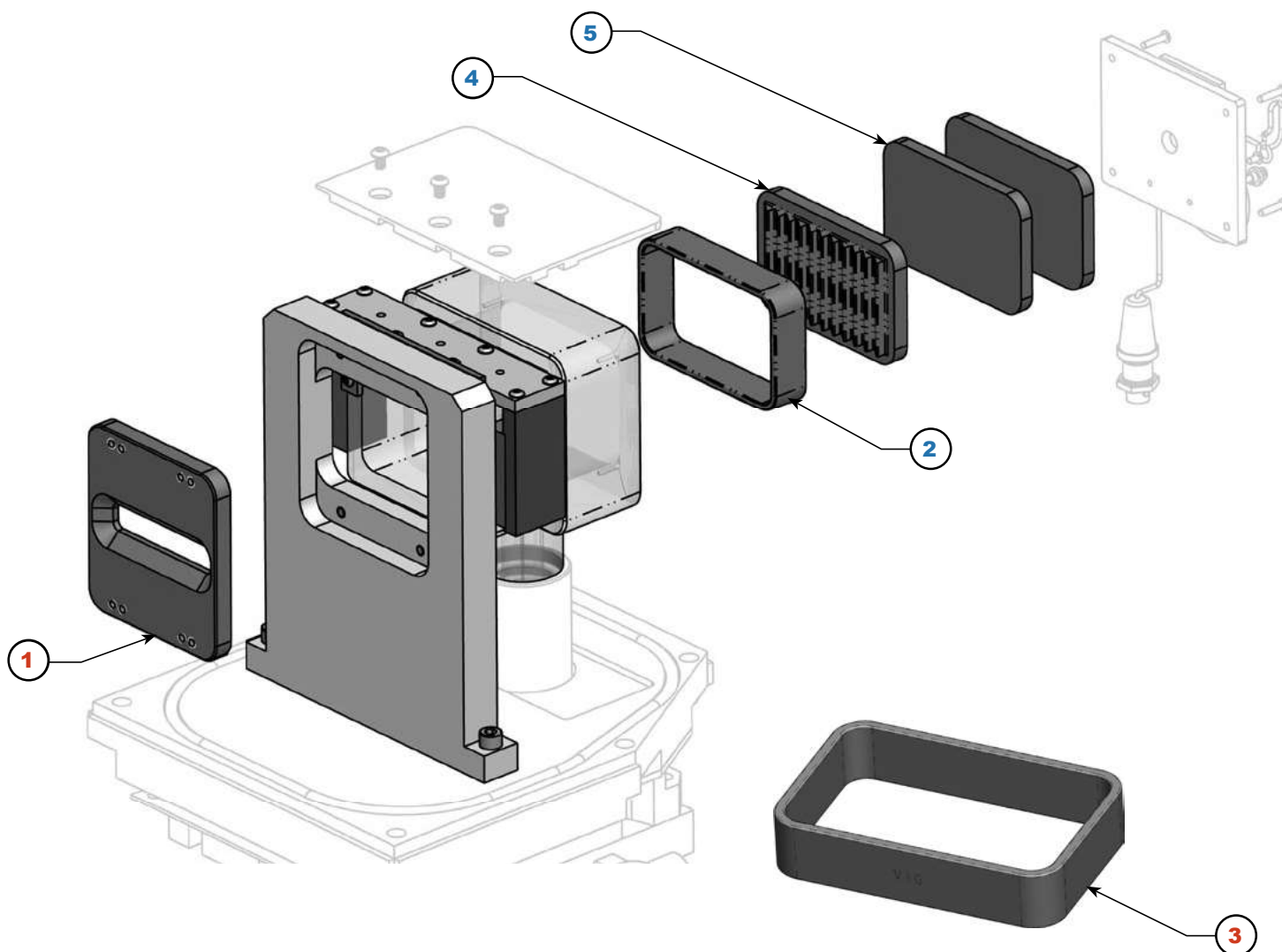
View 5



Item	P/N	Description	OEMs	Qty
1	82621	BHSS, Socket, Button Head Screw, 4-40 X 1/2", SST	No OEM Reference	6
2	82629	BHSS, Socket, Button Head Screw, 6-32 X 1/2", SST	1236200608	8
3	82630	BHSS, Socket, Button Head Screw, 8-32 X 1/4", SST	4400735	3
4	99040A	Burn-Thru Sensor Plate	1766531	1
5	99040B	Burn-Thru Sensor Plate, Modified	1744520	
6	99040C	Burn-Thru Sensor Plate, Modified	1744520	
7	99087	Standoff Insulator	1744570	2
8	99088	Top Insulator	1744690	2
9	99339	Strike Block, Resolver Flag, HE and VHE	17099201	6
10	99390	Flag Shield	17099831	1
11	99820-10	Cover Plate, Faraday Cup	17104820	2
12	99820-10G	Cover Plate, Faraday Cup, Modified	17104820	
13	99820-5-3	Support Plate, Bracket	17099150	1

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

Upgraded Faraday Flag Aperture Components

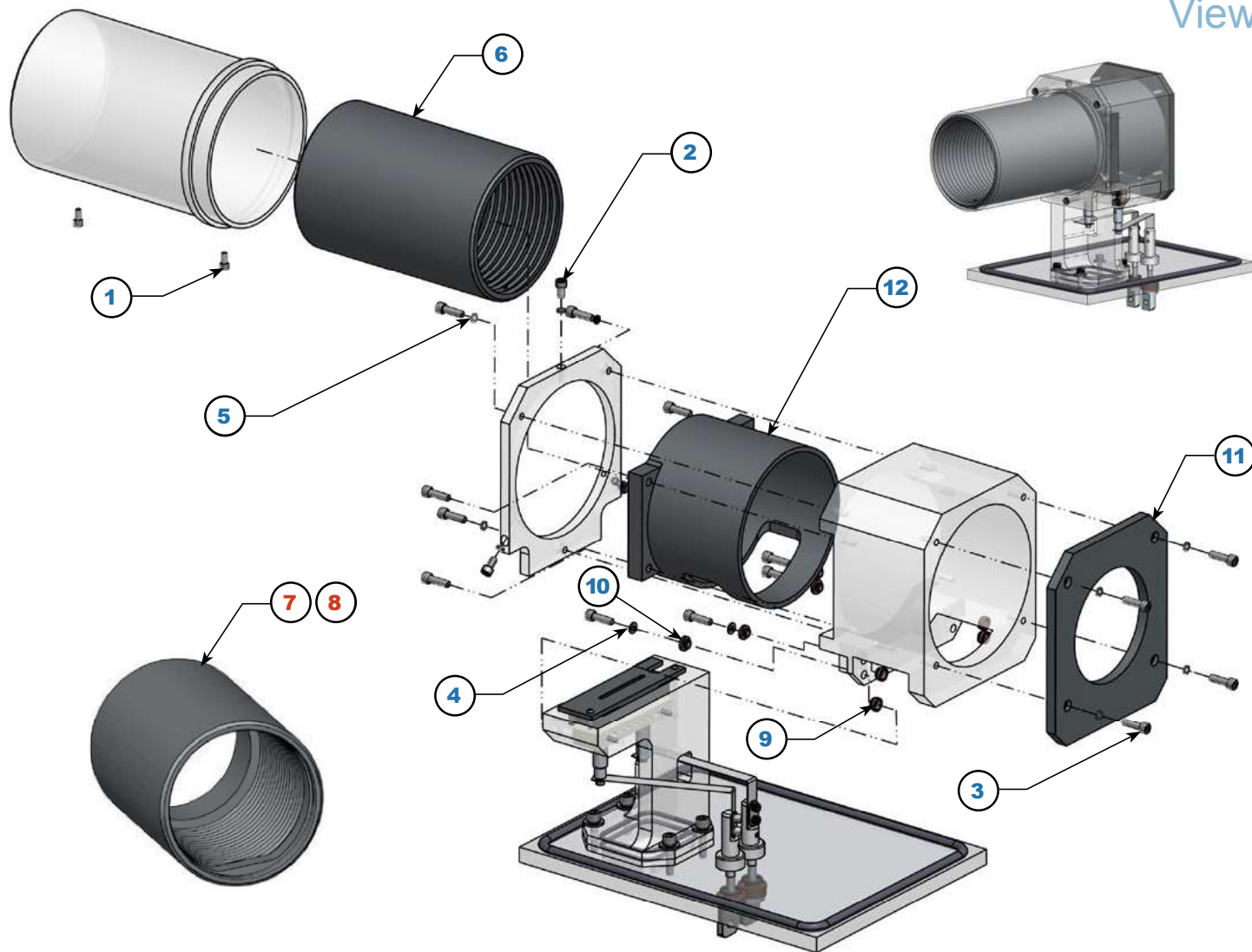


Item	P/N	Description	OEMs	Qty
1	99230CV	Faraday Flag Aperture, Custom, Graphite VIG	17099181	1
2	99679	Spacer, Strike Plate, Graphite	17320320	1
3	99679V	Spacer, Strike Plate, Graphite VIG	17320320	
4	99681AV	Strike Plate, Serrated, Graphite VIG	17319860	1
5	99781	Strike Plate, Graphite	17319860	2

