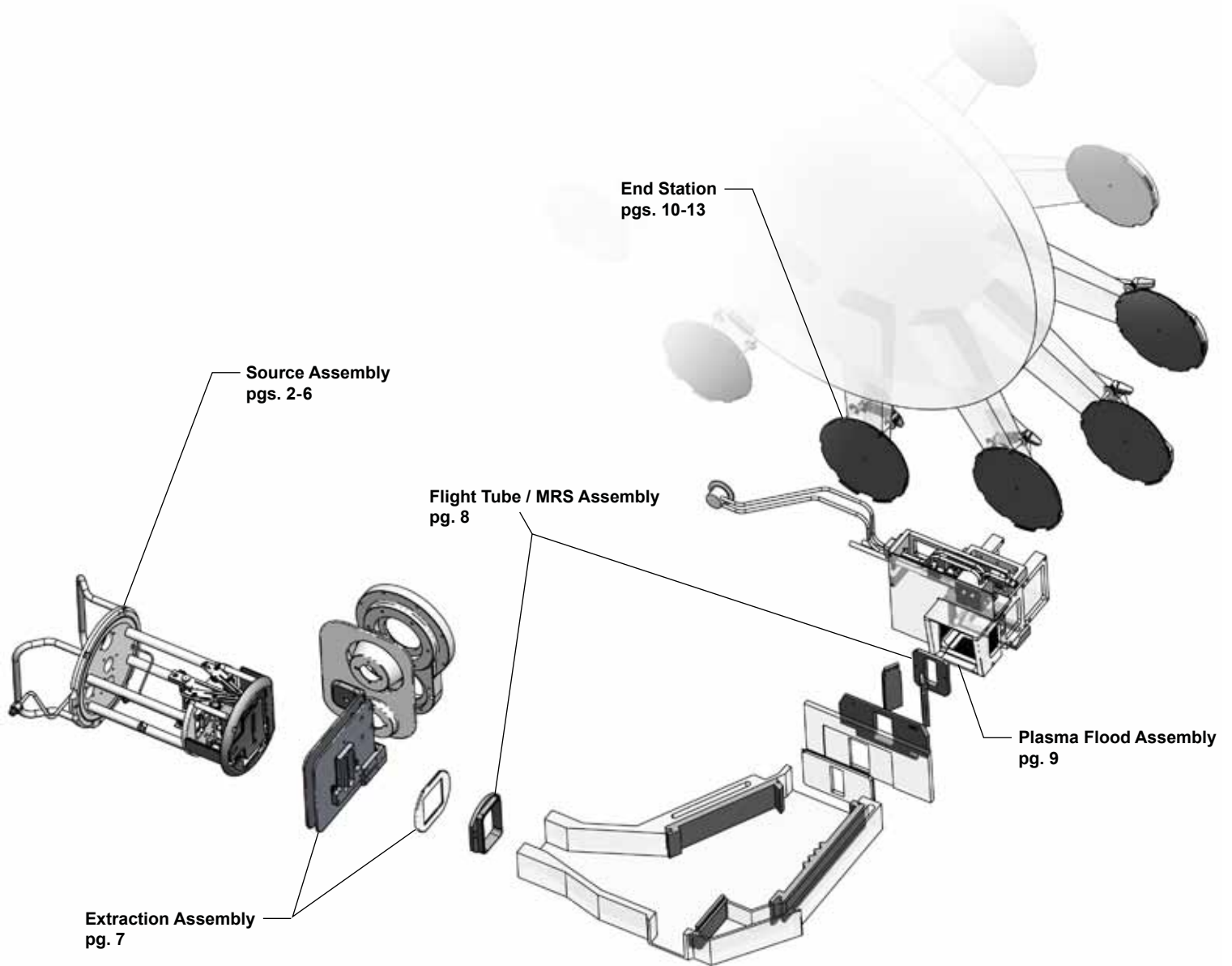
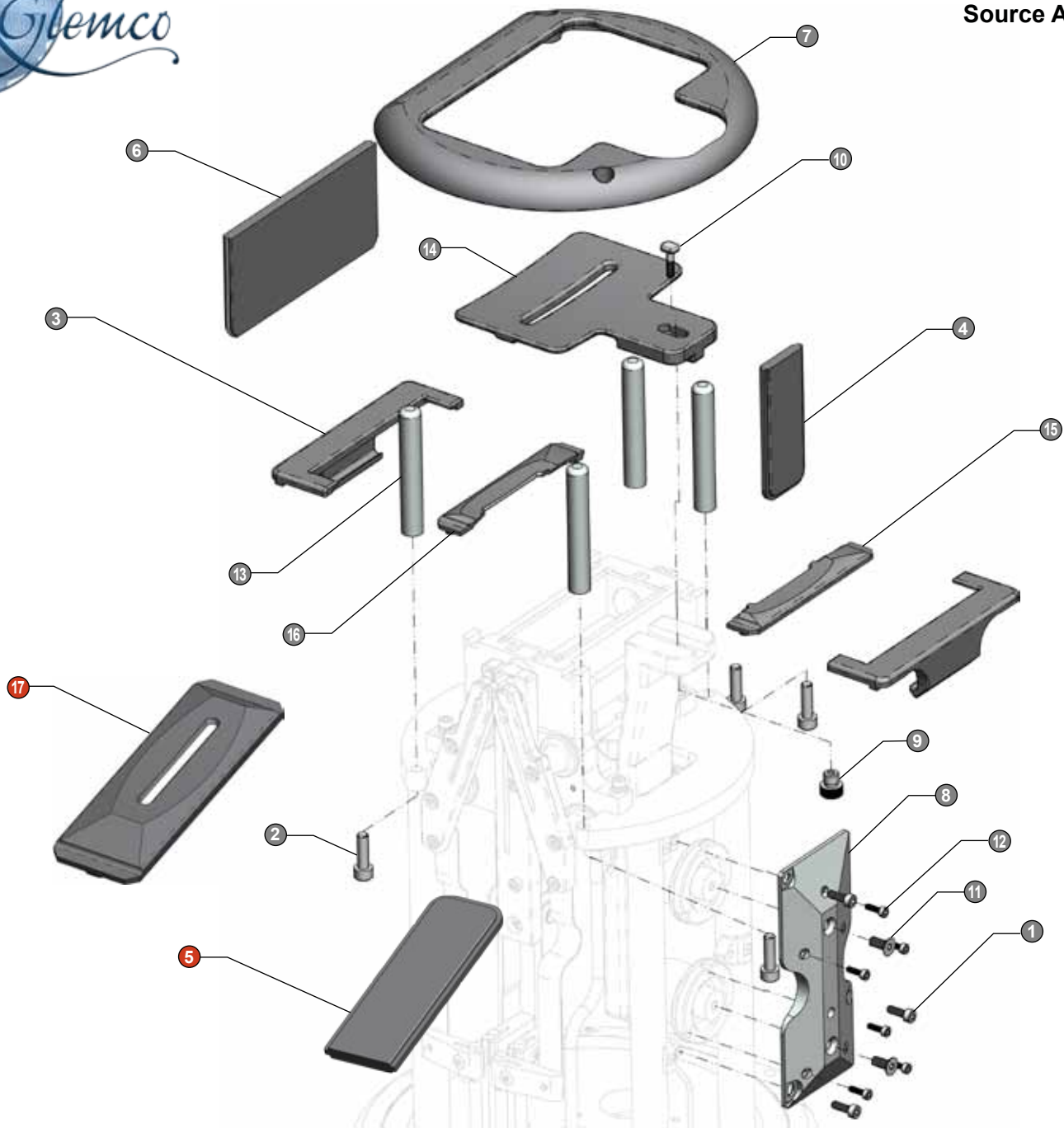




