

Technical Publication
RP-1104R7

Renewal Parts

HF Series Generators

REVISION HISTORY

REVISION	DATE	REASON FOR CHANGE
1	FEB 01, 2012	Inverter Modules with IGBTs RoHs V0 and V1
2	FEB 03, 2012	IPM Driver Board A3063-06
3	DEC 14, 2012	References and images upgrade
4	MAR 21, 2013	New Contactors
5	SEP 03, 2013	Inverter Modules
6	FEB 26, 2015	Generator Cover and Interface box
7	APR 21, 2016	New Inverter Module

This Document is the English original version, edited and supplied by the manufacturer.

The Revision state of this Document is indicated in the code number shown at the bottom of this page.

ADVISORY SYMBOLS

The following advisory symbols will be used throughout this manual. Their application and meaning are described below.



DANGERS ADVISE OF CONDITIONS OR SITUATIONS THAT IF NOT HEDED OR AVOIDED WILL CAUSE SERIOUS PERSONAL INJURY OR DEATH.



ADVISE OF CONDITIONS OR SITUATIONS THAT IF NOT HEDED OR AVOIDED COULD CAUSE SERIOUS PERSONAL INJURY, OR CATASTROPHIC DAMAGE OF EQUIPMENT OR DATA.



Advise of conditions or situations that if not heeded or avoided could cause personal injury or damage to equipment or data.

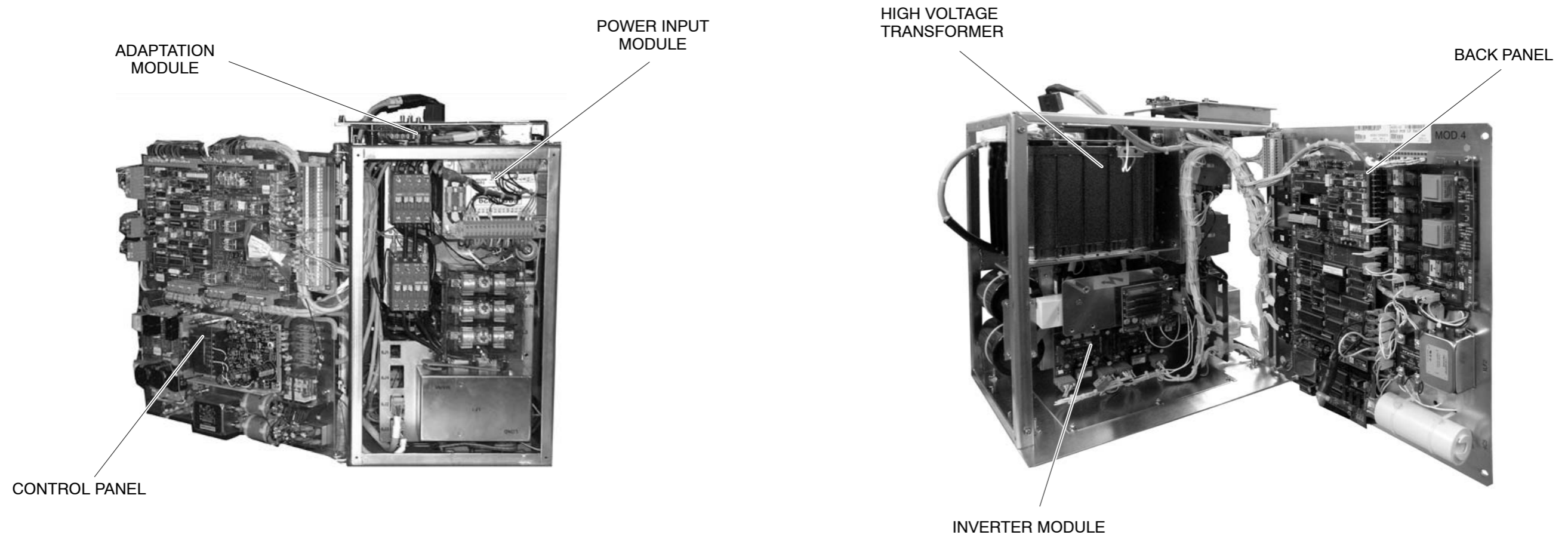
Note 

Alert readers to pertinent facts and conditions. Notes represent information that is important to know but which do not necessarily relate to possible injury or damage to equipment.

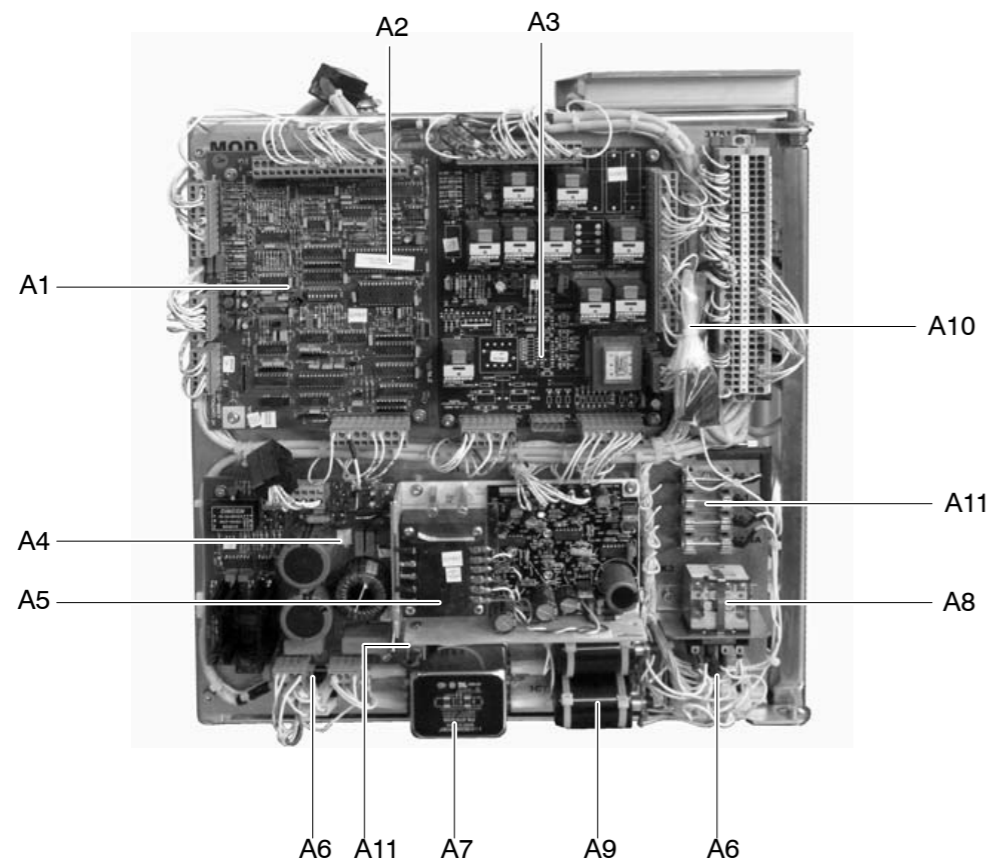
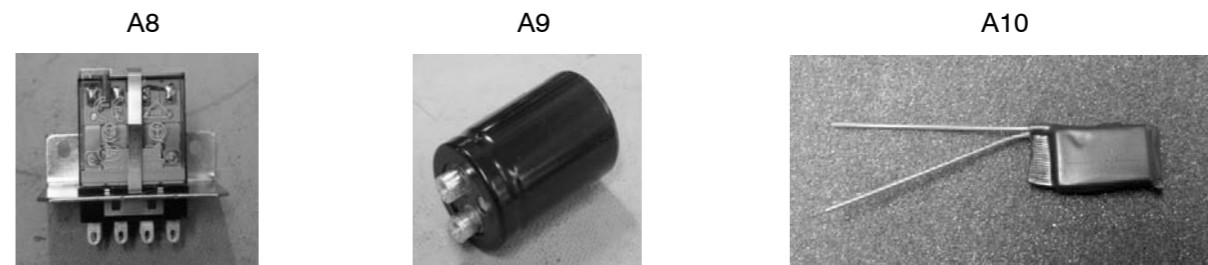
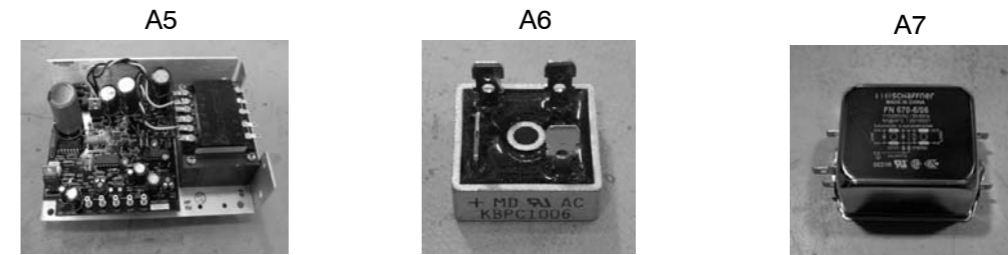
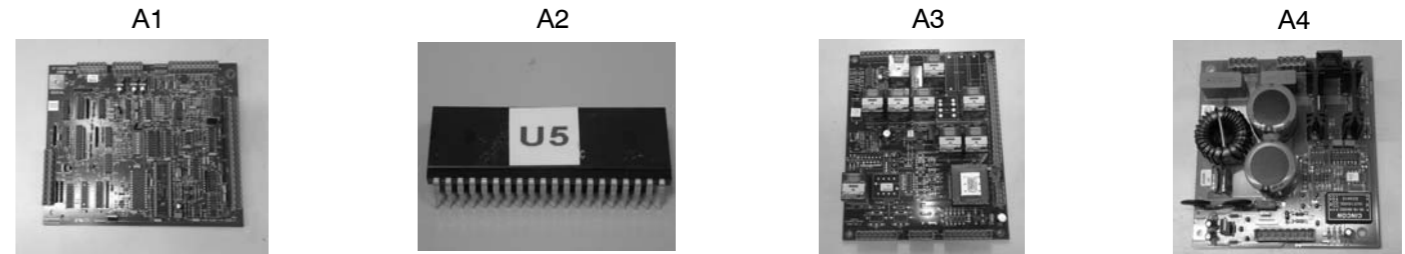
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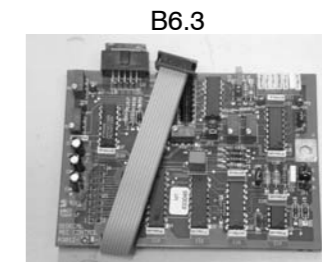
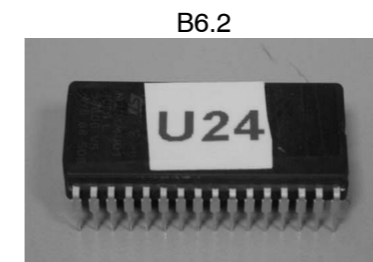
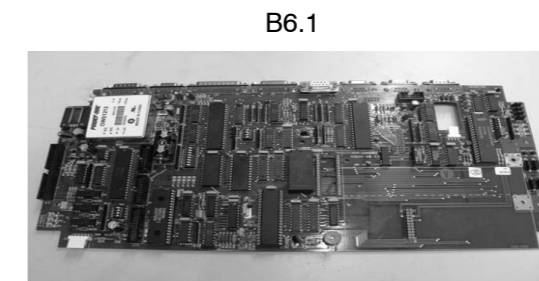
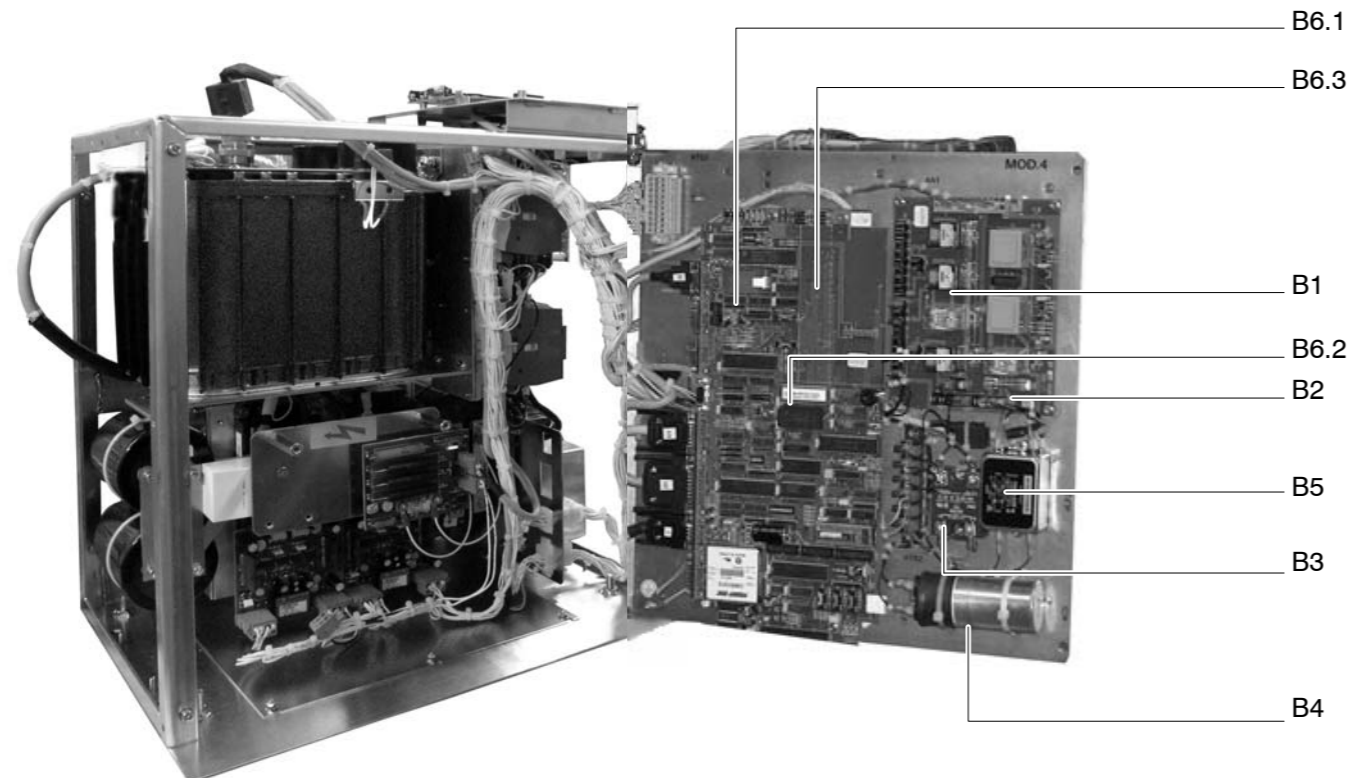
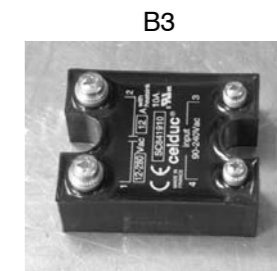
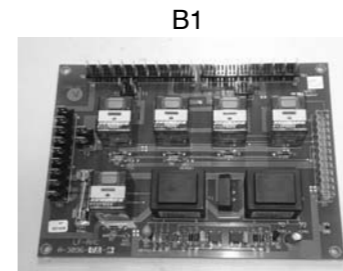
SECTION 1 **COMPACT GENERATOR (MINI)**
ONE TUBE – LOW SPEED STARTER



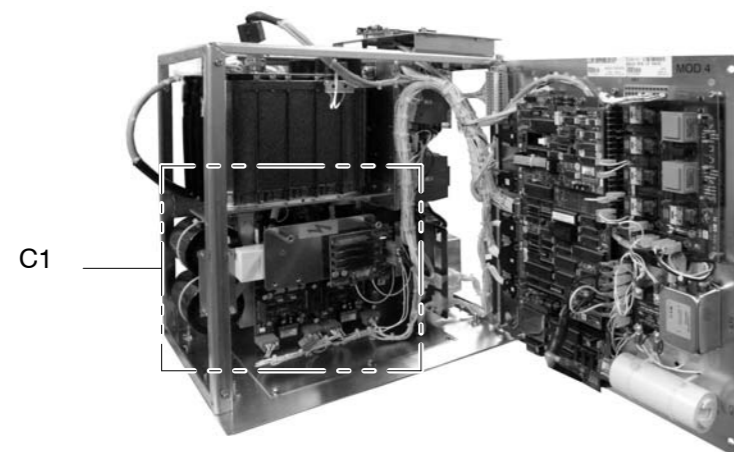
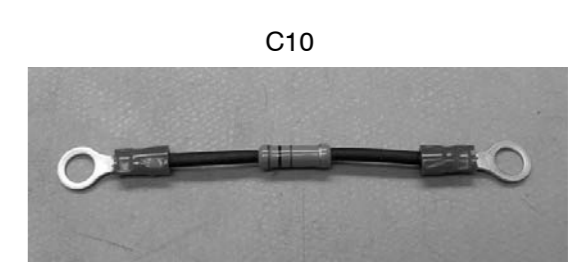
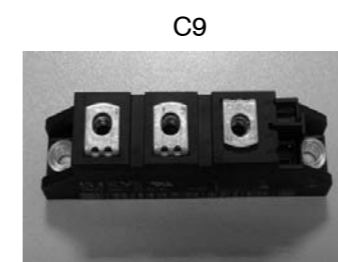
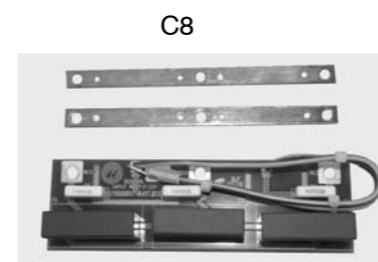
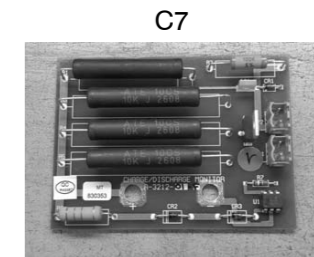
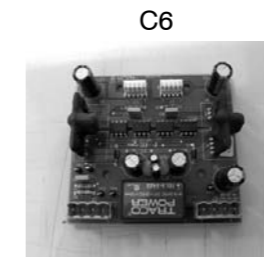
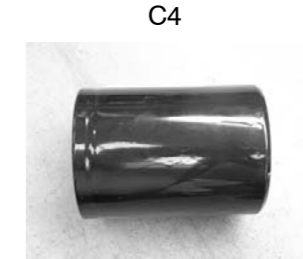
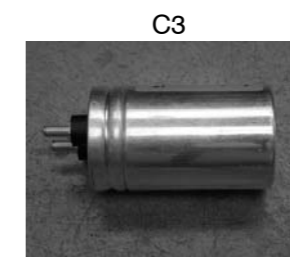
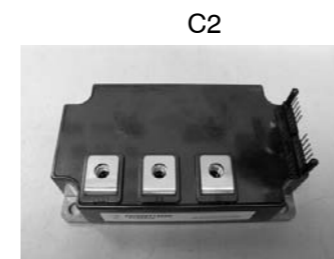
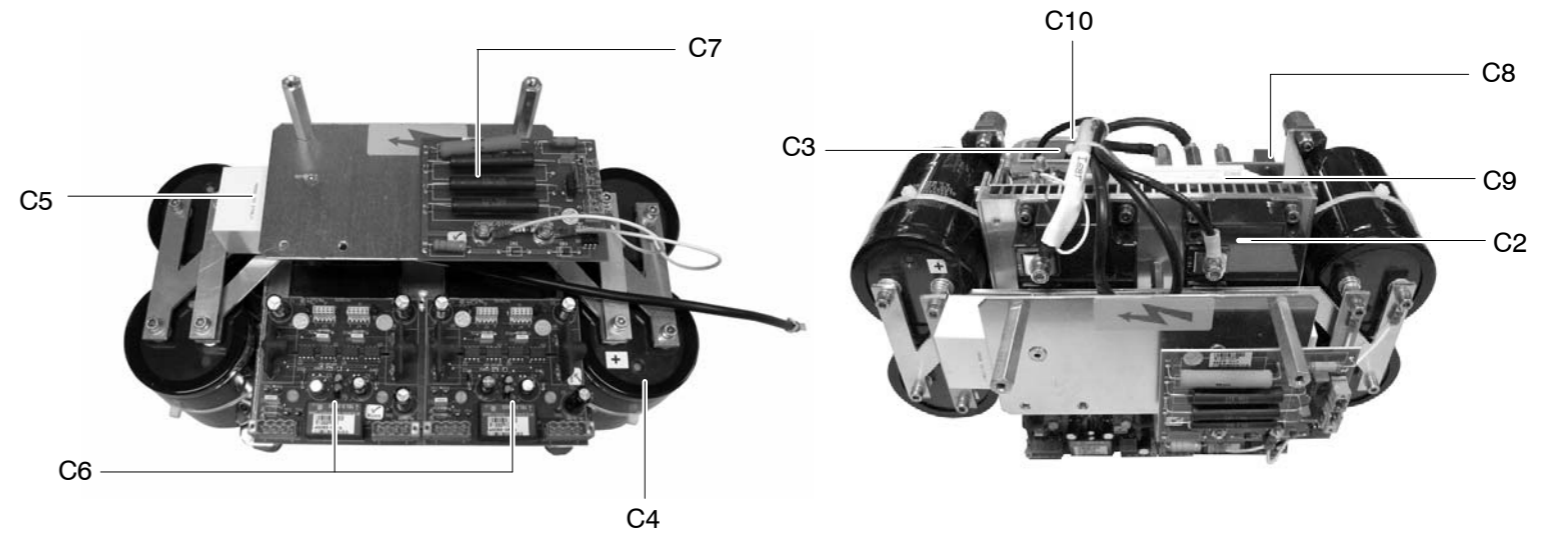
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
A0	CONTROL PANEL, MOD. 3			
A1	PCB, HT Controller	1	SAT-A3000-XX	See - XX on PCB
A2	U5 EPROM	1	SAT-SOFT-HT	See Generator serial number
A3	PCB, Interface Control	1	SAT-A3009-XX	See - XX on PCB
A4	PCB, Filament Driver	1	SAT-A3004-XX	See - XX on PCB
A5	Low Voltage Power Supply	1	SAT-53418001	PS1
A6	Rectifier Bridge FAGOR / 10Amp.	3	SAT-53404002	BR1, BR2 & BR4
A7	Filter Line	1	SAT-50208001	LF3
A8	ON/OFF Relay 4PDT /110V	1	SAT-51401012	K3
A9	Capacitor ELE 2400 μ F, 50V	2	SAT-54002007	C6, C7
A10	Equipped RC	1	SAT-A3313-02	Supplied in a bag
A11	Fuses F2, F6, F7, F8, F9		A520301-01	See Fuse Kit (<i>item 10</i>)