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

Electron Shower Components

View 1

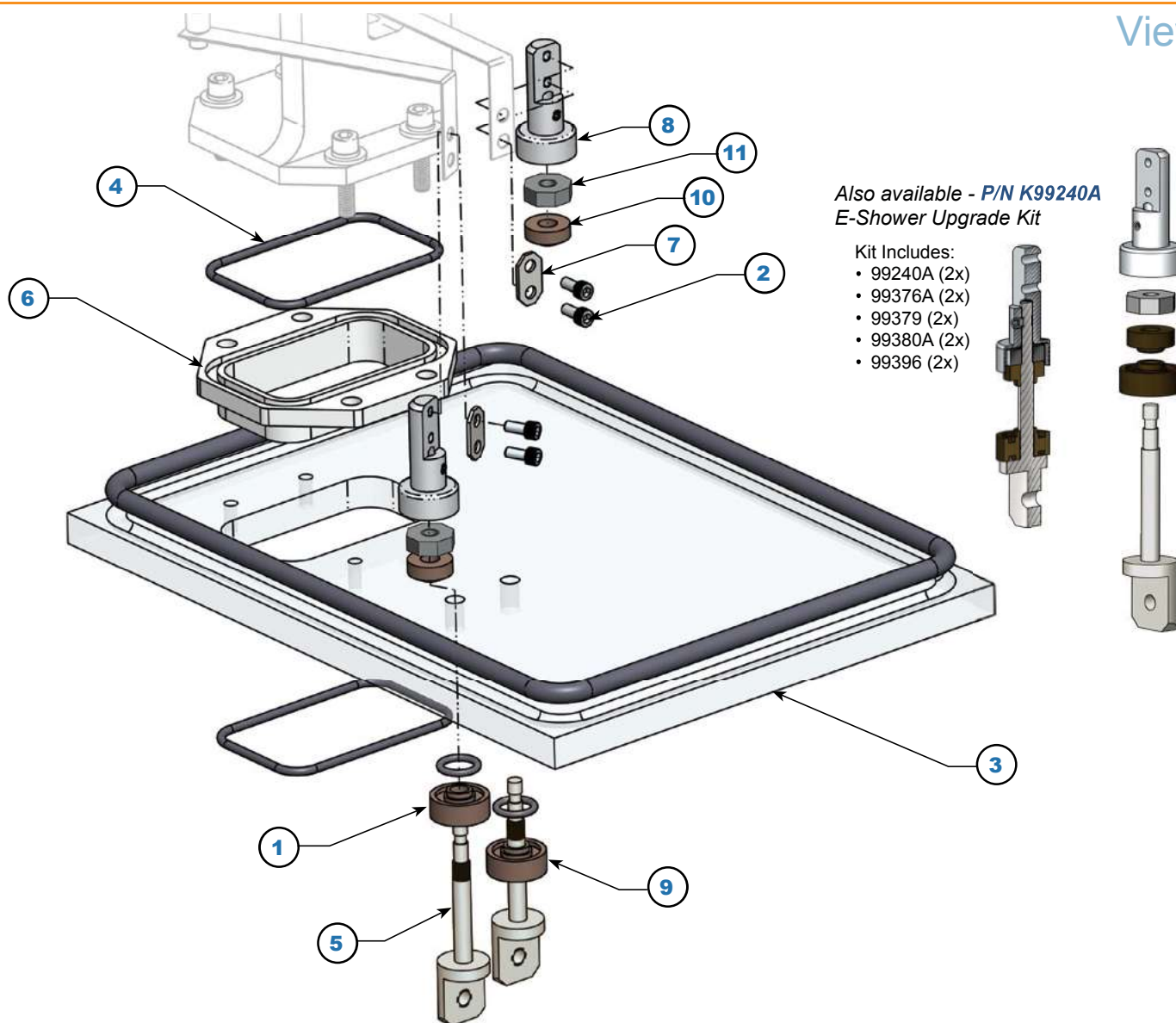


Item	P/N	Description	OEMs	Qty
1	82385	SHCS 4-40 X 1/4" SST	1236200403	2
2	82412	6-32 X 1/4", SHCS, SST 18-8	4400216	3
3	82415	6-32 X 1/2" SHCS, SST	1231200608	15
4	82470	Washer Flat 6 X .025 Thick SST	141220600	4
5	82606	#6 Regular Spring Washer, 18-8 SST	4400034	10
6	99363A	Electron Shower Tube	17135440	1
7	99363B	Electron Shower Liner	170055310	
8	99363BV	Electron Shower Liner, VIG	170055310	
9	99367A	Electron Shower Tube Insulator	17109910 REV A	4
10	99419	BSHG Snap Insulator	17109340	4
11	99475	Electron Shower Aperture Entrance	17173230 REV A	1
12	99476	Electron Shower Target, Graphite	17164580	1

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

Electron Shower Components

View 2

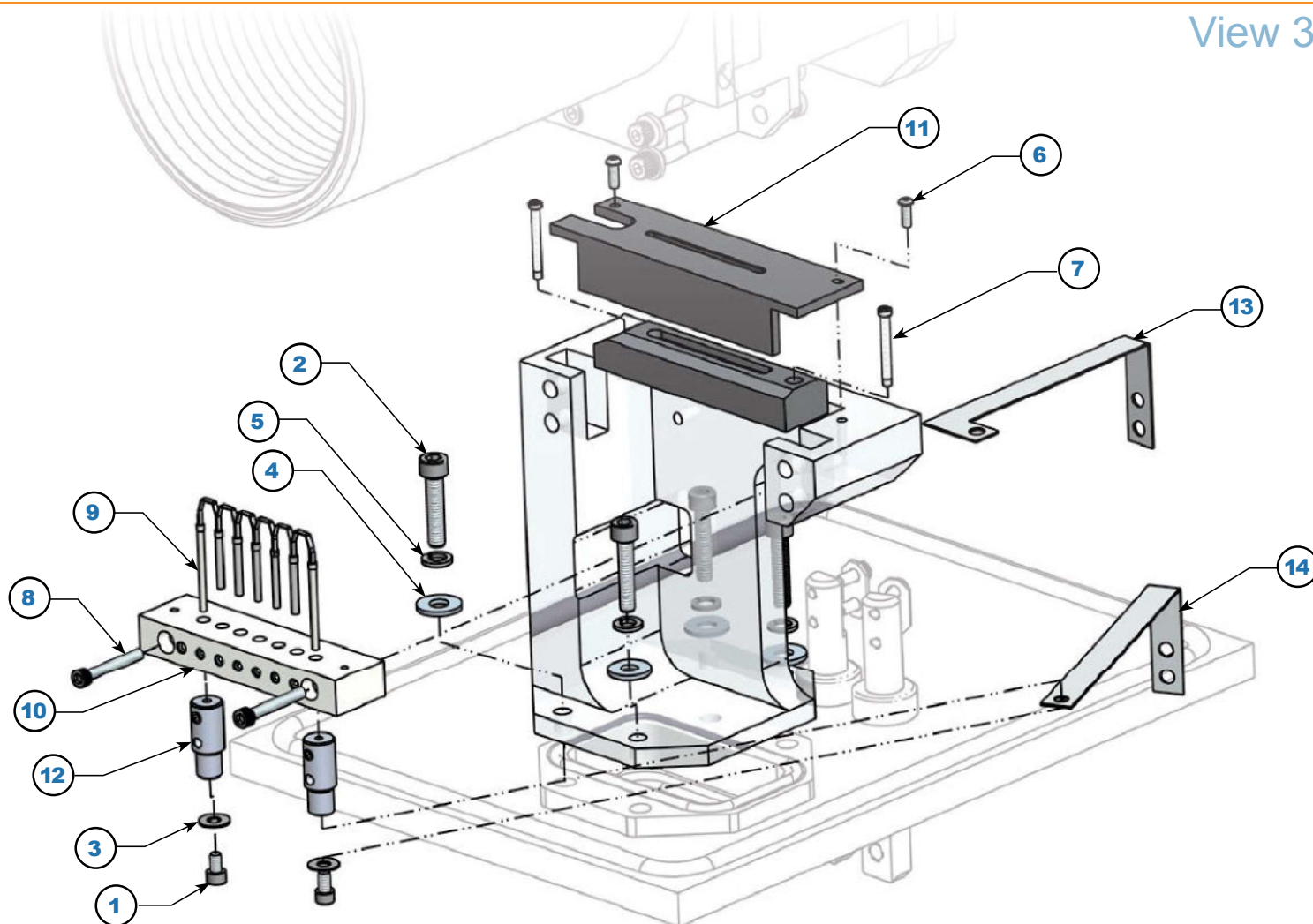


Item	P/N	Description	OEMs	Qty
1	82200	O-Ring -012 Buna-N	2542012, E35000067, 3500068	2
2	82385	SHCS 4-40 X 1/4" SST	1236200403, 4400194, 4400105	8
3	83264	O-Ring -364 Buna-N	3500028	1
4	8A218	O-Ring - 137 Buna-N	3500774	2
5	99240A	Electron Shower Feed-Thru, For Glemco Design	No OEM Reference	2
6	99318	E-Shower Base Insulator	No OEM Reference	1
7	99375	Clamp Feed Strap	17A0830	2
8	99376A	Strap Mount,	17S1597	2
9	99379	Feed-Thru Insulator	17S4891 REV A	2
10	99380A	Spacer, for Glemco Design, Vespel®	No OEM Reference	2
11	99396	Feed-Thru Nut, 10-32, SST	17S1354	2

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

Electron Shower Components

View 3



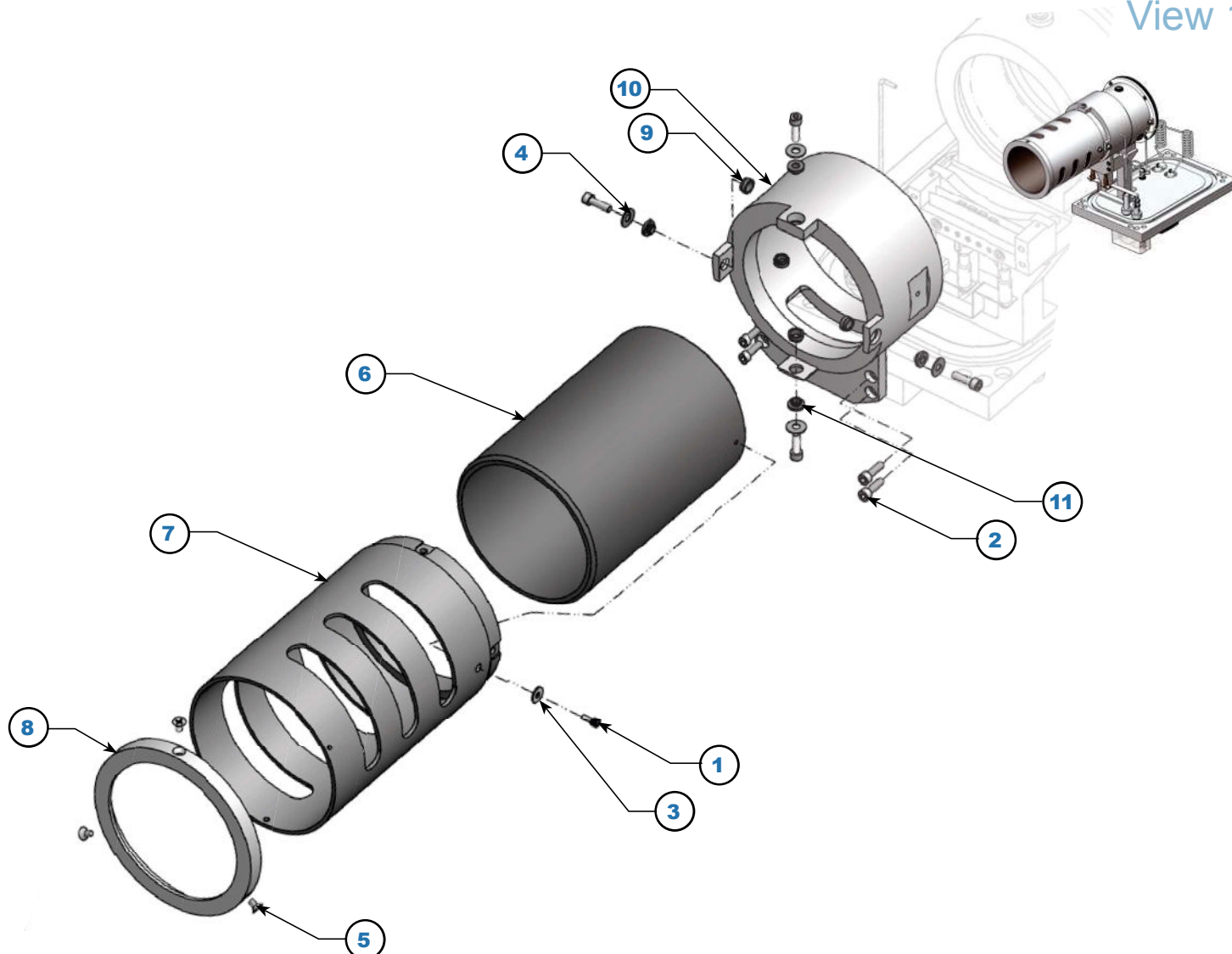
Item	P/N	Description	OEMs	Qty
1	82384	SHCS 4-40 X 3/16 SST	4400002	2
2	82431	SHCS 8-32 X 3/4" SST	1236200620, 4400057	4
3	82455	No. 4 Flat Washer, .032 Thick, SST	1412200400, 4400033, 4400222	2
4	82474	#8 Flat Washer, Standard, 18-8 SST	4400498, 4400122, 8462-0004-0807	4
5	82609	#8 Lock Washer, .174 ID .293 OD SST	4400062	4
6	8A154	BHSS 2-56 x 1/4 18-8 SST	4400202	2
7	8A155	2-56x3/4 Fillister HD Slotted	4400921	2
8	8A747	SHCS, 4-40 X 3/4 SST	No OEM Reference	2
9	99033A	E-Shower Filament	1909360 REV A	1
10	99421HC	E-Shower Filament Insulator, Boron Grad, HBC	17321470	1
11	99461	E-Shower Aperture, Graphite	17165510	1
12	99670A	Filament Mount, One Piece Type	17164570, 4100028	2
13	99689	Strap Straight, Silver	17164560	1
14	99690A	Expansion Strap, RT, E-Shower Silver Strap	17164550	1