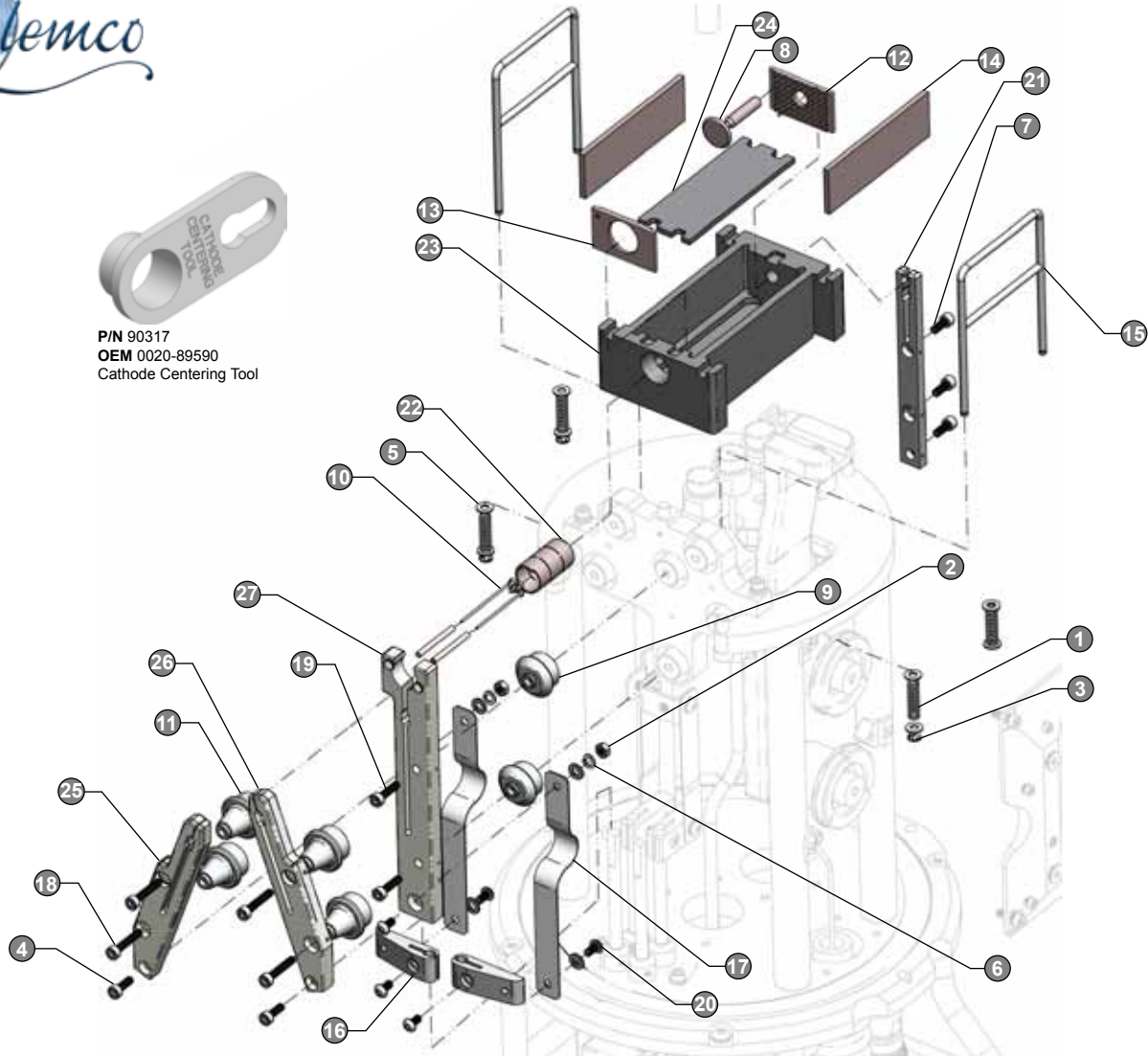


Item	P/N	Description	OEM	QTY
1	82405	SHCS, M4 X 12mm, SST	3690-90358	11
2	82712	VSHCS, M6 X 20mm, SST	3690-90837	4
3	90164	Retainer, Hook, Graphite	0021-90036	2
4	90195	Shield, Cooled Tube, Longitudinal	0020-17563	1
5	90195A	Shield, Longitudinal	0020-08882	
6	90196	Shield, Cooled Tube	0020-17562	1
7	90197	Shield, Cooled Tube, Graphite	0020-17452	1
8	90294	Mount, Insulator	0020-01484	1
9	90309	Nut, G2	0020-06274	1
10	90311	Screw, G2	0020-06273	1
11	8B096	M5 X 12mm, FH Socket, Vented SST	3690-91261	2
12	8B097	M3 X 10mm SHCS, SST	3690-90326	10
13	90073A	Post Protection	0020-85544	4
14	90152A	Issue A Electrode, G2, Adjustable	0020-29371	1
15	90162A	Front Plate, R/H, R550, 1.25 Deep, QIII	0020-25516	1
16	90163A	Front Plate, L/H, R550, 1.25 Deep, QIII	0020-25505	1
17	90177A	Front Plate, One Piece, 550 mm, Graphite	0021-90787	

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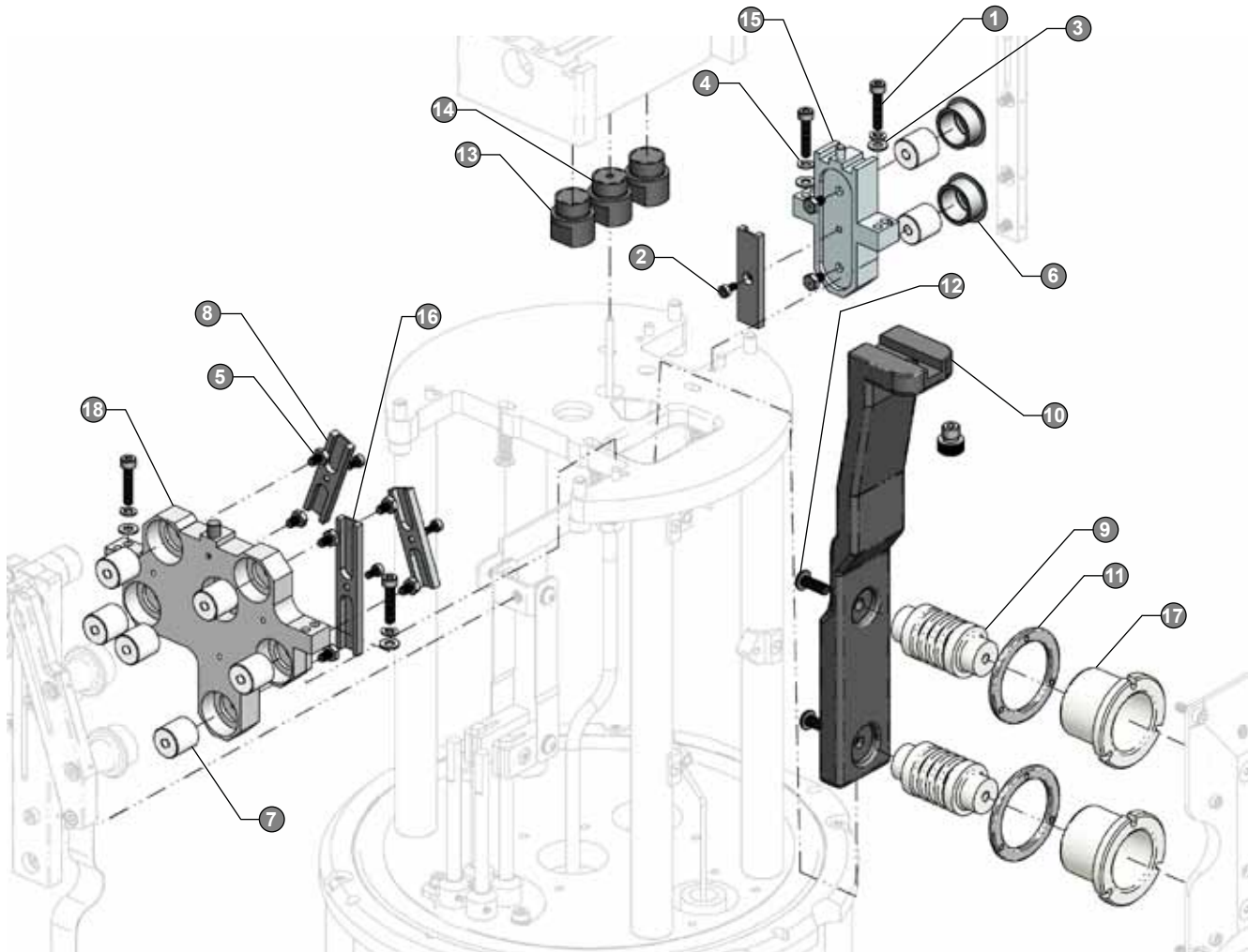