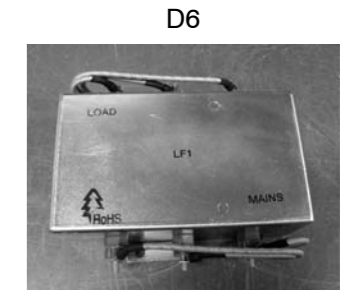
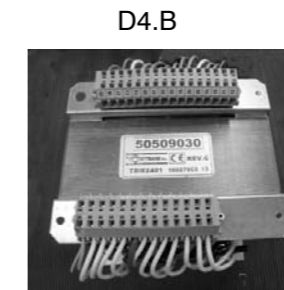
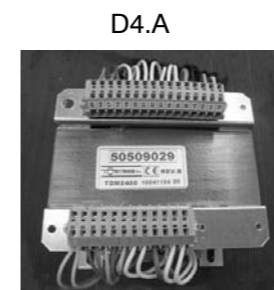
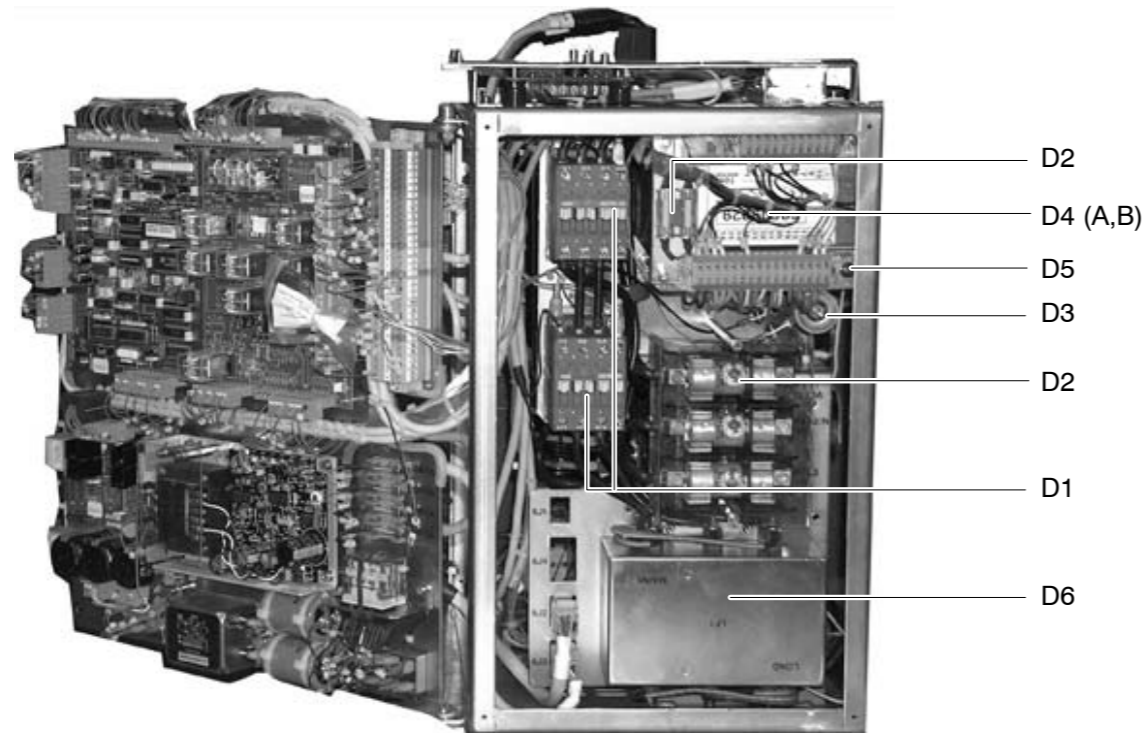
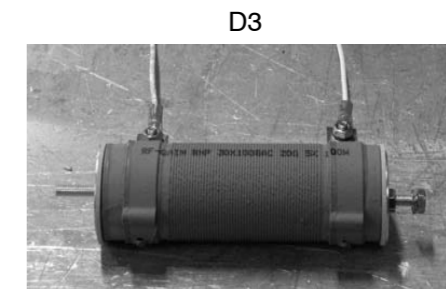
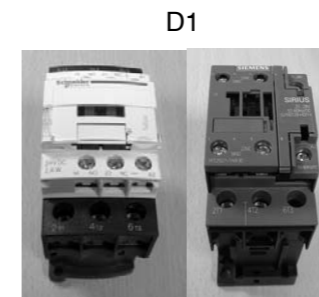
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
B0	BACK PANEL, MOD.4			
B1	PCB, LF-RAC	1	SAT-A3096-XX	See - XX on PCB -02: Standard ; -04: Reduced
B2	Fuse F1		A520301-01	See Fuse Kit (item 10)
B3	Relay Solid State	1	SAT-51404008	
B4	Capacitor 30 μ F, 370V	1	SAT-54001002	
B5	Filter Line	1	SAT-50208001	
B6	CPU			Only for Serial (RS232) Generators
B6.1	PCB, ATP Console CPU	1	SAT-A3024-XX	Optional - See XX on PCB
B6.2	U24 EPROM	1	SAT-SOFT-ATP	See Generator serial number
B6.3	PCB, AEC Control	1	SAT-A3012-XX	Optional - See XX on PCB



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
C0	INVERTER MODULE, MOD. 5			
C1	Inverter 3 Ph, 400–480 V, Lo kW	1	SAT-A11700-56	
C1	Inverter 3 Ph, 220–240 V, Lo kW	1	SAT-A11700-59	
C1	Inverter 3 Ph, 220–240 V, Hi kW	1	SAT-A11700-60	
C1	Inverter 1 Ph, 220–240 V, Lo kW	1	SAT-A11700-57	
C1	Inverter 1 Ph, 220–240 V, Hi kW	1	SAT-A11700-61	
C2	IGBT 300A / 1200V Low Power	2	SAT-53416038	Used in Inverters A11700-56
C2	IGBT 600A / 600V	2	SAT-53416039	Used in Inverters A11700-60/61
C2	IGBT 400A / 600V	2	SAT-53416040	Used in Inverters A11700-59/57
C3	Capacitor 40 μ F, 450 VDC	1	SAT-54001006	C9, for 220–240 VAC Gen.
C3	Capacitor 10 μ F, 1000 VDC	1	SAT-54001011	C9, for 400–480 VAC Gen.
C4	Capacitor Elec. 3700 μ F, 450 VDC	4	SAT-54002011	C1, C2, C3 & C4
C5	Capacitor 2 μ F, 1000 VDC	2	SAT-54008002	C10, C11
C6	PCB, IPM Driver	2	SAT-A3063-06	
C7	PCB, Charge / Discharge Monitor	1/2	SAT-A3212-01	1 PCB for 1 Ph & 2 for 3Ph
C8	Input Rectifier Board	1	SAT-A3255-03	Includes 2 metallic Plates
C9	Rectifier SKKD 40F10	2/3	SAT-53404019	CR1, CR2, CR3 (only 2 for 1 Ph)
C10	Equipped Resistor	1	SAT-A3312-01	



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
D0	POWER INPUT MODULE, MOD. 6			
D1	Contactors 3 Ph / 24V / 50 Amp	2	SAT-51405016	K5 and K6
D2	Fuse F3, F4, F5, F12, F13		A520301-01	See Fuse Kit (item 10)
D3	Resistor 20 ohms /100 W / 10%	1	SAT-52707021	R1
D4.A	Transformer T2	1	SAT-50509029	T2 for 3 ph 400-480 VAC
D4.B	Transformer T2	1	SAT-50509030	T2 for 3 ph & 1 ph 220-240 VAC
D5	Green light Lamp	1	SAT-54203006	NL1
D6	Input Filter	1	SAT-A6371-01	LF1



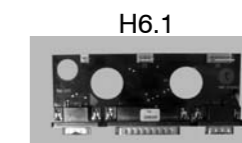
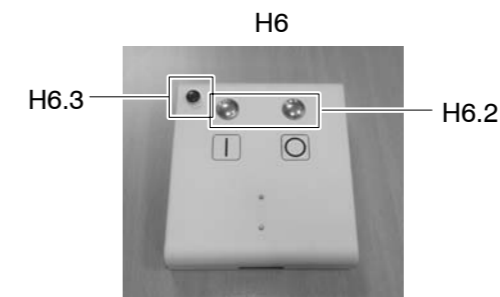
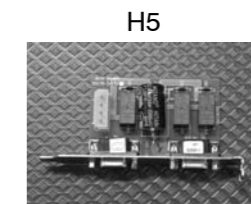
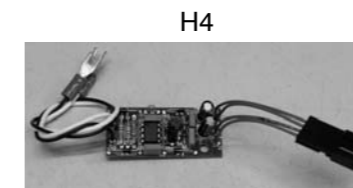
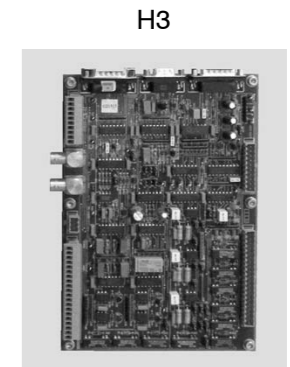
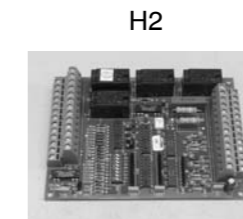
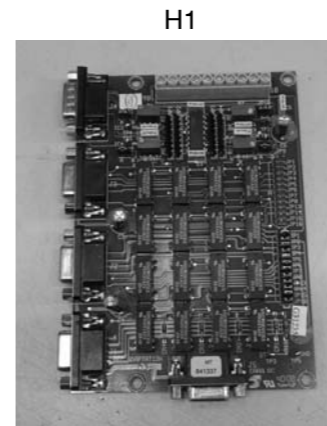
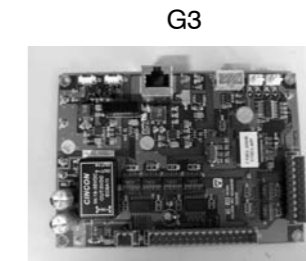
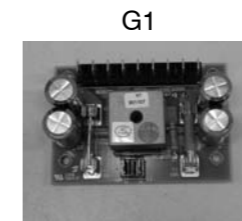
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
E0	HIGH VOLTAGE TANK – HERMETICAL TANK (ALUMINIUM)			
E1	Standard Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6097-01	
	H V Tank (125 kV)/ 1Tube 400V	1	SAT-A6097-02	
	H V Tank (125 kV)/ 1Tube 480V	1	SAT-A6097-03	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6097-06	
	H V Tank (150 kV)/ 1Tube 400V	1	SAT-A6097-07	
	H V Tank (150 kV)/ 1Tube 480V	1	SAT-A6097-08	
E2	Amorphous Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6097-11	
	H V Tank (125 kV)/ 1Tube 400V	1	SAT-A6097-12	
	H V Tank (125 kV)/ 1Tube 480V	1	SAT-A6097-13	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6097-16	
	H V Tank (150 kV)/ 1Tube 400V	1	SAT-A6097-17	
	H V Tank (150 kV)/ 1Tube 480V	1	SAT-A6097-18	

E1 – E2

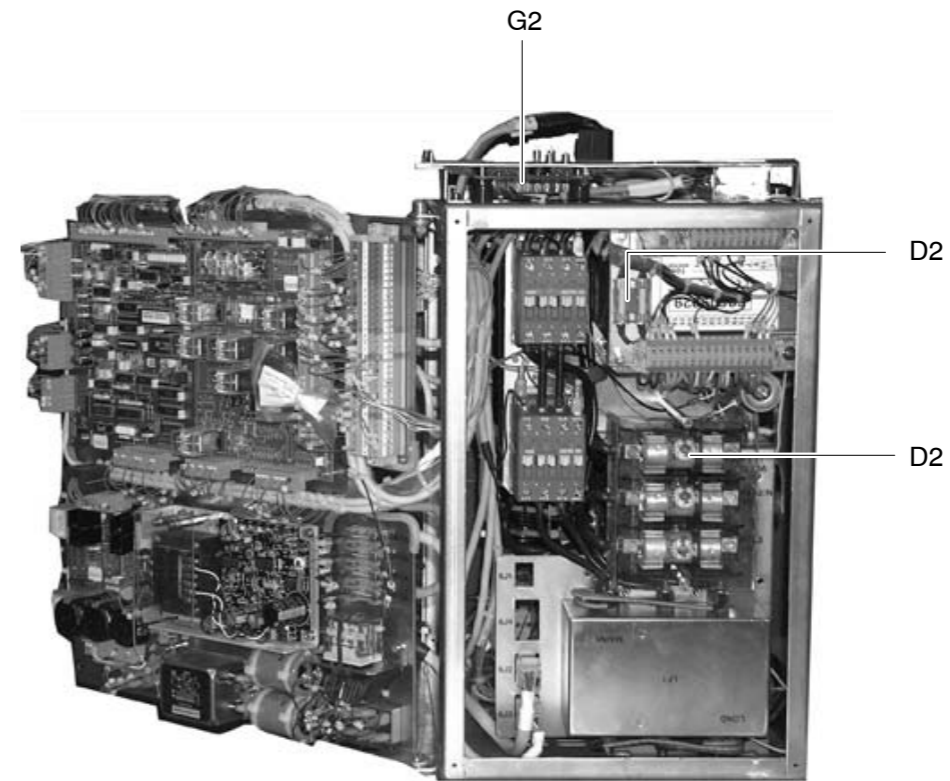
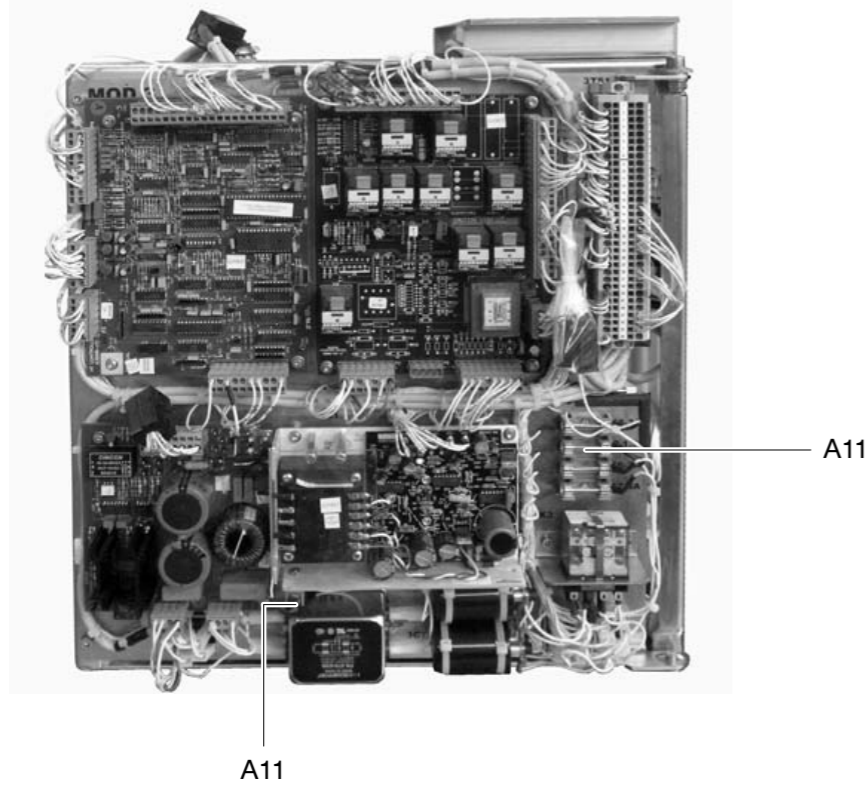
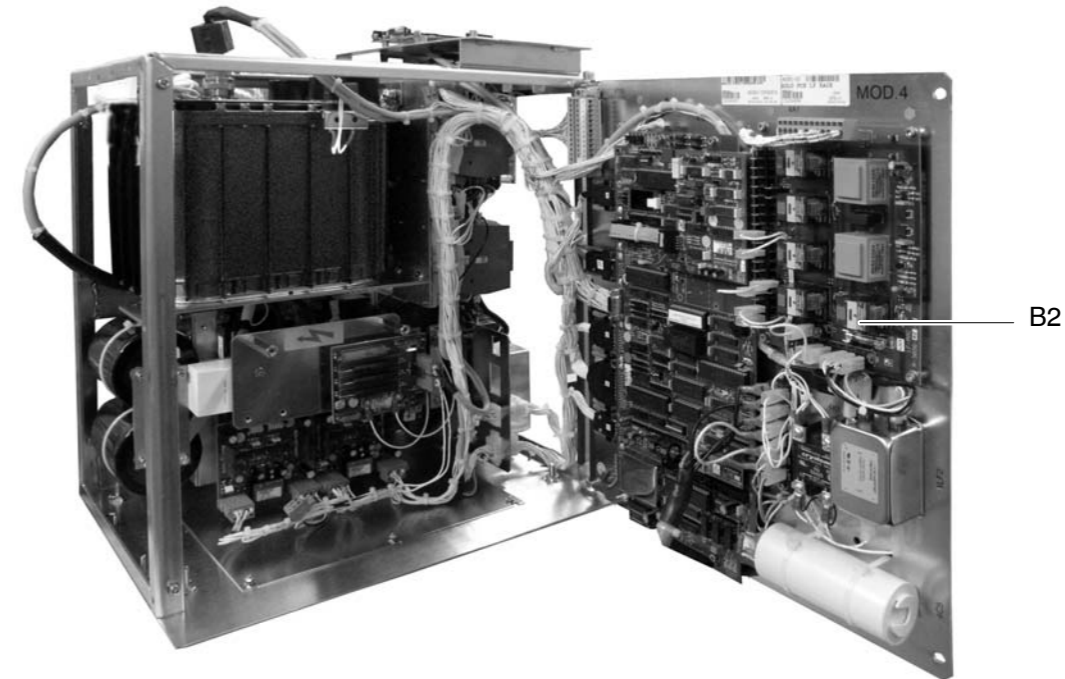


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
G0	ADAPTATION MODULE			
G1	PCB, Locks	1	SAT-A3214-02	
G2	Fuse F1, F2		A520301-01	See Fuse Kit (item I0)
G3	Generator CAN Adapter		SAT-A3548-01	
G4	Adaptations / Options	-		See Adaptations / Options (Item H0). Some Adaptations / Options can be installed on the upper side of the Adaptation Module.

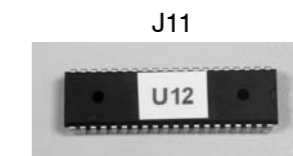
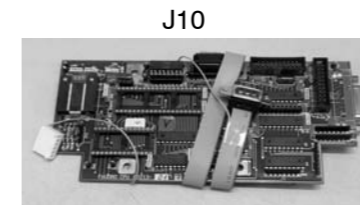
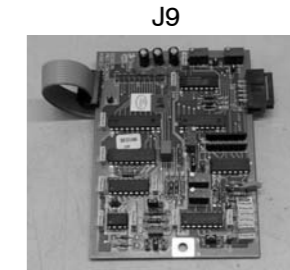
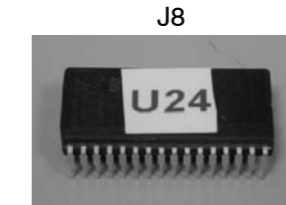
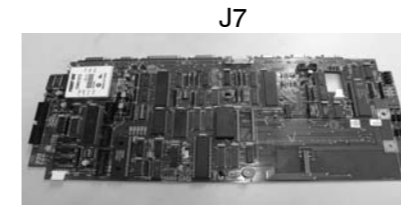
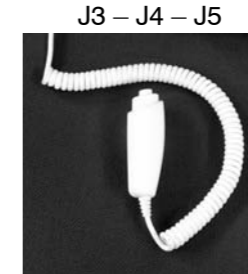
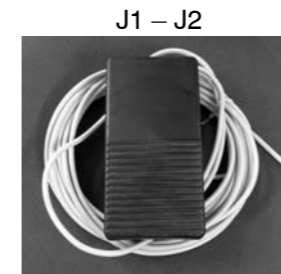
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
H0	ADAPTATIONS / OPTIONS			
H1	PCB, AEC Adaptation	1	SAT-A3263-03	For 4 Ion Chambers
H2	PCB, Tomo / Bucky	1	SAT-A3261-03	-05 for Bucky 220 VAC
H3	PCB, RF Adaptation	1	SAT-A3514-XX	Only for RF Generator Optional - See -XX on PCB
H4	PhotoMultiplier Adaptation	1	SAT-A6636-01	Not installed in the Generator.
H5	PCB, Auto On /Off	1	SAT-A3179-02	Installed inside a PC
H6	Interface Box PC	1	SAT-A6509-40	For using with a PC
H6.1	PCB Interface Box	1	SAT-A9532-01	
H6.2	Push Button	2	SAT-50613050	
H6.3	Green Lamp	1	SAT-A7262-01	
H7	Dosimeter Option	-		For Renewal Parts refer to the Appendix of the Radiation Measuring System
H8	Other Interface PCB	-		For Renewal Parts refer to PCB



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS																								
I0	FUSE KIT	1	A520301-01	<p>The Fuse Kit is common for all the Generator models and comprises:</p> <table border="1"> <thead> <tr> <th>Reference</th> <th>Qty</th> </tr> </thead> <tbody> <tr><td>53801002</td><td>20</td></tr> <tr><td>53801003</td><td>20</td></tr> <tr><td>53801008</td><td>20</td></tr> <tr><td>53801011</td><td>6</td></tr> <tr><td>53801012</td><td>10</td></tr> <tr><td>53801015</td><td>10</td></tr> <tr><td>53801017</td><td>10</td></tr> <tr><td>53801018</td><td>10</td></tr> <tr><td>53801019</td><td>10</td></tr> <tr><td>53801026</td><td>30</td></tr> <tr><td>53801029</td><td>6</td></tr> </tbody> </table> <p>All fuses installed in the unit are included in the Fuse Kit.</p>	Reference	Qty	53801002	20	53801003	20	53801008	20	53801011	6	53801012	10	53801015	10	53801017	10	53801018	10	53801019	10	53801026	30	53801029	6
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53801017	10																											
53801018	10																											
53801019	10																											
53801026	30																											
53801029	6																											
A11	Fuse 1.5 A /250V , SB		SAT-53801012	Control Panel: F2																								
	Fuse 3 A / 250V , SB		SAT-53801003	Control Panel: F6, F7, F8																								
	Fuse 0.4 A / 250V ,SB		SAT-53801015	Power Supply: F9																								
B2	Fuse 6A / 250V, SB		SAT-53801002	LF-RAC Board: F1																								
D2	Fuse 50A / 600V SB		SAT-53801011	Input Line: F3, F4, F5																								
	Fuse 10A / 250V T		SAT-53801008	Transformer T2: F12, F13																								
G2	Fuse 6A / 250V, SB		SAT-53801002	Lock Board: F1																								
	Fuse 10A / 250V, SB		SAT-53801008	Lock Board: F2																								



