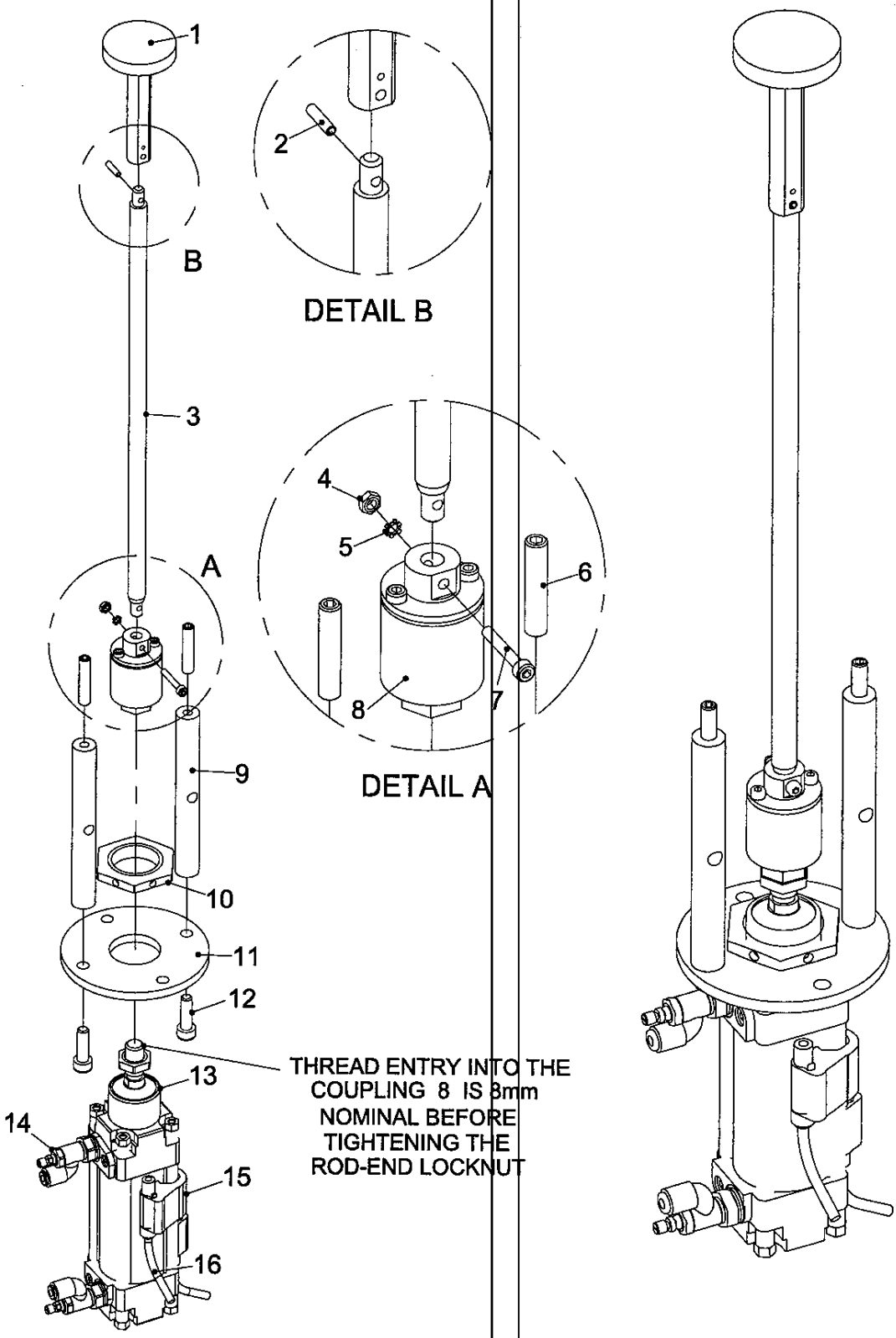


Figure 27 CVD SS Wafer lift assembly undriven electrode

SURFACE TECHNOLOGY SYSTEMS

1.28 CVD SS Wafer lift assembly driven electrode.

Drawing Number TP307231 **Figure Number** 28 **STS Ref.** AS307231

Item	Description of Part	Part Number	Notes
1	Lift pedestal	110936E02	
2	Spring pin M3x12mm	4W1360	
3	Top lift rod	111839E02	
4	Bottom connector	110424E02	
5	Bottom lift rod	111838E02	
6	Caphead screw M3x20mm	471480	
7	Washer, starlock M3	4N0400	
8	Nut, full M3	4P1400	
9	Stretch coupling assembly	A10935D02	
10	Cylinder stop block	112123E02	
11	RF Shielding 2.4mm	288001	
12	Caphead screw M4x12mm	471560	
13	Washer, plain M4	4J0500	
14	Caphead screw M4x16mm	471570	
15	Cylinder mounting plate	112122E01	
16	Air cylinder	226812	
17	Flying lead sensor	228026	
18	Sensor bracket	226737	
19	Banjo flow controller	264205	

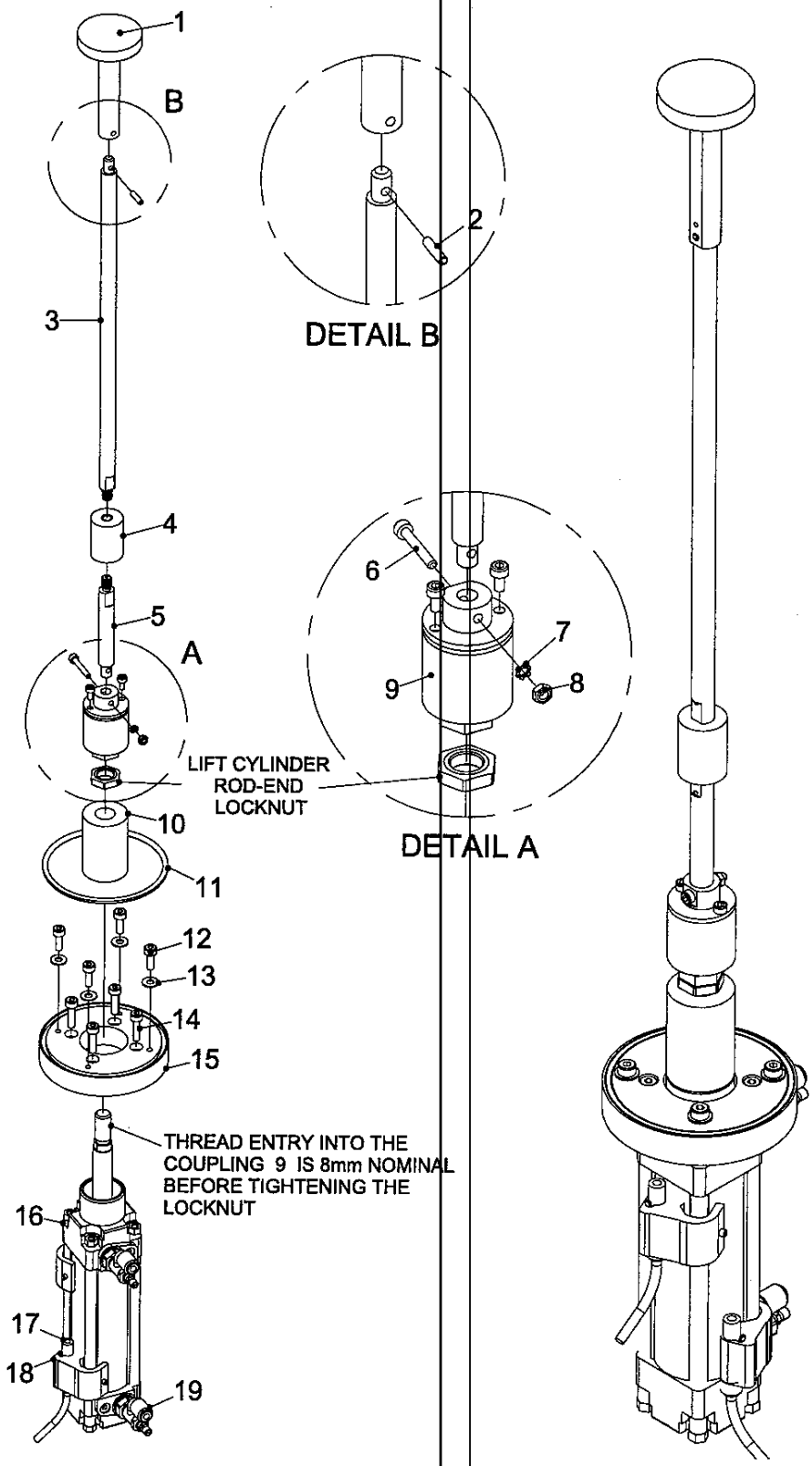


Figure 28 CVD SS Wafer lift assembly driven electrode

SURFACE TECHNOLOGY SYSTEMS

1.29 CVD Upper electrode - EPDM 200 - 208V.

Drawing Number TP303559 **Figure Number** 29 **STS Ref.** AS310208

Note The parts list for this assembly extends over two pages. The illustration (figure 29) will be repeated to ensure ease of cross-referencing.

Item	Description of Part	Part Number	Notes
1	Caphead screw M4x55mm	4715F0	
2	Washer plain M4	4J0500	
3	Insulation bush PTFE	130966	
4	CVD Gas inlet block assembly	FB310378	
5	O – Ring, EPDM BS115	206417	
6	CVD Gas inlet insulator	DT310374	
7	CVD Gas inlet insert	DT310376	
8	CVD Thermocouple assembly	AS307865	
9	Caphead screw M6x50mm	4717E0	
10	Clamp	110603D01	
11	Clamp pad	110604D02	
12	Male connector	216020	
13	Cold block link tube	DT310207	
14	Showerhead cooling clamp	110556D05	
15	Caphead screw M5x10mm	471650	
16	Washer plain M5	4J0600	
17	MKII Heater heat shield	112150D03	
18	Heater clamp spacer	110618E02	
19	Compression spring	110593E01	
20	Upper heater 200-208V	112190C03	