P/N 90317
OEM 0020-89590
Cathode Centering Tool



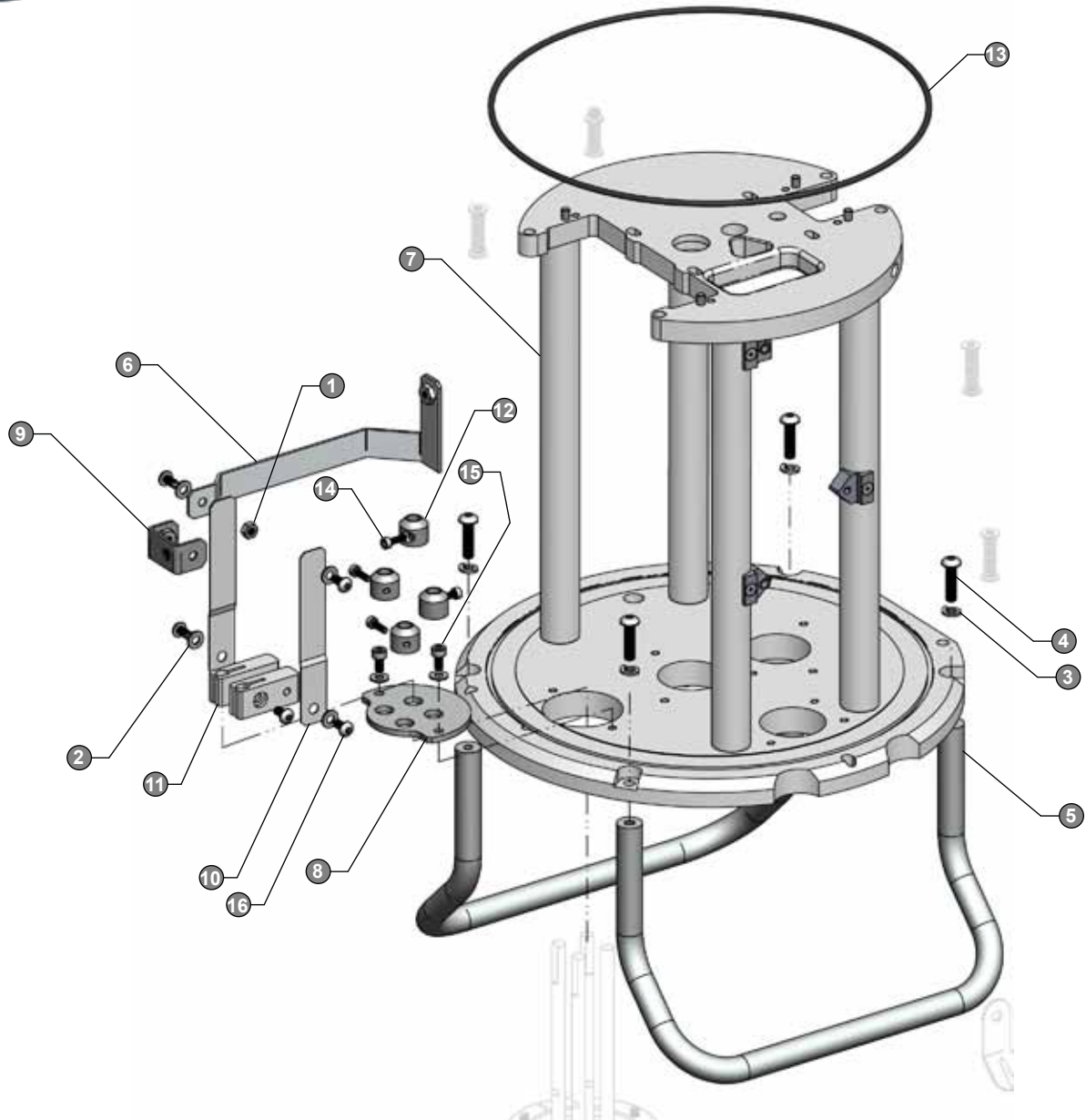
Item	P/N	Description	OEM	QTY
1	82057	Compression Spring .240OD X .880 SST	3780-90110	4
2	82291	M4 Hex Nut SST	3500-90021	3
3	82345	Retaining Ring, SST	0690-90188	4
4	82405	SHCS, M4 X 12 MM, .7 Pitch, SS18-8, Cap Screw	3690-90358	11
5	82457	M4 Flat Washer, SST	3880-90021	29
6	82615	Washer, Lock, M4 Reg. Spring 4.4 MM	No OEM Reference	18
7	82741	VSHCS, M4 X 10MM	No OEM Reference	3
8	90059	Anti-Cathode, Tungsten	0020-81482	1
9	90069	Insulator Shield	0020-85362	4
10	90156	Filament	0020-86735	1
11	90157	Standoff, Insulator	0020-86933	1
12	90159	Anti-Cathode End Liner, Tungsten	0020-25733	1
13	90160	Cathode End Liner, Tungsten,	0020-25777	1
14	90171	Liner, Side, Tungsten	0020-86738	2
15	90191	Support Wire	0020-89991	2
16	90302	Clamp, Strap, 4 Pin Feed Thru Long	0020-18693	2
17	90304	Long Silver Strap	0020-18692	2
18	8B049	SHCS,M4 X 0.7X 22mm Long 18-8 SST	0020-85806 REF.	4
19	8B101	M4 X 16mm SHCS Vented SST	0020-85806	2
20	8B107	M4 X 8mm BH, SST	3690-90635	11
21	90068NT	Anti-Cathode Clamp	0020-80070	1
22	90158A	Cathode, Slotted	0020-47909	1
23	90166A	Arc Chamber, Q2/Q3	0020-21355	1
24	90170A	Liner, Base Plate, Q3 End Vent	0020-25729	1
25	90263BNT	Filament Clamp, Left Hand	0020-43058	1
26	90264BNT	Filament Clamp, Right Hand	0020-43057	1
27	90265NT	Cathode Support Plate	0040-96352	1