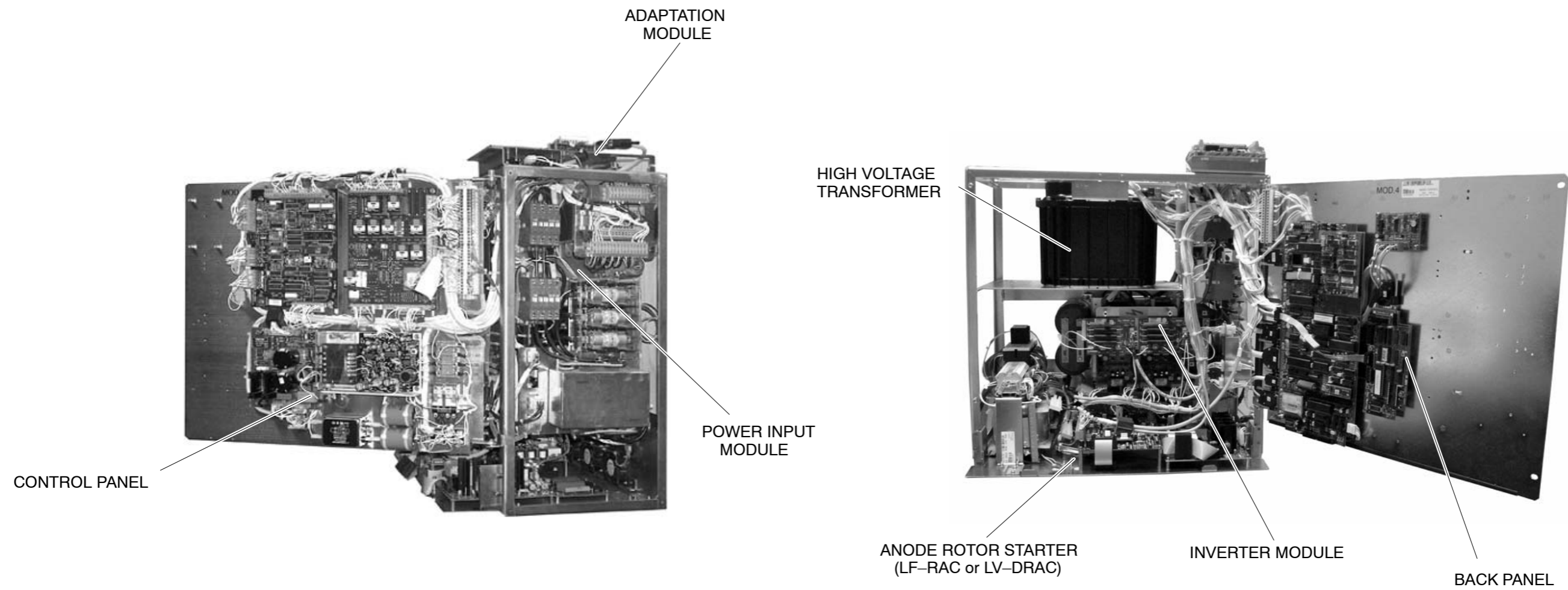
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
J0	CONSOLE			
J1	Pedal Switch for RAD (2 Microswitches)	1	SAT-A6389-XX	With Molex Connector: -01 (4 m); -02 (8 m); With Binder Connector: -04 (8 m); -05 (5 m); -06 (12 m) Without Connector: -08 (8 m); -09 (5 m)
J2	Pedal Switch for Fluoro (1 Microswitch)	1	SAT-A6389-07	(8 m)
J3	Hand Switch equipped – DIN Connector	1	SAT-A3399-XX	-01 for Serial Console -04 Touch Screen Console Included Item J6
J4	Hand Switch equipped	1	SAT-A3223-03	For Standard Console – Included Item J6
J5	Hand Switch equipped – Sub D Conn.	1	SAT-A3223-15	For ON / OFF Interface Box Included Item J6
J6	Hand Switch Support	1	SAT-7897-01	
J7	PCB, ATP Console CPU	1	SAT-A3024-XX	See -XX on PCB
J8	U24 EPROM	1	SAT-SOFT-ATP	See Generator serial number
J9	PCB, AEC Control	1	SAT-A3012-XX	Optional – See XX on PCB
J10	PCB, Fluoro CPU	1	SAT-A3213-XX	Only for RF Generator Optional – See -XX on PCB
J11	U12 EPROM	1	SAT-SOFT-FL	See Generator serial number
J12	Console Overlay	1		See Generator serial number
J13	PCB, Display Console	1		See Generator serial number
J14	TPC Pedestal	1	SAT-A6272-00	
J15	Multipurpose Pedestal	1	SAT-A6267-00	
J16	Table Support	1	SAT-A6271-00	
J17	Wall Support	1	SAT-A6273-00	
J18	Pedestal Support	1	A520385-01	



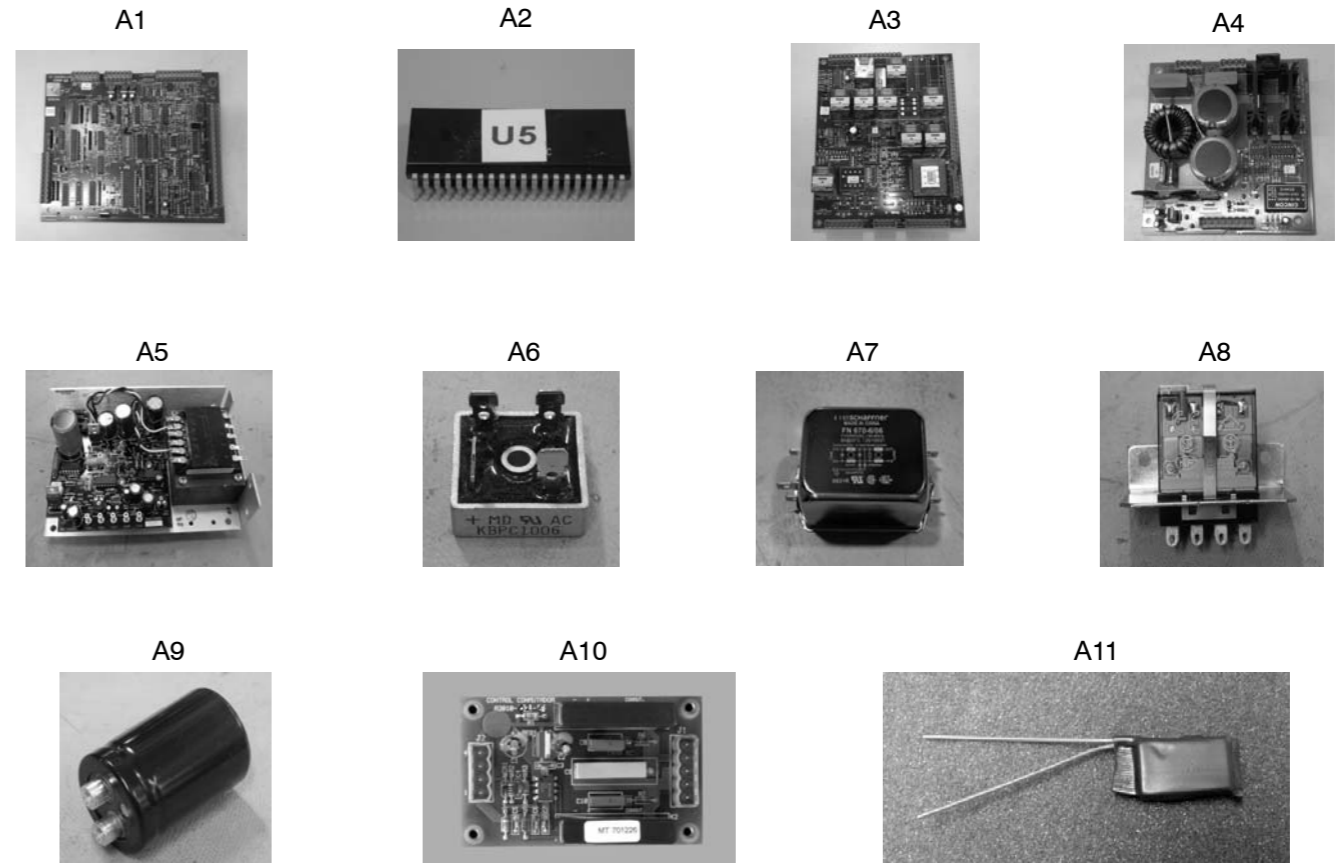
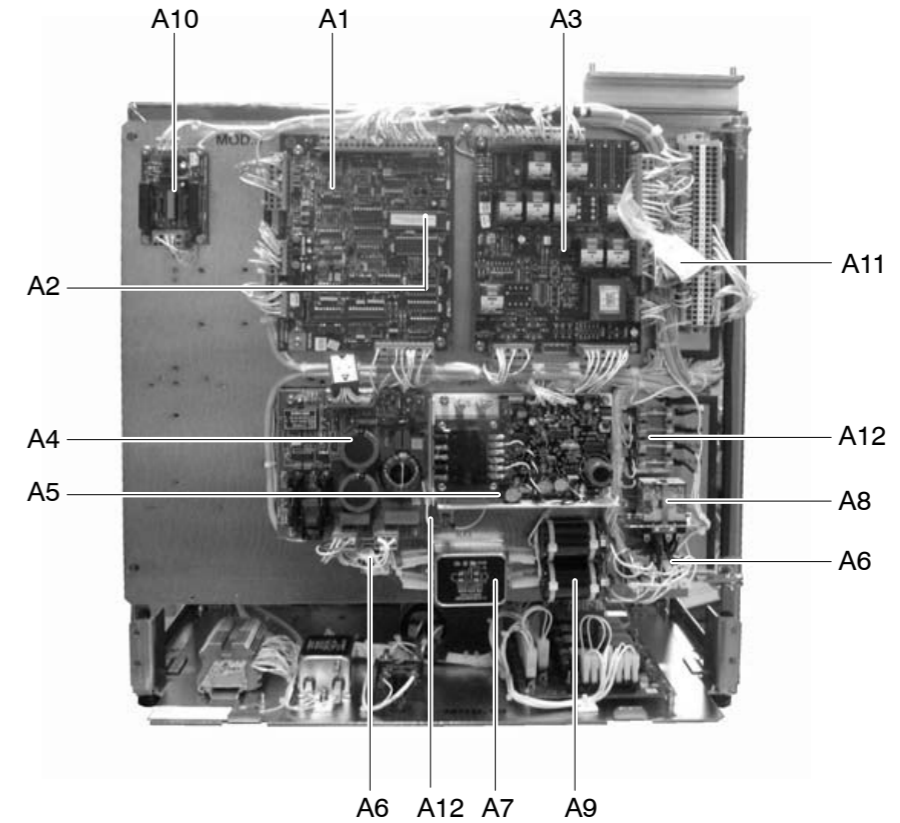
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
K0	INTERCONNECTIONS			
K1	Serial Cable	1	SAT-A7066-XX	-XX Length Dependant
K2	Serial Cable	1	SAT-A7067-XX	-XX Length Dependant
K3	Power Cable J1 (xx m)	1	SAT-A3230-XX	-XX Length Dependant
K4	Communication Cable J3 (xx m)	1	SAT-A3231-XX	-XX Length Dependant
K5	Interface Cable J2 (xx m) 15 wires	1	SAT-A3379-XX	-XX Length Dependant
K6	AEC Adaptation Cable (J5-J4)	1	SAT-A3251-01	
K7	Adaptation Cable for GE Ion Chamber	1	SAT-A3082-01	Option related to the Ion Chamber
K8	Adaptation Cable for BVM/CGR Ion Chamber	1	SAT-A3081-01	Option related to the Ion Chamber
K9	Adaptation Cable for MEDYS Ion Chamber	1	SAT-A6715-01	Option related to the Ion Chamber
K10	Adaptation Cable for Philips Ion Chamber	1	SAT-A3080-01/02	Option related to the Ion Chamber
K11	Interface Box Serial Cable	1	SAT-A3352-XX	-XX Length Dependant
K12	Interface Box – Computer Cable	1	SAT-A3363-XX	-XX Length Dependant

ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
L0	MISCELLANIOUS			
L1	Cover Generator	1	SAT-6470-XX	XX=15 (550 mm height) XX=16 (510 mm height)

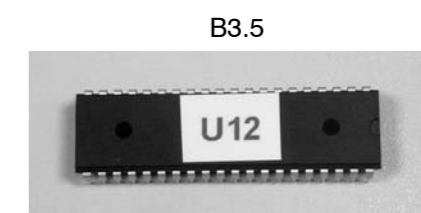
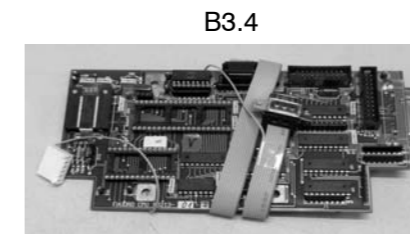
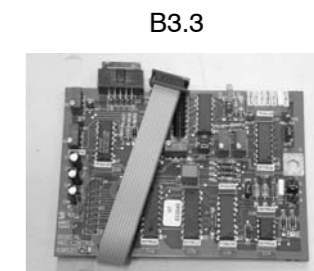
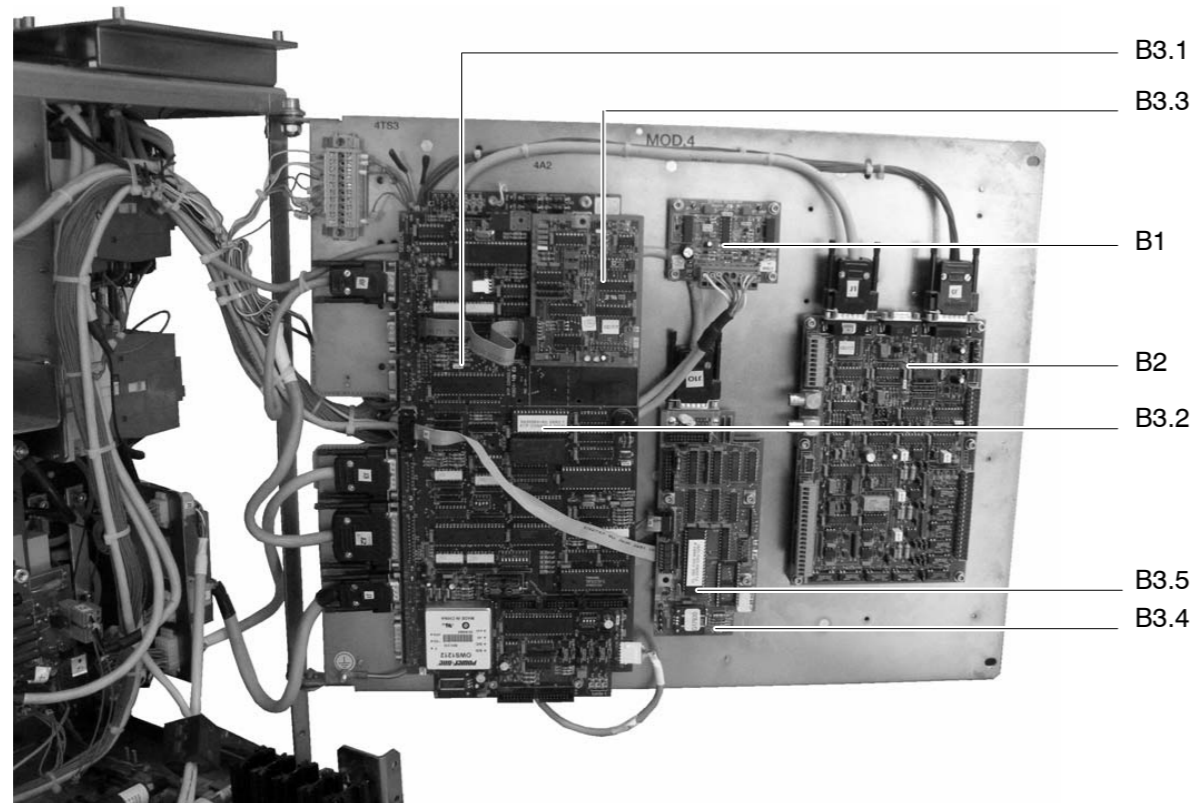
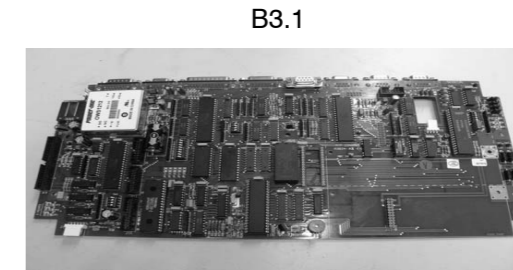
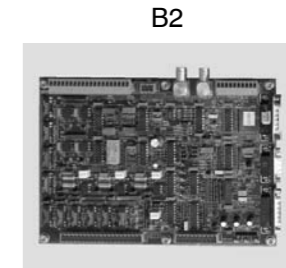
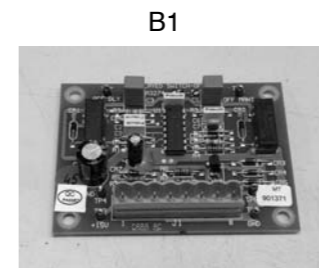
SECTION 2 **COMPACT GENERATOR**
ONE TUBE / TWO TUBES –
LOW SPEED STARTER /
HIGH SPEED STARTER



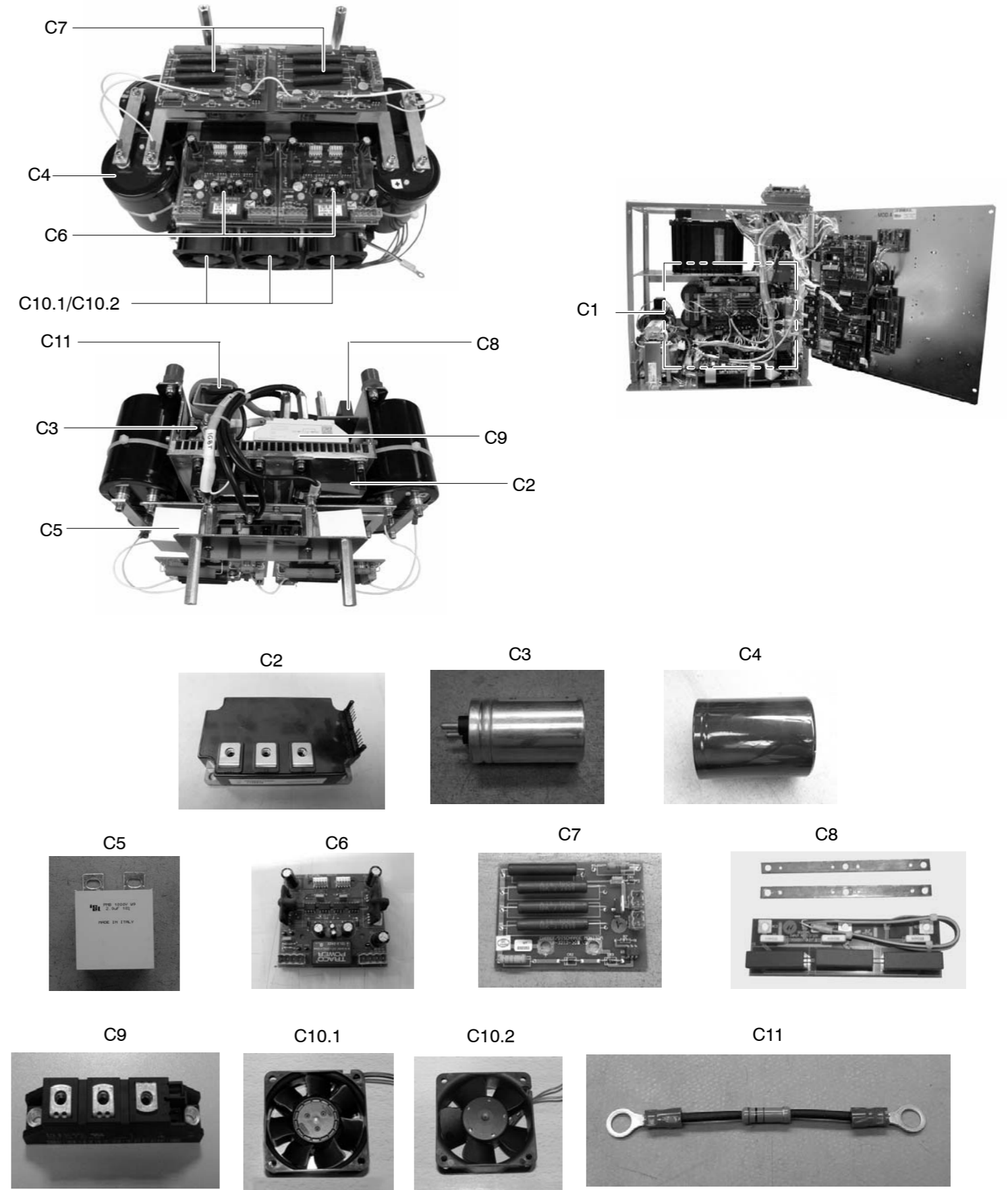
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
A0	CONTROL PANEL, MOD. 3			
A1	PCB, HT Controller	1	SAT-A3000-XX	See - XX on PCB
A2	U5 EPROM	1	SAT-SOFT-HT	See generator serial number
A3	PCB, Interface Control	1	SAT-A3009-XX	See - XX on PCB
A4	PCB, Filament Driver	1	SAT-A3004-XX	See - XX on PCB
A5	Low Voltage Power Supply	1	SAT-53418001	PS1
A6	Rectifier Bridge FAGOR / 10Amp.	3	SAT-53404002	BR1, BR2 & BR4
A7	Filter Line	1	SAT-50208001	LF3
A8	ON/OFF Relay 4PDT /110V	1	SAT-51401012	K3
A9	Capacitor ELE 2400 μ F, 50V	2	SAT-54002007	C6, C7
A10	PCB, Control Switch	2	SAT-A3010-02	
A11	Equipped RC	1	SAT-A3313-02	Supplied in a bag
A12	Fuses F2, F6, F7, F8, F9		A520301-01	See Fuse Kit (<i>item J0</i>)