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



Eaton GSD Electron Shower Housing Assembly 99400 – OEM 1183280

View 1



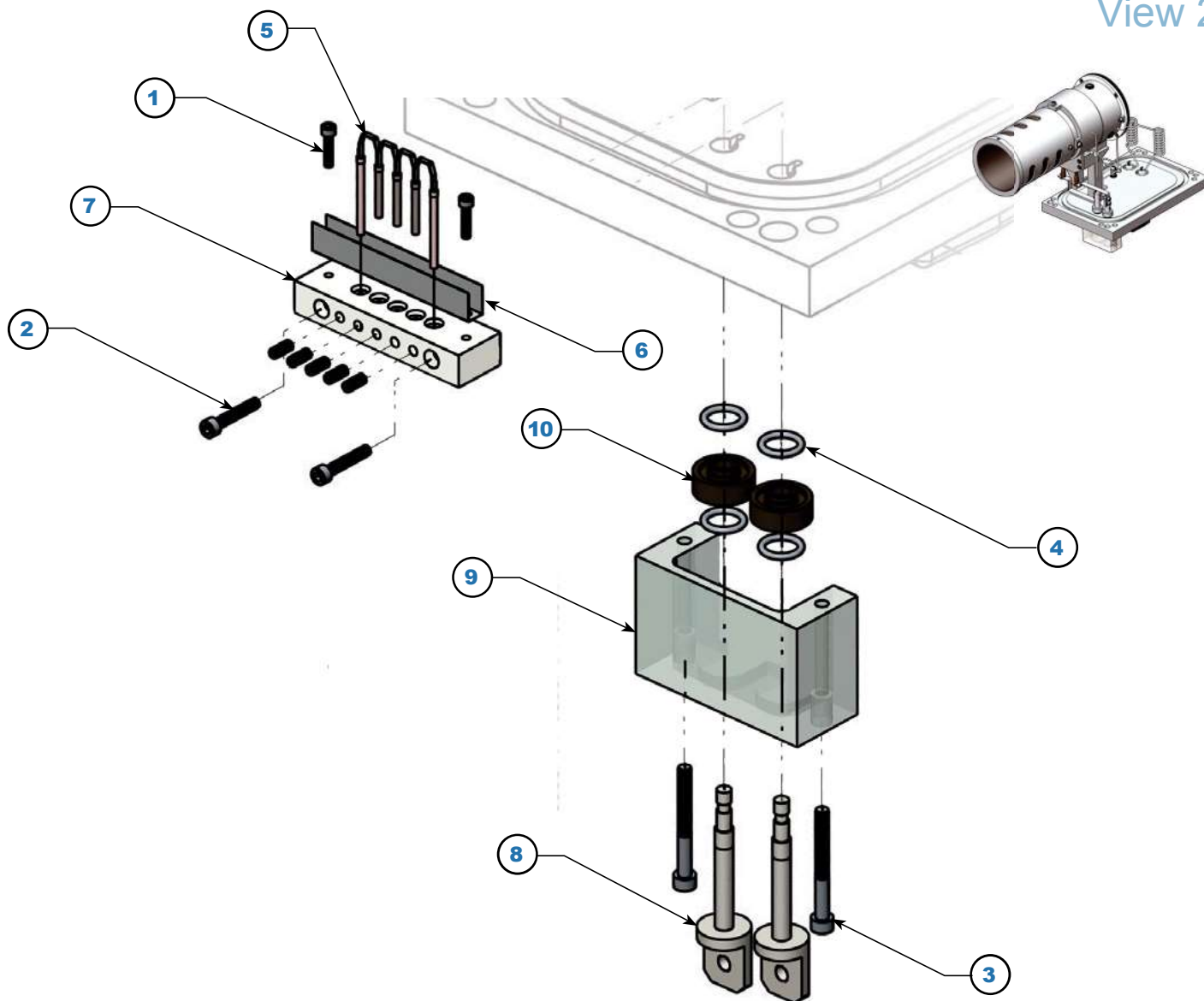
Item	P/N	Description	OEMs	Qty
1	82385	SHCS, 4-40 X 1/4", SST	1236200403	1
2	82414	SHCS, 6-32 X 7/16", SST	4400044	8
3	82455	Flat Washer, #4, .032 Thick, SST	1412200400	1
4	82470	Flat Washer, #6, .025 Thick, SST	141220600	4
5	82787	FHPS, 4-40 X 3/16", 82°, SST	4400076	3
6	99363	Electron Shower Tube	17123000	1
7	99364	Electron Shower Liner Housing	17123010	1
8	99365	End Cap, Electron Shower Housing	17123020	1
9	99367A	Electron Shower Tube Insulator	17109910	4
10	99368	Electron Shower Housing Mount	17131030	1
11	99419	BSHG Snap Insulator	17109340	4

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



Eaton GSD Electron Shower Housing Assembly 99400 – OEM 1183280

View 2



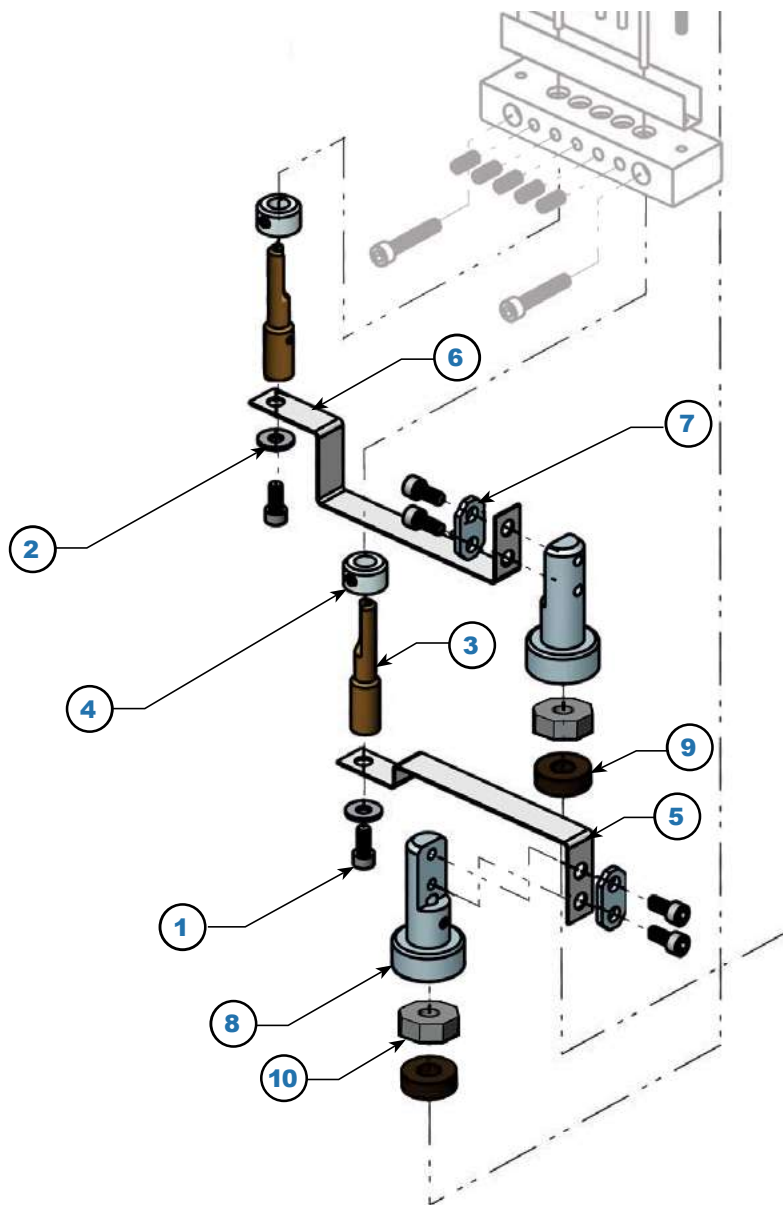
Item	P/N	Description	OEMs	Qty
1	82383	SHCS, 2-56 x 3/8", SST	No OEM Reference	2
2	82390	SHCS, 4-40 X 5/8", SST	4400219	2
3	82424	SHCS, 6-32 X 1 1/4", SST	E47000284	2
4	82912V	O-Ring, -012, Viton®	E3500068	4
5	99033	Electron Shower Filament	1900400	1
6	99099	Electron Shower Filament Shield	1718290	1
7	99180	Filament Mount Block Insulator	17083020	1
8	99240A	Electron Shower Feed-Thru	17A0732	2
9	99377	Feed-Thru Cover	17A3700	1
10	99379	Feed-Thru Insulator, Vespe®	17S4891	2