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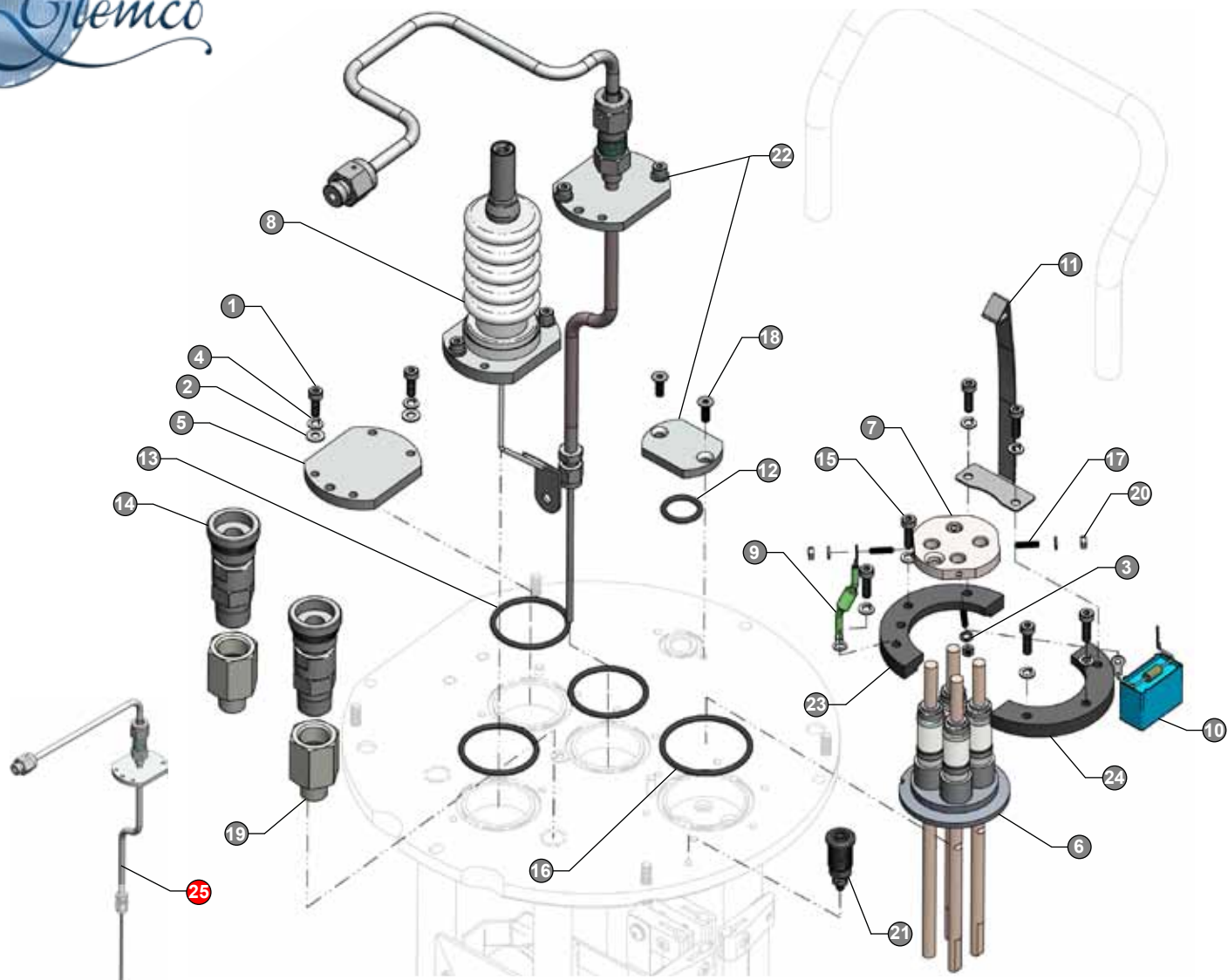
Item	P/N	Description	OEM	QTY
1	82396	SHCS M4 x 20 mm .7 Pitch SST	3690-90360	4
2	82402	M3 X 6mm, .5 pitch, 18-8 SST, SHCS	No OEM Reference	4
3	82457	M4 Flat Washer, SST	3880-90021	29
4	82615	Washer, Lock, M4 Regulr Spring 4.4mm ID, 7.6mm OD,	No OEM Reference	18
5	82710	VHS M4 x 6mm18-8 SST	3690-90839	8
6	90069	Insulator Shield	0020-98904	4
7	90070	Insulator	0020-97557	8
8	90091	Screw Retainer	0020-98920	3
9	90167	Insulator, 50mm	0040-01445	2
10	90292	Arm G2	0020-86469	1
11	90296	Retaining Ring	0020-47481	2
12	8B098	M5 X 14MM BH Vented Socket SST	3690-00803	2
13	90061-2	Plug, Arc Chamber Port	No OEM Reference	2
14	90061-3	Port, Arc Chamber Oven	0020-81226	1
15	90071A	Mounting Block Assembly, Anti-Cathode End	0040-50788	1
16	90091A	Channel, Screw Retaining, Long	0020-85462	1
17	90165A	Insulator Shield, G2, Ceramic	0020-17736	2
18	90187A	A/C Mounting Stage Cathode Side	0040-50789	1

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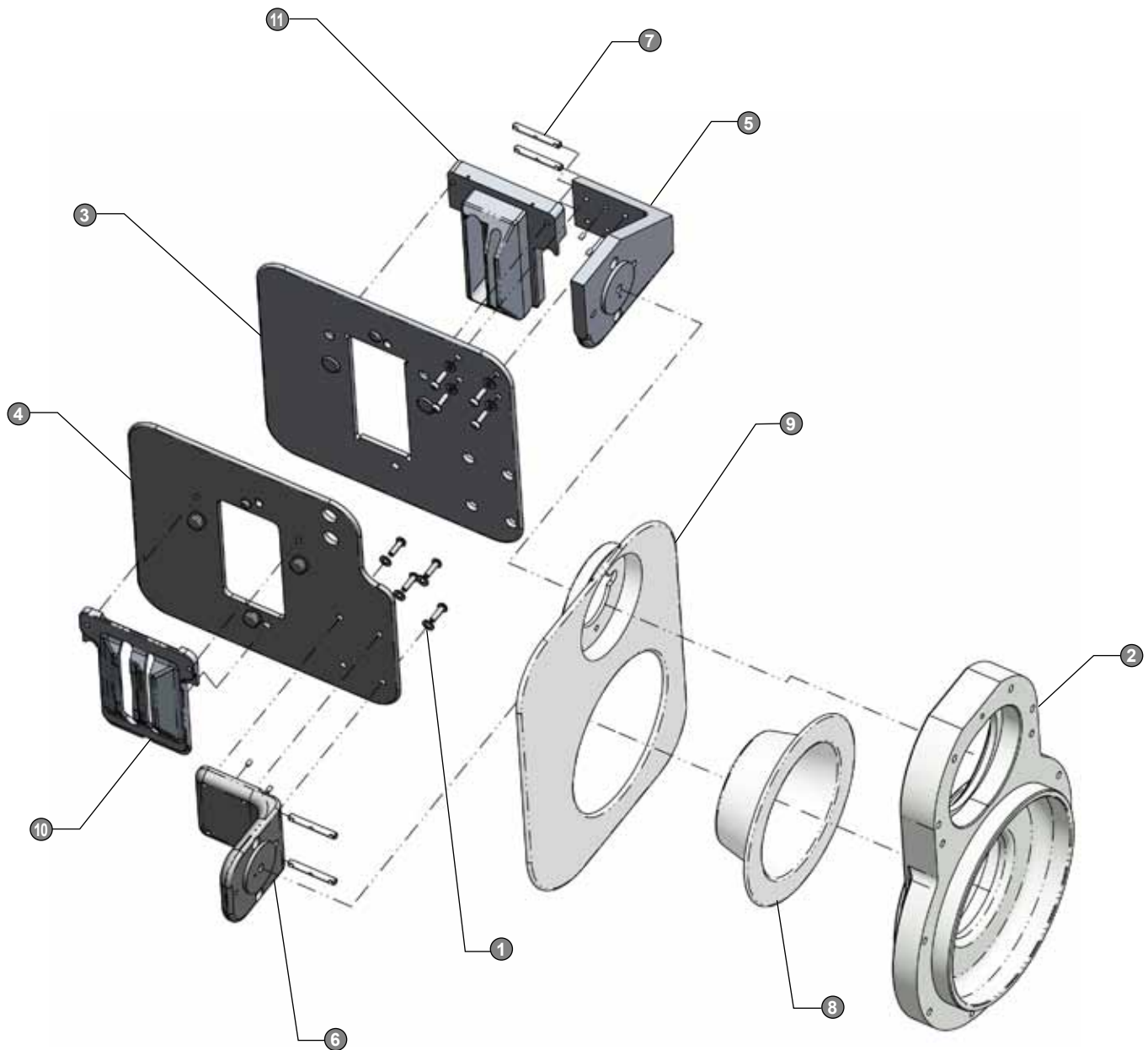
Item	P/N	Description	OEM	QTY
1	82291	M4 Hex Nut, SST	3500-90021	3
2	82457	M4 Flat Washer, SST	3880-90021	29
3	82461	Washer, M5 Spring	3880-90031	4
4	84168	BHSS M5 X 20MM,.8 Pitch,18-8	No OEM Reference	4
5	90083	Handle	0020-98907	2
6	90186	Strap, Link, Anti-Cathode Q3	0040-70413	1
7	90188	Body, Ion Source QIII	0040-50527	1
8	90298	Shield Insulator 4 Pin	0020-46889	1
9	90300	Bracket, Cathode Strap Support	0040-70414	1
10	90303	Short Silver Strap	0020-47082	2
11	90307	Clamp, Strap, 4PIN Feed Thru Square	0020-47034	2
12	90312	Collar, 4 Pin Feed-Thru	0020-25549	4
13	83072V	O-Ring, -172, Viton, 8-1/4 ID, 8-7/16 OD, 3/32 W	No OEM Reference	1
14	8B097	M3 X 10MM SHCS SST	3690-90326	10
15	8B105	M4 X 8MM SHCS Vented	3690-90826	2
16	8B107	M4 X 8MM BH, SST	3690-90635	11