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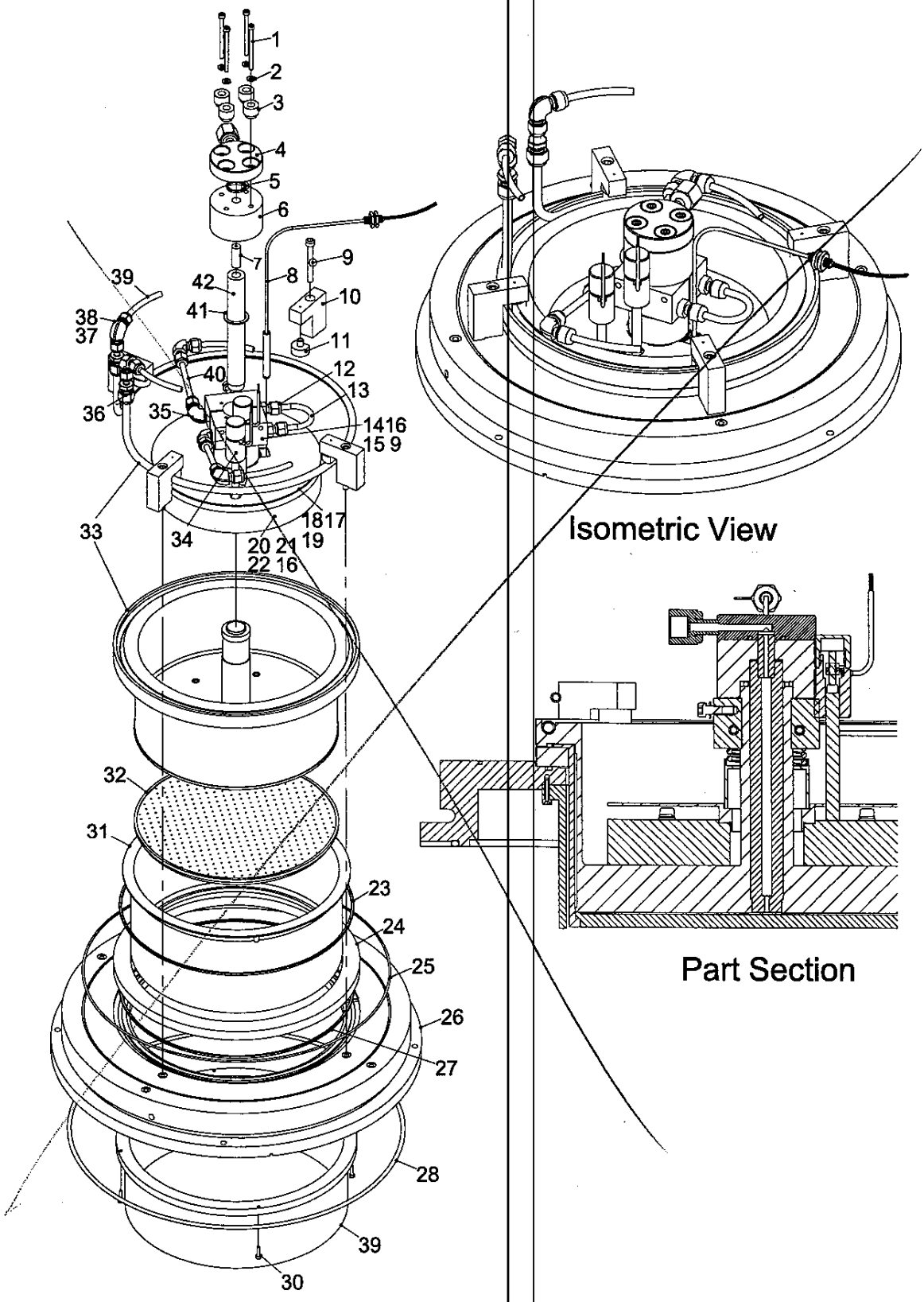


Figure 29 CVD Upper electrode - EPDM 200 - 208V

SURFACE TECHNOLOGY SYSTEMS

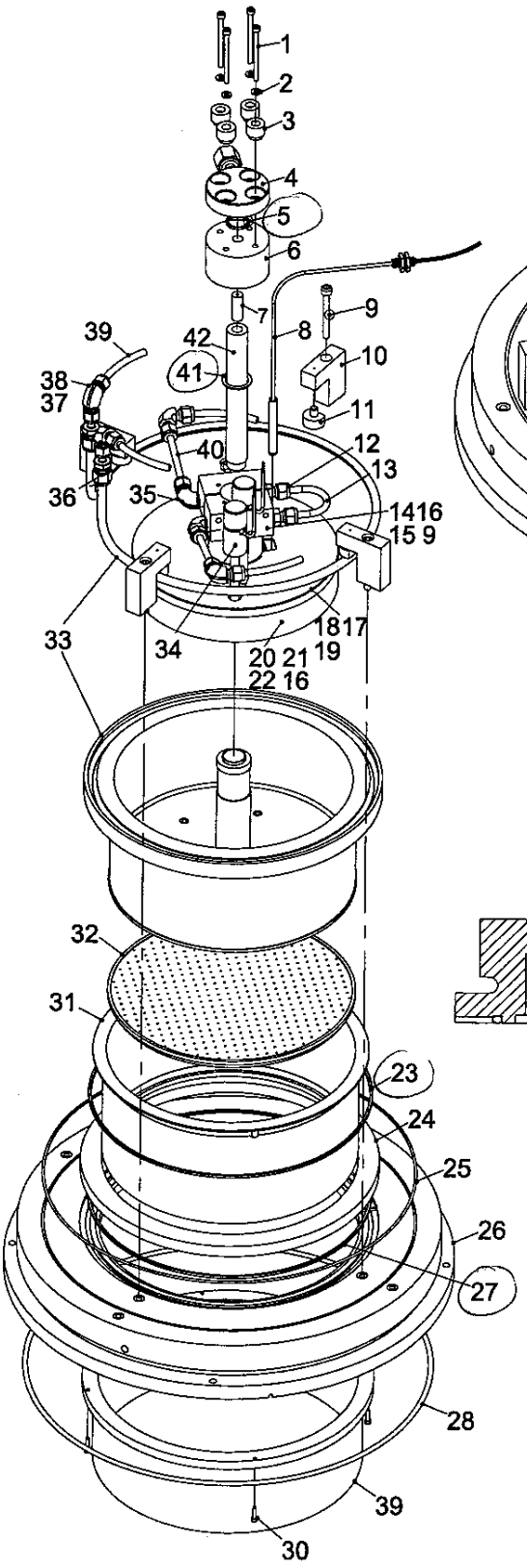
1.30 CVD Upper electrode 220 – 240V.

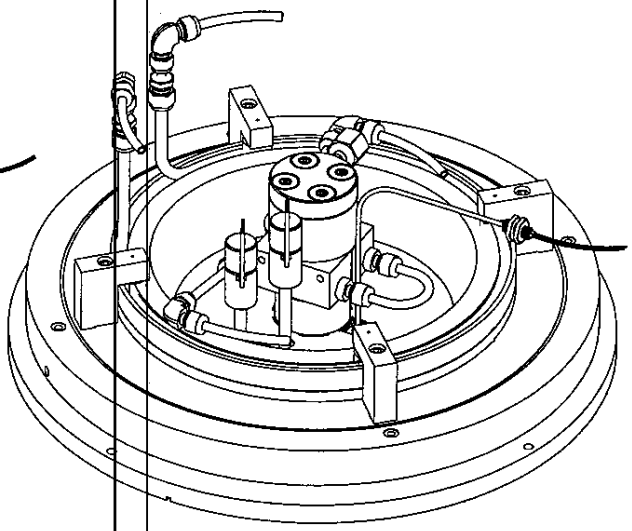
Drawing Number TP303559 **Figure Number** 30 **STS Ref.** AS306447

Note The parts list for this assembly extends over two pages. The illustration (figure 30) will be repeated to ensure ease of cross-referencing.

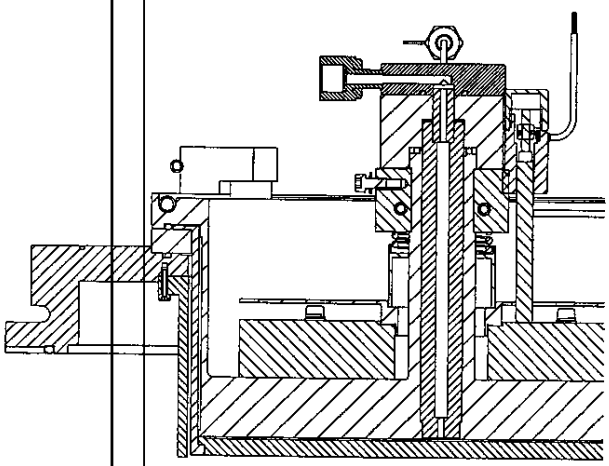
Item	Description of Part	Part Number	Notes
1	Caphead screw M4x55mm	4715F0	
2	Washer plain M4	4J0500	
3	Insulation bush PTFE	130966	
4	CVD Gas inlet block assembly	FB310378	
5	O – Ring, EPDM BS115	206417	
6	CVD Gas inlet insulator	DT310374	
7	CVD Gas inlet insert	DT310376	
8	CVD Thermocouple assembly	AS307865	
9	Caphead screw M6x50mm	4717E0	
10	Clamp	110603D01	
11	Clamp pad	110604D02	
12	Male connector	216020	
13	Cold block link tube	DT310207	
14	Showerhead cooling clamp	110556D05	
15	Caphead screw M5x10mm	471650	
16	Washer plain M5	4J0600	
17	*MKII Heater heat shield*	*112150D03*	
18	Heater clamp spacer	110618E02	
19	Compression spring	110593E01	
20	Upper heater 220-240V	111845C03	

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Isometric View

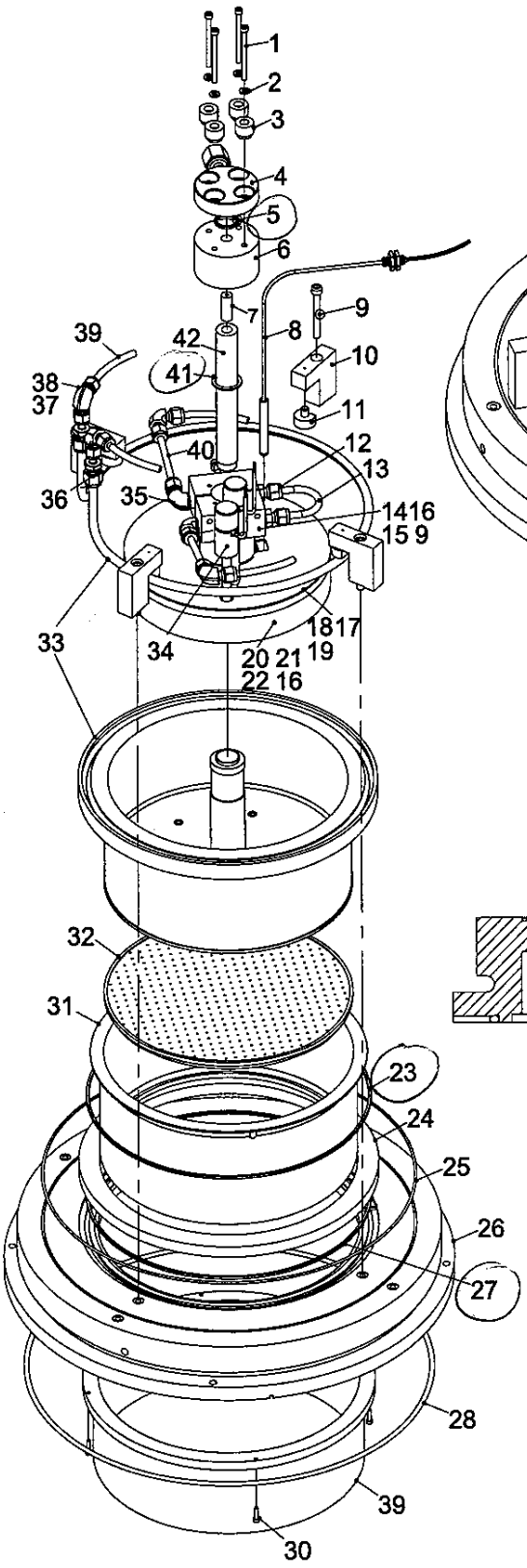


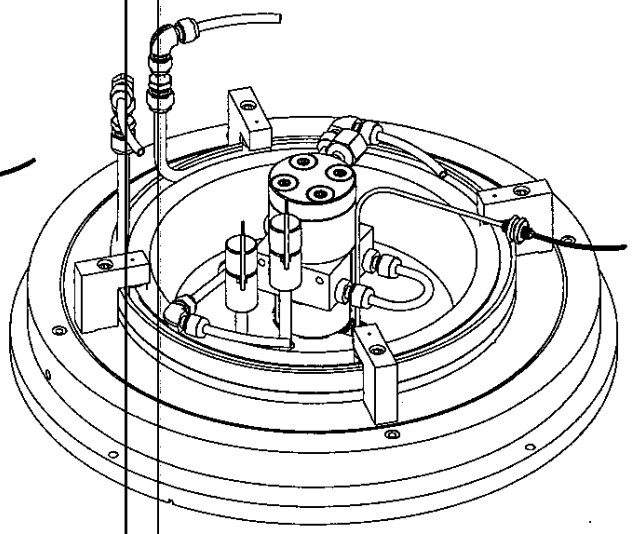
Part Section

Figure 30 CVD Upper electrode 220 - 240V

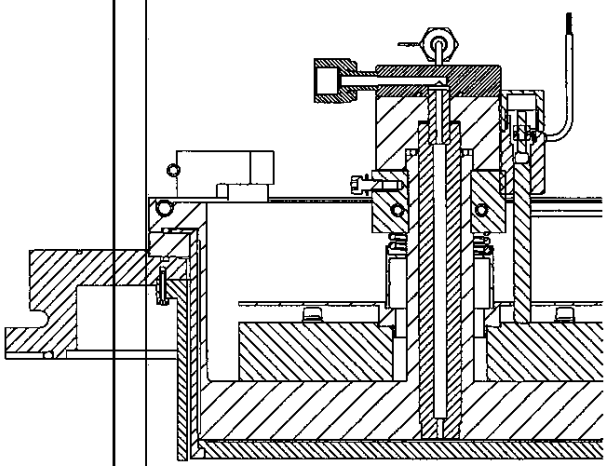
1.30 CVD Upper electrode 220 – 240V...