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



Eaton GSD Electron Shower Housing Assembly 99400 – OEM 1183280

View 3



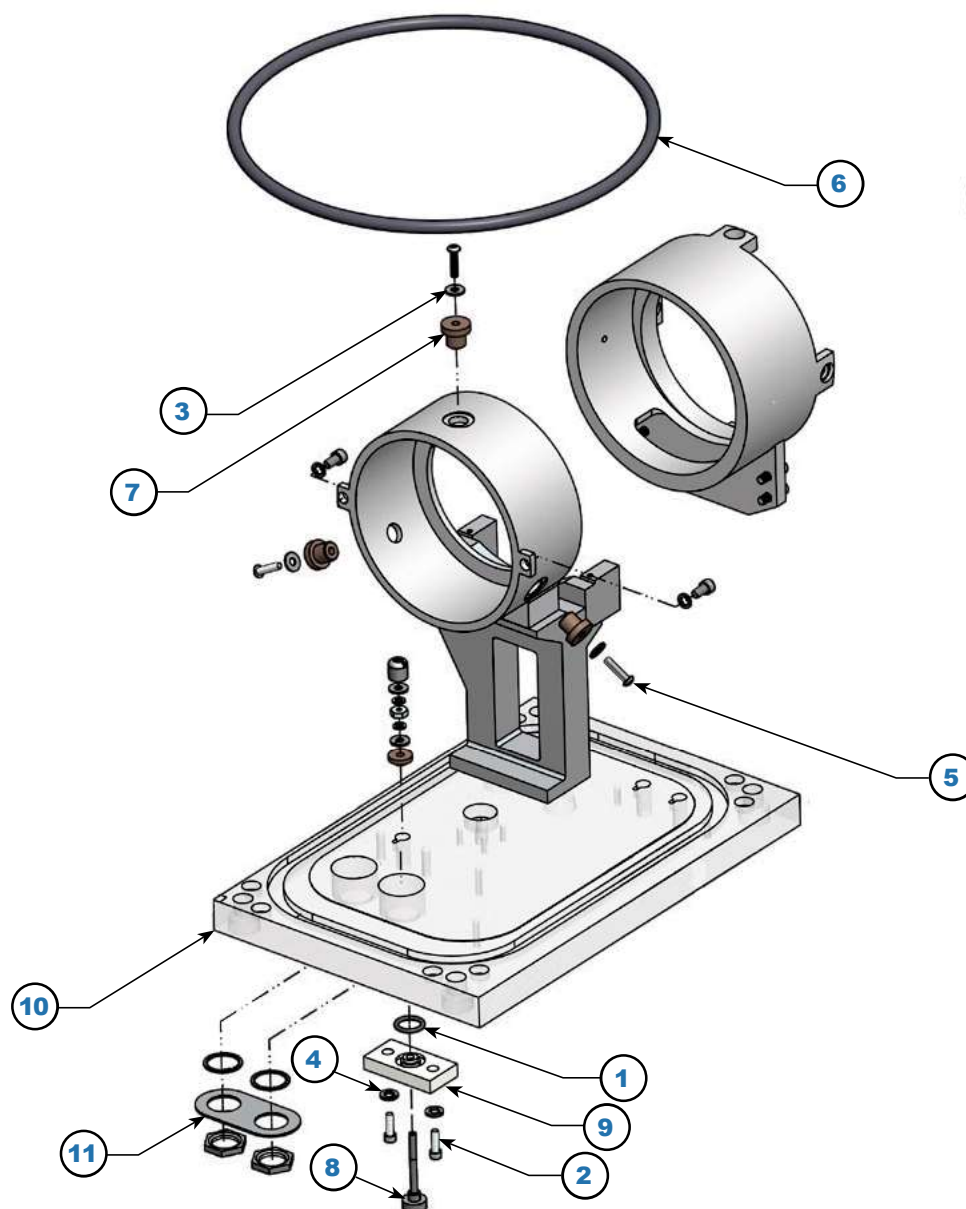
Item	P/N	Description	OEMs	Qty
1	82385	SHCS, 4-40 X 1/4", SST	1236200403	6
2	82455	Flat Washer, #4 .032 Thick, SST	1412200400	2
3	99093	Filament Mount	1718960	2
4	99094	Filament Collar	4100028	2
5	99373	Electron Shower Feed Strap	17107980	1
6	99374	Electron Shower Feed Strap	17107990	1
7	99375	Clamp Feed Strap	17A0830	2
8	99376A	Strap Mount	17S1597	2
9	99380A	Spacer, Vespel®	17S4889	2
10	99396	Feed-Thru Nut, 10-32, SST	17S1354	2

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



Eaton GSD Electron Shower Housing Assembly 99400 – OEM 1183280

View 3



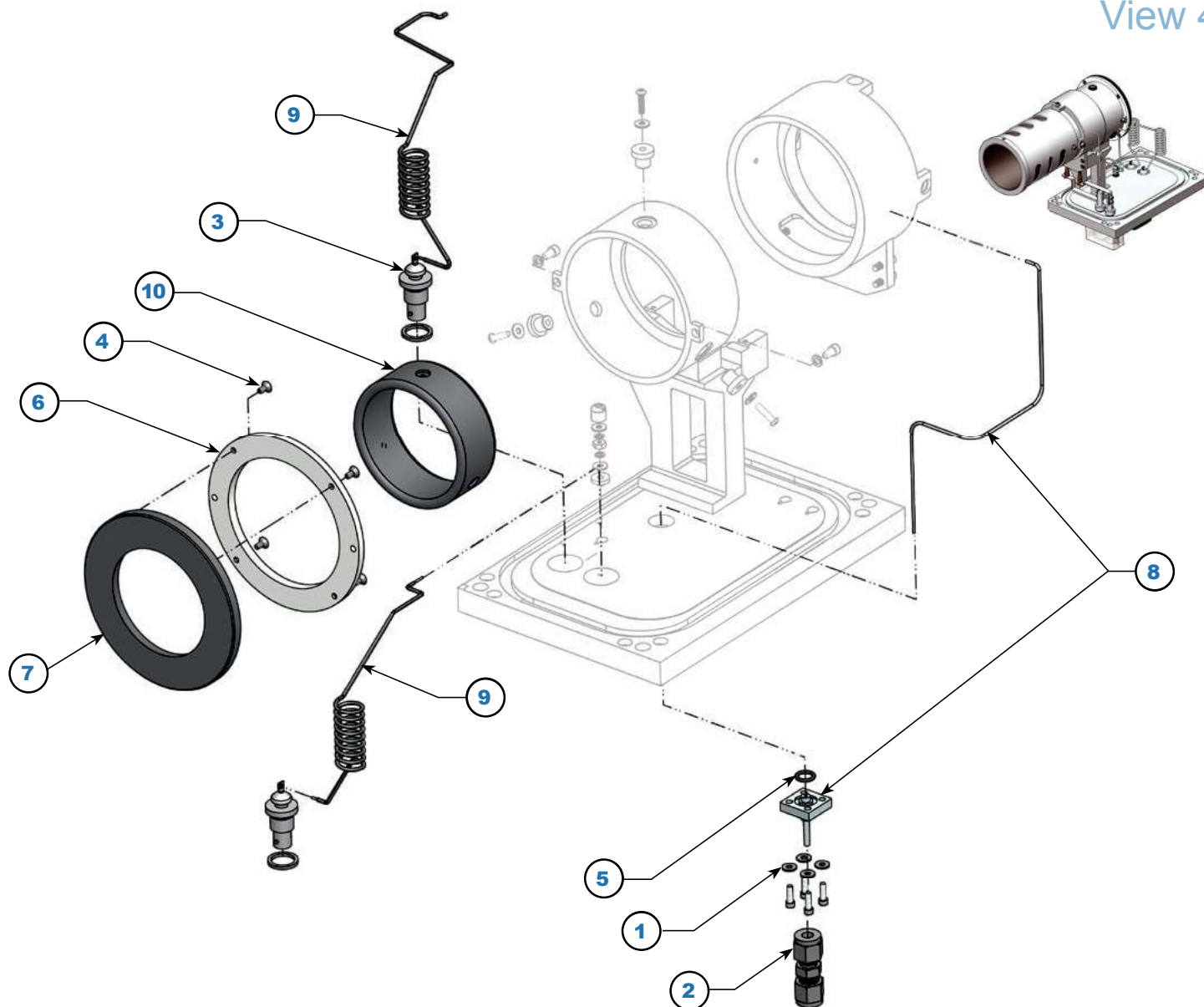
Item	P/N	Description	OEMs	Qty
1	82200	O-Ring, -012 Buna-N	2542012	1
2	82387	SHCS, 4-40 X 3/8", SST	4400004	6
3	82456	Washer, #4, .028" Thick X .125" ID X .250" OD, 300 Series, SST	4400035	3
4	82609	Washer, #8, .174 ID .293 OD, SST	4400062	2
5	82621	BHSS, 4-40 X 1/2", SST	No OEM Reference	3
6	83264	O-Ring, -364, Buna-N	3500028	1
7	99345	Insulator	17A7036	3
8	99381	Feed-Thru	17A0843	1
9	99382	Feed-Thru Insulator	17A0842	1
10	99385	Electron Shower Housing Base	17115040	1
11	99386	Ground Plate	17115510	1

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



Eaton GSD Electron Shower Housing Assembly 99400 – OEM 1183280

View 4

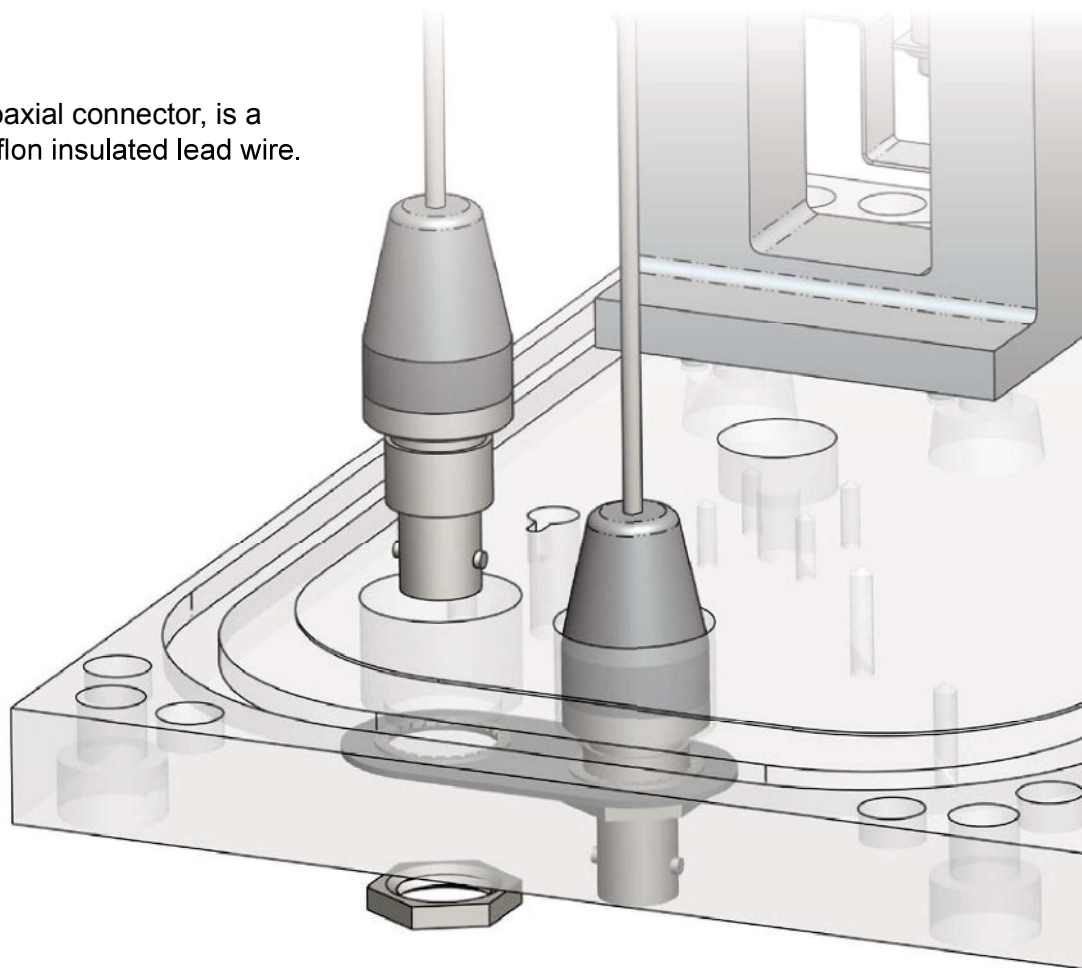


Item	P/N	Description	OEMs	Qty
1	82455	Flat Washer, #4, .032 Thick, SST	1412200400	6
2	82523	Fitting, Union, 1/4", SST	340806	1
3	82682	Electrical, Weather-Proof Miniature 5 Amp MHV Coaxial Connector	5100024	2
4	82788	FHPS, 4-40 X 1/4", 82°	No OEM Reference	4
5	83581	O-Ring, -011, BUNA-N	No OEM Reference	1
6	99369	Electron Shower Insulator	17116930	1
7	99370	Electron Shower Shield, Graphite	17121720	1
8	99389	Gas Tube Feed-Thru Assembly	17107970	1
9	99391	Terminal Wire Assembly	No OEM Reference	As Needed
10	99371A	Electron Shower Housing Liner, 3.03" OD With Polished ID	17135430	1