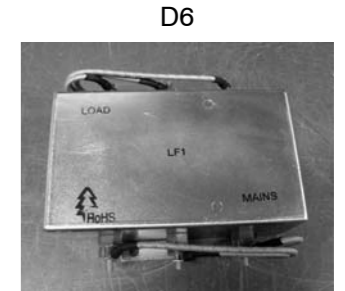
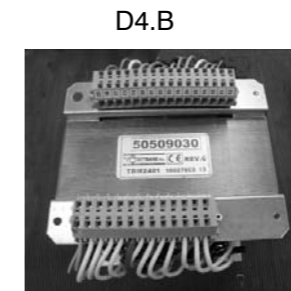
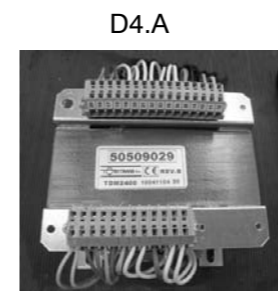
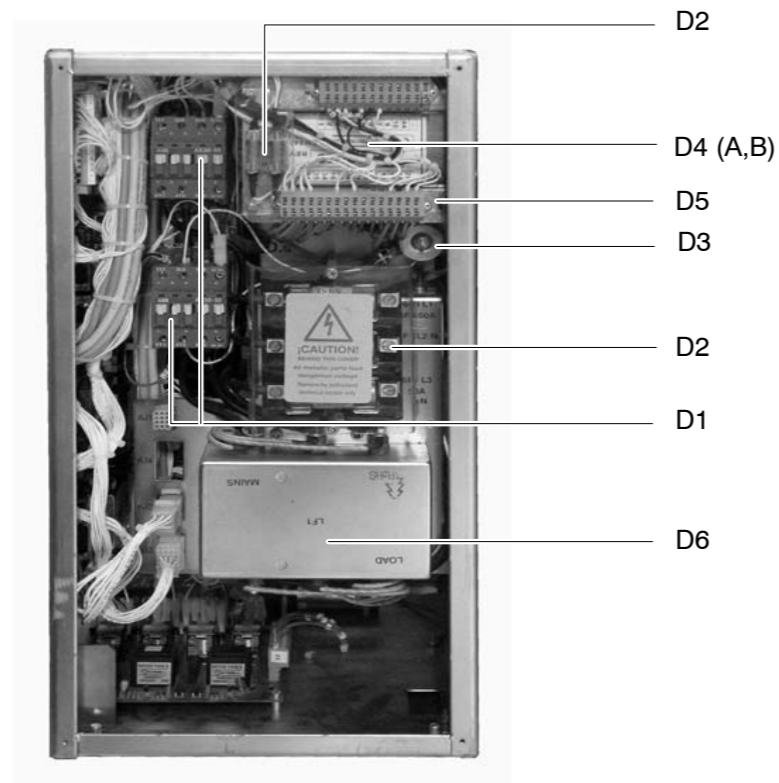
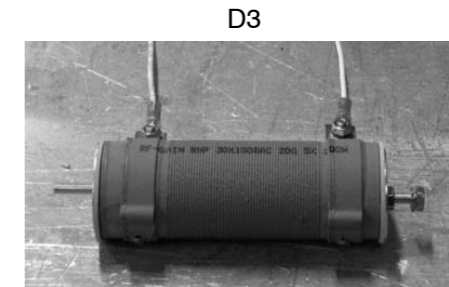
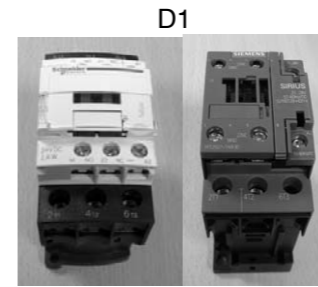
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
B0	BACK PANEL, MOD.4			
B1	Delayed Switch Off PCB	1	SAT-A3274-01	
B2	PCB, RF Adaptation	1	SAT-A3514-XX	Only for RF Generator Optional - See -XX on PCB
B3	CPU			Only for Serial (RS232) Generators
B3.1	PCB, ATP Console CPU	1	SAT-A3024-XX	Optional - See - XX on PCB
B3.2	U24 EPROM	1	SAT-SOFT-ATP	See Generator serial number
B3.3	PCB, AEC Control	1	SAT-A3012-XX	Optional - See - XX on PCB
B3.4	PCB, Fluoro CPU	1	SAT-A3213-XX	Only for RF Generator Optional - See -XX on PCB
B3.5	U12 EPROM	1	SAT-SOFT-FL	See Generator serial number



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
C0	INVERTER MODULE, MOD. 5			
C1	Inverter 3 Ph, 400–480 V, Lo kW	1	SAT–A11700–56	
C1	Inverter 3 Ph, 400–480 V, Lo kW R & F with fans	1	SAT–A11700–15	
C1	Inverter 3 Ph, 400–480 V, Hi kW R & F with fans	1	SAT–A11700–35	
C1	Inverter 3 Ph, 400–480 V, Hi kW R & F with fans	1	SAT–A11700–40	
C1	Inverter 3 Ph, 400–480 V, Hi kW with fans	1	SAT–A11700–90	
C1	Inverter 3 Ph, 220–240 V, Lo kW	1	SAT–A11700–59	
C1	Inverter 3 Ph, 220–240 V, Hi kW	1	SAT–A11700–60	
C1	Inverter 3 Ph, 220–240 V, Hi kW R & F with fans	1	SAT–A11700–21	
C1	Inverter 1 Ph, 220–240 V, Lo kW	1	SAT–A11700–57	
C1	Inverter 1 Ph, 220–240 V, Lo kW R & F with fans	1	SAT–A11700–25	
C1	Inverter 1 Ph, 220–240 V, Hi kW	1	SAT–A11700–61	
C1	Inverter 1 Ph, 220–240 V, Hi kW R & F with fans	1	SAT–A11700–26	
C1	Inverter 1 Ph, 220–240 V, Hi kW R & F with fans	1	SAT–A11700–27	
C2	IGBT 300A / 1200V Low Power	2	SAT–53416038	Used in Inverters A11700–56/15/35/40
C2	IGBT 450A / 1200V	2	SAT–53416048	Used in Inverter A11700–90
C2	IGBT 600A / 600V	2	SAT–53416039	Used in Inverters A11700–60/21/61/26/27
C2	IGBT 400A / 600V	2	SAT–53416040	Used in Inverters A11700–59/57/25
C3	Capacitor 40 μ F, 450 VDC	1	SAT–54001006	C9, for 220–240 VAC Gen.
C3	Capacitor 10 μ F, 1000 VDC	1	SAT–54001011	C9, for 400–480 VAC Gen.
C4	Capacitor Elec. 3700 μ F, 450 VDC	4	SAT–54002011	C1, C2, C3 & C4
C5	Capacitor 2 μ F, 1000 VDC	2	SAT–54008002	C10, C11
C6	PCB, IPM Driver	2	SAT–A3063–06	
C7	PCB, Charge / Discharge Monitor	1/2	SAT–A3212–01	1 PCB for 1 Ph & 2 for 3 Ph
C8	Input Rectifier Board	1	SAT–A3255–03	Includes 2 metallic Plates
C9	Rectifier SKKD 40F10	3/2	SAT–53404019	CR1, CR2, CR3 (only 2 for 1 Ph)
C10.1	Fan Micro Boxer 24 VDC	3	SAT–53103001	
C10.2	Fan Micro Boxer 24 VDC PAPST	3	SAT–53103007	Used in Inverters A11700–27/35/40/90
C11	Equipped Resistor	1	SAT–A3312–01	



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
D0	POWER INPUT MODULE, MOD. 6			
D1	Contactors 3 Ph / 24V / 50 Amp	2	SAT-51405016	K5 and K6
D2	Fuses F3, F4, F5, F12, F13		A520301-01	See Fuse Kit (item J0)
D3	Resistor 20 ohms /100 W / 10%	1	SAT-52707021	R1
D4.A	Transformer T2	1	SAT-50509029	T2 for 3 ph 400-480 VAC
D4.B	Transformer T2	1	SAT-50509030	T2 for 3 ph & 1 ph 220-240 VAC
D5	Green light Lamp	1	SAT-54203006	NL1
D6	Input Filter	1	SAT-A6371-01	LF1

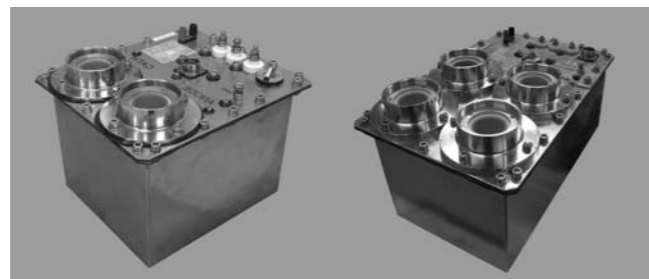


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
E0	HIGH VOLTAGE TANK – HERMETICAL TANK (ALUMINIUM)			
E1	Standard Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6097-01	
	H V Tank (125 kV)/ 1Tube 400V	1	SAT-A6097-02	
	H V Tank (125 kV)/ 1Tube 480V	1	SAT-A6097-03	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6097-06	
	H V Tank (150 kV)/ 1Tube 400V	1	SAT-A6097-07	
	H V Tank (150 kV)/ 1Tube 480V	1	SAT-A6097-08	
E2	Amorphous Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6097-11	
	H V Tank (125 kV)/ 1Tube 400V	1	SAT-A6097-12	
	H V Tank (125 kV)/ 1Tube 480V	1	SAT-A6097-13	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6097-16	
	H V Tank (150 kV)/ 1Tube 400V	1	SAT-A6097-17	
	H V Tank (150 kV)/ 1Tube 480V	1	SAT-A6097-18	
	H V Tank (150 kV)/ 1Tube 400V Parallel Diodes	1	SAT-A6097-42	
	H V Tank (150 kV)/ 1Tube 480V Parallel Diodes	1	SAT-A6097-43	

E1 – E2

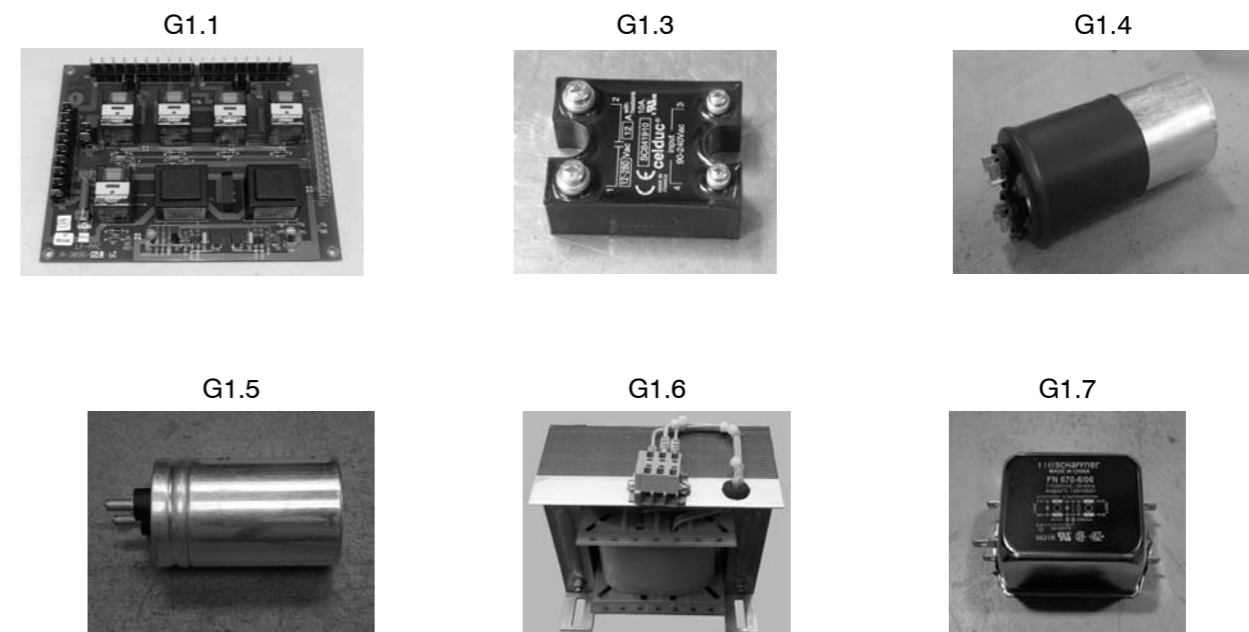
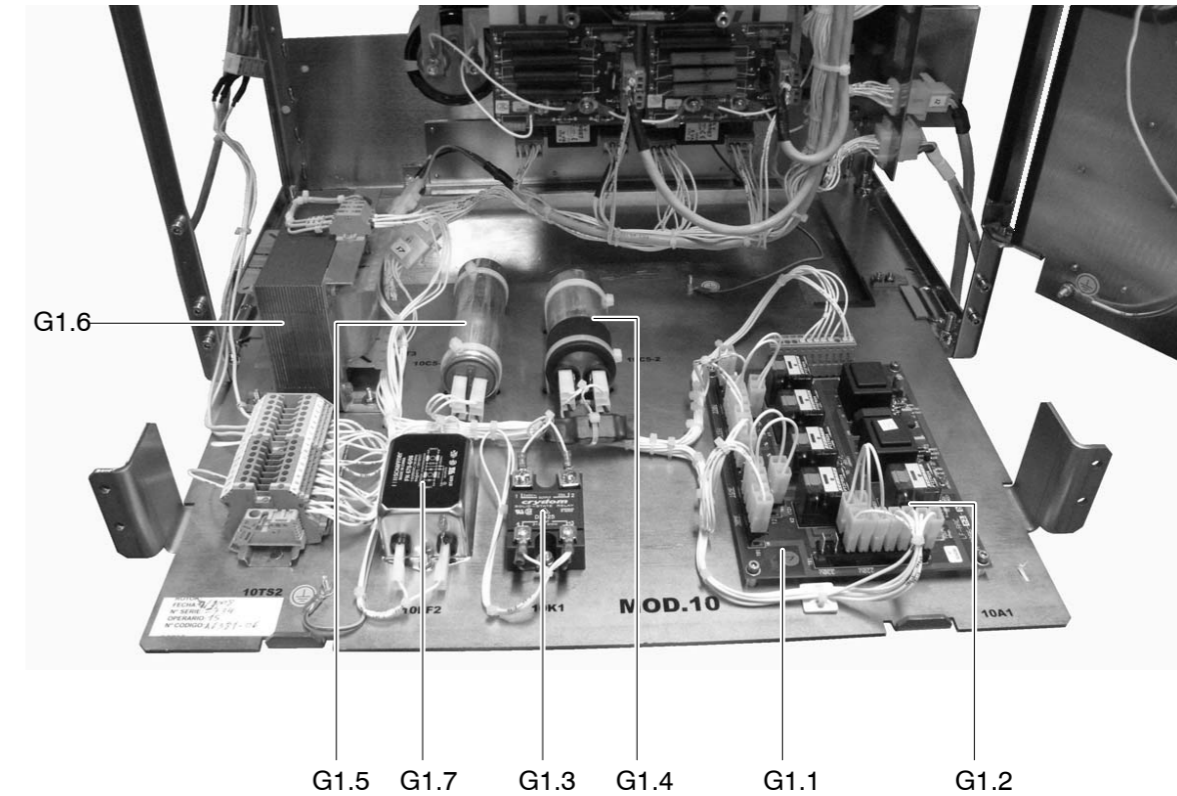


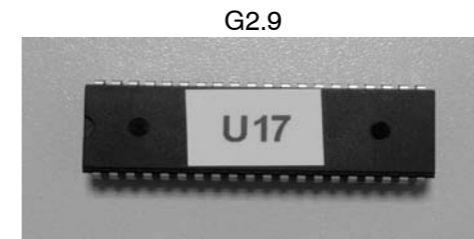
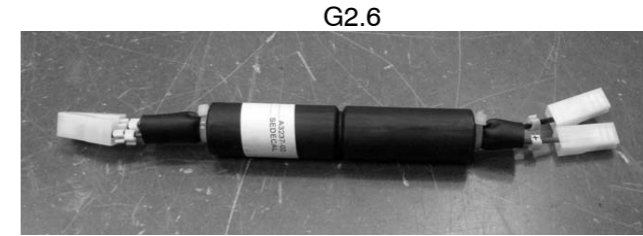
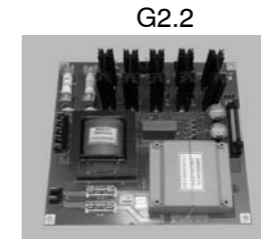
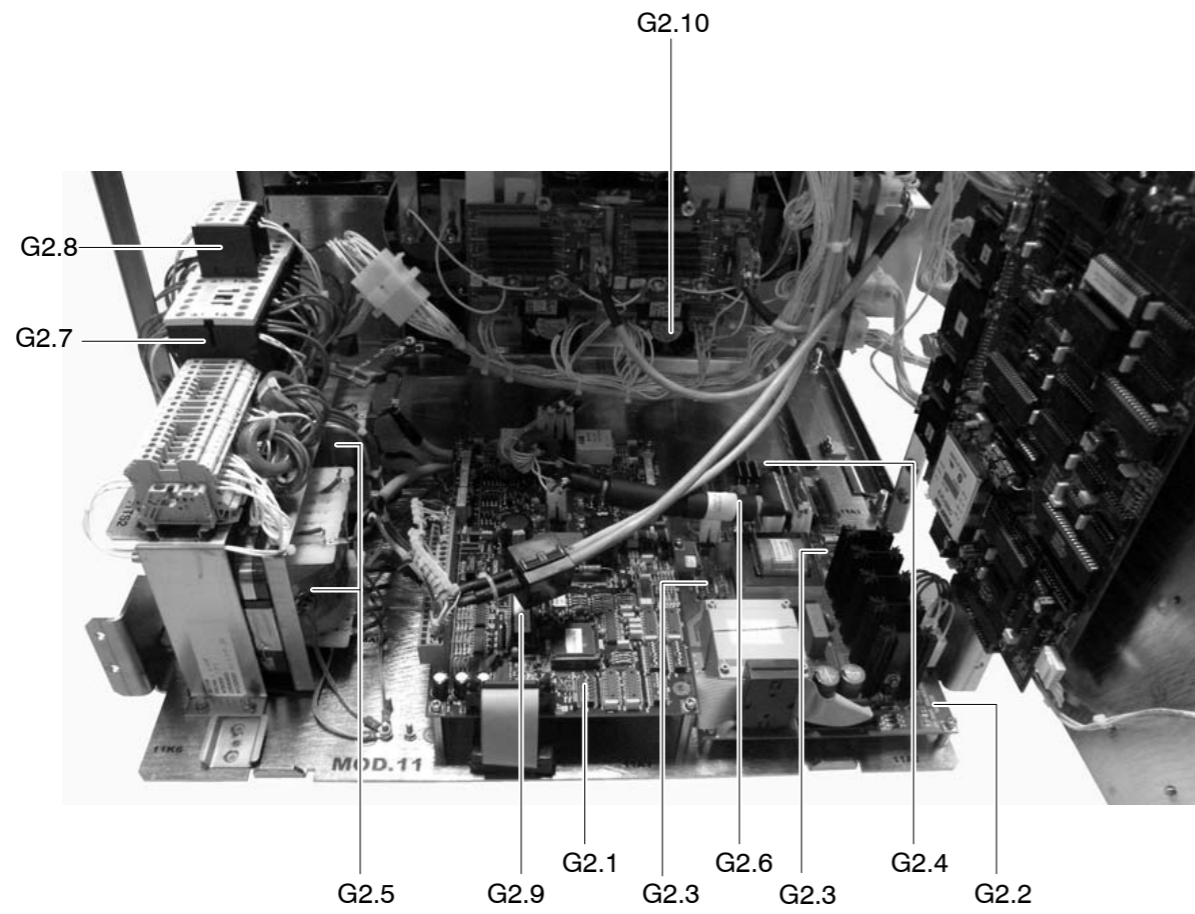
F1 – F2



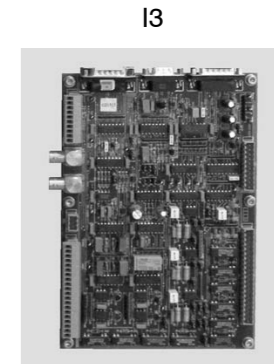
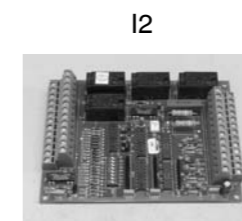
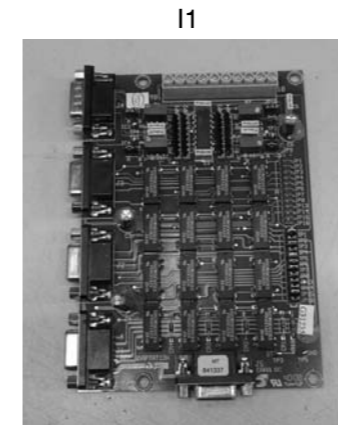
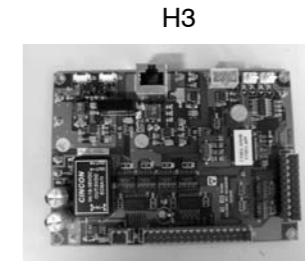
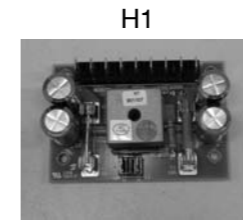
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
F0	HIGH VOLTAGE TANK (STEEL)			
F1	Standard Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6094-12	
	H V Tank (125 kV)/ 1Tube 400V	1	SAT-A6094-11	
	H V Tank (125 kV)/ 1Tube 480V	1	SAT-A6094-13	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6094-17	
	H V Tank (150 kV)/ 1Tube 400V	1	SAT-A6094-16	
	H V Tank (150 kV)/ 1Tube 480V	1	SAT-A6094-18	
	H V Tank (125 kV)/ 2Tube 220V	1	SAT-A6095-11	
	H V Tank (125 kV)/ 2Tube 400V	1	SAT-A6095-12	
	H V Tank (125 kV)/ 2Tube 480V	1	SAT-A6095-13	
	H V Tank (150 kV)/ 2Tube 220V	1	SAT-A6095-16	
	H V Tank (150 kV)/ 2Tube 400V	1	SAT-A6095-17	
	H V Tank (150 kV)/ 2Tube 480V	1	SAT-A6095-18	
F2	Amorphous Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6094-32	
	H V Tank (125 kV)/ 1Tube 400V	1	SAT-A6094-31	
	H V Tank (125 kV)/ 1Tube 480V	1	SAT-A6094-33	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6094-37	
	H V Tank (150 kV)/ 1Tube 400V	1	SAT-A6094-36	
	H V Tank (150 kV)/ 1Tube 480V	1	SAT-A6094-38	
	H V Tank (150 kV)/ 1Tube 400V Parallel Diodes	1	SAT-A6094-56	
	H V Tank (150 kV)/ 1Tube 480V Parallel Diodes	1	SAT-A6094-58	
	H V Tank (125 kV)/ 2Tube 220V	1	SAT-A6095-31	
	H V Tank (125 kV)/ 2Tube 400V	1	SAT-A6095-32	
	H V Tank (125 kV)/ 2Tube 480V	1	SAT-A6095-33	
	H V Tank (150 kV)/ 2Tube 220V	1	SAT-A6095-36	
	H V Tank (150 kV)/ 2Tube 400V	1	SAT-A6095-37	
	H V Tank (150 kV)/ 2Tube 480V	1	SAT-A6095-38	

ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
G0	ANODE ROTOR STARTER			
G1	Low Speed (LF-RAC), MOD. 10		SAT-A6381-06	-07 for 300V Option
G1.1	PCB, LF-RAC	1	SAT-A3096-02	
G1.2	Fuse F1		A520301-01	See Fuse Kit (item J0)
G1.3	Relay Solid State	1	SAT-51404008	K1
G1.4	Capacitor 30 μ F, 370 V	1	SAT-54001002	C5-2
G1.5	Capacitor 15 μ F, 450V	1	SAT-54001012	C5-1 Optional
G1.6	Transformer 300 V	1	SAT-50508021	Optional
G1.7	Filter Line	1	SAT-50208001	LF2
G2	High Speed Starter (LV-DRAC), MOD. 11		SAT-A6378-XX	-26 for 400 VAC, 3 Ph, 1 or 2 Tubes; -27 for 480 VAC, 3 Ph, 1 or 2 Tubes; -28 for 220 VAC, 1Ph / 3 Ph, 1 or 2 Tubes
G2.1	PCB, Control DRAC	1	SAT-A3243-04	
G2.2	PCB, Interface DRAC with Flat Cable	1	SAT-A3240-05	
G2.3	Fuses F1, F2, F3, F4, F1 Aerial		A520301-01	See Fuse Kit (item J0)
G2.4	PCB, Clamping (A3)	1	SAT-A3109-01	
G2.5	LV-DRAC Main & Aux Transformers	2	A522001-01	for 400 VAC
			A522002-01	for 480 VAC
			A522003-01	for 220 VAC
G2.6	DC BUS cable	1	SAT-A3237-02	
G2.7	Contactors 24 V / 15 A	3	SAT-51405004	K2, k3, KT1
G2.8	Aux Contactor	1	SAT-51405006	
G2.9	U17 EPROM DRAC	1	SAT-53406157	
G2.10	Fans for DRAC	3	SAT-53103001	