Item	Description of Part		Part Number	Notes
21	Caphead screw M5x40mm		4716C0	
22	Washer, spring M5		4V0600	
23	O-ring 258mm IDx3mm	EPDM	206362	
		Kalrez	206447	
24	Ceramic insulating ring		110915E03	
25	RF Shielding 2.4mm		288001	
26	CVD Top plate		112292C05	
27	O-ring 260mmIDx3mm	EPDM	206341	
		Kalrez	206394	
28	RFI Shielding		282299	
29	Upper faraday shield		110921C02	
30	Caphead screw vented M3x12mm		226598	
31	Electrode shield MK2		110919C07	
32	Shower head		110511C09	
33	CVD Upper electrode		FB3103	
34	Heater terminal end cover		112599E02	
35	Male elbow		216030	
36	Reducer 8mm-6mm		216031	
37	Union elbow		216028	
38	6mmO/Dx4I/D Tube insert		216868	
39	PTFE Tube 6mmODX4mmID		266865	
40	PIPE Link		111891E01	
41	O-Ring EPDM 206343		206343	
42	CVD Gas inlet spreader		DT310375	





Isometric View



Part Section

Figure 30 CVD Upper electrode 220 - 240V

1.31 High mixed frequency matching unit.

Drawing Number TP305788 **Figure Number** 31 **STS Ref.** AS305788

Note The parts list for this assembly extends over three pages. The illustration (figure 31) will be repeated to ensure ease of cross-referencing.

Item	Description of Part	Part Number	Notes
1	Top RF box/matching unit	FB300564	
2	CVD matching lid assembly	AS310745	
3	Matching unit side panel detail	DT307111	
4	Capacitor drive cover detail	1C4577	
5	6mm Stud	561485	
6	Plastic retainer 6mm	561559	
7	Capacitor, variable 26-1006pF	512528	
8	Capacitor, variable 29-357pF	512524	
9	Capacitor, 350pF 2KV	510104	
10	12 Turn choke	AC3051	
11	PWB RF choke	AC6094	
12	Capacitor load mounting bracket	DT307242	
13	Bracket ED2860-A item D	aC0182	
14	Gearbox 640:1 ratio	560018	
15	Motor	560021	
16	Potentiometer 5K0	505090	
17	Potentiometer kit	505504	
18	PWB 8063-003 A310 dual	AC1763	
19	Panel mounting coupling	266843	
20	Straight connector	266844	

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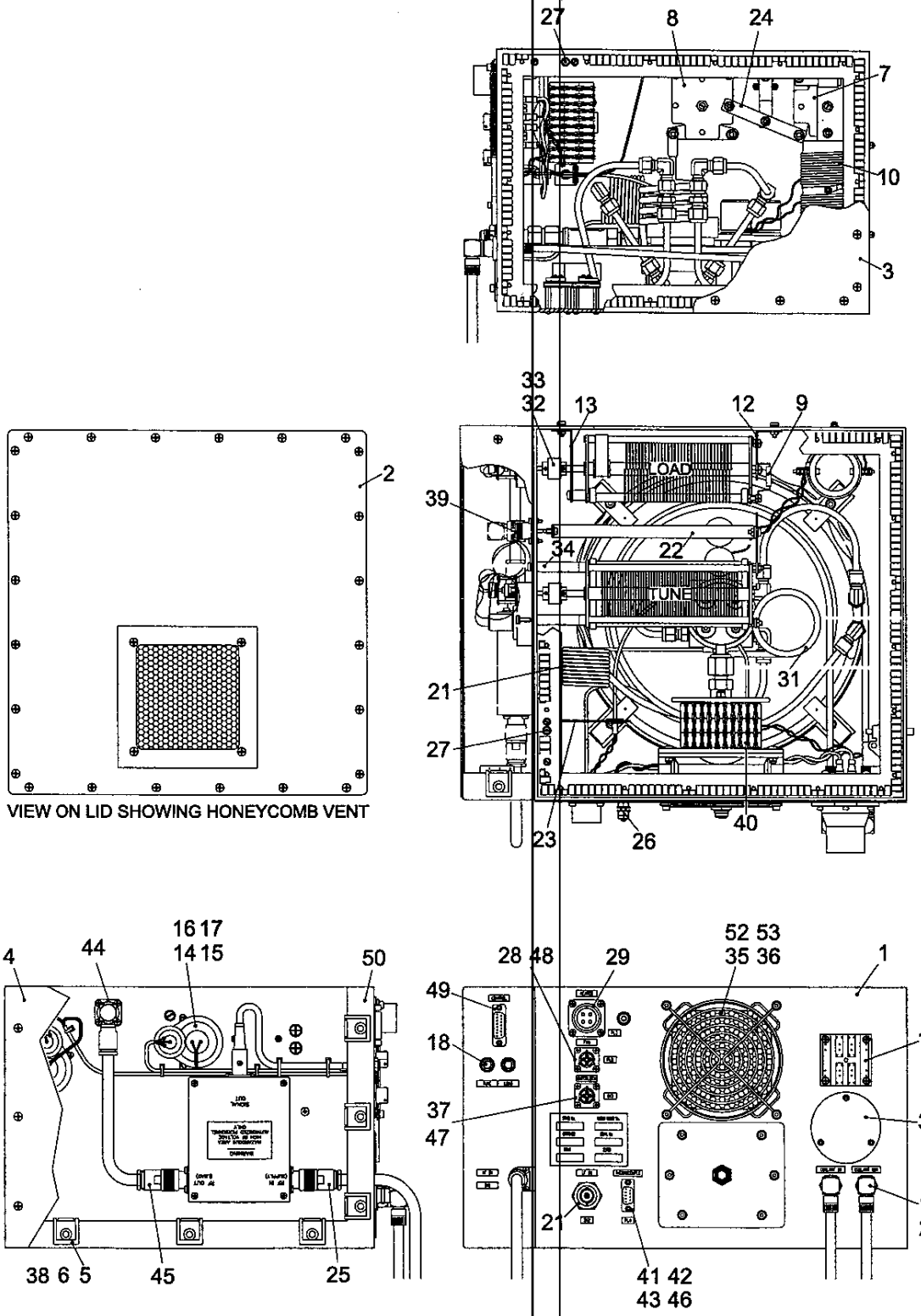


Figure 31 High mixed frequency matching unit

1.31 High mixed frequency matching unit continued...

Item	Description of Part	Part Number	Notes
21	Coil detail	aC3050	
22	Plated busbar	aC2959	
23	Thermo-couple ground busbar	1C4976	
24	Plated busbar	aC2960	
25	Connector N Type plug	535001	
26	M5x25 Earth screw assembly	AS305185	
27	Microswitch cabinet	550019	
28	Capacitor 0.1uF 100V	510631	
29	Connector AMPH plug 4W	530216	
30	Blanking plate CVD matching unit	DT310746	
31	Coil, plated	aC2961	
32	Insulated coupling	1C3201	
33	4mm x 1/4 – Oldham coupling	561046	
34	Stand-off 10/32 M4	DT307132	
35	Fan 24V DC 120mm dia.	561064	
36	Fan guard 120mm dia.	560344	
37	Connector male pins size 20	530122	
38	6mm Slip on bracket	561558	
39	Connector N type socket	535000	
40	Fan choke assembly	AS304039	

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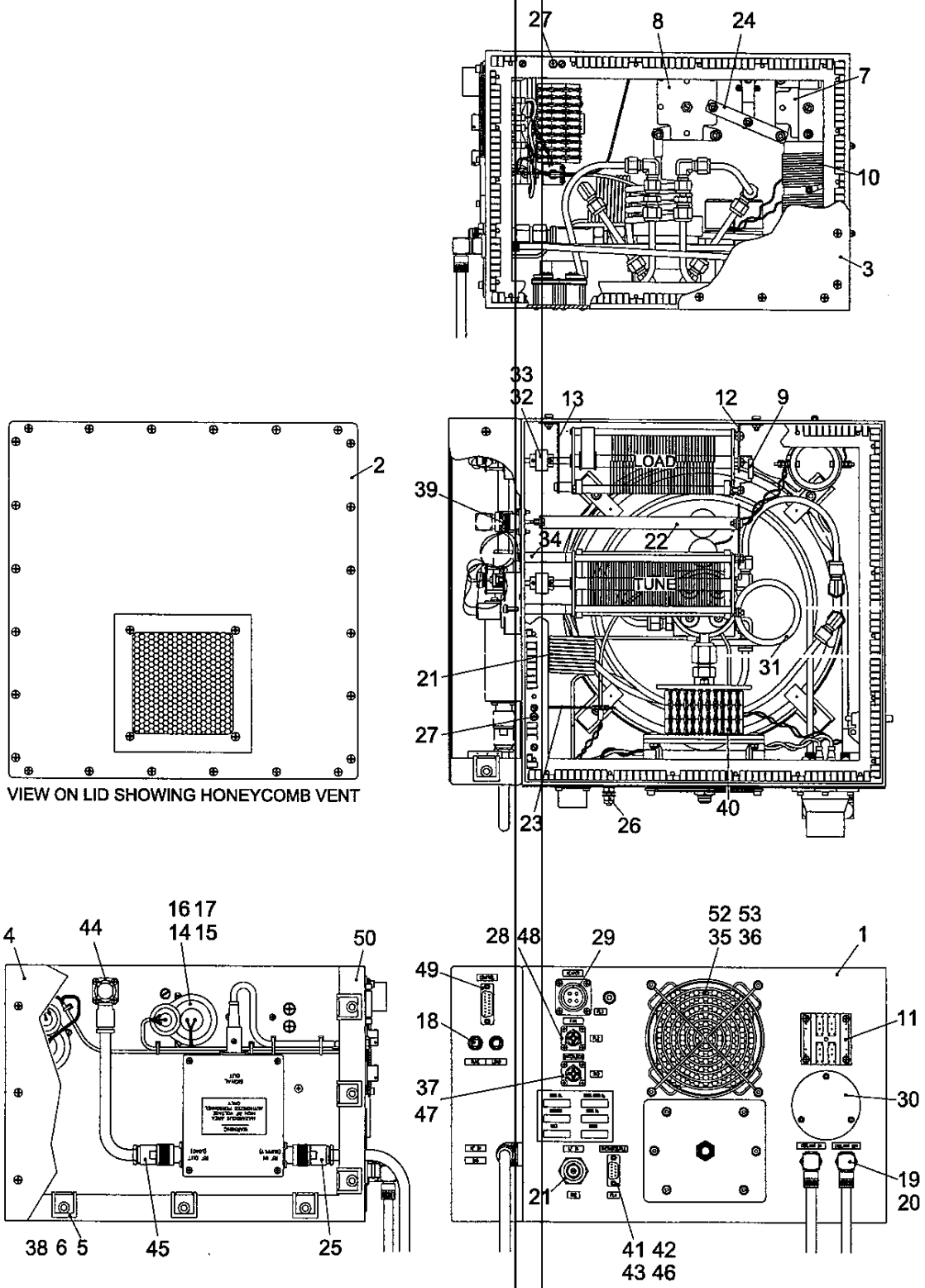