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

P/N 99464

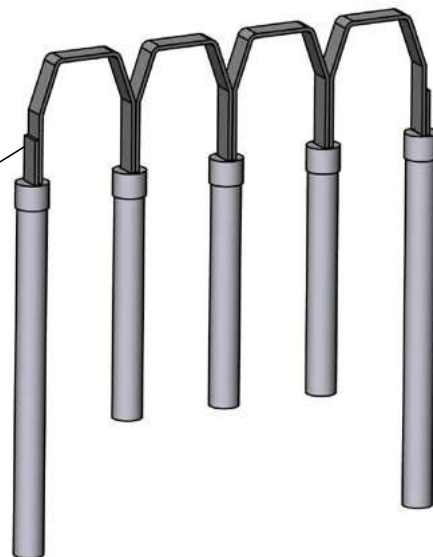
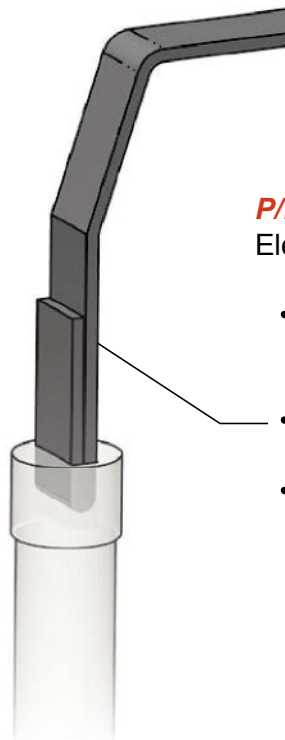
This 5 amp mini-MHV coaxial connector, is a Glemco design with a teflon insulated lead wire.



P/N 99033

Electron Shower Filament

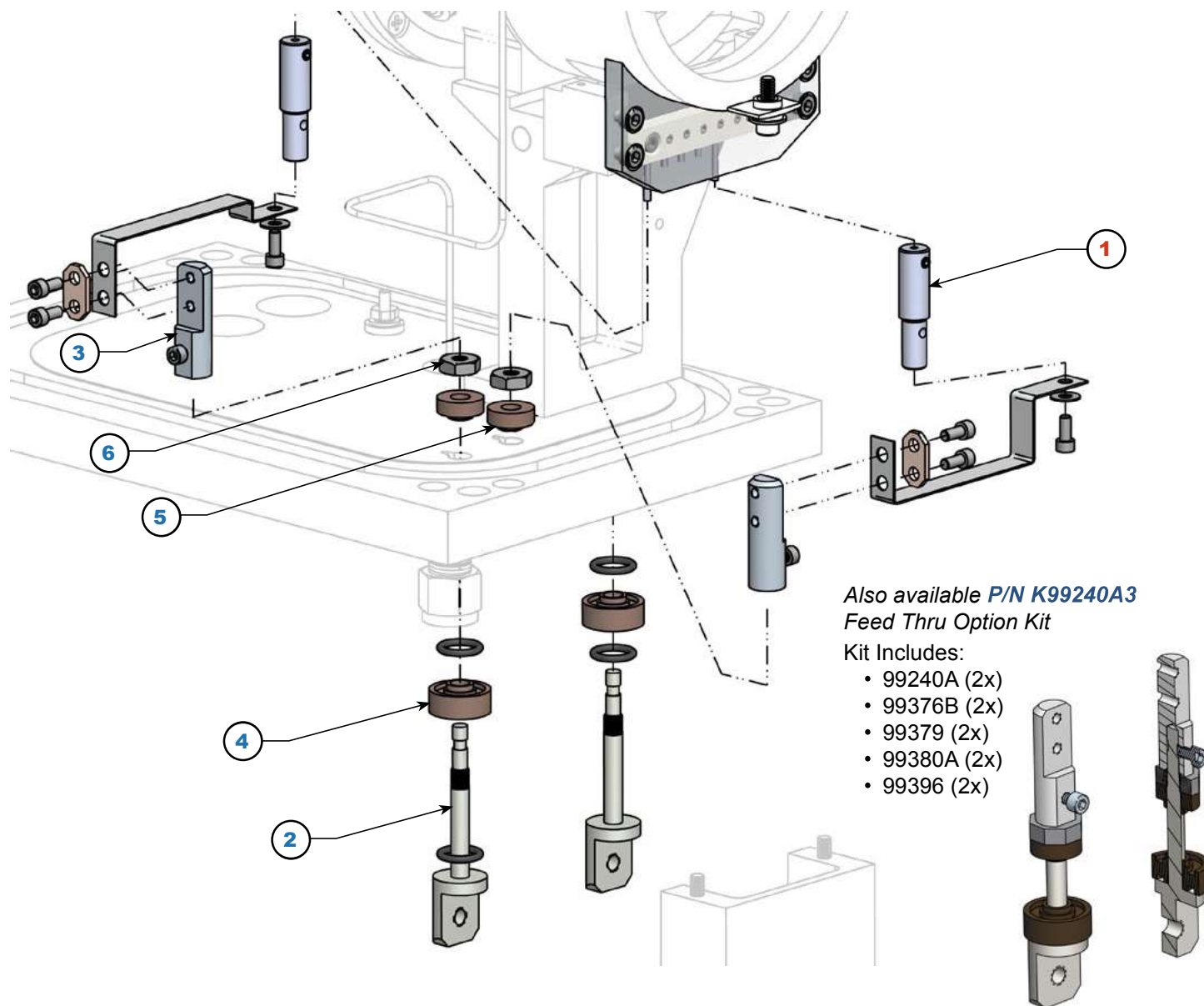
- High pressure mechanical crimping over complete circumference
- Precisely bent one piece tungsten wire form
- Designed to easily slide into an insulator block without manipulation.



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



Glemco Customized Design Feed -Thru Options



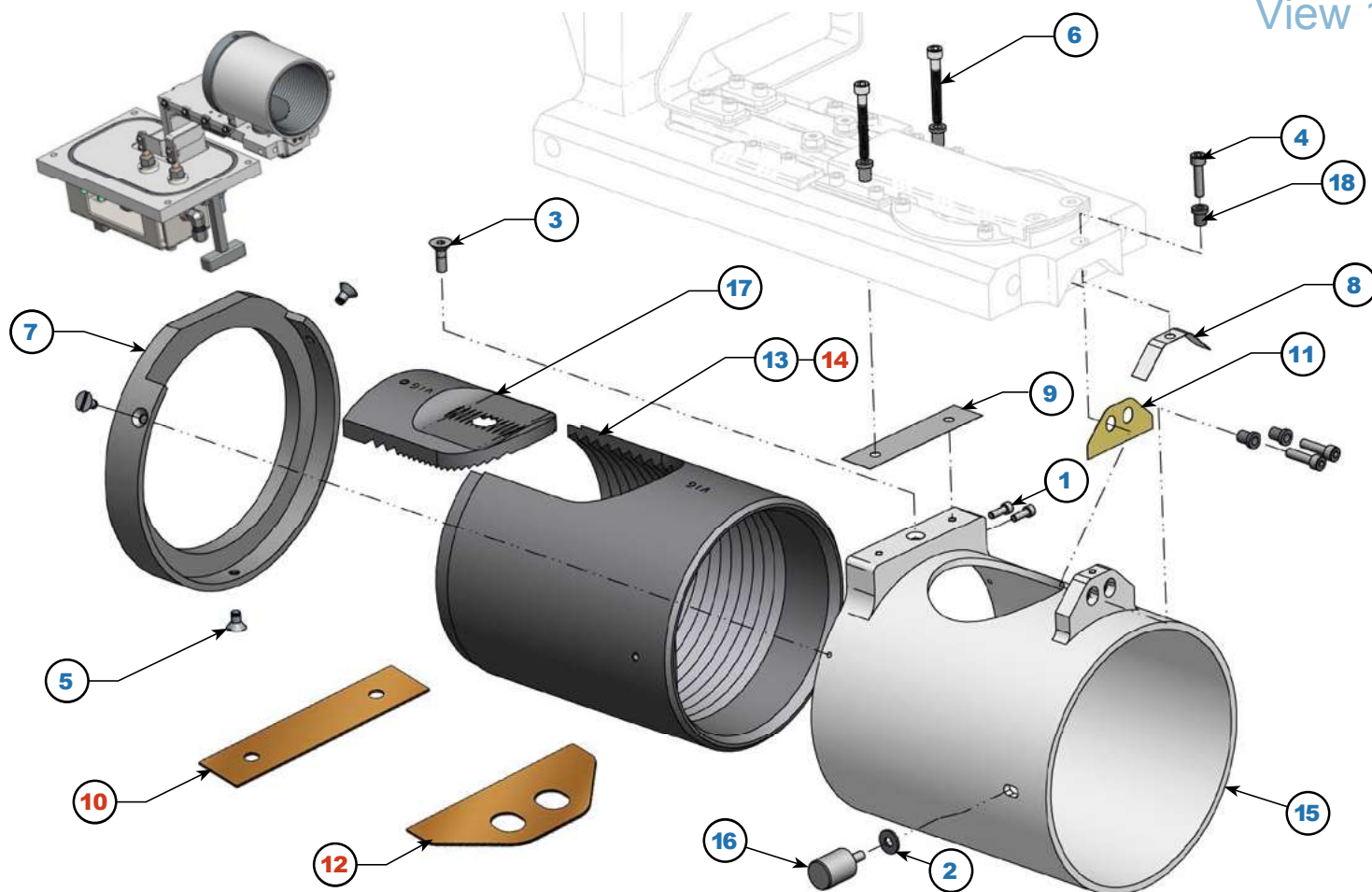
Item	P/N	Description	OEMs	Qty
1	99093A	1 Piece Filament Mount, Nickel	1718960 Modified	2
2	99240A	Electron Shower Feed-Thru	No OEM Reference	2
3	99376B	Strap Mount	17S1597	2
4	99379	Feed-Thru Insulator	17S4891 REV A	2
5	99380A	Spacer, Vespel®	No OEM Reference	2
6	99396	Feed-Thru Nut, 10-32	17S1354	2