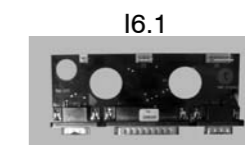
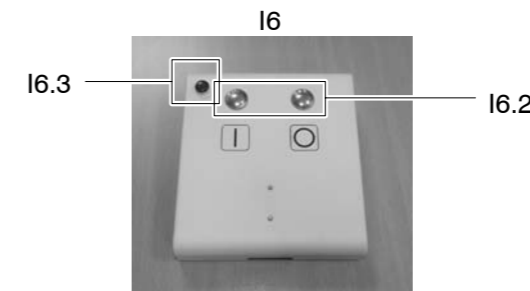
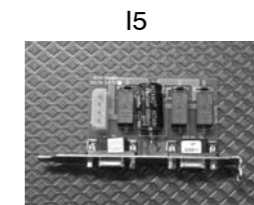
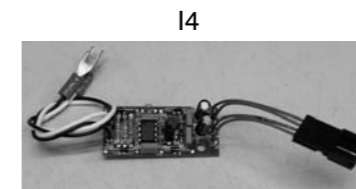




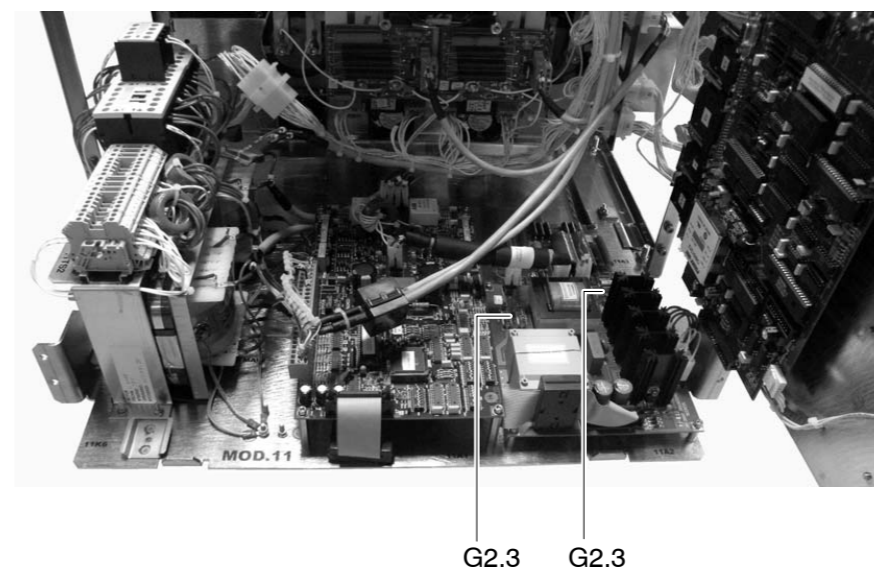
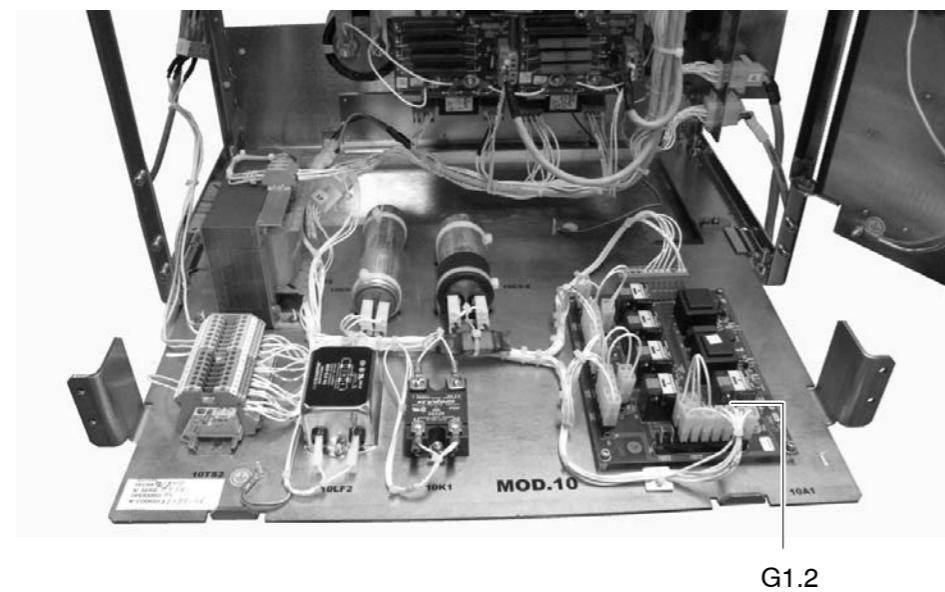
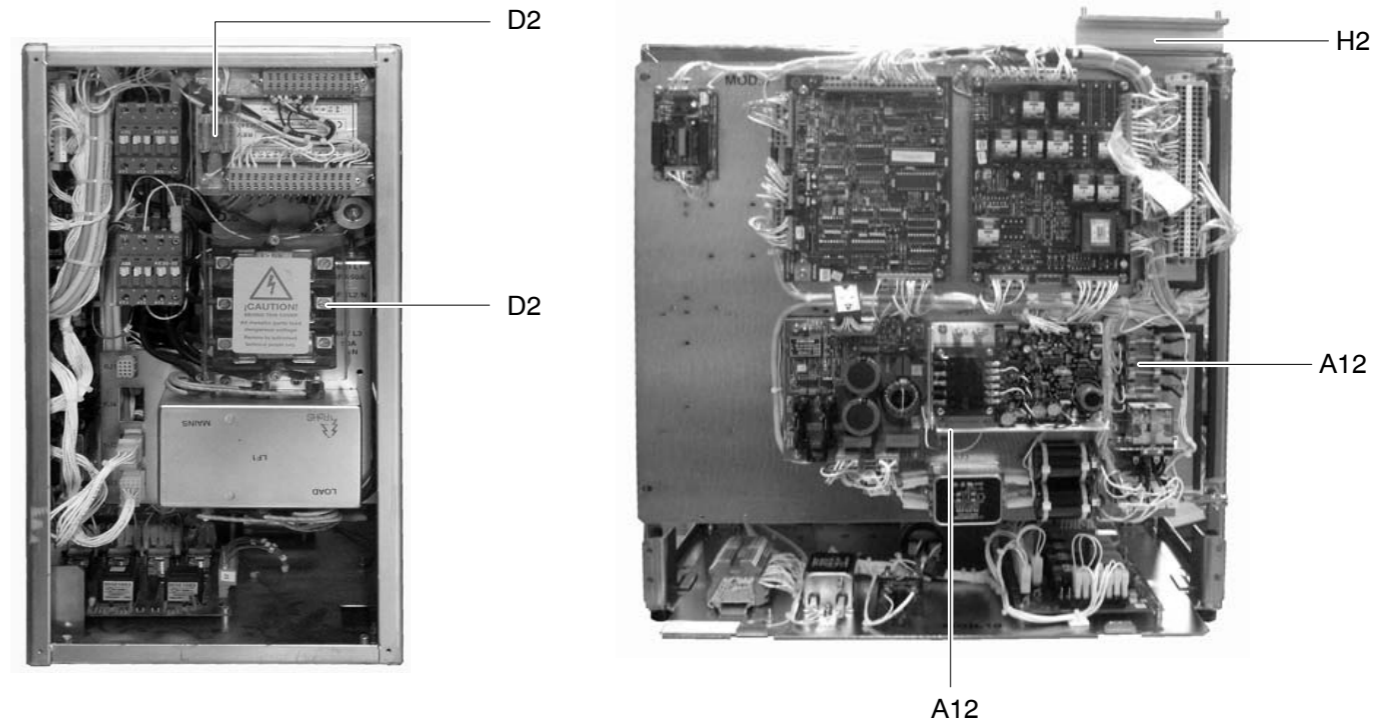
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
H0	ADAPTATION MODULE			
H1	PCB, Locks	1	SAT-A3214-02	
H2	Fuses F1, F2		A520301-01	See Fuse Kit (item J0)
H3	Generator CAN Adapter		SAT-A3548-01	
H4	Adaptations / Options	-		See Adaptations / Options (Item I0). Some Adaptations / Options can be installed on the upper side of the Adaptation Module.



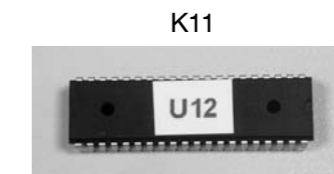
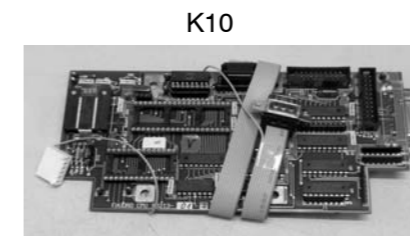
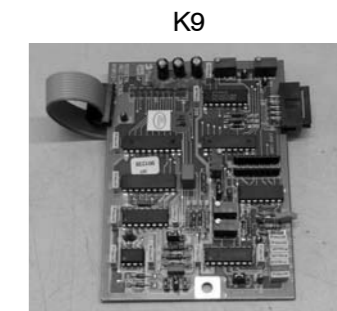
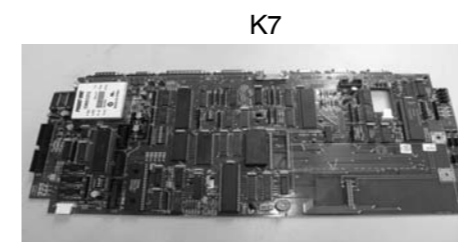
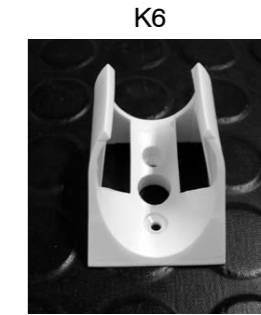
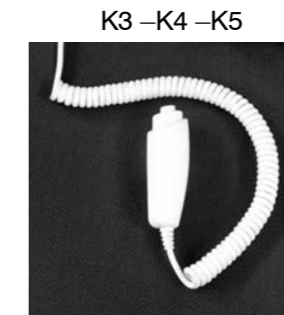
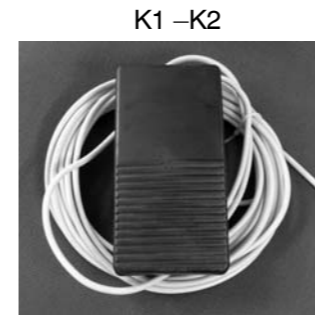
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
I0	ADAPTATIONS / OPTIONS			
I1	PCB, AEC Adaptation	1	SAT-A3263-03	For 4 Ion Chambers
I2	PCB, Tomo / Bucky	1	SAT-A3261-03	-05 for Bucky 220 VAC
I3	PCB, RF Adaptation	1	SAT-A3514-XX	Only for RF Generator Optional - See -XX on PCB
I4	PhotoMultiplier Adaptation	1	SAT-A6636-01	Not installed in the Generator.
I5	PCB, Auto On /Off	1	SAT-A3179-02	Installed inside a PC
I6	Interface Box PC	1	SAT-A6509-40	For using with a PC
I6.1	PCB Interface Box	1	SAT-A9532-01	
I6.2	Push Button	2	SAT-50613050	
I6.3	Green Lamp	1	SAT-A7262-01	
I7	Dosimeter Option	-		For Renewal Parts refer to the Appendix of the Radiation Measuring System
I8	Other Interface PCB	-		For Renewal Parts refer to the PCB



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS																								
J0	FUSE KIT	1	A520301-01	<p>The Fuse Kit is common for all the Generator models and comprises:</p> <table border="1"> <thead> <tr> <th>Reference</th> <th>Qty</th> </tr> </thead> <tbody> <tr><td>53801002</td><td>20</td></tr> <tr><td>53801003</td><td>20</td></tr> <tr><td>53801008</td><td>20</td></tr> <tr><td>53801011</td><td>6</td></tr> <tr><td>53801012</td><td>10</td></tr> <tr><td>53801015</td><td>10</td></tr> <tr><td>53801017</td><td>10</td></tr> <tr><td>53801018</td><td>10</td></tr> <tr><td>53801019</td><td>10</td></tr> <tr><td>53801026</td><td>30</td></tr> <tr><td>53801029</td><td>6</td></tr> </tbody> </table> <p>All fuses installed in the unit are included in the Fuse Kit.</p>	Reference	Qty	53801002	20	53801003	20	53801008	20	53801011	6	53801012	10	53801015	10	53801017	10	53801018	10	53801019	10	53801026	30	53801029	6
Reference	Qty																											
53801002	20																											
53801003	20																											
53801008	20																											
53801011	6																											
53801012	10																											
53801015	10																											
53801017	10																											
53801018	10																											
53801019	10																											
53801026	30																											
53801029	6																											
A12	Fuse 1.5 A / 250V , SB		SAT-53801012	Control Panel: F2																								
	Fuse 3 A / 250V , SB		SAT-53801003	Control Panel: F6, F7, F8																								
	Fuse 0.4 A / 250V , SB		SAT-53801015	Power Supply: F9																								
D2	Fuse 50A / 600V SB		SAT-53801011	Input Line: F3, F4 and F5																								
	Fuse 10A / 250V T		SAT-53801008	Transformer 2: F12, F13																								
G1.2	Fuse 6A / 250V SB		SAT-53801002	LF-RAC: F1																								
G2.3	Fuses 0.5A / 250V		SAT-53801019	Interface DRAC PCB: F1, F2																								
	Fuses 15A / 600V FA		SAT-53801018	Interface DRAC PCB: F3, F4																								
	Fuse 6A / 250V SB		SAT-53801002	Interface DRAC PCB: F1 Aerial																								
H2	Fuse 6A / 250V, SB		SAT-53801002	Locks Board: F1																								
	Fuse 10A / 250V, SB		SAT-53801008	Locks Board: F2																								



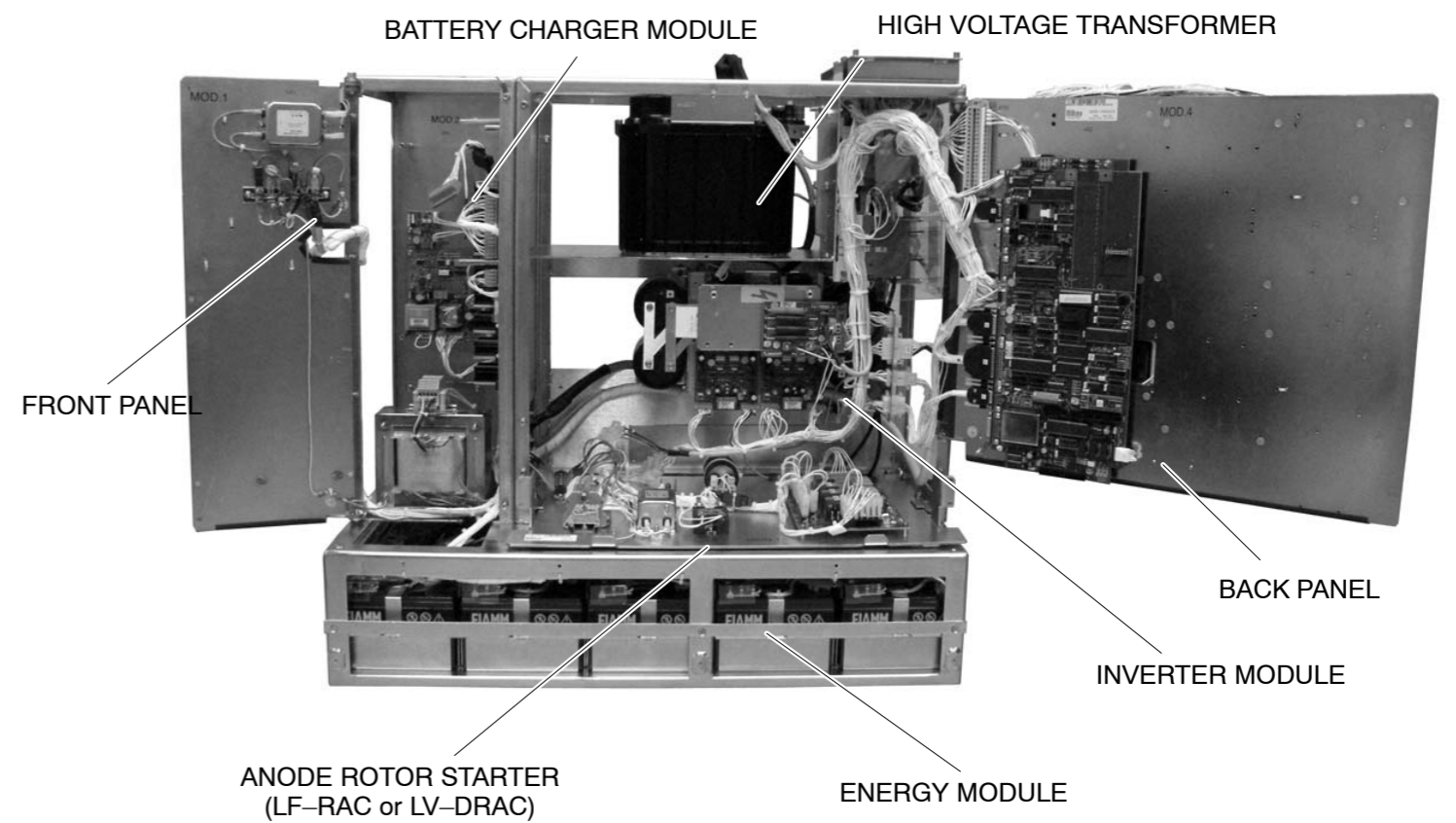
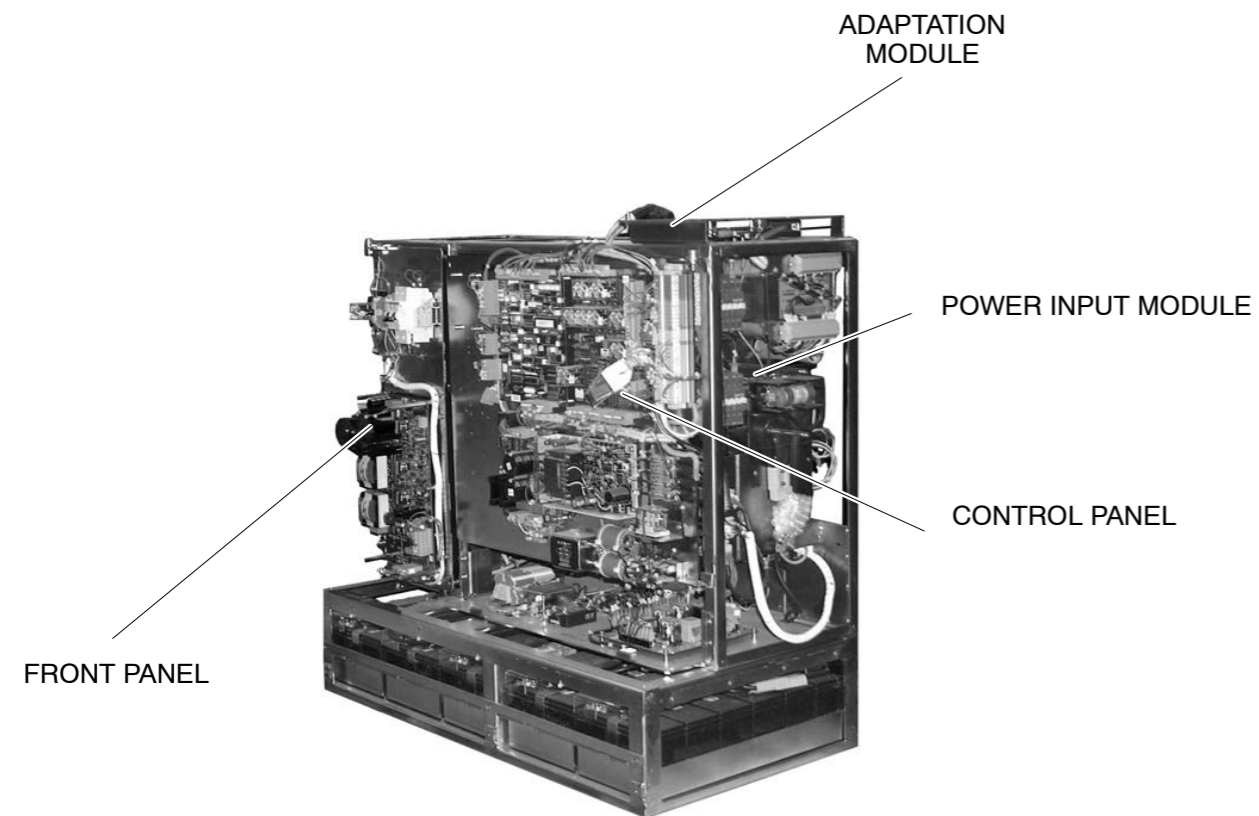
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
K0	CONSOLE			
K1	Pedal Switch for RAD (2 Microswitches)		SAT-A6389-XX	With Molex Connector: -01 (4 m); -02 (8 m); With Binder Connector: -04 (8 m); -05 (5 m); -06 (12 m) Without Connector: -08 (8 m); -09 (5 m)
K2	Pedal Switch for Fluoro (1 Microswitch)	1	SAT-A6389-07	(8 m)
K3	Hand Switch equipped – DIN Connector	1	SAT-A3399-XX	-01 for Serial Console -04 Touch Screen Console Included Item K6
K4	Hand Switch equipped	1	SAT-A3223-03	For Standard Console – Included Item K6
K5	Hand Switch equipped – Sub D Conn.	1	SAT-A3223-15	For ON / OFF Interface Box - Included Item K6
K6	Hand Switch Support	1	SAT-7897-01	
K7	PCB, ATP Console CPU	1	SAT-A3024-XX	See XX on the PCB
K8	U24 EPROM	1	SAT-SOFT-ATP	See Generator serial number
K9	PCB, AEC Control	1	SAT-A3012-XX	Optional – See XX on PCB
K10	PCB, Fluoro CPU	1	SAT-A3213-XX	Only for RF Generator Optional – See -XX on PCB
K11	U12 EPROM	1	SAT-SOFT-FL	See Generator serial number
K12	Console Overlay	1		See Generator serial number
K13	PCB, Display Console	1		See Generator serial number
K14	TPC Pedestal	1	SAT-A6272-00	
K15	Multipurpose Pedestal	1	SAT-A6267-00	
K16	Table Support	1	SAT-A6271-00	
K17	Wall Support	1	SAT-A6273-00	
K18	Pedestal Support	1	A520385-01	