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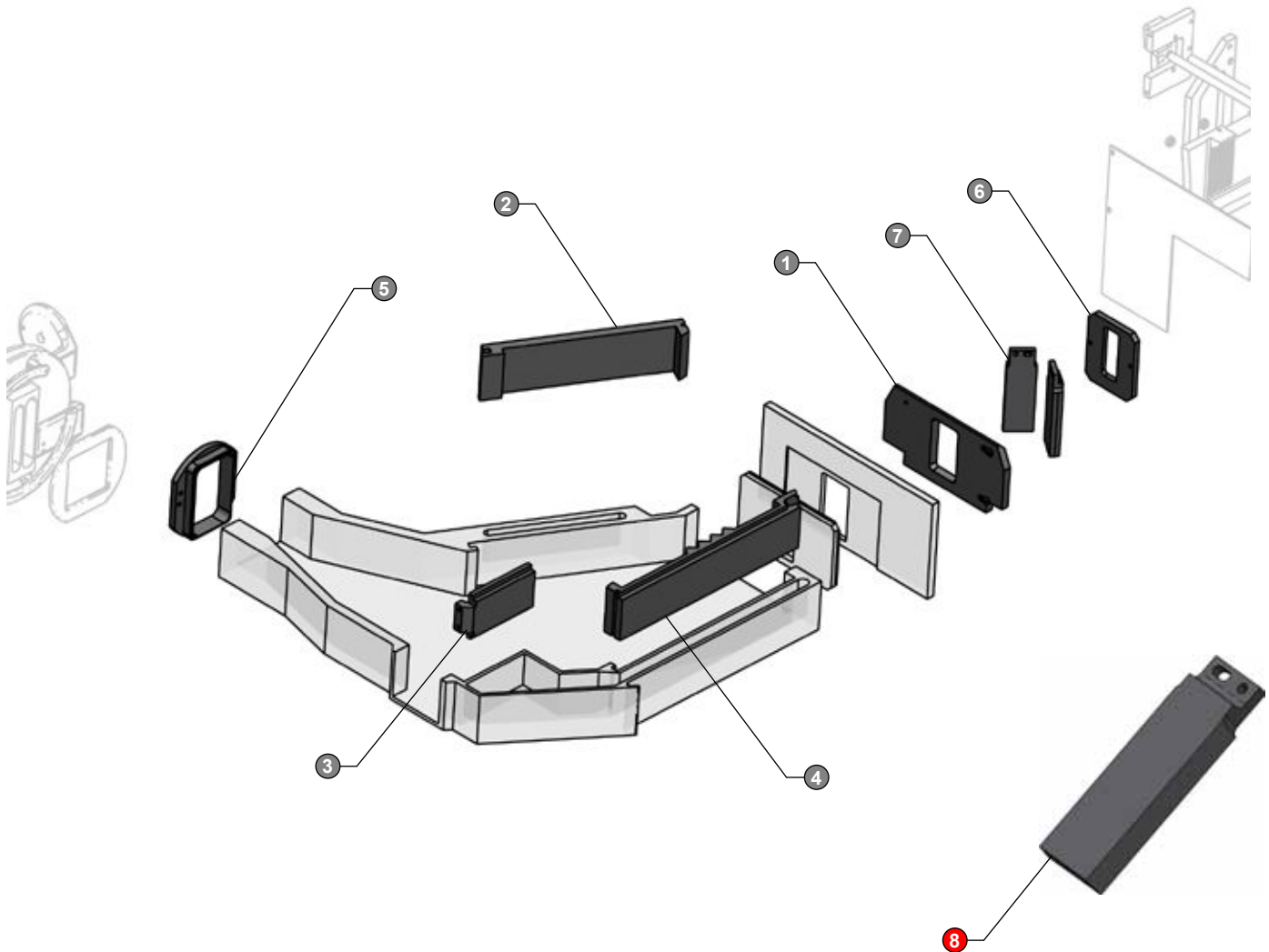
Item	P/N	Description	OEM	QTY
1	82405	SHCS, M4 X 12 mm, .7 Pitch, SS18-8, Cap Screw	3690-90358	11
2	82457	M4 Flat Washer, SST	3880-90021	29
3	82463	Washer M3, Regular Spring	3880-90029	3
4	82615	Washer, Lock, M4 Regular Spring 4.4 mm ID, 7.6 mm OD, SS 18-8	No OEM Reference	18
5	90194	Vaporizer Blank-Off	0020-50822	1
6	90293	4 Pin Feed-Thru	0020-85544	1
7	90295	Plate, Keyed Connector, 4 Pin	0020-46871	1
8	90297	30 KV Feed Thru G2	0015-01297	1
9	90306	Transorb Assembly	9150-01795	1
10	90308	Filament Protection	9150-01796	1
11	90313	Arm, Socket Connector Indicator	0020-52331	1
12	83014V	-114 O-Ring, Viton, 5/8 ID, 13/16 OD	No OEM Reference	1
13	83026V	O-Ring, -126, Viton(R), 1-3/8 ID, 1-9/16 OD, 3/32 W	3700-90183	3
14	8B050	Instrumentation Quick Connect Body, 3/8 Male NPT, SST, 0.5CV	3300-91162	2
15	8B084	M4 X 0.7 X 14mm SHCS 18-8 SST, SHCS	No OEM Reference	6
16	8B094V	-130 O-Ring, Viton	3700-90243	1
17	8B095	M3 X 12mm Cone Point Screw	3690-90256	3
18	8B099	M4 X 12mm FH Socket, SST	3690-00737	2
19	8B100	Reducer 3/8NPT(F) X 1/4 NPT(M)	3300-07074	2
20	8B112	Hex Nut, M3, SST	No OEM Reference	3
21	8B120	Banana Jack	0015-90013	1
22	90189A	Gas Line Assembly	0040-49775	1
23	90299-1	Mounting Flange Half A	No OEM Reference	1
24	90299-2	Mounting Flange Half B	No Referene	1
25	90189B	Gas Feed Tube Assembly	0040-49775	