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



Eaton GSD ELS Plasma Shower Assembly 99540 – OEM 11013880

View 1



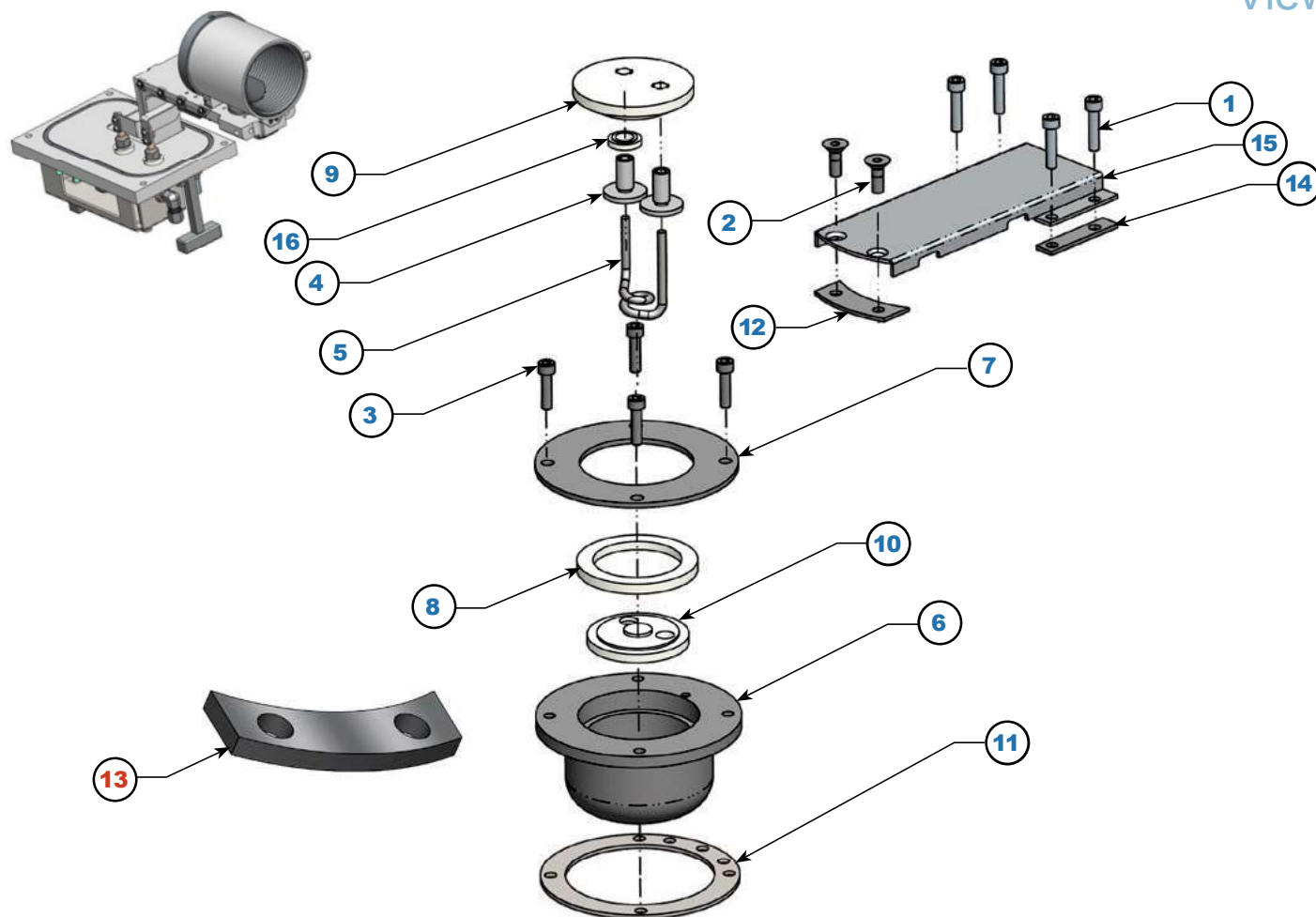
Item	P/N	Description	OEMs	Qty
1	82382	Socket Head Cap Screw, 2-56 X 1/4", SST	4400120	2
2	82455	Flat Washer, #4, .032 Thick, SST	1412200400	1
3	82580	FHSS, 4-40 X 3/8", 18-8 SST	4400208	1
4	8A123	SHCS, .112 X .438, 4-40 X 7/16", 18-8 SST	No OEM Reference	3
5	8A125	Flat Head Screw, 4-40 X 1/8", 18-8 SST	4400683	3
6	8A126	SHCS, .112 X .875, 4-40 X 7/8", 18-8 SST	No OEM Reference	2
7	99490	Plasma Shower Tube Ring	17249700	1
8	99503	Tube Potential	17243830	1
9	99504	Rectangular Potential	17243440	1
10	99504A	Rectangular Potential, Special	17243440	
11	99505	Half-Octagonal Potential	17243450	1
12	99505A	Half-Octagonal Potential, Special	17243450	
13	99509	Plasma Shower Tube Liner	17135960	1
14	99509V	Plasma Shower Tube Liner, VIG	17135960	
15	99510	Plasma Shower Tube Cover	17242360	1
16	99514	Screw Insulator	17269310	5
17	99522	Plasma Shower Tube	17242410	1
18	99526	Knurled Thumb Screw	No OEM Reference	1

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



Eaton GSD ELS Plasma Shower Assembly 99540 – OEM 11013880

View 2



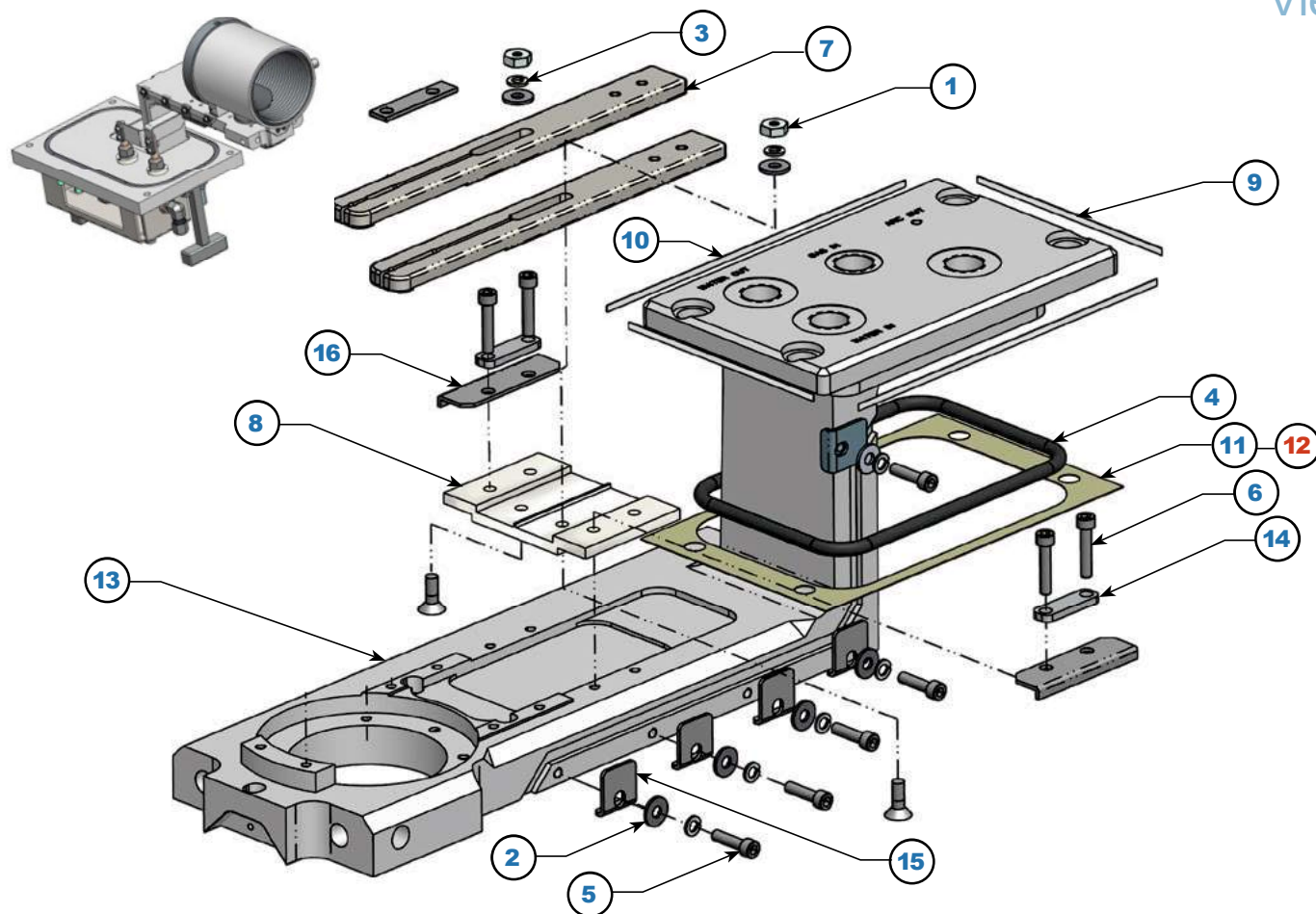
Item	P/N	Description	OEMs	Qty
1	82389	SHCS, Socket Head Cap Screw, 4-40 X 1/2", SST	No OEM Reference	4
2	82580	FHSS, Flat Head Socket Screw, 4-40 X 3/8", SST	4400208	2
3	8A123	SHCS, Socket Head Cap Screw, 4-40 X 7/16", SST	No OEM Reference	4
4	99310	Filament Screw	17B5814	2
5	99311	Filament	17263200	1
6	99491	Plasma Shower Cup	17234200	1
7	99493	Retaining Ring	17234180	1
8	99494	Filament Bottom Ring	17248060	1
9	99495	Filament Bottom Support	17248070	1
10	99496	Filament Locating Plate	17248090	1
11	99499	Cup Gasket	17242340	1
12	99500	Heat Shield Gasket	17253420	1
13	99500A	Heat Shield Gasket, Special	17253420	
14	99501	Heat Shield Gasket	17242440	2
15	99521	Tabbed Shield, Plasma Shower	17253280	1
16	99532	Filament Insulator	17248080	1