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
L0	INTERCONNECTIONS			
L1	Serial Cable	1	SAT-A7066-XX	-XX Length Dependant
L2	Serial Cable	1	SAT-A7067-XX	-XX Length Dependant
L3	Power Cable J1 (xx m)	1	SAT-A3230-XX	-XX Length Dependant
L4	Communication Cable J3 (xx m)	1	SAT-A3231-XX	-XX Length Dependant
L5	Interface Cable J2 (xx m) 15 wires	1	SAT-A3379-XX	-XX Length Dependant
L6	AEC Adaptation Cable (J5-J4)	1	SAT-A3251-01	
L7	Adaptation Cable for GE Ion Chamber	1	SAT-A3082-01	Option related to the Ion Chamber
L8	Adaptation Cable for BVM/ CGR Ion Chamber	1	SAT-A3081-01	Option related to the Ion Chamber
L9	Adaptation Cable for MEDYS Ion Chamber	1	SAT-A6715-01	Option related to the Ion Chamber
L10	Adaptation Cable for Philips Ion Chamber	1	SAT-A3080-01/02	Option related to the Ion Chamber
L11	Interface Box Serial Cable	1	SAT-A3352-XX	-XX Length Dependant
L12	Interface Box – Computer Cable	1	SAT-A3363-XX	-XX Length Dependant

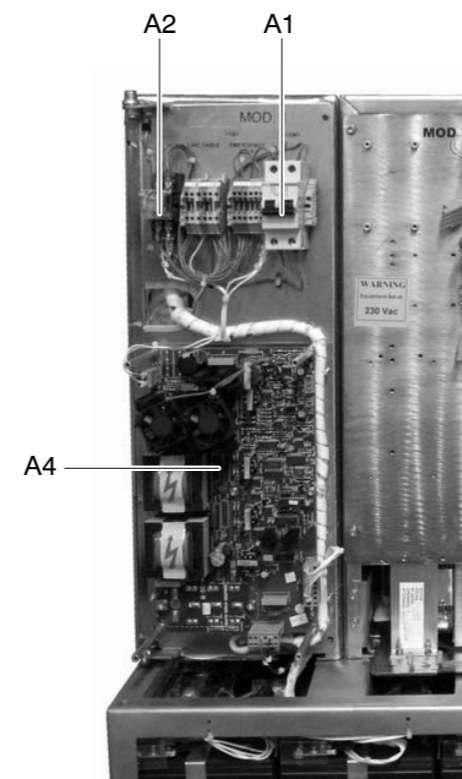
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
M0	MISCELLANIOUS			
M1	Cover Generator	1	SAT-6470-08	

SECTION 3 **COMPACT-ESM GENERATOR**
(BATTERY POWERED)
ONE TUBE / TWO TUBES –
LOW SPEED STARTER /
HIGH SPEED STARTER

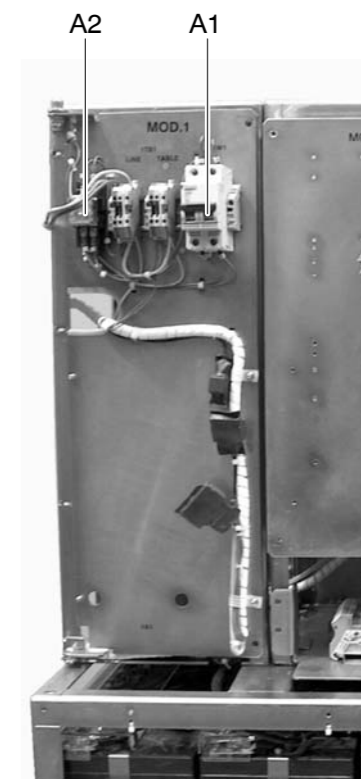


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
A0	FRONT PANEL, MOD. 1			
A1	Circuit Breaker C60N D10	1	SAT-50613102	SW1
A2	Relay 24 VDC	1	SAT-51403002	K22
A3	Line Filter	1	SAT-50208001	LF1
A4	Isolated Stand Alone	1	SAT-A3138-01	Only with Stand Alone Option

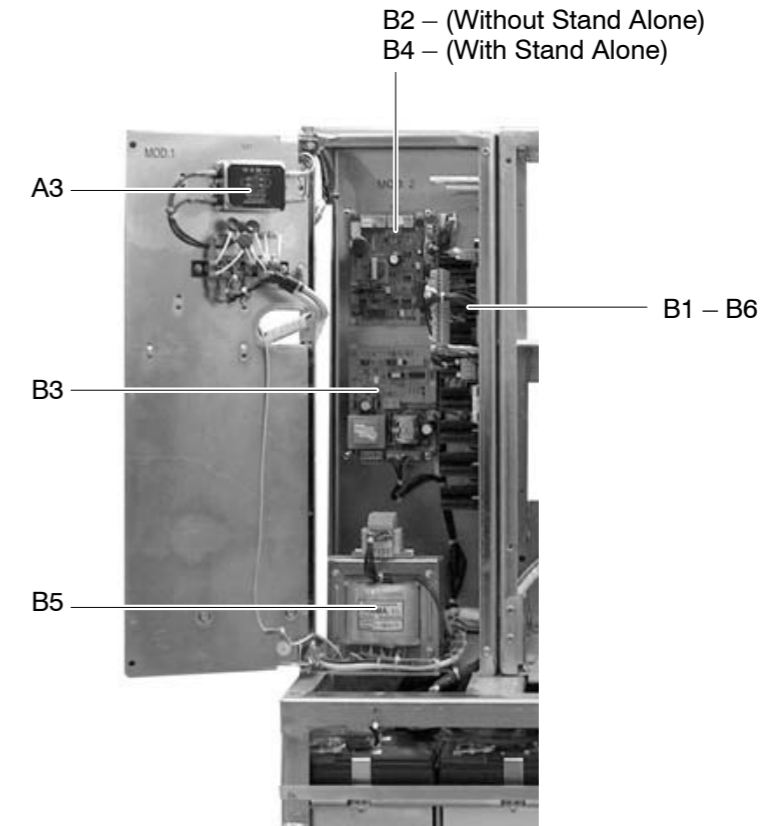
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
B0	BAT. CHARGER, MOD. 2			
B1	PCB, Battery Charger	1	SAT-A3285-02	
B2	PCB, Battery Monitor	1	SAT-A3580-01	Only without Stand Alone Option
B3	PCB, Line Monitor	1	SAT-A3139-01	
B4	PCB, Energy Guard	1	SAT-A3264-01	Only with Stand Alone Option
B5	Transformer	1	SAT-50509004	110 – 240 VAC
B6	Fuses F7 to F21		A520301-01	See Fuse Kit (<i>item M0</i>)



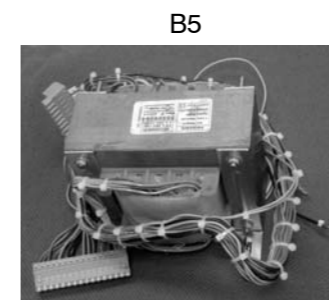
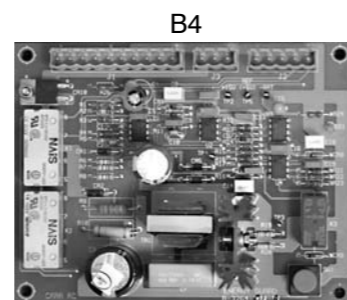
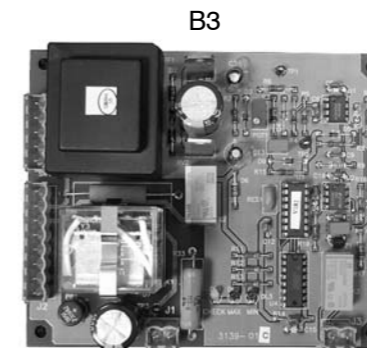
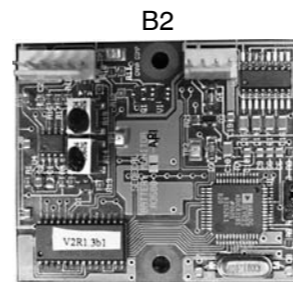
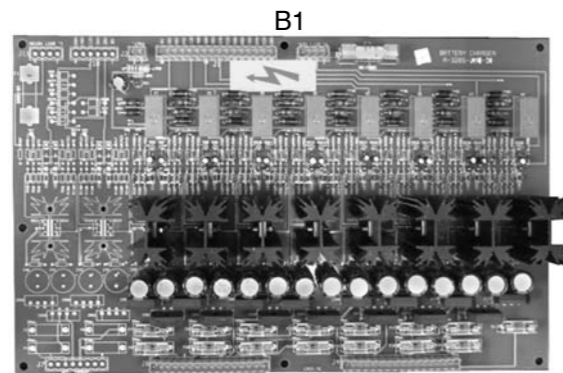
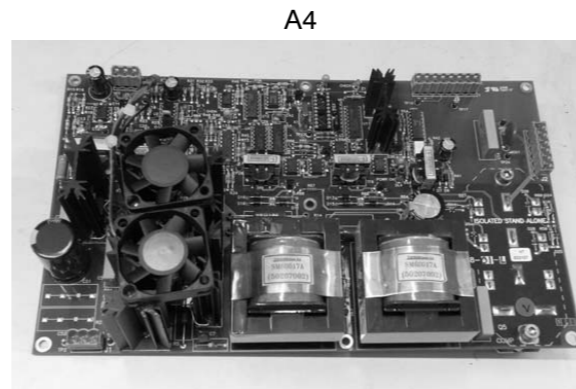
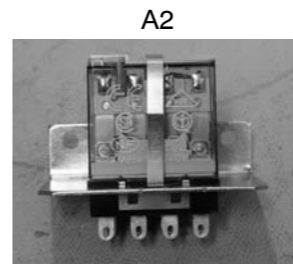
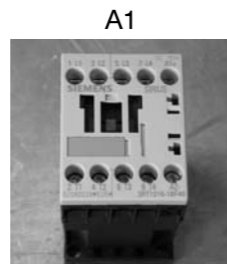
With Stand Alone



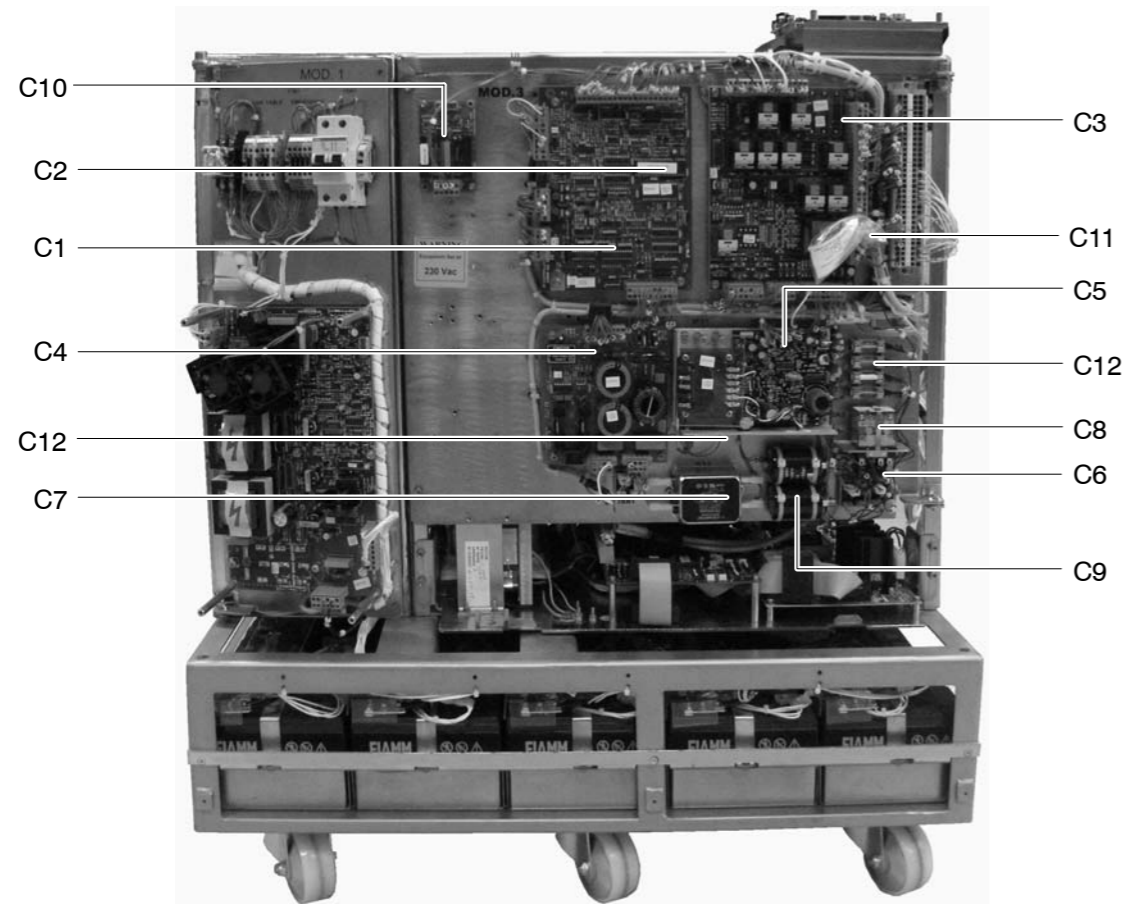
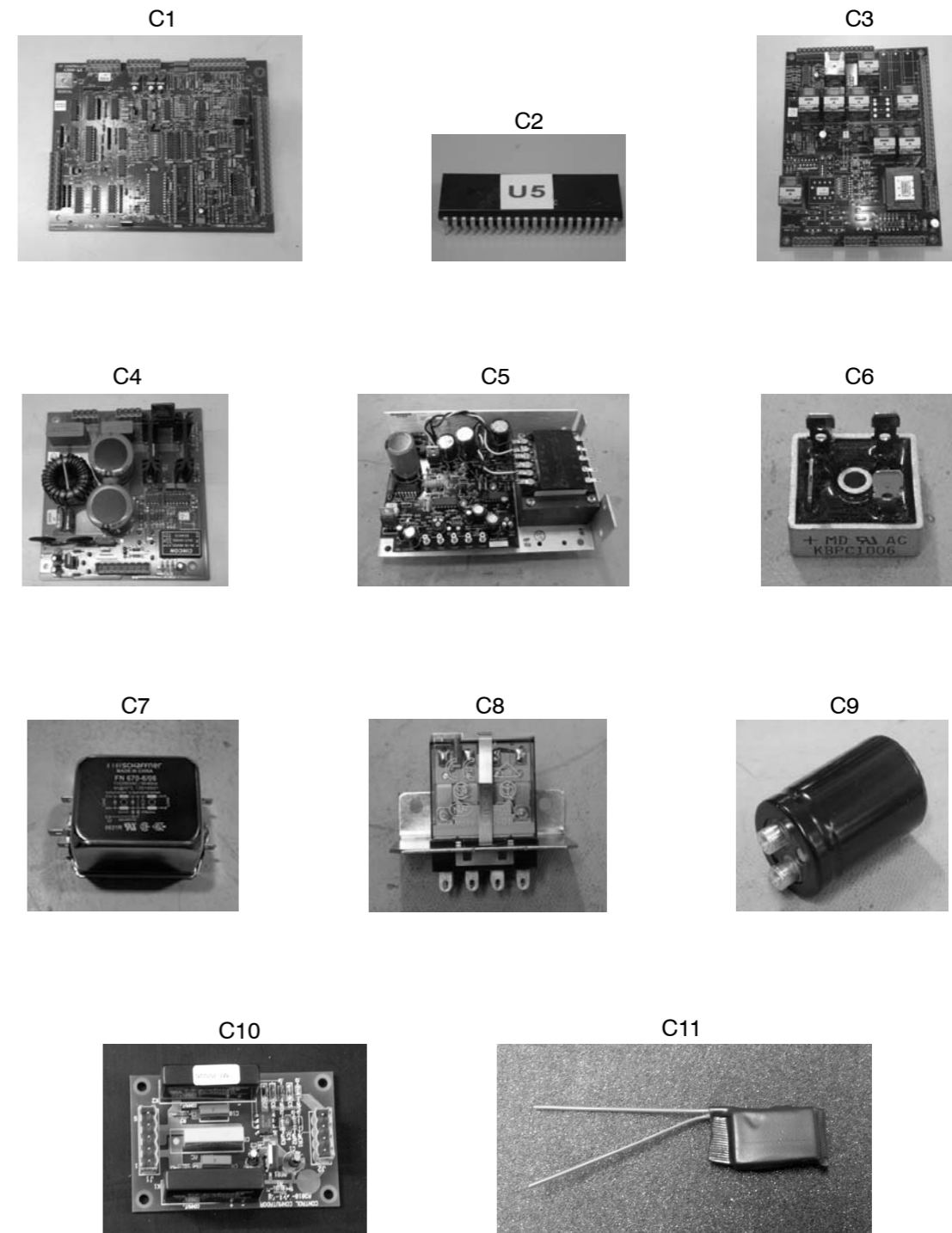
Without Stand Alone



B2 – (Without Stand Alone)
B4 – (With Stand Alone)

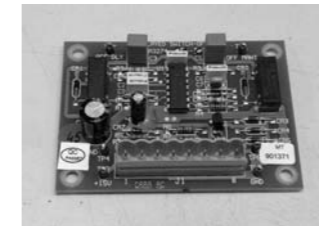


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
C0	CONTROL PANEL, MOD. 3			
C1	PCB, HT Controller	1	SAT-A3000-XX	See - XX on PCB
C2	U5 EPROM	1	SAT-SOFT-HT	See generator serial number
C3	PCB, Interface Control	1	SAT-A3009-12	See - XX on PCB
C4	PCB, Filament Driver	1	SAT-A3004-XX	See - XX on PCB
C5	Low Voltage Power Supply	1	SAT-53418001	PS1
C6	Rectifier Bridge FAGOR / 10Amp.	3	SAT-53404002	BR1, BR2 & BR4
C7	Filter Line	1	SAT-50208001	LF3
C8	ON/OFF Relay 4PDT /110V	1	SAT-51401012	K3
C9	Capacitor ELE 2400 µF, 50V	2	SAT-54002007	C6, C7
C10	PCB, Control Switch	2	SAT-54002007	
C11	Equipped RC	1	SAT-A3313-02	Supplied in a bag
C12	Fuses F2, F6, F7, F8, F9		A520301-01	See Fuse Kit (item M0)

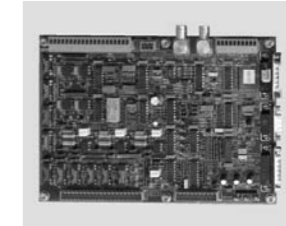


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
D0	BACK PANEL, MOD.4			
D1	Delayed Switch Off PCB	1	SAT-A3274-01	
D2	PCB, RF Adaptation	1	SAT-A3214-XX	Only for RF Generator Optional - See -XX on PCB
D3	CPU			Only for Serial (RS232) Generators
D3.1	PCB, ATP Console CPU	1	SAT-A3024-XX	Optional - See - XX on PCB
D3.2	U24 EPROM	1	SAT-SOFT-ATP	See Generator serial number
D3.3	PCB, AEC Control (Optional)	1	SAT-A3012-XX	Optional - See - XX on PCB
D3.4	PCB, Fluoro CPU	1	SAT-A3213-XX	Only for RF Generator Optional - See -XX on PCB
D3.5	U12 EPROM	1	SAT-SOFT-FL	See Generator serial number

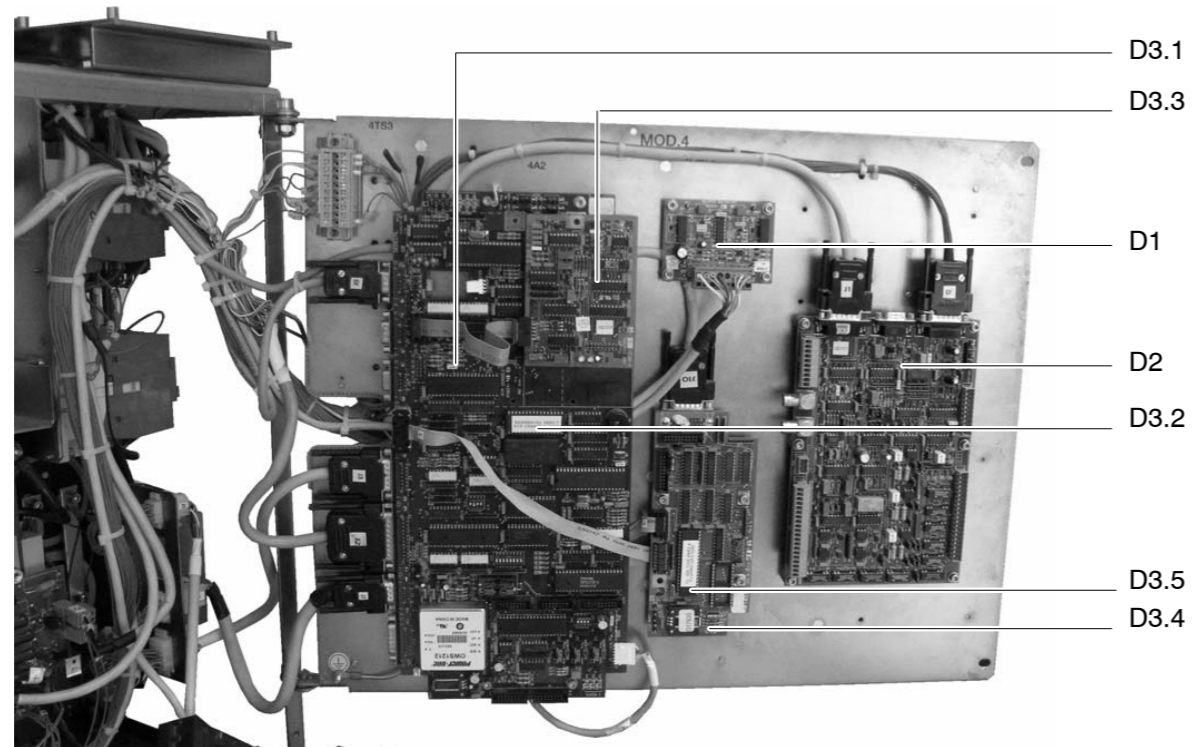
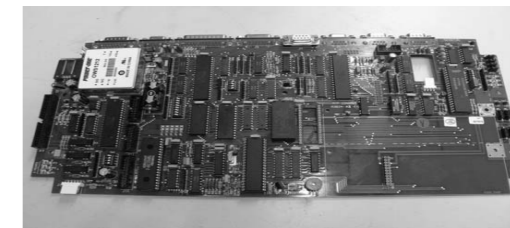
D1



D2



D3.1



D3.1

D3.3

D1

D2

D3.2

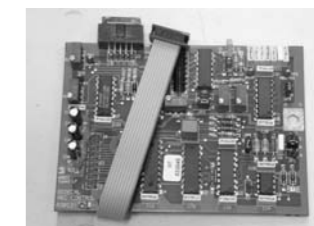
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D3.4

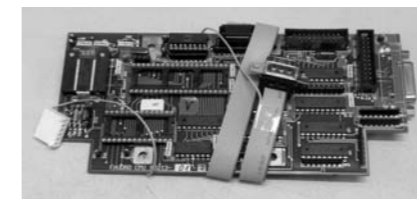
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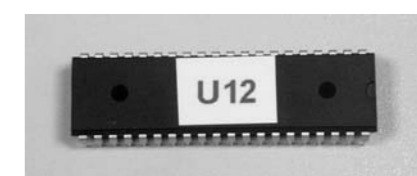
D3.3