Figure 31 High mixed frequency matching unit

1.31 High mixed frequency matching unit continued...

Item	Description of Part	Part Number	Notes
41	Connector Alomega male pin	530372	
42	Connector Chromega male pin	530370	
43	Connector D type screwlock	530025	
44	Connector N type plug	535305	
45	Connector N type plug	535002	
46	Connector 9W D plug	530375	
47	4 Way R/lock chassis socket	530550	
48	Connector R/lock plug 4W	530553	
49	Connector D type 15W plug	530007	
50	Capacitor drive cover	1C4572	
51	Connector female pins size 20	530121	
52	Ferrite beads	560289	

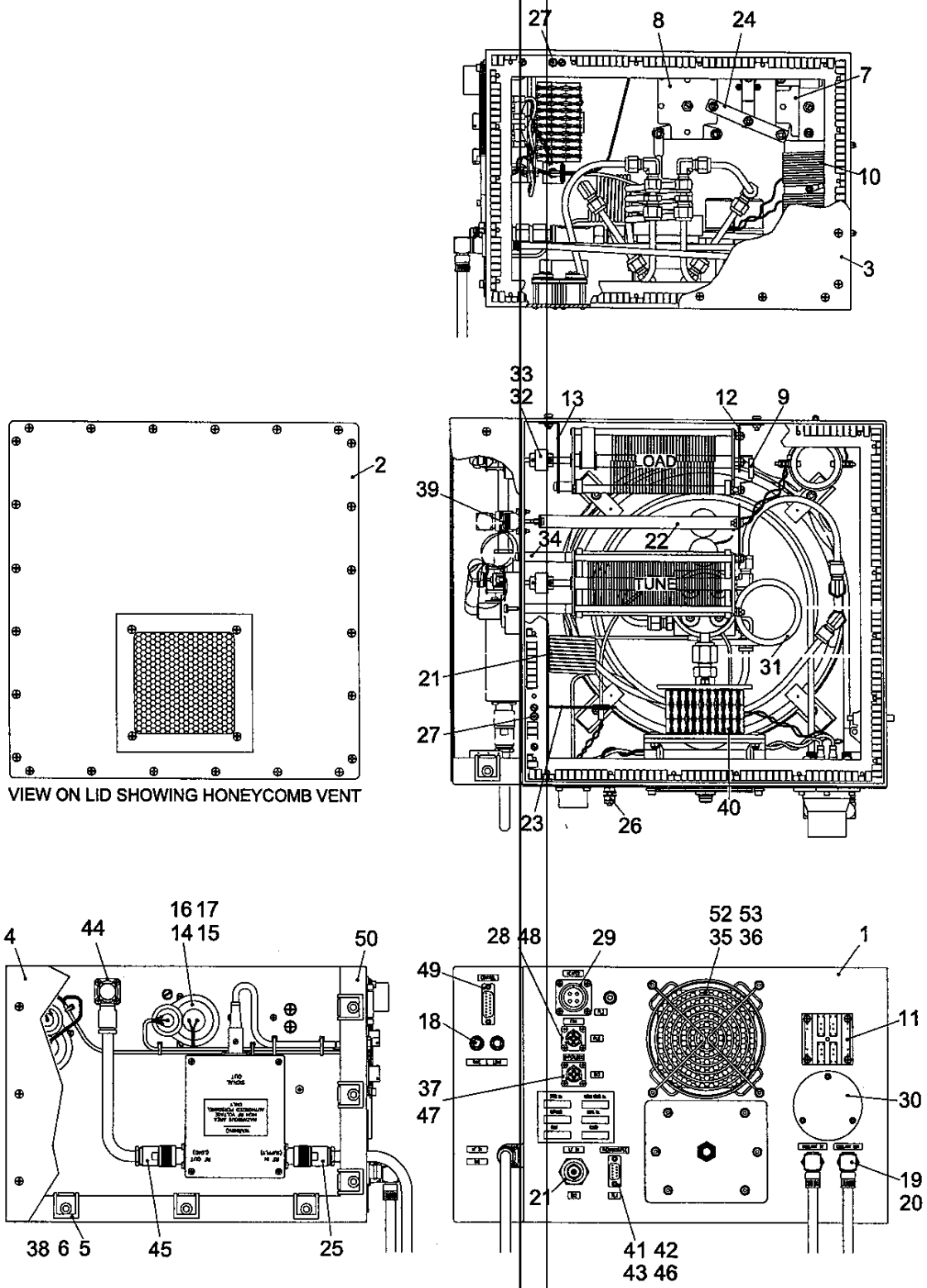


Figure 31 High mixed frequency matching unit

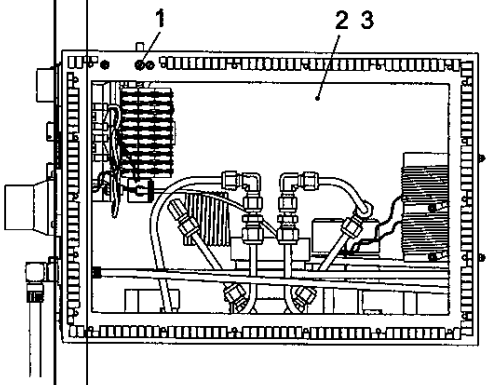
1.32 Low frequency RF matching unit.

Drawing Number TP303129 **Figure Number** 32 **STS Ref.** AS303129

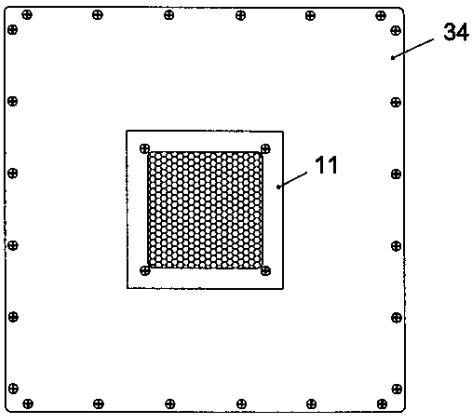
Note The parts list for this assembly extends over two pages. The illustration (figure 32) will be repeated to ensure ease of cross-referencing.

Item	Description of Part	Part Number	Notes
1	Microswitch cabinet	550019	
2	Copper beryllium 5.7mm	286966	
3	Matching unit side panel detail	DT307111	
4	Top RF box matching unit	FB300564	
5	Copper beryllium 5.7mm	286966	
6	12 Turn choke	AC3051	
7	M5x25mm Earth screw assembly	AS305185	
8	Fan choke assembly	AS304039	
9	Fan 24V DC 120mm dia.	561064	
10	Fan guard 120mm dia.	560344	
11	Honeycomb vent	1C2288	
12	Ferrite beads	560289	
13	Capacitor 0.1uF 100V	510631	
14	PWB RF choke	AC6094	
15	Metal spacer M3 x 15mm	561011	
16	Containment flange	DT301699	
17	Mesh port filter	DT306834	
18	Panel mounting coupling	266843	
19	Straight connector	266844	
20	Connector Chromega female socket	530371	

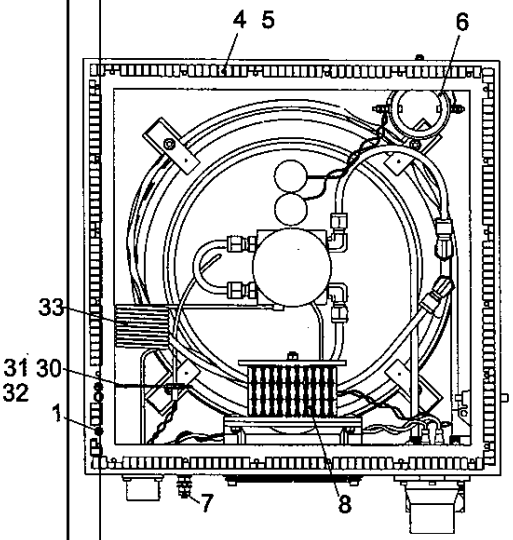
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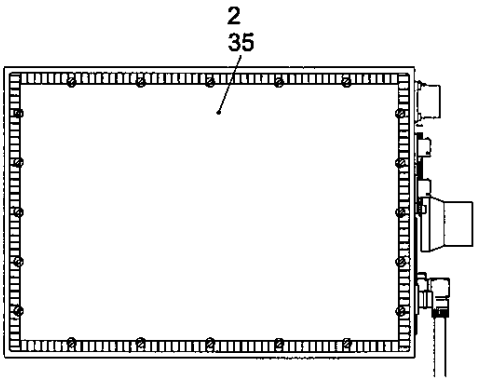
VIEW WITH SIDE PLATE REMOVED FOR CLARITY



VIEW ON LID SHOWING HONEYCOMB VENT



VIEW WITH LID & SIDE COVER REMOVED FOR CLARITY



VIEW WITH COVER PLATE FITTED

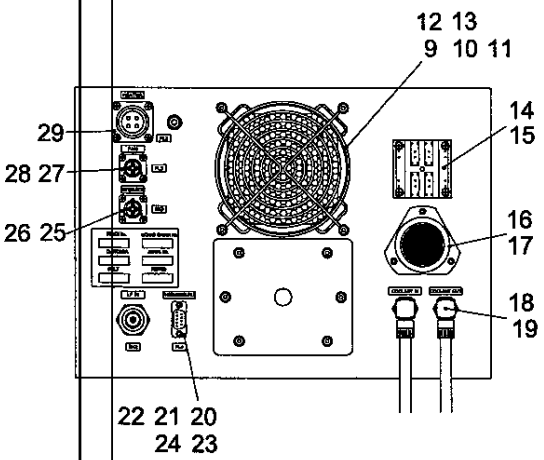
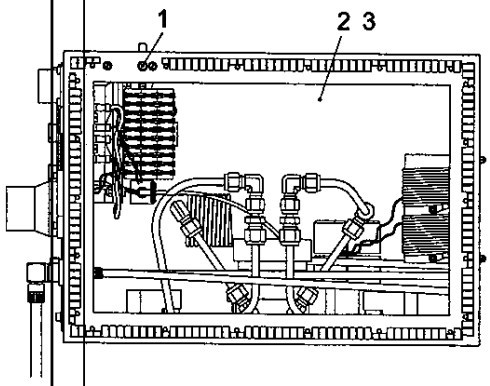