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



Eaton GSD ELS Plasma Shower Assembly 99540 – OEM 11013880

View 3



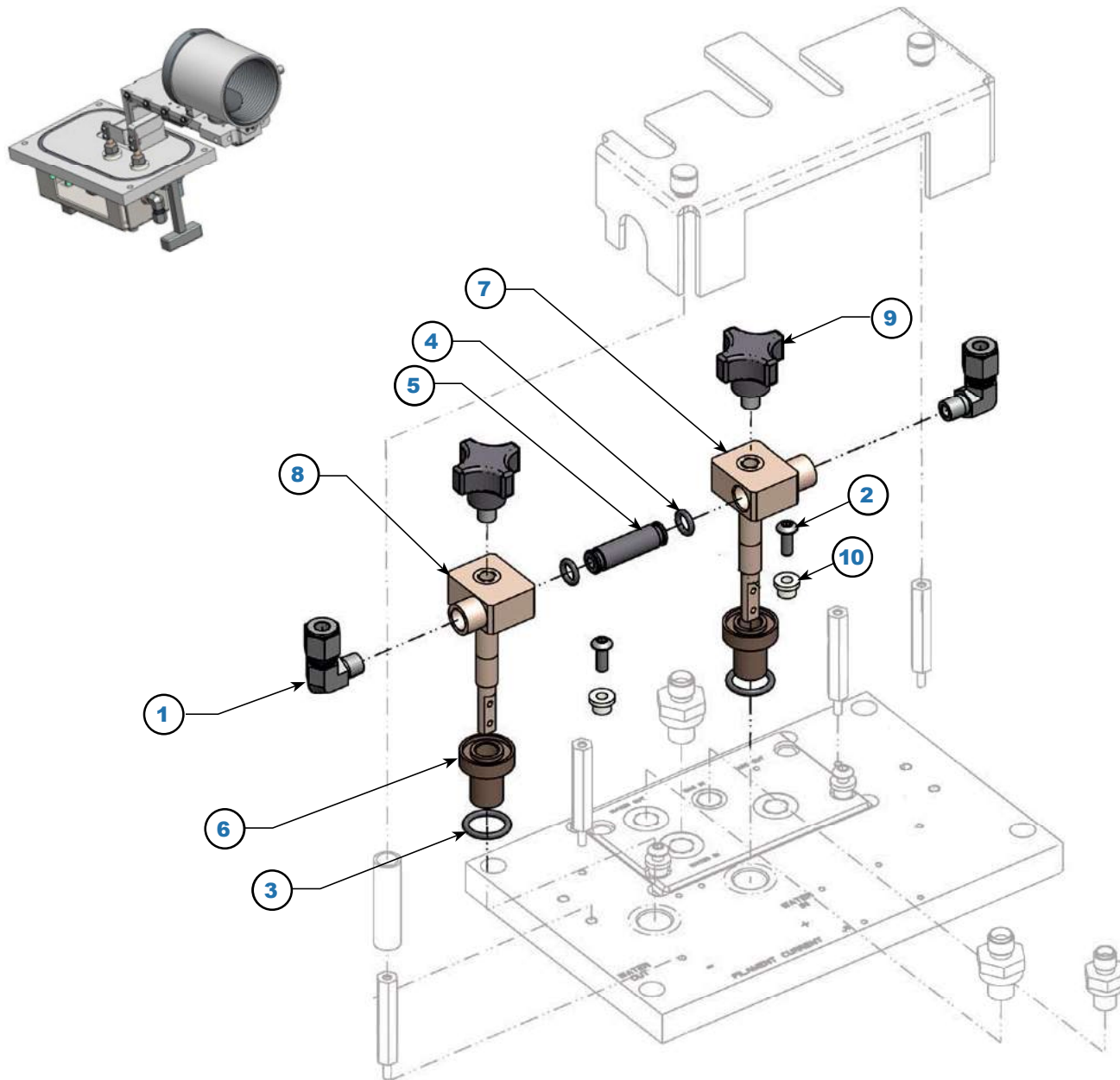
Item	P/N	Description	OEMs	Qty
1	82294	Hex Nut, 4-40, 18-8 SST	5053-0001-0042	2
2	82455	Washer, Flat, #4, .032 Thick, SST	1412200400	7
3	82601	Regular Lock Washer Spring, #4, .120 Id, .209 OD, .025 Thick	48K00033	7
4	83137	O-Ring, -237, Buna-N	E35000088	1
5	8A123	SHCS, Socket Head Cap Screw, 4-40 X 7/16", SST	No OEM Reference	5
6	8A124	SHCS, Socket Head Cap Screw, 4-40 X 9/16", SST	No OEM Reference	4
7	99492	Filament Clamp	17254090	2
8	99502	Clamp Isolator	17234240	1
9	99506	Short Base Plate Gasket	17247750	2
10	99507	Long Narrow Gasket, Base Plate	17247740	2
11	99508	Base Plate Gasket - Adhesive Backed, Kapton® Film	17247730	1
12	99508A	Base Plate Gasket - Non Adhesive Backed, Kapton® Film	17247730	
13	99517	Plasma Shower Bracket	17231600	1
14	99525	Narrow Tab	17243390	2
15	99527	Small Strap	17265500	5
16	99563	Shield, Clamp Isolator	No OEM Reference	2

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



Eaton GSD ELS Plasma Shower Assembly 99540 – OEM 11013880

View 4



Item	P/N	Description	OEMs	Qty
1	82528	Fitting, Male Elbow, 1/4" Tube, 1/8 NPT, SST	5869-0001-0006	2
2	82643	BHSS, 10-32 x 1/2", SST	1236206008	4
3	83014	O-Ring, -114 Buna-N	3500057	2
4	83581	O-Ring, -011 Buna-N	3500213	2
5	99515	Cylindrical Insulator	17B5099	1
6	99516	Feed-Thru Insulator	17251040	2
7	99518	Feed-Thru, Left	17B5097	1
8	99519	Feed-Thru, Right	17B5098	1
9	99520	Four Arm Knob With Stud	4001587	2
10	99534	Screw Insulator	No OEM Reference	4

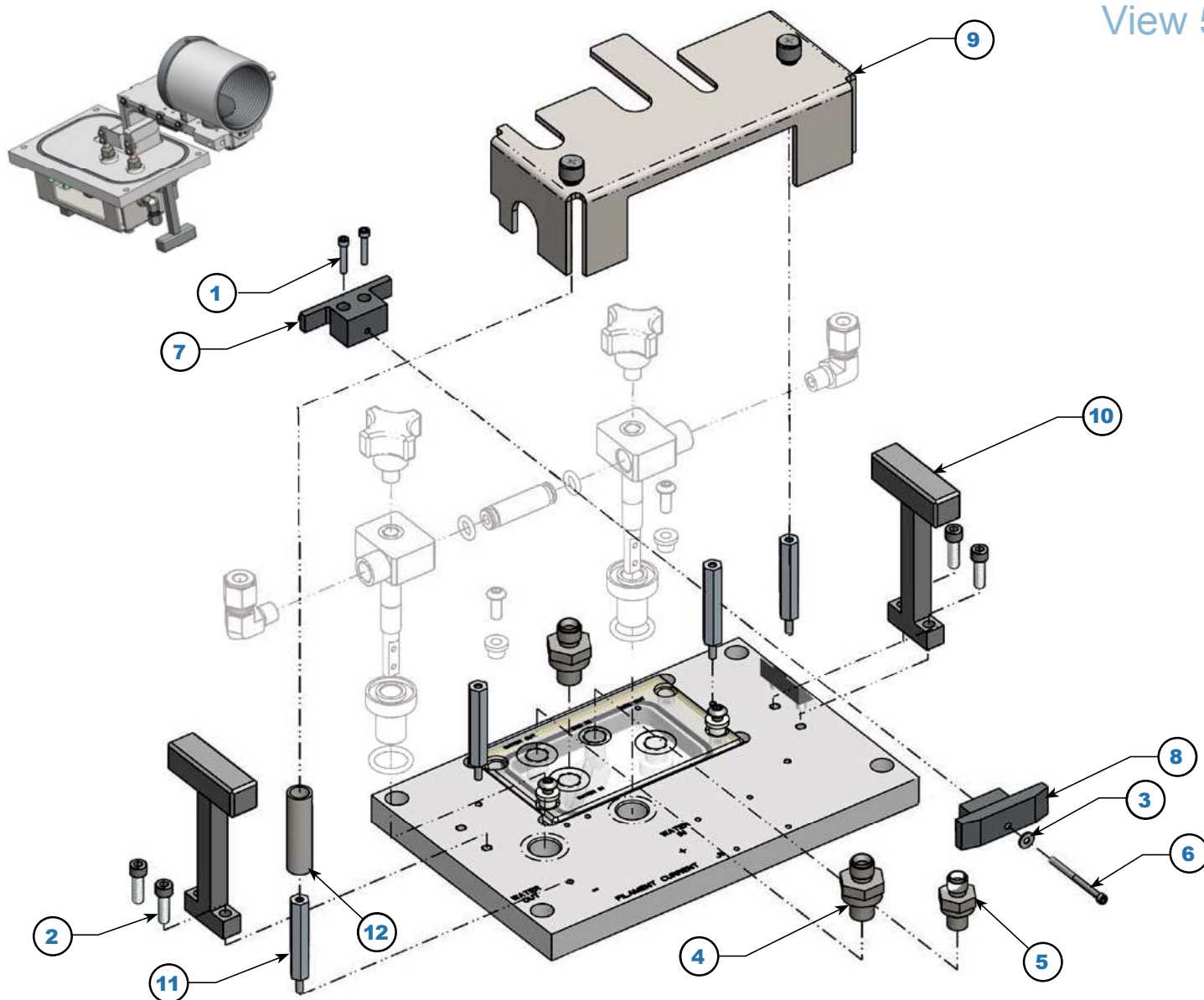
* Glemco offers improvements, modifications, or alternatives to standard OEM replacement components as indicated in red throughout this guide.



Eaton GSD ELS Plasma Shower Assembly

99540 – OEM 11013880

View 5



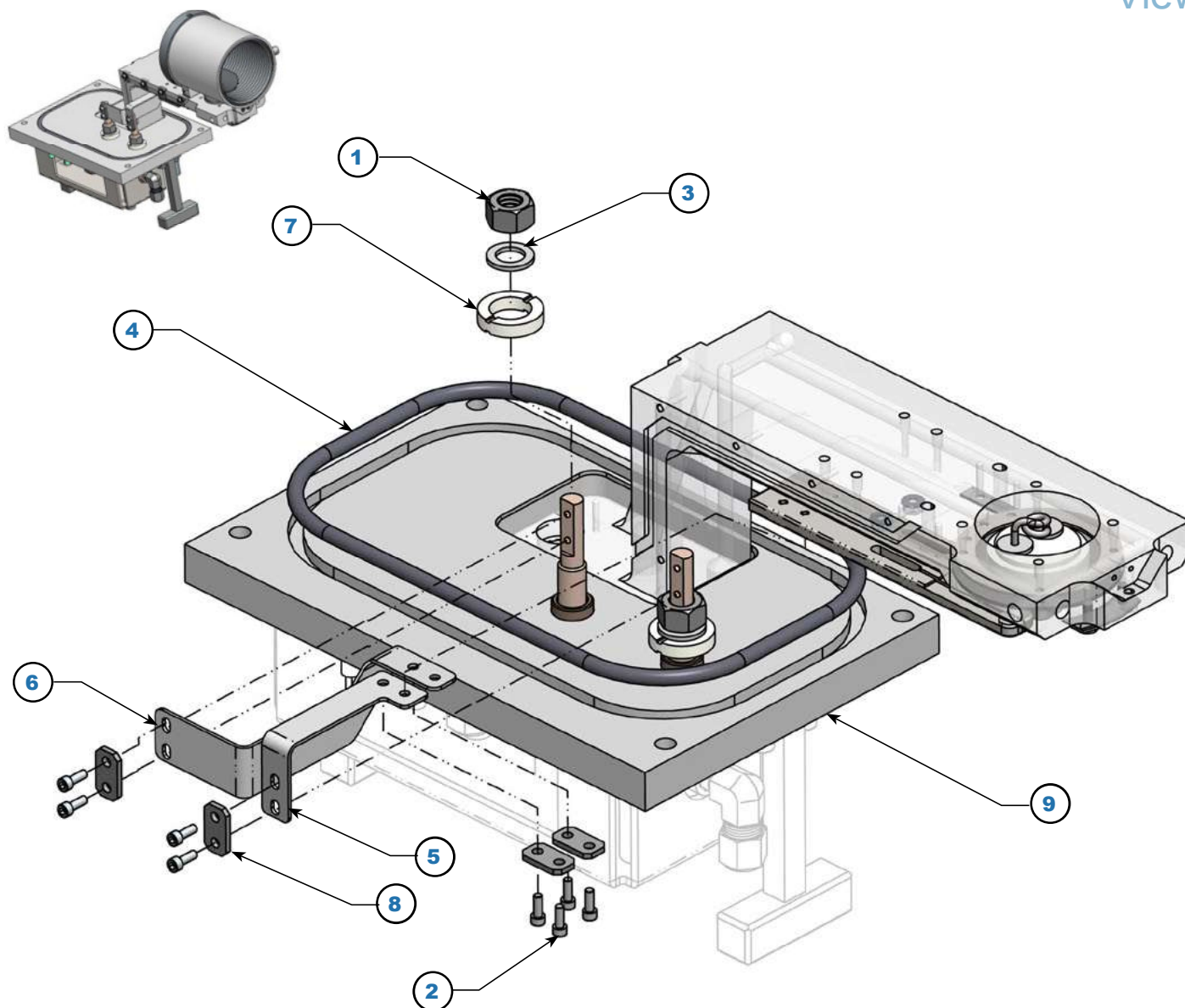
Item	P/N	Description	OEMs	Qty
1	82390	SHCS, 4-40 X 5/8", 18-8 SST	4400219	2
2	82436	SHCS, 10-32 x 5/8", 18-8 SST	E47000049	4
3	82456	Washer, #4, .028" Thick X .125" ID X .250" OD, 300 Series, SST	4400035	1
4	8A113	Fitting, Male O-Seal Connector, 1/4" Tube, 7/16-20 Thread, -111 O-Ring	No OEM Reference	2
5	8A114	Fitting, Male O-Seal Connector, 3/16" Tube, 3/8-24 Thread, -112 O-Ring	No OEM Reference	1
6	8A122	SHCS, 4-40 X 1-1/2", 18-8 SST	44S0040	1
7	99511	Upper Feed-thru Isolation Block	17247760	1
8	99512	Lower Feed-thru Isolation Block	17247770	1
9	99523	Cover Assembly, Feed-Thru Side	17249920	1
10	99529	Handle	17249770	2
11	99530	Hex Male-Female Standoff, 5/16 Hex X 1.69 LONG, 6-32 Thread, Aluminum	No OEM Reference	4
12	99533	Hexagonal Standoff Sheath	17265240	1