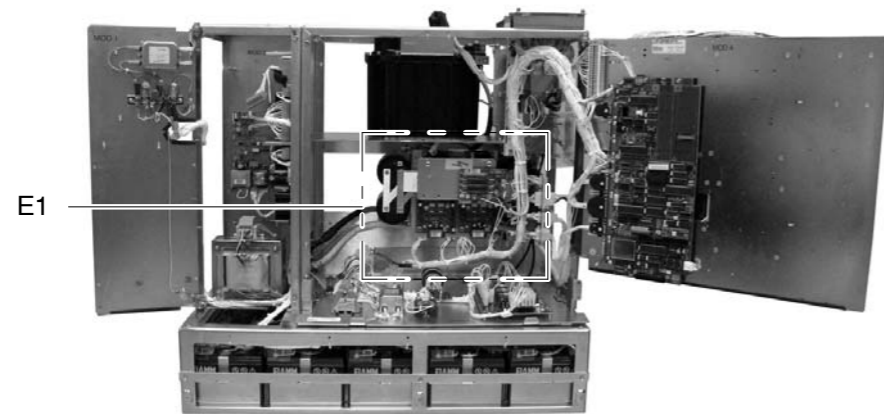
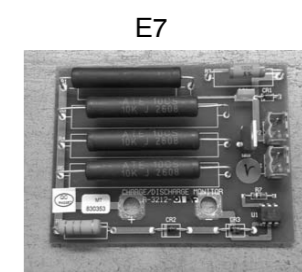
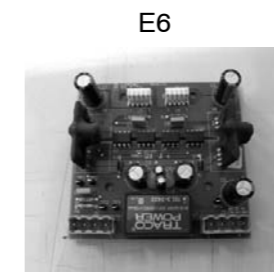
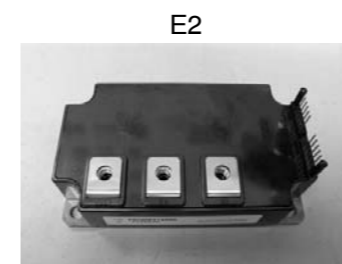
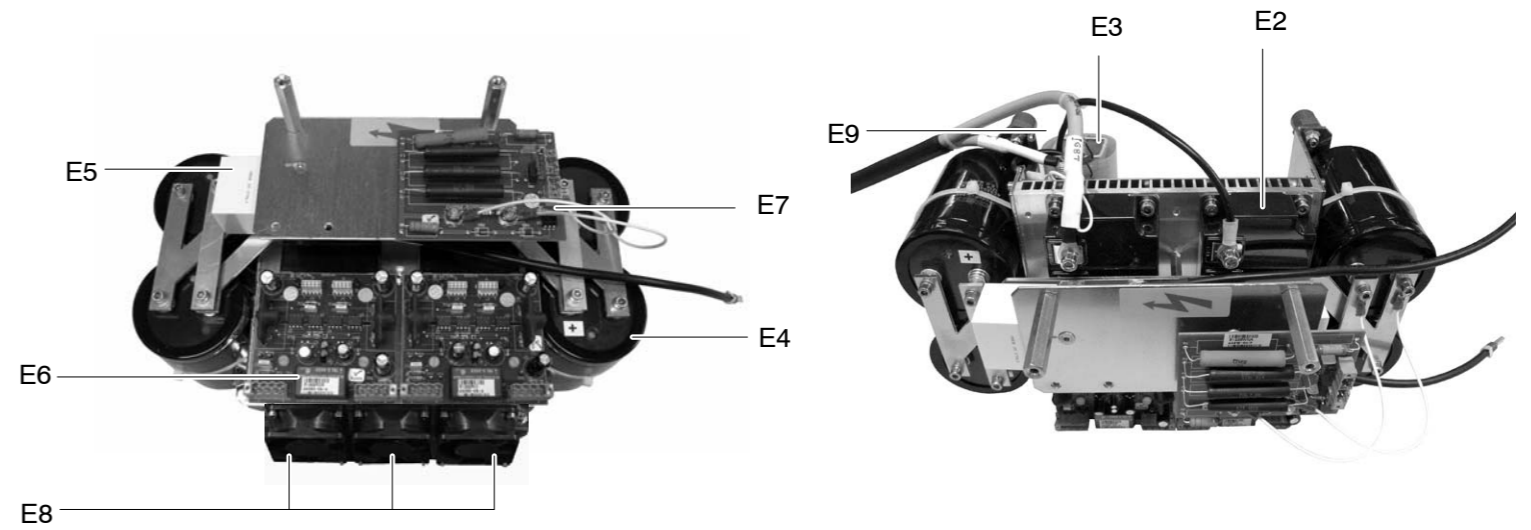
D3.4



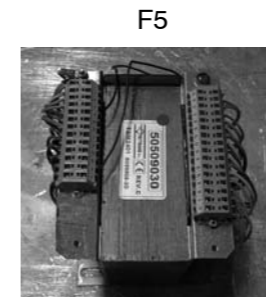
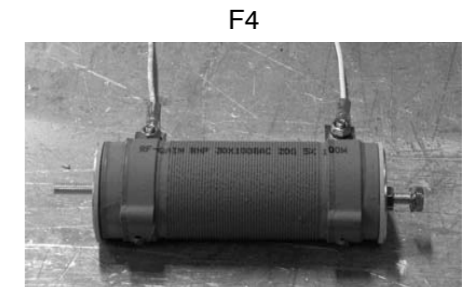
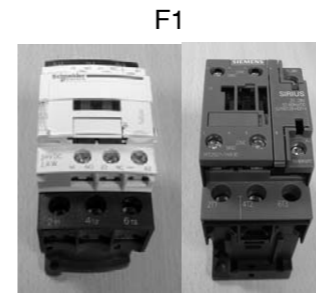
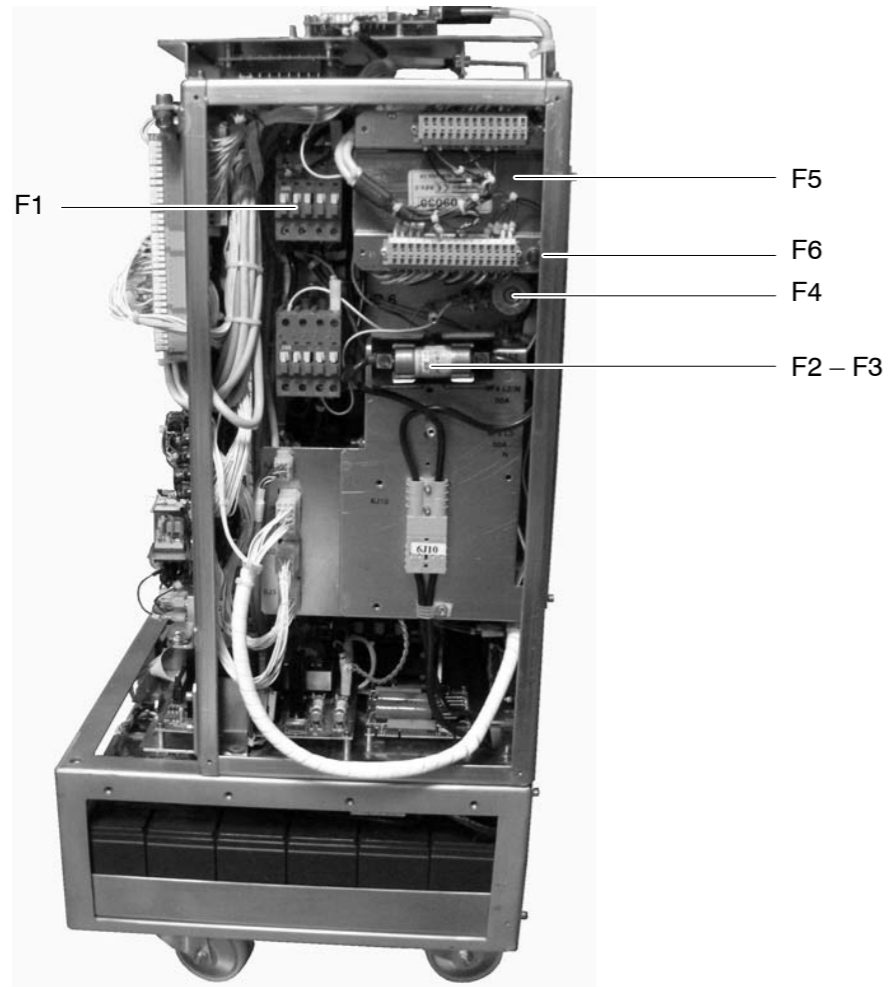
D3.5



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS														
E0	INVERTER MODULE, MOD. 5																	
E1	Inverter Battery High Power with Fans	1	SAT-A11700-30															
E1	Inverter Battery Low Power with Fans	1	SAT-A11700-31															
E1	Inverter Battery High Power	1	SAT-A11700-70															
E1	Inverter Battery Low Power	1	SAT-A11700-71															
E2	IGBT 600A / 600V	2	SAT-53416039	Used in Inverter A11700-30/71														
E2	IGBT 400A / 600V	2	SAT-53416040	Used in Inverter A11700-31/70														
E3	Capacitor 40 μ F, 450 VDC	1	SAT-54001006	C9														
E4	Capacitor Elec. 3700 μ F, 450 VDC	4	SAT-54002011	C1, C2, C3 & C4														
E5	Capacitor 2 μ F, 1000 VDC	2	SAT-54008002	C10, C11														
E6	PCB, IPM Driver	2		E7	PCB, Charge / Discharge Monitor	1	SAT-A3212-01		E8	Fan Micro Boxer 24 VDC	3	SAT-53103001		E9	Equipped Resistor	1	SAT-A3312-01	
E7	PCB, Charge / Discharge Monitor	1	SAT-A3212-01															
E8	Fan Micro Boxer 24 VDC	3	SAT-53103001															
E9	Equipped Resistor	1	SAT-A3312-01															



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
F0	POWER INPUT MODULE, MOD. 6			
F1	Contactors 3 ph / 24V / 50 Amp	2	SAT-51405016	K5 and K6
F2	Fuses F1		A520301-01	See Fuse Kit (item M0)
F3	Fuse 35A / 600V	1	SAT-53801016	F1
F4	Resistor 20 ohms /100 W / 10%	1	SAT-52707021	R1
F5	Transformer T2	1	SAT-50509030	T2 for 1 ph 220-240 VAC
F6	Green light Lamp	1	SAT-54203006	NL1

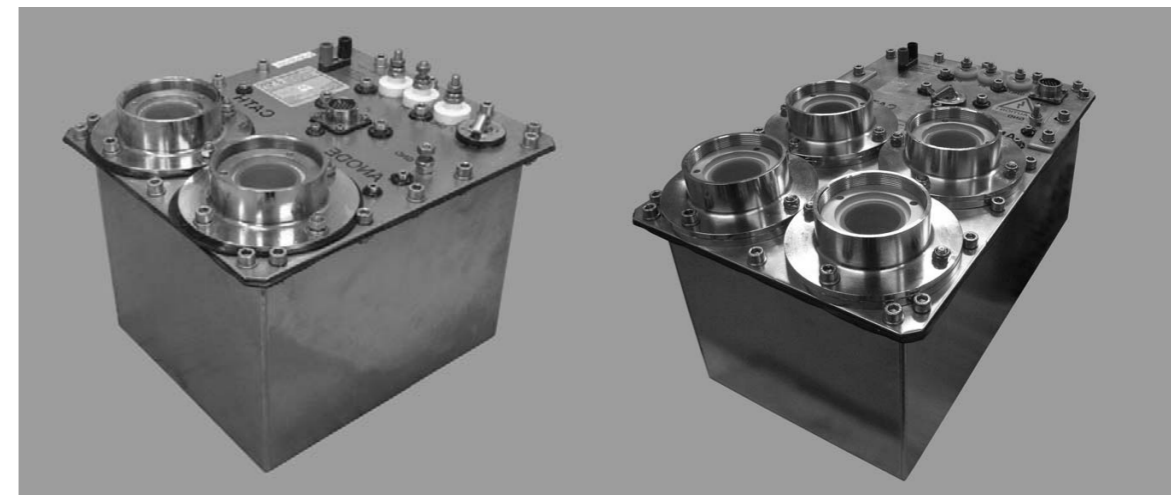


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
G0	HIGH VOLTAGE TANK – HERMETICAL TANK (ALUMINIUM)			
G1	Standard Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6097-01	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6097-06	
G2	Amorphous Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6097-11	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6097-16	
H0	HIGH VOLTAGE TANK (STEEL)			
H1	Standard Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6094-12	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6094-17	
	H V Tank (125 kV)/ 2Tube 220V	1	SAT-A6095-11	
	H V Tank (150 kV)/ 2Tube 220V	1	SAT-A6095-16	
H2	Amorphous Nucleus			
	H V Tank (125 kV)/ 1Tube 220V	1	SAT-A6094-32	
	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6094-37	
	H V Tank (125 kV)/ 2Tube 220V	1	SAT-A6095-31	
	H V Tank (150 kV)/ 2Tube 220V	1	SAT-A6095-36	

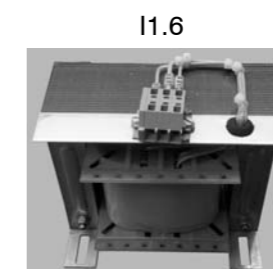
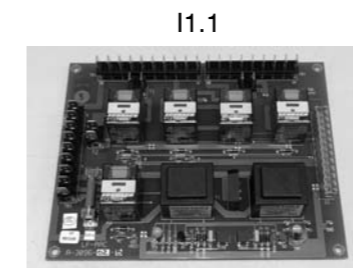
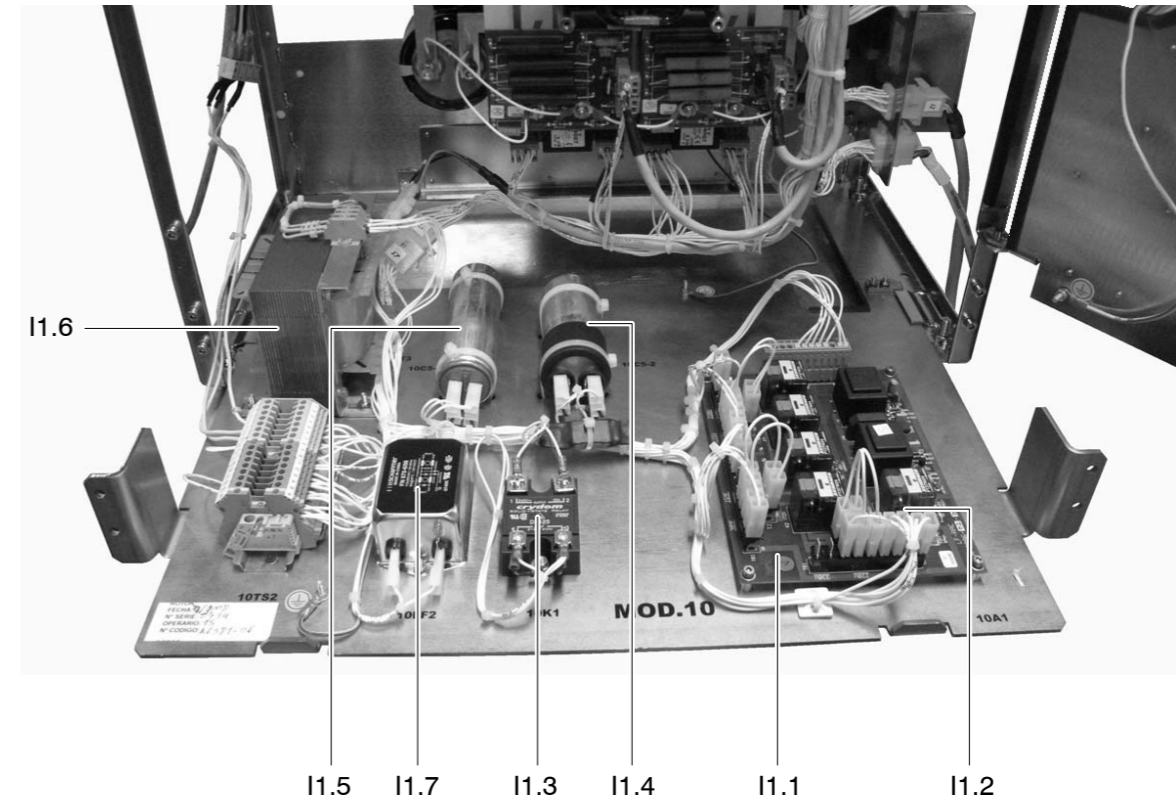
G1 – G2

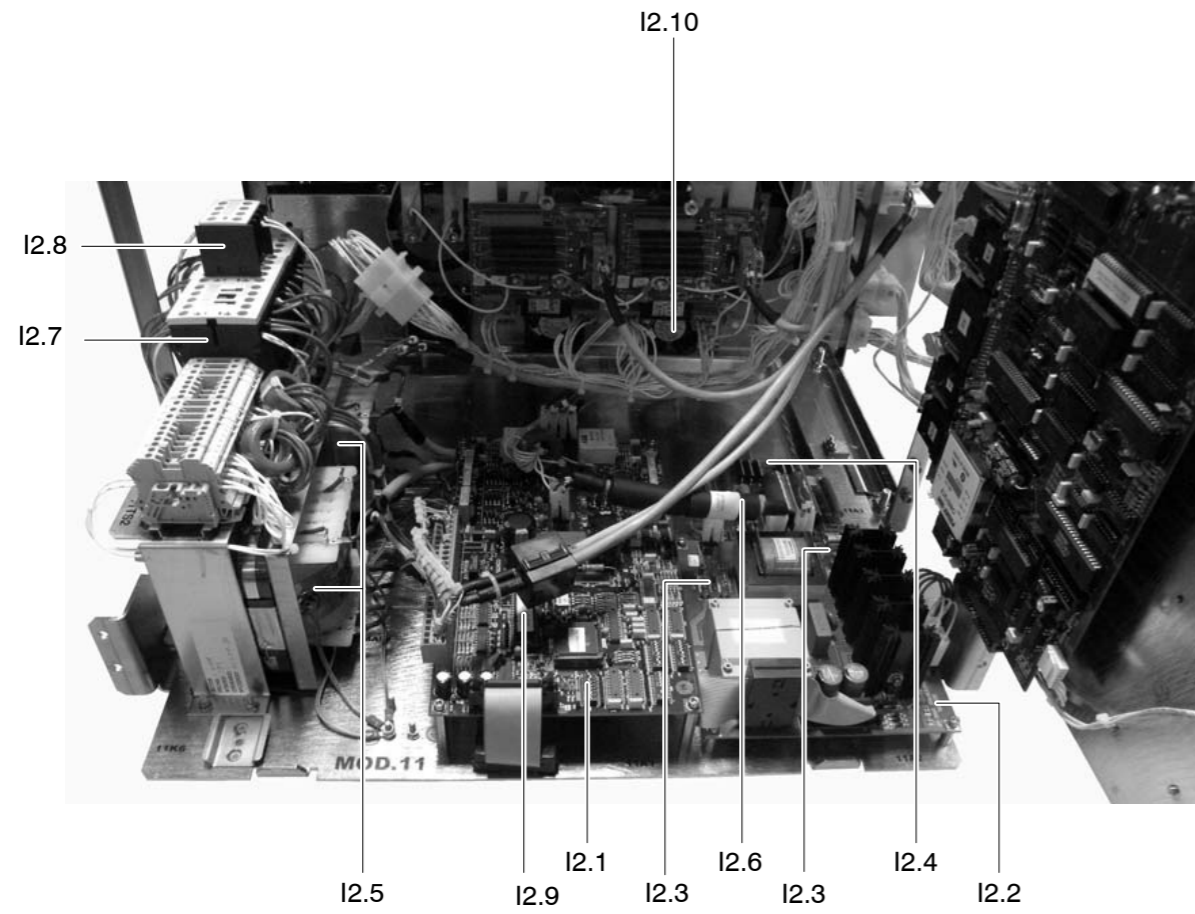


H1 – H2

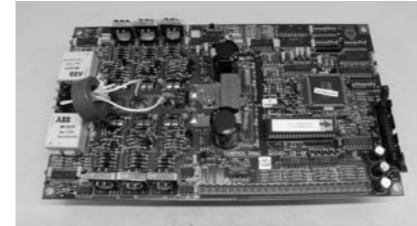


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
I0	ANODE ROTOR STARTER			
I1	Low Speed (LF-RAC), MOD. 10		SAT-A6381-06	-07 for 300V Option
I1.1	PCB, LF-RAC	1	SAT-A3096-02	A1
I1.2	Fuses F1		A520301-01	See Fuse Kit (item M0)
I1.3	Relay Solid State	1	SAT-51404008	K1
I1.4	Capacitor 30 μ F, 370 V	1	SAT-54001002	C5-2
I1.5	Capacitor 15 μ F, 450V	1	SAT-54001012	C5-1 Optional
I1.6	Transformer 300 V	1	SAT-50508021	Optional
I1.7	Filter Line	1	SAT-50208001	LF2
I2	High Speed Starter (LV-DRAC), MOD. 11		SAT-A6378-28	1Ph / 3 Ph, 1 or 2 Tubes
I2.1	PCB, Control DRAC	1	SAT-A3243-04	
I2.2	PCB, Interface DRAC with Flat Cable	1	SAT-A3240-05	
I2.3	Fuses F1, F2, F3, F4, F1 Aerial		A520301-01	See Fuse Kit (item M0)
I2.4	PCB, Clamping (A3)	1	SAT-A3109-01	
I2.5	LV-DRAC Main & Aux Transformers	2	A522003-01	for 220 VAC
I2.6	DC BUS cable	1	SAT-A3237-02	
I2.7	Contactors 24 V / 15 A	3	SAT-51405004	K2, k3, KT1
I2.8	Aux Contactor	1	SAT-51405006	
I2.9	U17 EPROM DRAC	1	SAT-53406157	
I2.10	Fans for DRAC	3	SAT-53103001	

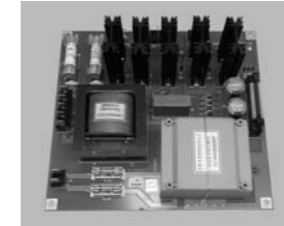




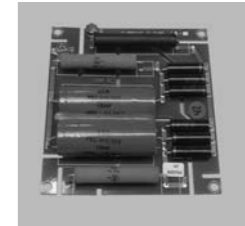
I2.1



I2.2



I2.4



I2.5



I2.6



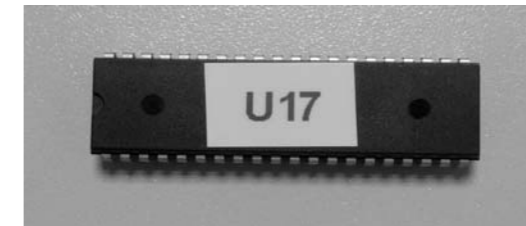
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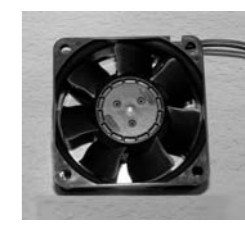
I2.8