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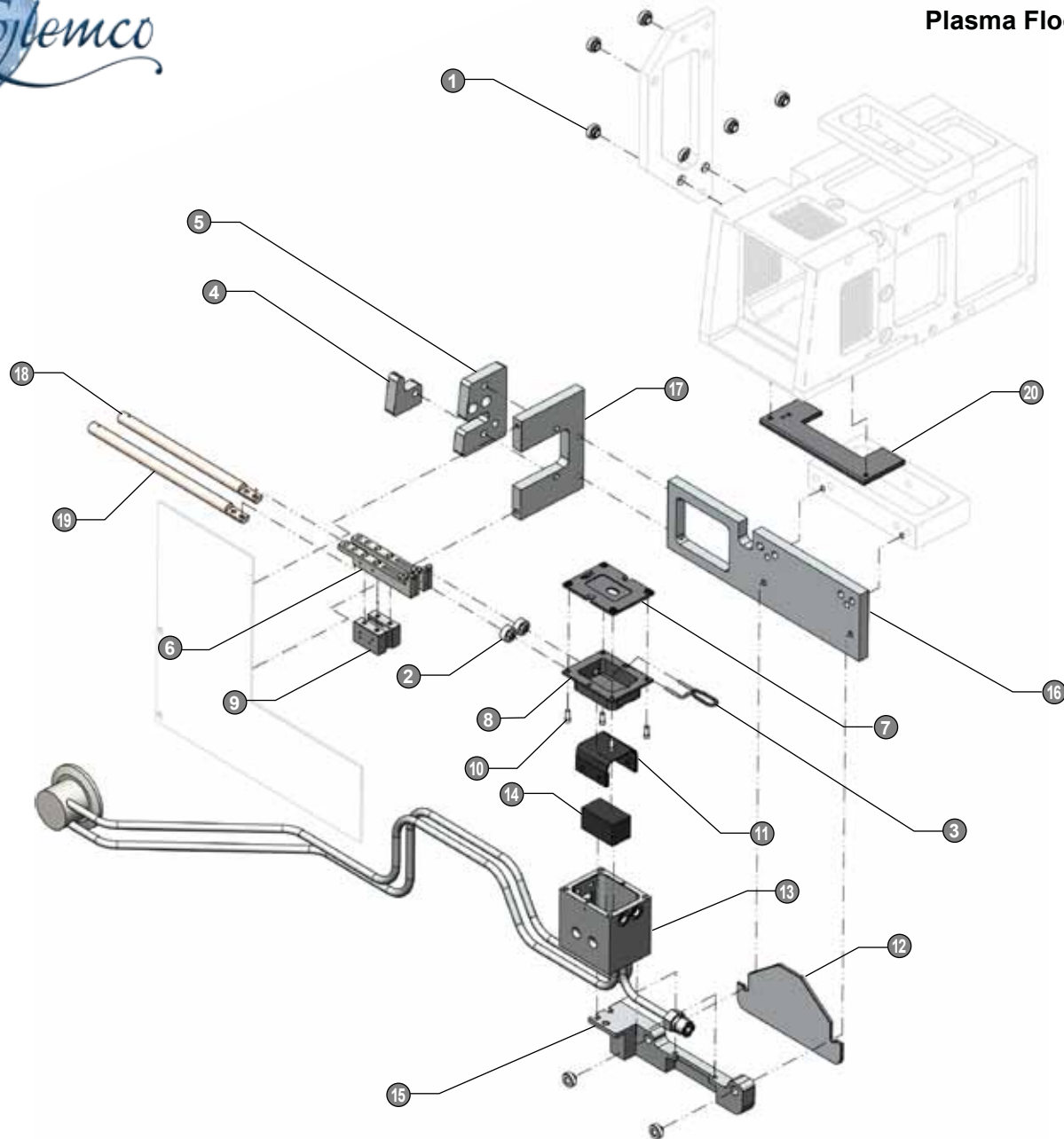
Item	P/N	Description	OEM	QTY
1	82457	M4 Flat Washer, SST	3880-90021	8
2	90184	Insulator Toplows	0020-27937	1
3	90315	G4 Holder	0040-88469	1
4	90316	G3 Holder	0040-88468	1
5	90321	Mounting Bracket	No OEM Reference	1
6	90322	Mounting Bracket	No OEM Reference	1
7	90323	Threaded Insert	No OEM Reference	4
8	90324	Shield, Top Hat, Aluminum	0020-64466	1
9	90325	Particle Shield, Aluminum	0020-64889	1
10	90151C	Electrode Suppression G3, Graphite	0020-83402	1
11	90153A	Electrode G4, Graphite	0020-83380	1

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Item	P/N	Description	OEM	QTY
1	90172	Pre MRS Slit	0020-85069	1
2	90252	Inner Insert	0020-98878	1
3	90253	Neutral Insert	0020-98879	1
4	90254	Flight Tube Insert, Outer	0020-98877	1
5	90255	Liner Clamp Plate	0020-83172	1
6	90260	Post MRS Slit - 25mm X 68mm Aperture	0020-83925 Rev. A	1
7	90257C	Vane, MRS, Graphite	0020-82810	2
8	90257A	Vane, MRS, Graphite	0020-82810	2

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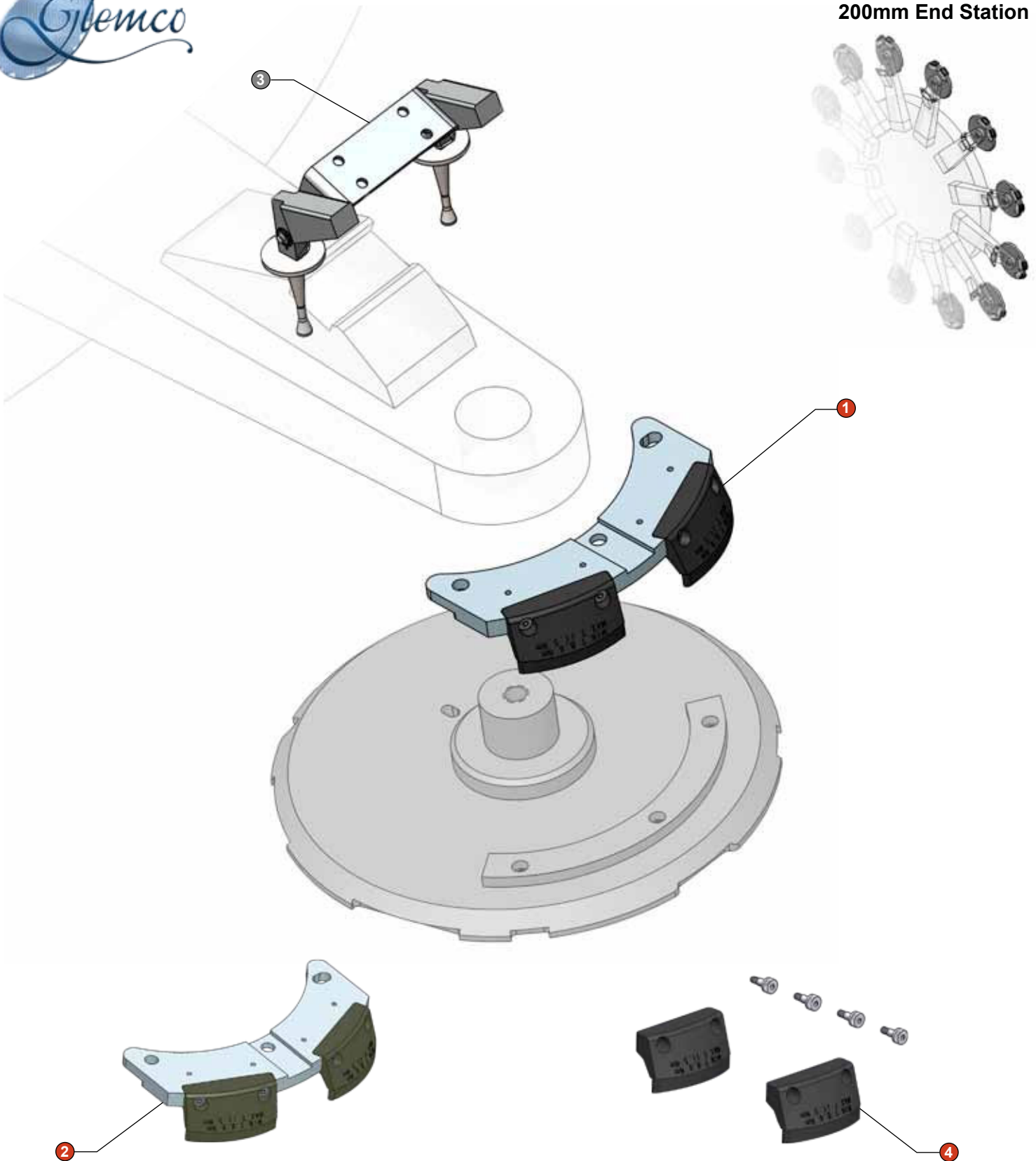