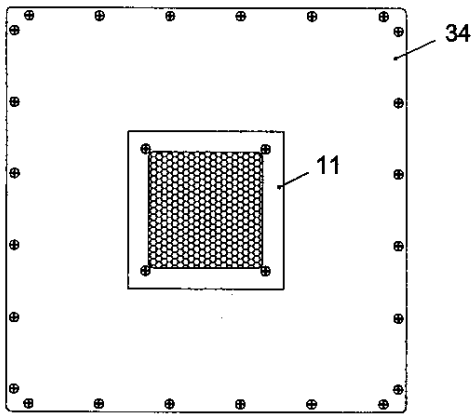
Figure 32 Low frequency RF matching unit

1.32 Low frequency RF matching unit continued...

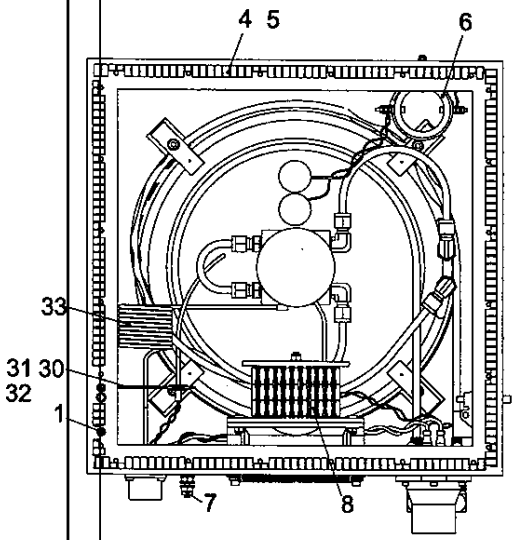
Item	Description of Part	Part Number	Notes
21	Connector alomega male pin	530372	
22	Connector alomega female pin	530373	
23	Connector chromega male pin	530370	
24	Connector 9W D plug	530375	
25	4 Way ring lock chassis socket	530550	
26	Connector, male pins size 20	530122	
27	Connector, ring lock plug 4 way	530553	
28	Connector, female pins size 20	530121	
29	Connector AMPH plug 4 way	530216	
30	Thermocouple nut	1C2887	
31	Thermocouple ground busbar	1C4976	
32	Type K twisted pair screened wire	541285	
33	Coil detail	aC3050	
34	Matching unit split detail	DT306239	
35	Cover plate	DT303142	



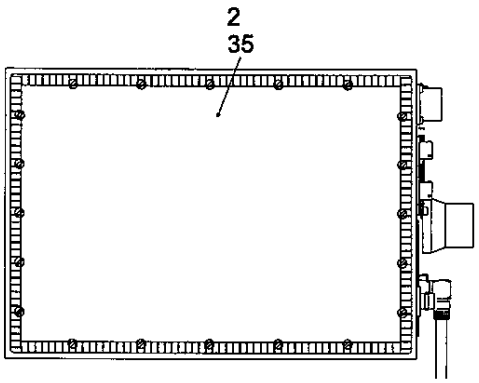
VIEW WITH SIDE PLATE REMOVED FOR CLARITY



VIEW ON LID SHOWING HONEYCOMB VENT



VIEW WITH LID & SIDE COVER REMOVED FOR CLARITY



VIEW WITH COVER PLATE FITTED

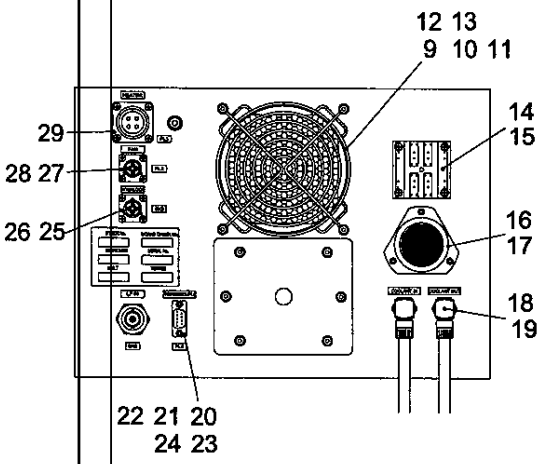


Figure 32 Low frequency RF matching unit

SURFACE TECHNOLOGY SYSTEMS

1.33 Gas in kit - Low frequency matching unit kit.

Drawing Number TP310185 **Figure Number** 33 **STS Ref.** KT310185

Item	Description of Part	Part Number	Notes
1	Extraction port	aC2954	
2	Filter 1/4" VCR	238005	
3	Gasket plain VCR 1/4"	211851	
4	2 Way manifold	aC2989	
5	Retaining plate	DT303151	
6	CVD Gas-in spacer	DT310441	
7	Bulkhead union 1/4"VCR	211614	
8	Double female nut 1/4VCR	211858	

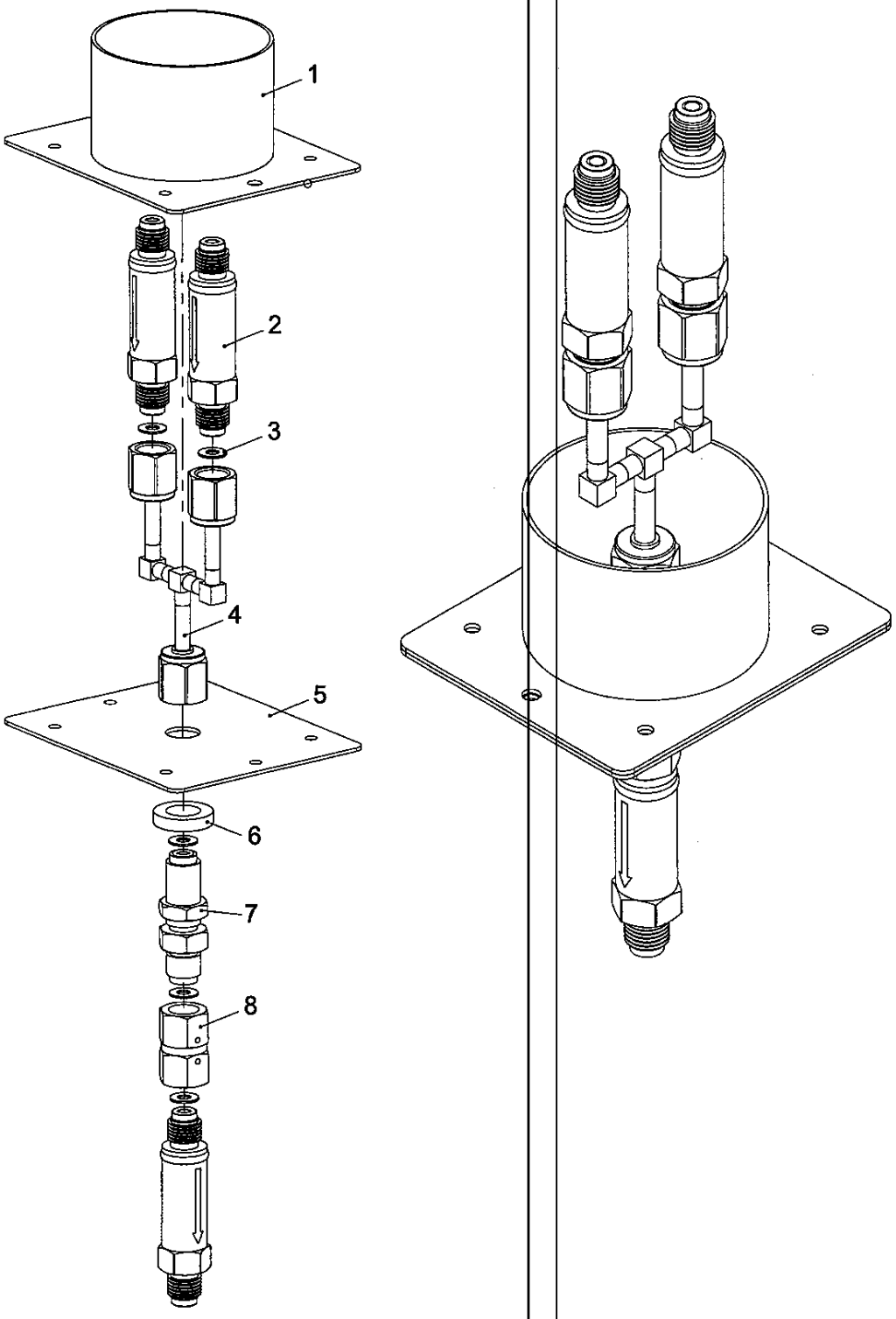


Figure 33 Gas in kit low frequency matching unit

1.34 Low frequency matching unit assembly option 1.

Drawing Number TP301250 **Figure Number** 34 **STS Ref.** AS305789

Note The parts list for this assembly extends over two pages. The illustration (figure 34) will be repeated to ensure ease of cross-referencing.

Item	Description of Part	Part Number	Notes
1	ECR Matching unit access panel	1C6855	
2	ECR Low frequency matching unit lid	1C6821	
3	SPDT RF Relay	550372	
4	Low frequency mag phase detector assembly	AS301792	
5	Connector N type socket	535000	
6	Low frequency intermediate mounting plate	1C6856	
7	Vacuum capacitor support	DT301235	
8	Nylon pillar B M5x45mm	560087	
9	Coil former	DT301101	
10	Capacitor clamp	512373	
11	Pot servo 10 turn	505094	
12	Servo pot mounting plate	DT304971	
13	Modified 64 tooth spur gear	DT304904	
14	Reducer bore 1/4-1/8	256971	
15	Modified 28 tooth spur gear	DT304903	
16	Gearbox 80:1 ratio	256970	
17	Gearbox motor standoff	DT304906	
18	Motor	560021	
19	ECR matching unit box	aC6822	
20	Capacitor clamp	512372	