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



Eaton GSD ELS Plasma Shower Assembly 99540 – OEM 11013880

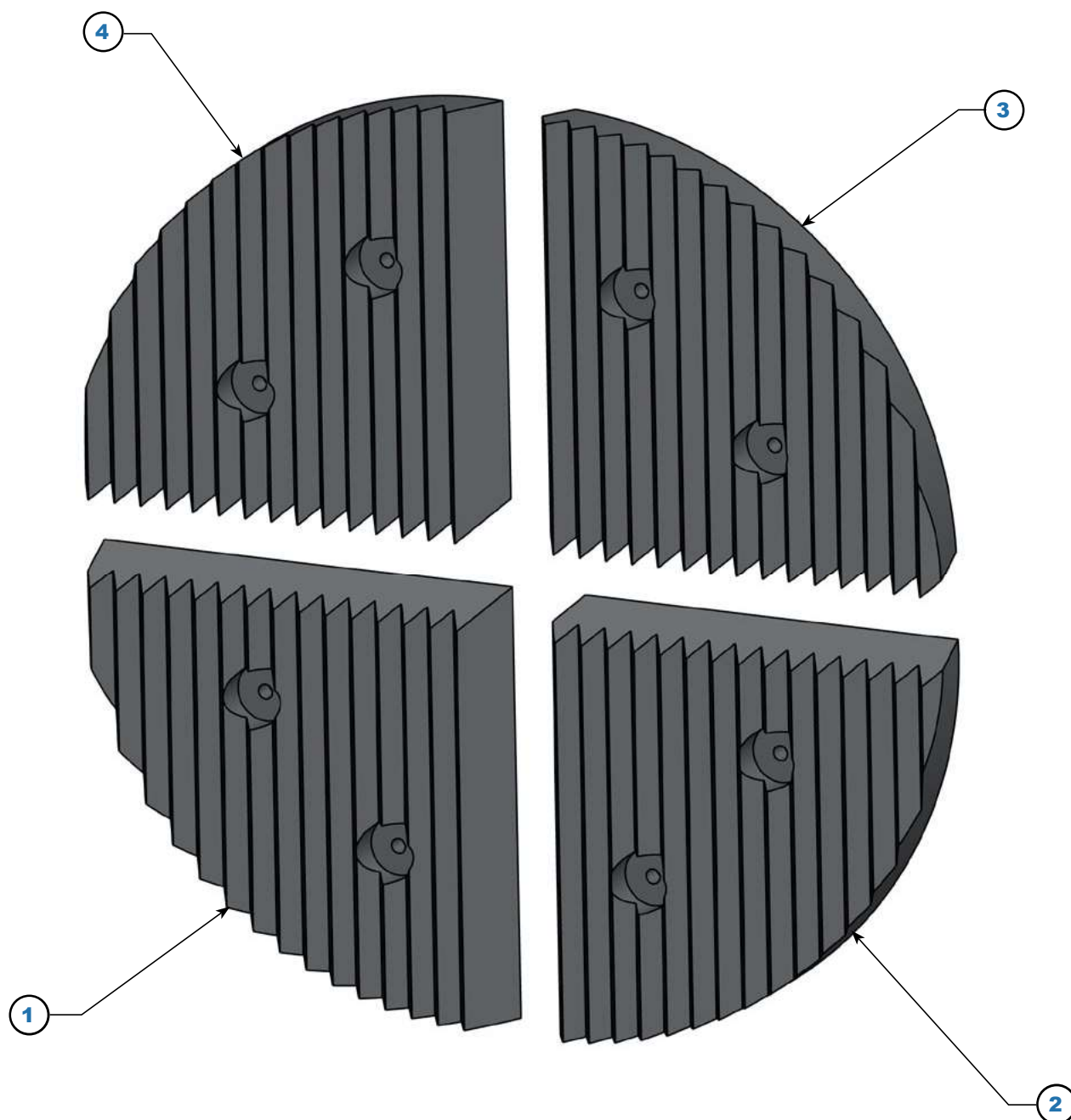
View 5



Item	P/N	Description	OEMs	Qty
1	82321	Hex Nut, .375, 3/8-16, 18-8 SST	No OEM Reference	2
2	84228	SHCS, 4-40 X 5/16, 18-8 SST	4400873	8
3	8A112	Washer, Narrow, .390 ID X .625.063 Thick, 18-8 SST	No OEM Reference	2
4	8A120	O-Ring, -.390, Buna-N	E35000186	1
5	99497	Small Flexible Connector	17234220	1
6	99498	Large Flexible Connector	17234230	1
7	99513	Feed-Thru Ring	17B3550	2
8	99524	Chamfered Tab	17B3555	4
9	99528	Plasma Shower Base	17234190	1

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

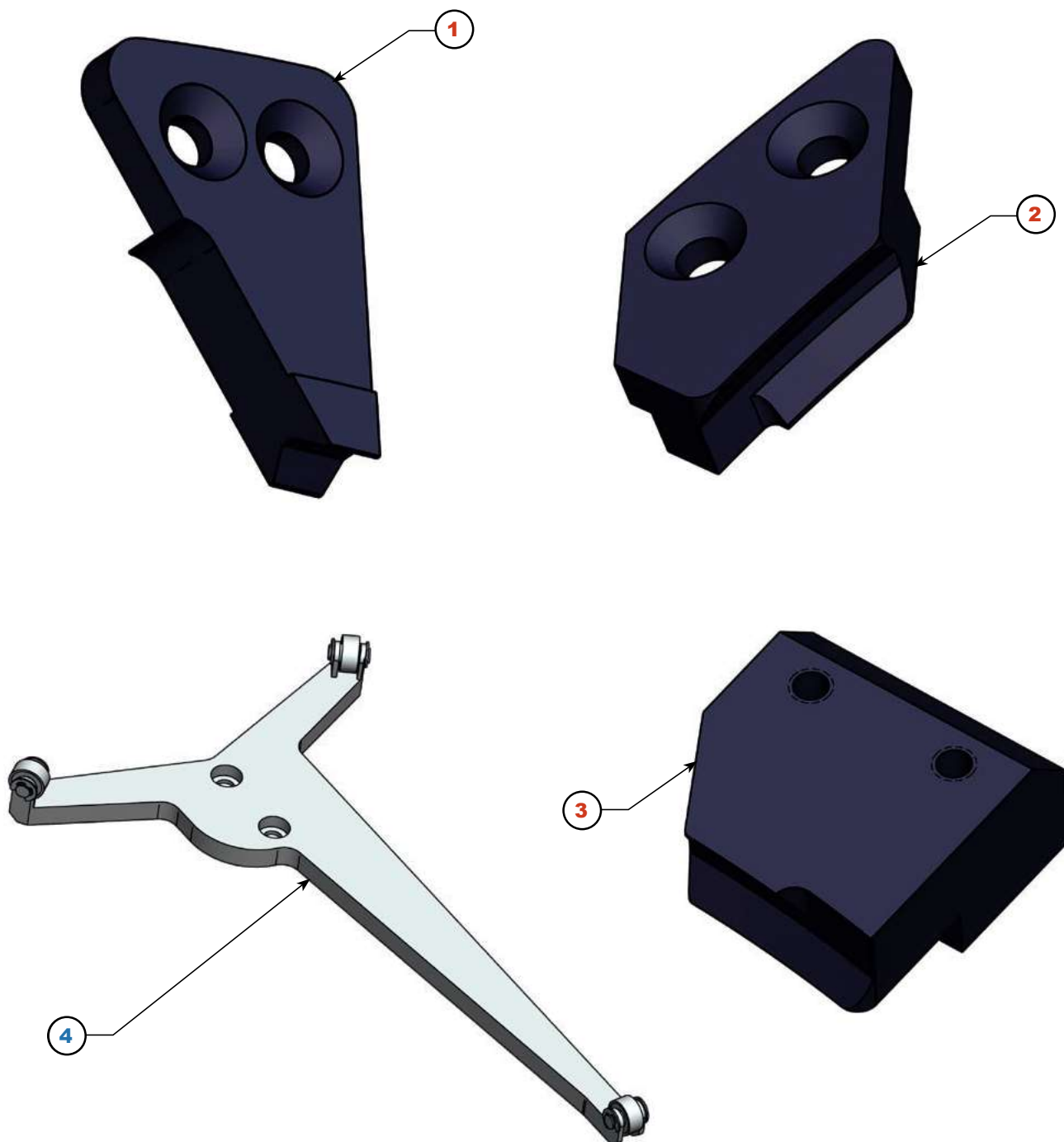
Faraday Discs Assembly



Item	P/N	Description	OEMs	Qty
1	99483	Faraday Strike Plate, Disc 1	17182570	1
2	99484	Faraday Strike Plate, Disc 2	17182580	1
3	99485	Faraday Strike Plate, Disc 3	17182590	1
4	99486	Faraday Strike Plate, Disc 4	17182600	1

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

End Station Components



Item	P/N	Description	OEMs
1	99568C	No. 1 - Wafer Arm Guide, 150mm, ESD Conductive Material	17096730
2	99686C	No. 2 - Wafer Arm Guide, 150mm, ESD Conductive Material	17096740
3	99688C	No. 3 - Wafer Arm Guide, 150mm, ESD Conductive Material	17096750
4	99902A	Unclamber Roller Assembly	1180490

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