Item	P/N	Description	OEM	QTY
1	90173	SMT Insulator	0021-90020	8
2	90174	Guide Tube Support	0020-8917	2
3	90825	Filament, HDPFG Flood	0021-90017	1
4	90871	Insulator Flange	64495	1
5	90872	Insulator Flange	62714	1
6	90874	Filament Clamp Assembly	0021-90016	1
7	90875	Aperture Plate	0021-90441	1
8	90876	PFS CUP	0021-90307	1
9	90877	Insulator, Filament Clamp	68343	1
10	90879	Guide Tube Support	0020-41858	4
11	90880	Heat Shield	0020-89169	1
12	90882	Support Plate	71684	1
13	90883	Source Chamber	69656	1
14	90884	Magnet, Source	1030-90022	1
15	90885	Support Plate	0021-90305	1
16	90886	Source Chamber Mounting Plate	69630	1
17	90887	Mounting Plate Insulator	0021-90364	1
18	90873-1	Feed Rod, Short	0021-90018	1
19	90873-2	Feed Rod, Long	0021-90018	1
20	90290-1	Shield, PFS Filament	0021-90298	1

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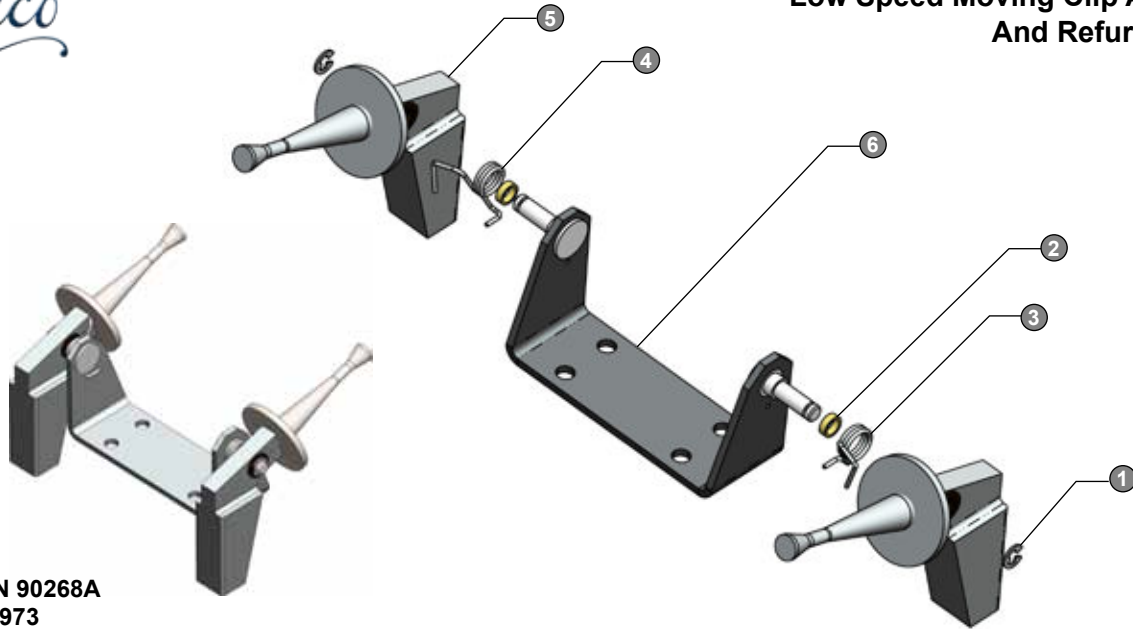
200mm End Station



Item	P/N	Description	OEM
1	90181BA	Three Piece Fixed Restraint, 200mm, Semi-Grade ESD Torlon®	0040-45804
2	90181BC	Three Piece Fixed Restraint, 200mm, Industrial-Grade Torlon®	0040-45804
3	90268A	Low Speed Moving Clip Assembly For 8" End Station	9010-01973
4	K90181BA	Restraint Kit, 200mm, ESD, Includes: 2 each P/N 90181BA-2 and 4 each P/N 82270	0040-45804

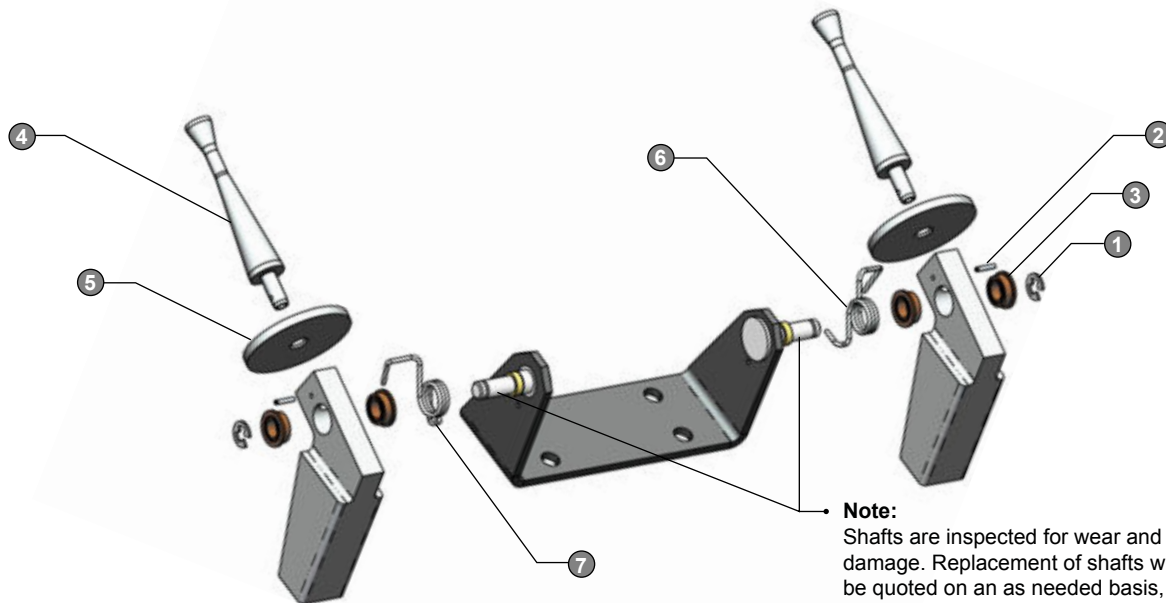
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Low Speed Moving Clip Assembly And Refurbishment



Assembly P/N 90268A OEM 9010-01973

Item	P/N	Description	OEM	QTY
1	8A303	Retaining Ring, Ø.094 Shaft External, SST	No OEM Reference	2
2	90268A-6	Spacer	No OEM Reference	2
3	90268A-7	Torsion Spring A	No OEM Reference	1
4	90268A-8	Torsion Spring B	No OEM Reference	1
5	90268A-S1	Clip Arm Assembly	No OEM Reference	2
6	90268A-S2	Base Assembly	No OEM Reference	1



Note:
Shafts are inspected for wear and damage. Replacement of shafts will be quoted on an as needed basis, for an additional charge.