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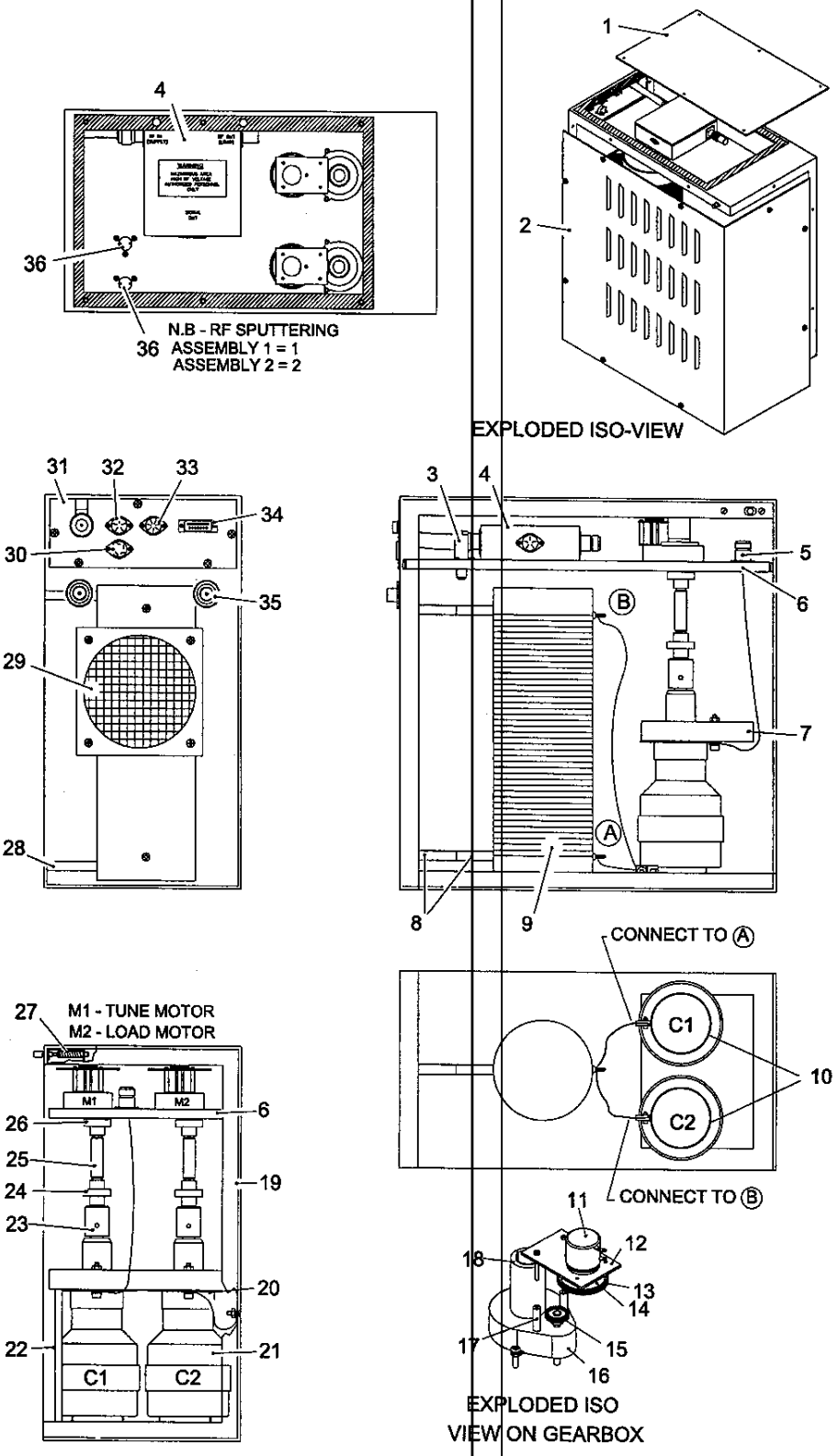


Figure 34 Low frequency matching unit assembly option 1

1.34 Low frequency matching unit assembly option 1 continued...

Item	Description of Part	Part Number	Notes
21	Capacitor, variable ceramic vacuum	512371	
22	Support rod	DT301236	
23	Vacuum capacitor coupling	1C4084	
24	10mm x 10mm Oldham coupling	571202	
25	Coupling rod	DT301234	
26	4mm x 10mm Coupling	560111	
27	Microswitch cabinet	550019	
28	Nylon pillar C M5x50mm	560085	
29	EMC Screened filters	571214	
30	Connector DIN socket 5W 240	530702	
31	Delta matching unit connector panel	1C5139	
32	Connector DIN socket 3W	530700	
33	Connector DIN socket 7W	530703	
34	Connector D type 15W plug	530007	
35	Connector C type socket	535274	
36	SPDT RF relay	550372	

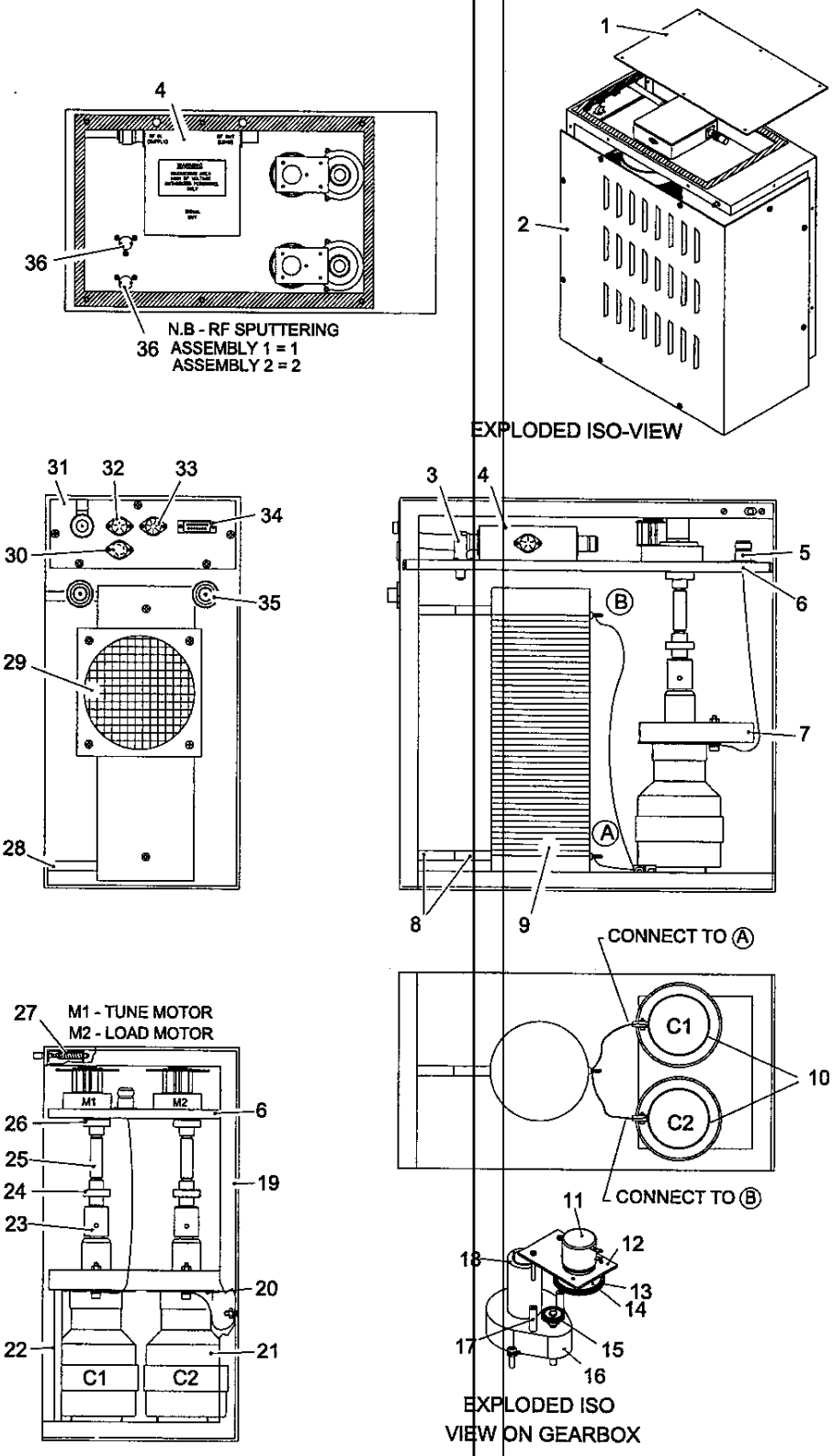


Figure 34 Low frequency matching unit assembly option 1

SURFACE TECHNOLOGY SYSTEMS

1.35 Mesc High frequency platen matching unit.

Drawing Number TP301875 **Figure Number** 35 **STS Ref.** AS301875

Note The parts list for this assembly extends over two pages. The illustration (figure 35) will be repeated to ensure ease of cross-referencing.

item	Description of Part	Part Number	Notes
1	High frequency platen M/U enclosure	DT301875	
2	High frequency matching unit lid	aC4664	
3	High frequency M/U capacitor drive cover	aC4665	
4	High frequency M/U capacitor drive lid	aC4666	
5	Capacitor link busbar	aC4671	
6	R.F.In busbar	aC4672	
7	L1 Coil detail (plated)	DT301860	
8	High frequency Mesc platen MV labels	aC467	Not shown.
9	Coil clamp top	1C4674	
10	Coil clamp bottom	1C4676	
11	Microswitch cabinet	550019	
12	Connector N Type socket	535000	
13	Gearbox 640:1 ratio	560018	
14	Motor	560021	
15	Potentiometer kit	505504	
16	Potentiometer 5K0	505090	
17	Capacitor, variable 35-1500pF	512518	
18	Bracket ED2860-A item J	aC0183	
19	Bracket ED2860-A item D	aC0182	
20	4mm x 1/4 – Olham coupling	561046	

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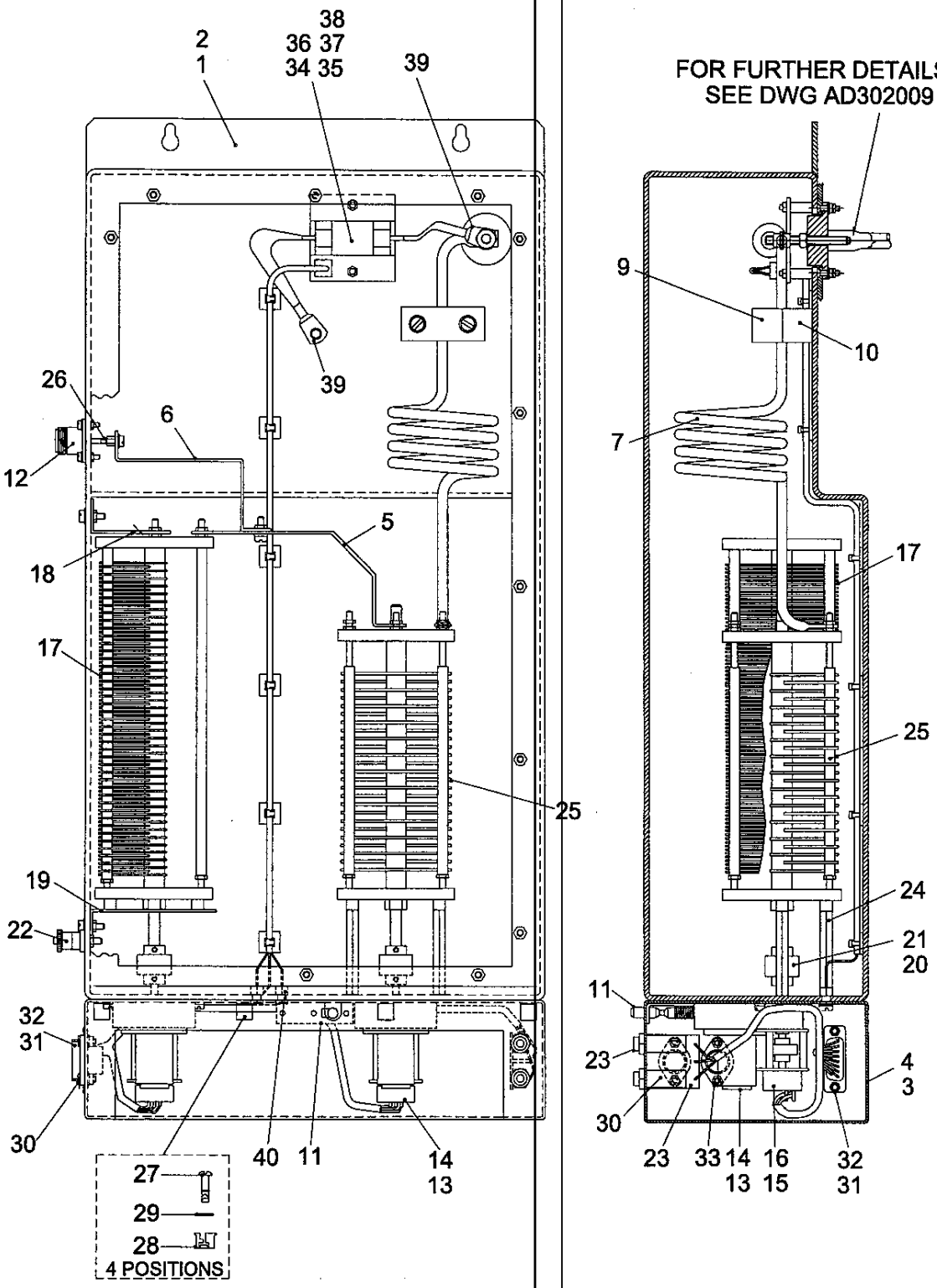