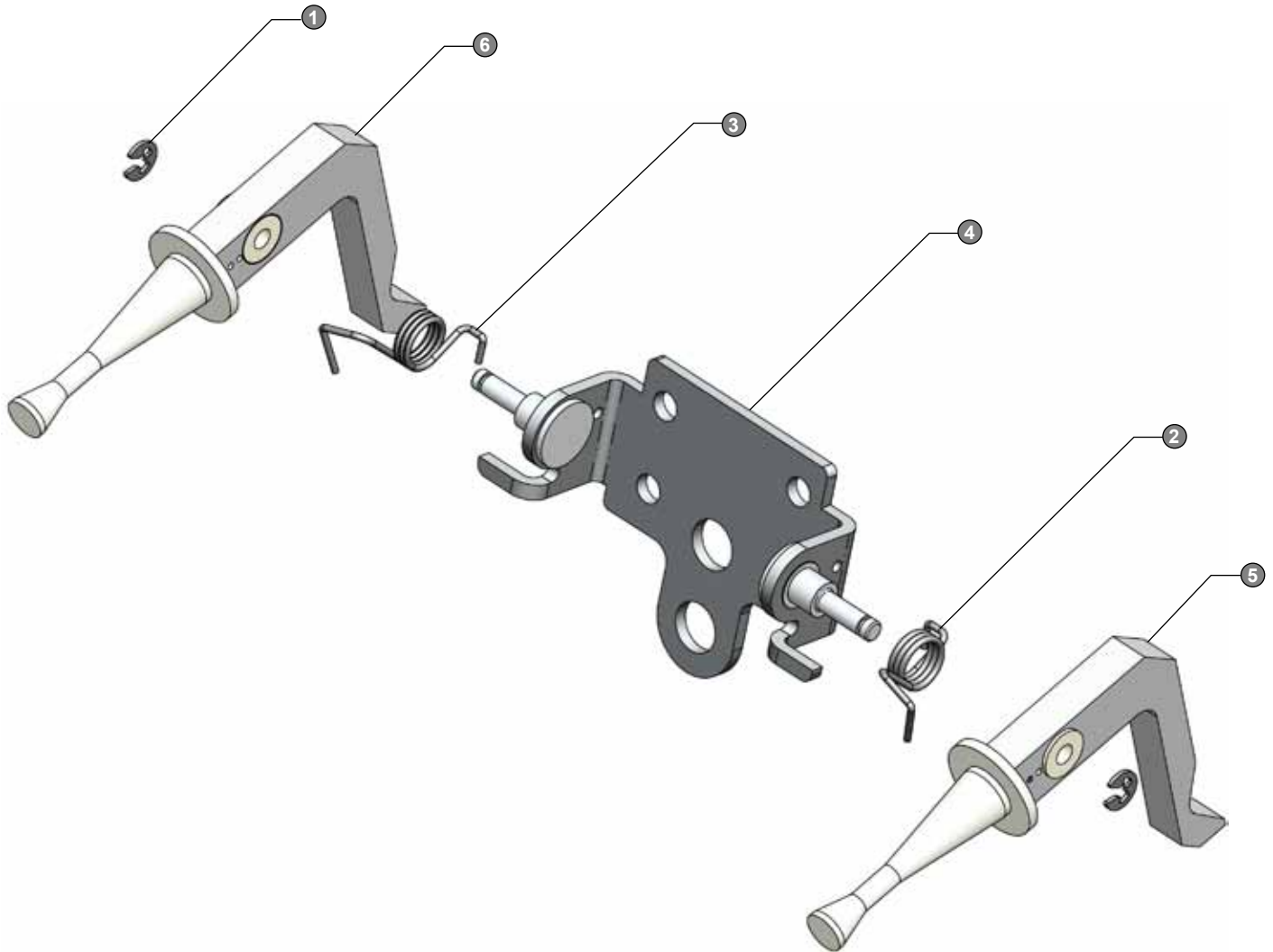
Refurbishment P/N 90268AR

Base refurbishments service includes replacement of the following:				
Item	P/N	Description	OEM	QTY
1	8A303	Retaining Ring, Ø.094 Shaft External, SST	No OEM Reference	2
2	8A304	Coiled Spring Pin, SST 1mm X 5mm	No OEM Reference	2
3	8B009	Bearing, Flanged	No OEM Reference	4
4	90268-1	Clip Post	No OEM Reference	2
5	90268-2	Post Base	No OEM Reference	2
6	90268A-7	Torsion Spring A	No OEM Reference	1
7	90268A-8	Torsion Spring B	No OEM Reference	1

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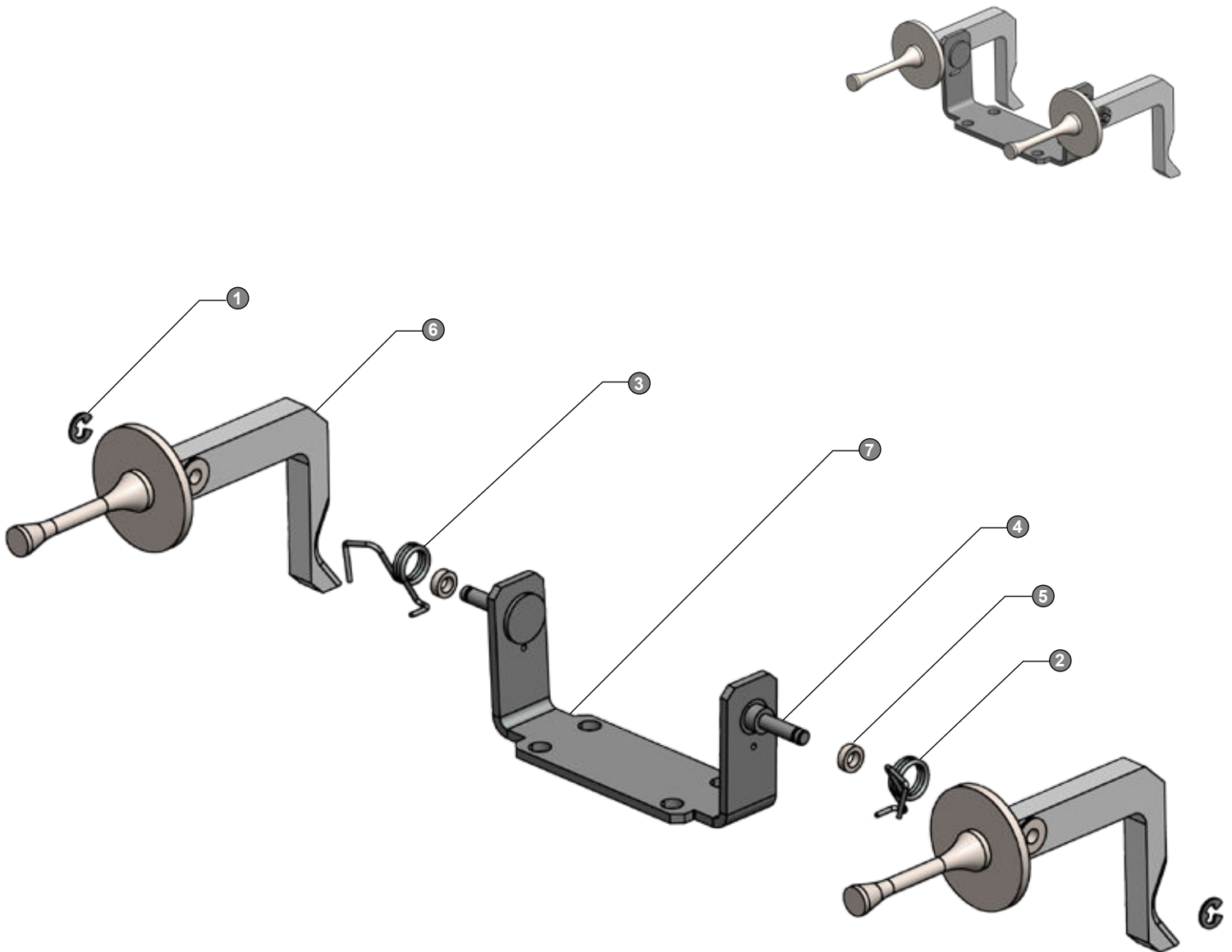


150mm Moving Clip Assembly P/N 90268BP / OEM 0010-90605



Item	P/N	Description	OEM	QTY
1	8B126	E-Clip	No OEM Reference	2
2	90268A-7	Torsion Spring A	No OEM Reference	1
3	90268A-8	Torsion Spring B	No OEM Reference	1
4	90268B-S2	Base Assembly	No OEM Reference	1
5	90268BP-S1	Clip Arm Assembly	No OEM Reference	1
6	90268BP-S3	Clip Arm Assembly	No OEM Reference	1

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Item	P/N	Description	OEM	QTY
1	8A303	Retaining Ring, Ø.094 Shaft External, SST	No OEM Reference	2
2	90268A-7	Torsion Spring A	No OEM Reference	1
3	90268A-8	Torsion Spring B	No OEM Reference	1
4	90268D-5	Clip Pin	No OEM Reference	2
5	90268D-6	Spacer	No OEM Reference	2
6	90268D-S1	Clip Arm Assembly	No OEM Reference	2
7	90268D-S2	Base Assembly	No OEM Reference	1

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