Figure 35 Mesc High frequency platen matching unit

1.35 Mesc High frequency platen matching unit continued....

Item	Description of Part	Part Number	Notes
21	Insulated coupling	1C3201	
22	Brass earth stud 2BA	534074	
23	PWB 8063-003 A310 Dual	AC1763	
24	Metal spacer M4x50mm	266948	
25	Capacitor variable 25-350pF	512505	
26	Stud, modified CT8054-104 item 4	1C1441	
27	4mm Stud	561465	
28	4mm Bracket	561466	
29	Plastic retainer	561467	
30	Connector DIN SKT 5W 180	530701	
31	Connector D type 15W plug	530007	
32	Connector D type, screwlock	530025	
33	Connector DIN socket 3W	530700	
34	PWB ST8091-063	AC3897	
35	Nylon pillar B M3x13mm	560075	
36	CSK Screw, slotted M3x12mm	4G1460	
37	Connector Molex plug 2W	530408	
38	Connector Molex shell 2W	530409	
39	Crimp terminal non-insulated	534235	
40	Capacitor 0.001uF 100V	512600	

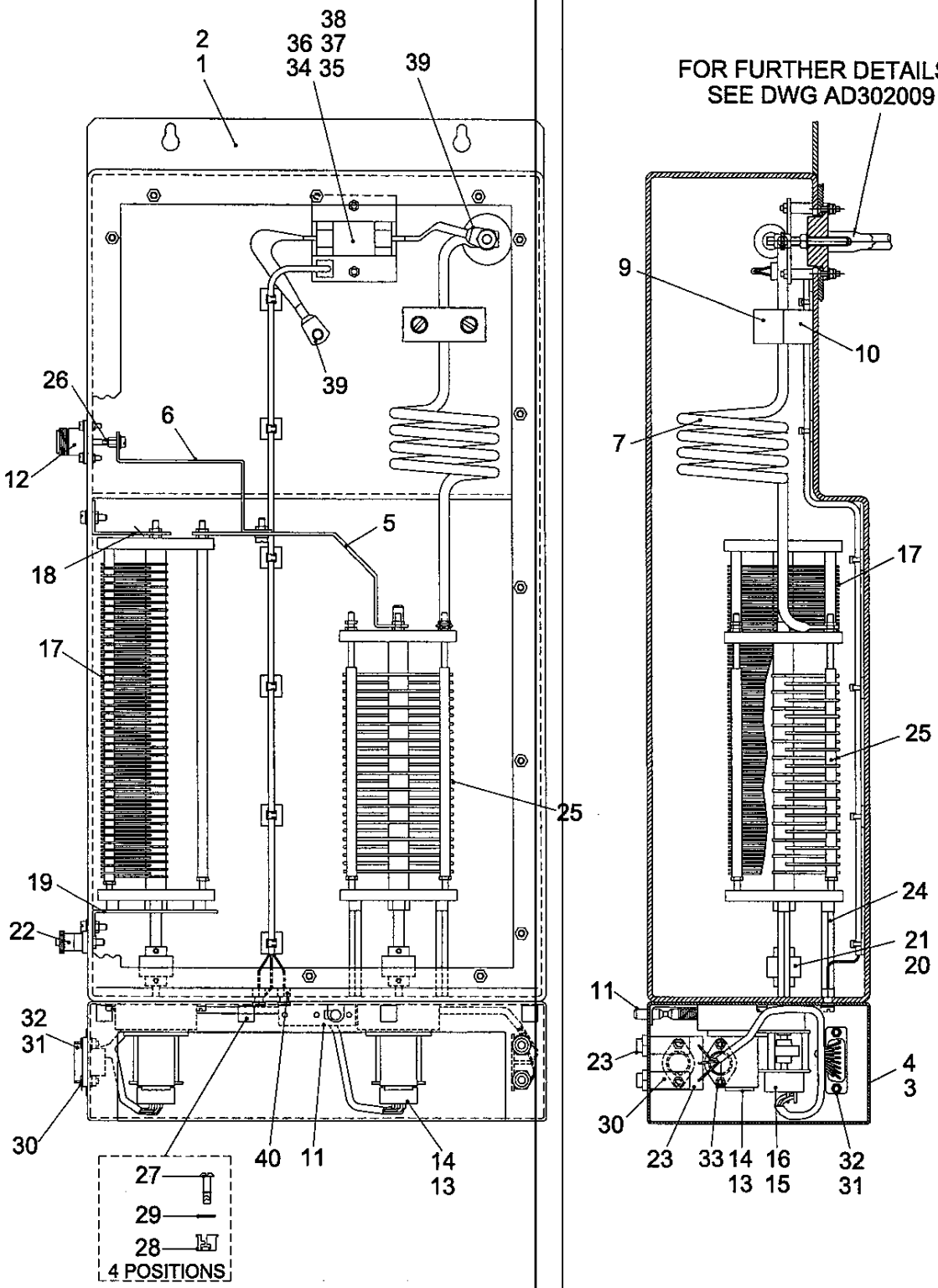


Figure 35 Mesc High frequency platen matching unit

SURFACE TECHNOLOGY SYSTEMS

1.36 Electrical switch control unit.

Drawing Number TP301493 **Figure Number** 36 **STS Ref.** AS301493

Item	Description of Part	Part Number	Notes
1	Connector D type screwlock	530025	
2	Connector D type 15W socket	530006	
3	Connector DIN socket 5W 240V	530702	
4	Connector DIN socket 7W	530703	
5	Connector DIN socket 3W	530700	
6	Connector DIN socket 8W	530745	
7	N Type bulkhead jack	535358	
8	Relay, miniature HC4 24V DC	550217	
9	Relay base	550347	
10	Electrical switch control enclosure	DT301493	
11	Electrode switching PCB	CS300212	
12	Relay RF type CS-520D	550315	
13	Identification label	LD300812	
14	Connector D type 15W socket	530006	
15	Connector D type 15W plug	530007	
16	Connector D type 15W shell	530076	
17	Connector N type plug	535001	
18	Earth stud assembly	AS300322	
19	Connector molex shell 2W	530409	
20	Connector molex shell 6W	530417	

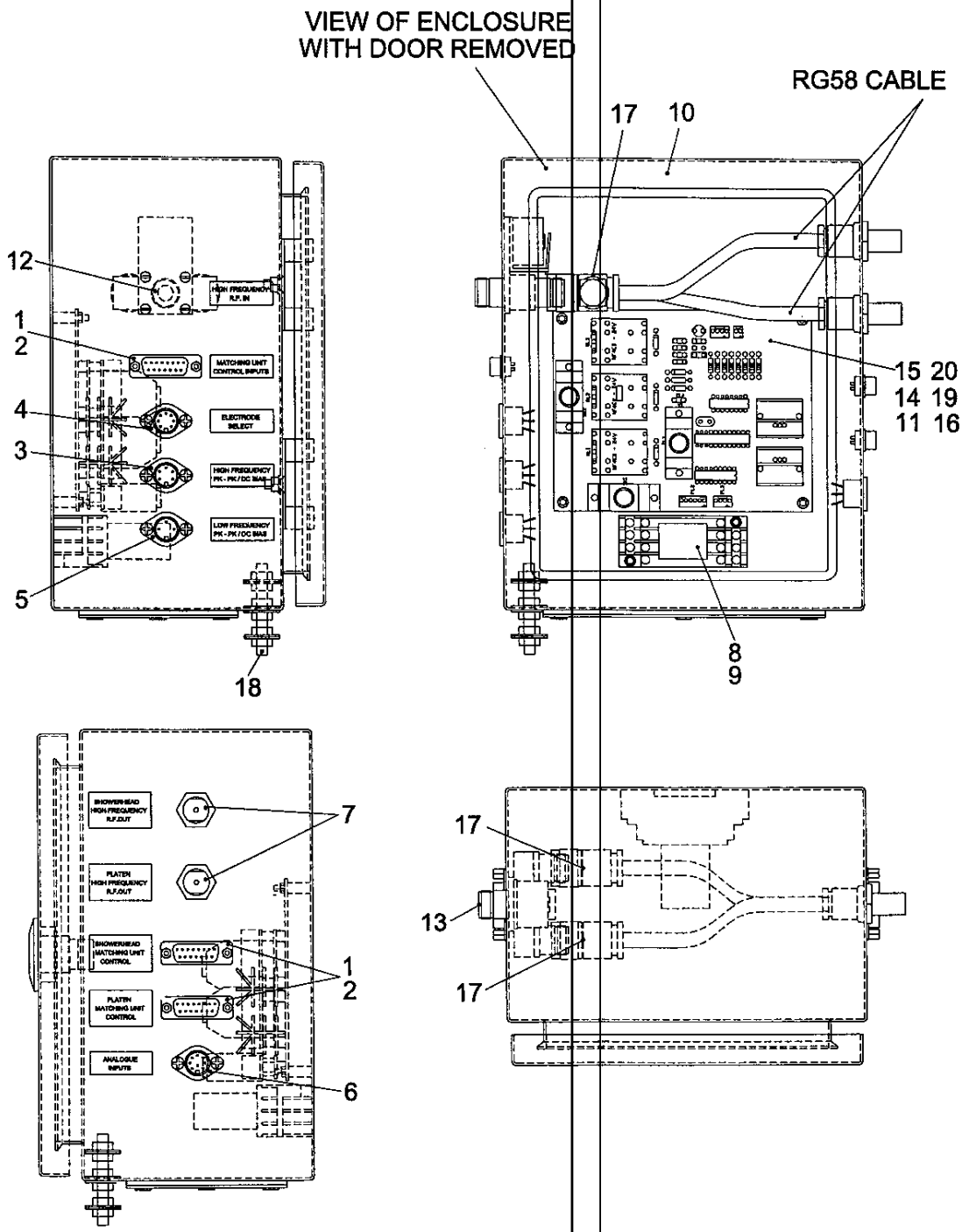


Figure 36 Electrical switch control unit

1.37 Recommended and Preventative Maintenance and Spare Parts

Part No.	Description of Part	Recommended Spares Holding	Preventative Maintenance Holding	Where Used
110511C09	Shower head	1		CVD Upper electrode - EPDM 200/208V
110511C09	Shower head	1		CVD Upper electrode 220/240V
110866E02	Soda lime discs	1	1	NW40 Viewport kit
110866E02	Soda lime discs	1	1	NW40 Viewport kit (Kalrez seals)
110867E01	Gasket DN40KF	1	1	NW40 Viewport kit
110867E01	Gasket DN40KF	1	1	NW40 Viewport kit (Kalrez seals)
110915E03	Ceramic insulating ring	1		CVD Lower electrode - 200/208V
110915E03	Ceramic insulating ring	1		CVD Lower electrode - 220/240V
110915e03	Ceramic insulating ring	1		CVD Upper electrode - EPDM 200/208V
110915E03	Ceramic insulating ring	1		CVD Upper electrode 220/240V
111031E01	Electrode spacer ring	1		CVD Lower electrode - 200/208V
111031E01	Electrode spacer ring	1		CVD Lower electrode - 220/240V
111844C03	Lower heater 220-240V	1		CVD Lower electrode - 220/240V
111844C03	Lower heater 220-240V	1		CVD Lower electrode - 220/240V
111845C03	Upper heater 220-240V	1		CVD Upper electrode 220/240V
112189C03	Lower heater 200-208V	1		CVD Lower electrode - 200/208V
112189C03	Lower heater 200-208V	1		CVD Lower electrode - 200/208V
112190C03	Upper heater 200-208V	1		CVD Upper electrode - EPDM 200/208V
130966	Insulation bush PTFE	4		CVD Upper electrode - EPDM 200/208V
130966	Insulation bush PTFE	4		CVD Upper electrode 220/240V

Continued overleaf...

1.37 Recommended and Preventative Maintenance and Spare Parts (continued...)

Part No.	Description of Part	Recommended Spares Holding	Preventative Maintenance Holding	Where Used
206341	O-ring	1	1	CVD Chamber and frame assembly
206341	O-ring (EPDM)	2	2	CVD Lower electrode - 200/208V
206341	O-ring (EPDM)	2	2	CVD Lower electrode - 220/240V
206341	O-ring	2	2	CVD Lower electrode - 200/208V
206341	O-ring	2	2	CVD Lower electrode - 220/240V
206341	O-ring (EPDM)	1	1	CVD Upper electrode - EPDM 200/208V
206341	O-ring (EPDM)	1	1	CVD Upper electrode 220/240V
206343	O-ring EPDM	1	1	CVD Upper electrode - EPDM 200/208V
206343	O-ring EPDM	1		CVD Upper electrode 220/240V
206344	O-ring	2	2	CVD Lower electrode - 200/208V
206344	O-ring	2	2	CVD Lower electrode - 220/240V
206345	O-ring	2	2	CVD Lower electrode - 200/208V
206345	O-ring	2	2	CVD Lower electrode - 220/240V
206345	O-ring	2	2	CVD Lower electrode - 200/208V
206345	O-ring	2	2	CVD Lower electrode - 220/240V
206347	O-ring	1	1	CVD Chamber and frame assembly
206348	O-ring	1	1	CVD Chamber and frame assembly
206349	O-ring	1	1	NW40 Viewport kit (Kalrez seals)
206349	O-ring	1	1	Burst pressure kit (Kalrez seals)
206349	O-ring	1	1	NW40 Port blanking kit (Kalrez seals)

Continued overleaf...

1.37 Recommended and Preventative Maintenance and Spare Parts (continued...)

Part No.	Description of Part	Recommended Spares Holding	Preventative Maintenance Holding	Where Used
206349	O-ring	1	1	Baratron assembly (Kalrez seals)
206354	O-ring	1	1	Baratron assembly (Kalrez seals)
206355	O-ring	1	1	CVD Lower electrode - 200/208V
206355	O-ring	1	1	CVD Lower electrode - 220/240V
206355	O-ring	1	1	CVD Lower electrode - 200/208V
206355	O-ring	1	1	CVD Lower electrode - 220/240V
206362	O-ring (EPDM)	1	1	CVD Upper electrode - EPDM 200/208V
206362	O-ring (EPDM)	1	1	CVD Upper electrode 220/240V
206394	O-ring (Kalrez)	2	2	CVD Lower electrode - 200/208V
206394	O-ring (Kalrez)	2	2	CVD Lower electrode - 220/240V
206394	O-ring	2	2	CVD Lower electrode - 200/208V
206394	O-ring	2	2	CVD Lower electrode - 220/240V
206394	O-ring (Kalrez)	1	1	CVD Upper electrode - EPDM 200/208V
206394	O-ring (Kalrez)	1	1	CVD Upper electrode 220/240V
206417	O-ring EPDM	1	1	CVD Upper electrode - EPDM 200/208V
206417	O-ring EPDM	1	1	CVD Upper electrode 220/240V
206447	O-ring (Kalrez)	1	1	CVD Upper electrode - EPDM 200/208V
206447	O-ring (Kalrez)	1	1	CVD Upper electrode 220/240V
211851	Gasket, plain VCR 1/4"	6		Gas in kit - low frequency matching unit kit
216932	Gate valve ISO 100	1		CVD Chamber external kit

Continued overleaf...

1.37 Recommended and Preventative Maintenance and Spare Parts (continued...)

Part No.	Description of Part	Recommended Spares Holding	Preventative Maintenance Holding	Where Used
216932	Gate valve ISO 100	1		CVD Chamber external kit (Kalrez seals)
216932	Gate valve ISO 100	1		101 ISO APC/Hivac kit
226035	Lifting cylinder	1		CVD Lid lift assembly
226738	Air cylinder	1		CVD SS Wafer lift assembly undriven electrode
226812	Air cylinder	1		CVD SS Wafer lift assembly driven electrode
228026	Flying lead sensor	1		CVD SS Wafer lift assembly undriven electrode
228026	Flying lead sensor	1		CVD SS Wafer lift assembly driven electrode
236098	2 Torr manometer	1		Baratron assembly
236098	2 Torr manometer	1		Baratron assembly (Kalrez seals)
236134	Thermocouple probe	1		CVD Mixed frequency RF enclosure assembly
236811	Exhaust throttle valve	1		CVD Chamber external kit
236811	Exhaust throttle valve	1		CVD Chamber external kit (Kalrez seals)
236811	Exhaust throttle valve	1		100 ISO APC/Hivac kit
236855	Pressure switch failsafe	1		CVD Chamber external kit
236855	Pressure switch failsafe	1		CVD Chamber external kit (Kalrez seals)
238005	Filter 1/4" VCR	2		Gas in kit - low frequency matching unit kit
246103	SKF bearing	2		CVD Lift pivot assembly
256134	Thermocouple probe	1		CVD Low frequency platen RF enclosure assembly

Continued overleaf...

1.37 Recommended and Preventative Maintenance and Spare Parts (continued...)

Part No.	Description of Part	Recommended Spares Holding	Preventative Maintenance Holding	Where Used
256442	Cartridge heater 120V 500W	1		Watlow heater kit
256744	Watlow AOV heater 120V 100W	3		Watlow heater kit
256744	Heater cartridge 700W 240V	4		V1 700W Chamber heater kit
2569870	Gearbox 80:1 ratio	1		Low frequency matching unit assembly option 2
266712	Bolt type thermocouple	1		V1 700W Chamber heater kit
266713	Boil type thermocouple	1		Watlow heater kit
282299	RFI Shielding	1	1	CVD Chamber and frame assembly
282299	RFI Shielding	1		CVD Upper electrode - EPDM 200/208V
282299	RFI Shielding	1		CVD Upper electrode 220/240V
286966	Beryllium copper 5.7mm	1		CVD Mixed frequency RF enclosure assembly
286966	Beryllium copper 5.7mm	1		CVD Low frequency platen RF enclosure assembly
286966	Beryllium copper 5.7mm	1		Low frequency RF matching unit
286966	Beryllium copper 5.7mm	1		Low frequency RF matching unit
288001	RF Shielding 2.4mm	1		CVD SS Wafer lift assembly driven electrode
288001	RF Shielding 2.4mm	1		CVD Upper electrode - EPDM 200/208V
288001	RF Shielding 2.4mm	1		CVD Upper electrode 220/240V
505090	Potentiometer 5KO	1		High mixed frequency matching unit
505090	Potentiometer 5KO	1		Mesc High frequency platen matching unit

Continued overleaf...

1.37 Recommended and Preventative Maintenance and Spare Parts (continued...)

Part No.	Description of Part	Recommended Spares Holding	Preventative Maintenance Holding	Where Used
505504	Potentiometer kit	1		High mixed frequency matching unit
505504	Potentiometer kit	1		Mesc High frequency platen matching unit
510104	Capacitor, 350pF 2KV	1		High mixed frequency matching unit
510631	Capacitor 0.1uF 100V	1		CVD Mixed frequency RF enclosure assembly
510631	Capacitor 0.1uF 100V	1		CVD Low frequency platen RF enclosure assembly
512371	Capacitor, variable ceramic vacuum	1		Low frequency matching unit assembly option 4
512505	Capacitor, variable 25-350pF	1		Mesc High frequency platen matching unit
512518	Capacitor, variable 35-1500pF	1		Mesc High frequency platen matching unit
512524	Capacitor, variable 29-357pF	1		High mixed frequency matching unit
512528	Capacitor, variable 26-1006pF	1		High mixed frequency matching unit
550019	Microswitch cabinet	1		CVD Mixed frequency RF enclosure assembly
550019	Microswitch cabinet	1		CVD Low frequency platen RF enclosure assembly
550019	550019	1		High mixed frequency matching unit
550019	Microswitch cabinet	1		Low frequency RF matching unit
550019	Microswitch cabinet	1		Low frequency matching unit assembly option 5
550019	Microswitch cabinet	1		Mesc High frequency platen matching unit
553030	Temperature switch N/C-80C 16A	1		V1 700W Chamber heater kit

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1.37 Recommended and Preventative Maintenance and Spare Parts (continued...)

Part No.	Description of Part	Recommended Spares Holding	Preventative Maintenance Holding	Where Used
560018	Gearbox 640:1 ratio	1		High mixed frequency matching unit
560018	Gearbox 640:1 ratio	1		Mesc High frequency platen matching unit
560021	Motor	1		High mixed frequency matching unit
560021	Motor	1		Low frequency matching unit assembly option 3
560021	Motor	1		Mesc High frequency platen matching unit
561688	Burst pressure disc	1		Burst pressure kit
561688	Burst pressure disc	1		Burst pressure kit (Kalrez seals)
A10935D02	Stretch coupling assembly	1		CVD SS Wafer lift assembly undriven electrode
A10935D02	Stretch coupling assembly	1		CVD SS Wafer lift assembly driven electrode
AC1763	PWB 8063-003 A310 dual	1		High mixed frequency matching unit
AC1763	PWB 8063-003 A310 dual	1		Mesc High frequency platen matching unit
AC3051	12 Turn choke	1		CVD Mixed frequency RF enclosure assembly
AC3051	12 Turn choke	1		CVD Low frequency platen RF enclosure assembly
AC3051	12 Turn choke	1		High mixed frequency matching unit
AC3051	12 Turn choke	1		Low frequency RF matching unit
AC3504	Flowswitch assembly	1		CVD Chamber and frame assembly
AS301792	Mag phase unit	1		Low frequency matching unit assembly option 1

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1.37 Recommended and Preventative Maintenance and Spare Parts (continued...)

Part No.	Description of Part	Recommended Spares Holding	Preventative Maintenance Holding	Where Used
AS307865	CVD Thermocouple assembly	1		CVD Lower electrode - 200/208V
AS307865	CVD Thermocouple assembly	1		CVD Lower electrode - 220/240V
AS307865	CVD Thermocouple assembly	1		CVD Upper electrode - EPDM 200/208V
AS307865	CVD Thermocouple assembly	1		CVD Upper electrode 220/240V
AS311695	CVD Thermocouple assembly	1		CVD Lower electrode - 200/208V
AS311695	CVD Thermocouple assembly	1		CVD Lower electrode - 220/240V
DT303425	CVD Lift special washer	1		CVD Lift pivot assembly
DT310375	CVD Gas inlet spreader	1		CVD Upper electrode - EPDM 200/208V
DT310375	CVD Gas inlet spreader	1		CVD Upper electrode 220/240V
E00017	O-ring	1	1	NW40 Viewport kit
E00017	O-ring	2	2	Burst pressure kit
E00017	O-ring	1	1	NW40 Port blanking kit
E00017	O-ring	1	1	Baratron assembly

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