I2.9



I2.10



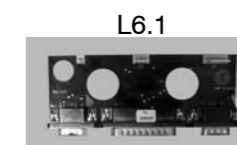
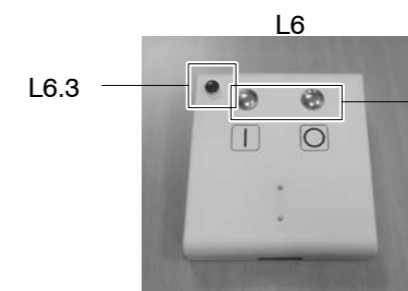
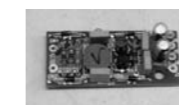
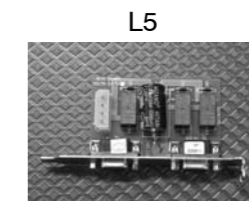
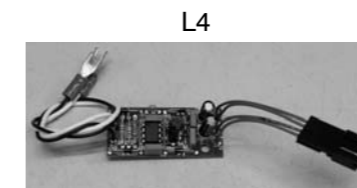
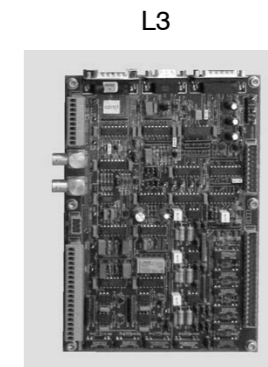
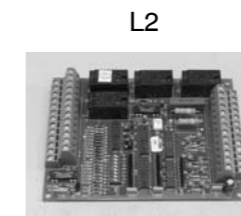
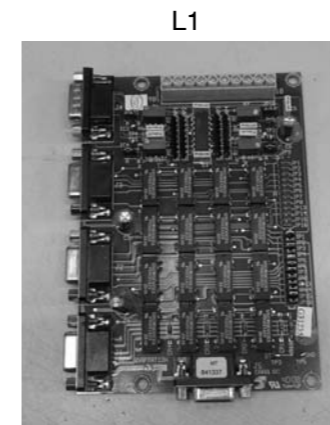
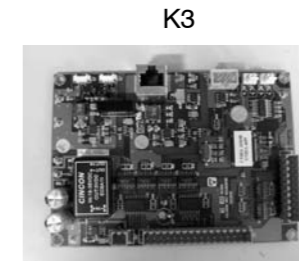
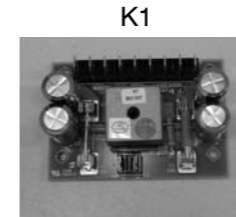
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
J0	ENERGY STORAGE, MOD. 8			
J1	Battery Kit 9 A/h FIAMM	30	A520398-01	

J1

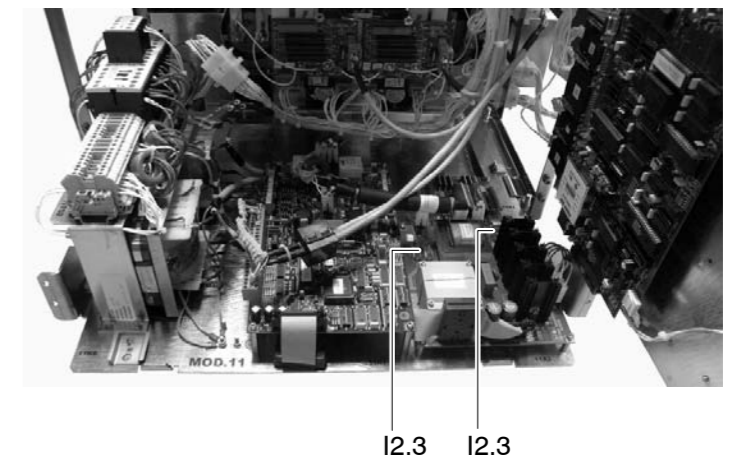
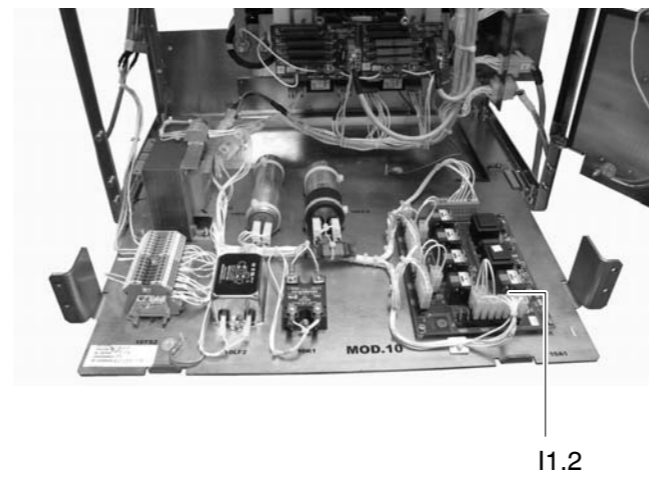
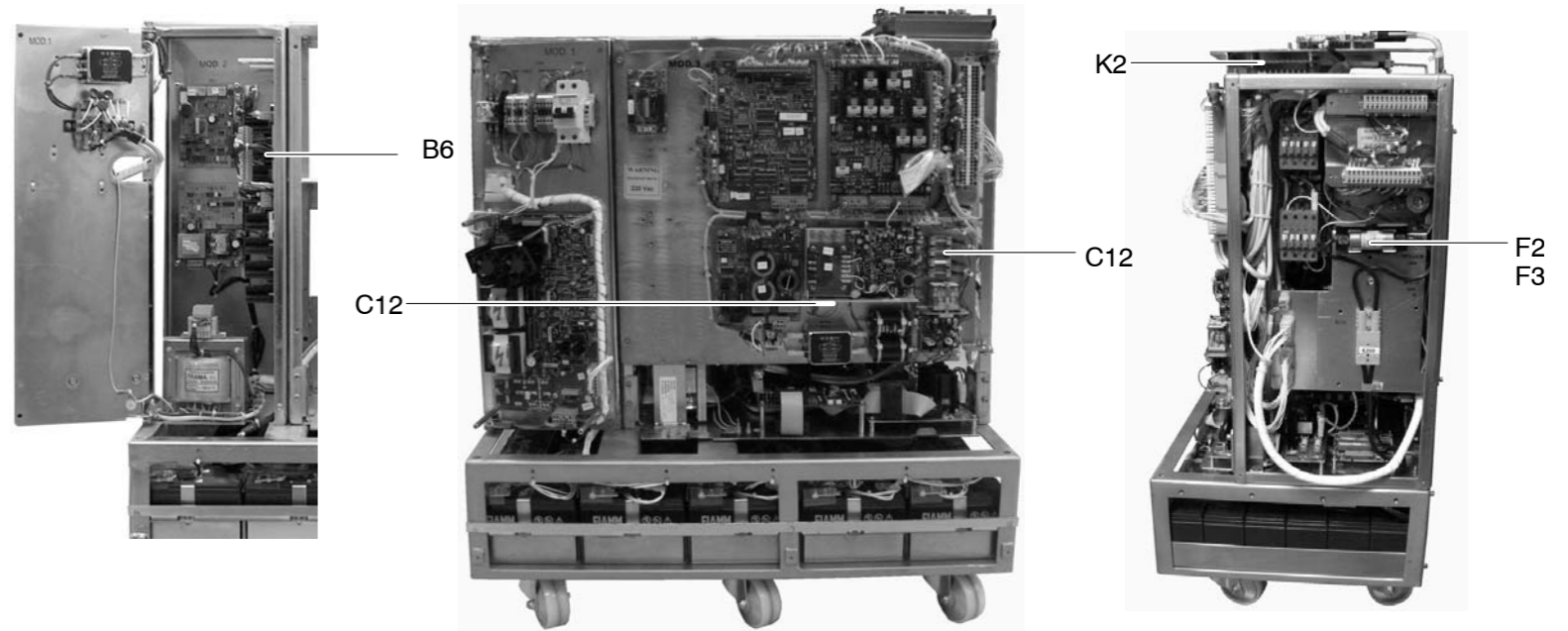


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
K0	ADAPTATION MODULE			
K1	PCB, Locks	1	SAT-A3214-02	
K2	Fuses F1, F2		A520301-01	See Fuse Kit (item M0)
K3	Generator CAN Adapter		SAT-A3548-01	
K4	Adaptations / Options	-		See Adaptations / Options (Item L0). Some Adaptations / Options can be installed on the upper side of the Adaptation Module.

ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
L0	ADAPTATIONS / OPTIONS			
L1	PCB, AEC Adaptation	1	SAT-A3263-03	For 4 Ion Chambers
L2	PCB, Tomo / Bucky	1	SAT-A3261-03	-05 for Bucky 220 VAC
L3	PCB, RF Adaptation	1	SAT-A3514-XX	Only for RF Generator Optional - See -XX on PCB
L4	PhotoMultiplier Adaptation	1	SAT-A6636-01	Not installed in the Generator.
L5	PCB, Auto On /Off	1	SAT-A3179-02	Installed inside a PC
L6	Interface Box PC	1	SAT-A6509-40	For using with a PC
L6.1	PCB Interface Box	1	SAT-A9532-01	
L6.2	Push Button	2	SAT-50613050	
L6.3	Green Lamp	1	SAT-A7262-01	
L7	Dosimeter Option	-		For Renewal Parts refer to the Appendix of the Radiation Measuring System
L8	Other Interface PCB	-		For Renewal Parts refer to the PCB

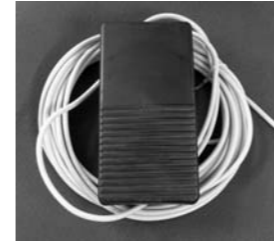


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS																								
M0	FUSE KIT	1	A520301-01	<p>The Fuse Kit is common for all the Generator models and comprises:</p> <table border="1"> <thead> <tr> <th>Reference</th> <th>Qty</th> </tr> </thead> <tbody> <tr><td>53801002</td><td>20</td></tr> <tr><td>53801003</td><td>20</td></tr> <tr><td>53801008</td><td>20</td></tr> <tr><td>53801011</td><td>6</td></tr> <tr><td>53801012</td><td>10</td></tr> <tr><td>53801015</td><td>10</td></tr> <tr><td>53801017</td><td>10</td></tr> <tr><td>53801018</td><td>10</td></tr> <tr><td>53801019</td><td>10</td></tr> <tr><td>53801026</td><td>30</td></tr> <tr><td>53801029</td><td>6</td></tr> </tbody> </table> <p>All fuses installed in the unit are included in the Fuse Kit, except SAT-53801016</p>	Reference	Qty	53801002	20	53801003	20	53801008	20	53801011	6	53801012	10	53801015	10	53801017	10	53801018	10	53801019	10	53801026	30	53801029	6
Reference	Qty																											
53801002	20																											
53801003	20																											
53801008	20																											
53801011	6																											
53801012	10																											
53801015	10																											
53801017	10																											
53801018	10																											
53801019	10																											
53801026	30																											
53801029	6																											
B6	Fuse 2A / 250V, SB		SAT-53801026	Battery Charger: F7 to F21																								
	Fuse 6A / 600V, SB		SAT-53801017	Battery Charger: F2																								
C12	Fuse 1.5 A /250V , SB		SAT-53801012	Control Panel: F2																								
	Fuse 3 A / 250V , SB		SAT-53801003	Control Panel: F6, F7, F8																								
	Fuse 0.4 A / 250V ,SB		SAT-53801015	Power Supply: F9																								
F2	Fuse 50A / 600V SB		SAT-53801011	Input Line: F1; For 40 or 50 kW																								
I1.2	Fuse 6A / 250V SB		SAT-53801002	LF-RAC: F1																								
I2.3	Fuses 0.5A / 250V		SAT-53801019	Interface DRAC PCB: F1, F2																								
	Fuses 15A / 600V FA		SAT-53801018	Interface DRAC PCB: F3, F4																								
	Fuse 6A / 250V SB		SAT-53801002	Interface DRAC PCB: F1 Aerial																								
K2	Fuse 6A / 250V, SB		SAT-53801002	Locks Board: F1																								
	Fuse 10A / 250V, SB		SAT-53801008	Locks Board: F2																								
F3	Fuse 35A / 600V	1	SAT-53801016	Input Line: F1; For 20 or 32 kW, order separately																								



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
N0	CONSOLE			
N1	Pedal Switch for RAD (2 Microswitches)	1	SAT-A6389-XX	With Molex Connector: -01 (4 m); -02 (8 m); With Binder Connector: -04 (8 m); -05 (5 m); -06 (12 m) Without Connector: -08 (8 m); -09 (5 m)
N2	Pedal Switch for Fluoro (1 Microswitch)	1	SAT-A6389-07	(8 m)
N3	Hand Switch equipped – DIN Connector	1	SAT-A3399-XX	-01 for Serial Console -04 Touch Screen Console Included Item N6
N4	Hand Switch equipped	1	SAT-A3223-03	For Standard Console – Included Item N6
N5	Hand Switch equipped – Sub D Conn.	1	SAT-A3223-15	For ON / OFF Interface Box - Included Item N6
N6	Hand Switch Support	1	SAT-7897-01	
N7	PCB, ATP Console CPU	1	SAT-A3024-XX	See XX on the PCB
N8	U24 EPROM	1	SAT-SOFT-ATP	See Generator serial number
N9	PCB, AEC Control	1	SAT-A3012-XX	Optional – See XX on PCB
N10	PCB, Fluoro CPU Only for RF Generator	1	SAT-A3213-XX	Only for RF Generator Optional – See -XX on PCB
N11	U12 EPROM	1	SAT-SOFT-FL	See Generator serial number
N12	Console Overlay	1		See Generator serial number
N13	PCB, Display Console	1		See Generator serial number
N14	TPC Pedestal	1	SAT-A6272-00	
N15	Multipurpose Pedestal	1	SAT-A6267-00	
N16	Table Support	1	SAT-A6271-00	
N17	Wall Support	1	SAT-A6273-00	
N18	Pedestal Support	1	A520385-01	

N1 – N2



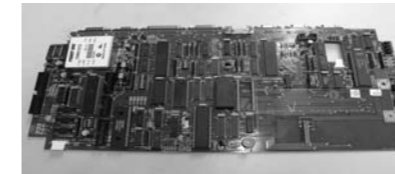
N3 –N4 – N5



N6



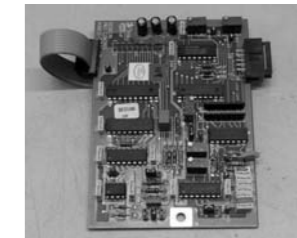
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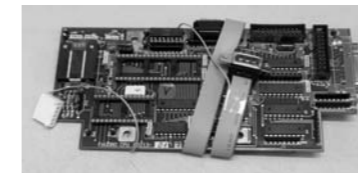
N8



N9



N10



N11

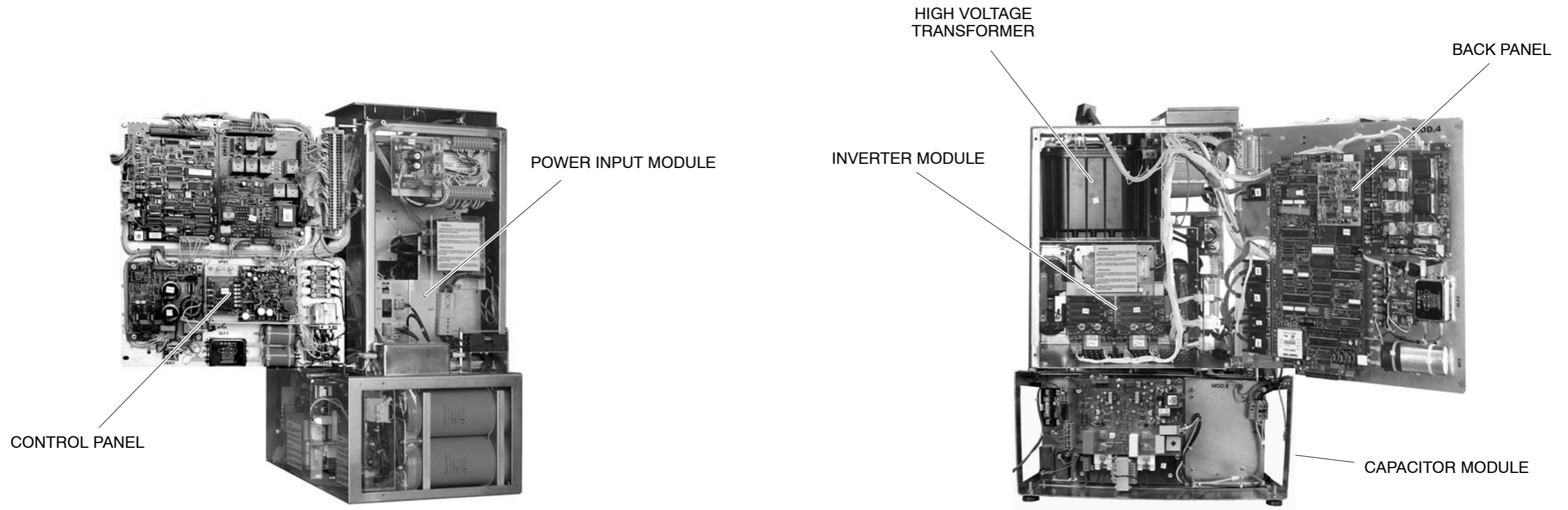


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
O0	INTERCONNECTIONS			
O1	Serial Cable	1	SAT-A7066-XX	-XX Length Dependant
O2	Serial Cable	1	SAT-A7067-XX	-XX Length Dependant
O3	Communication Cable J3 (xx m)	1	SAT-A3231-XX	-XX Length Dependant
O4	Interface Cable J2 (xx m) 15 wires	1	SAT-A3379-XX	-XX Length Dependant
O5	AEC Adaptation Cable (J5-J4)	1	SAT-A3251-01	
O6	Adaptation Cable for GE Ion Chamber	1	SAT-A3082-01	Option related to the Ion Chamber
O7	Adaptation Cable for BVM/ CGR Ion Chamber	1	SAT-A3081-01	Option related to the Ion Chamber
O8	Adaptation Cable for MEDYS Ion Chamber	1	SAT-A6715-01	Option related to the Ion Chamber
O9	Adaptation Cable for Philips Ion Chamber	1	SAT-A3080-01/02	Option related to the Ion Chamber
O10	Interface Box Serial Cable	1	SAT-A3352-XX	-XX Length Dependant
O11	Interface Box - Computer Cable	1	SAT-A3363-XX	-XX Length Dependant

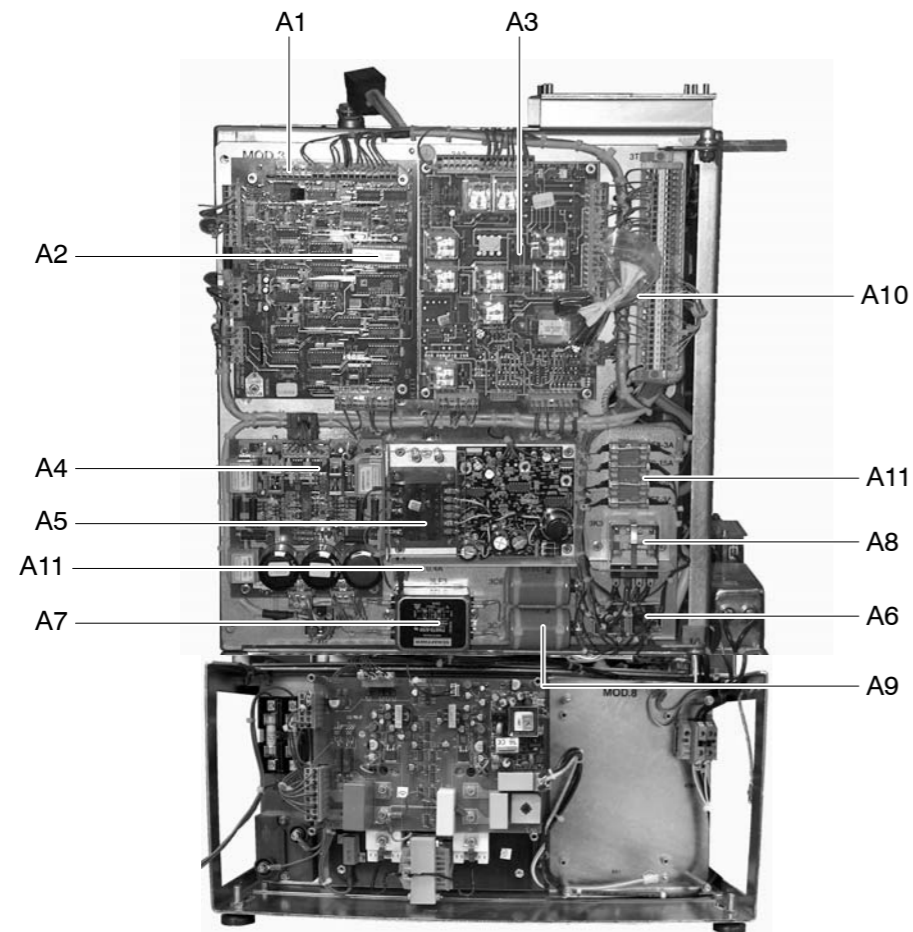
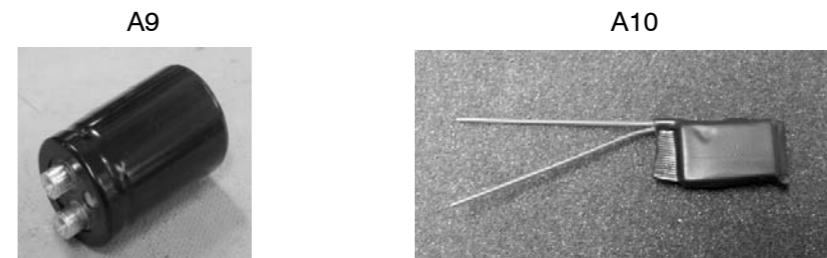
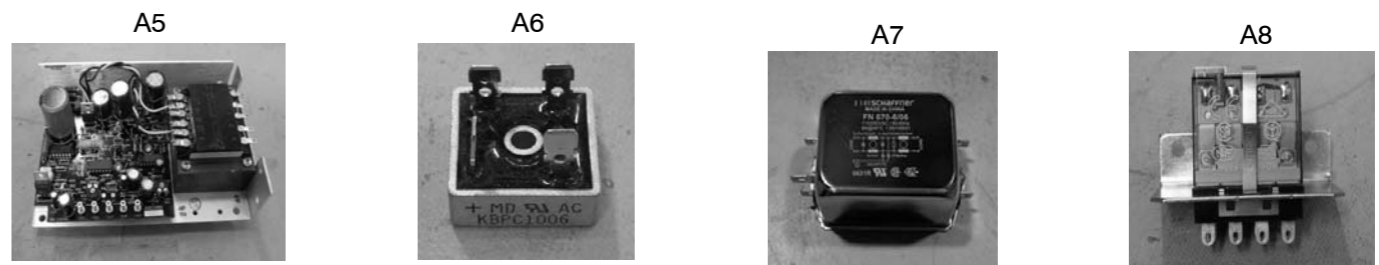
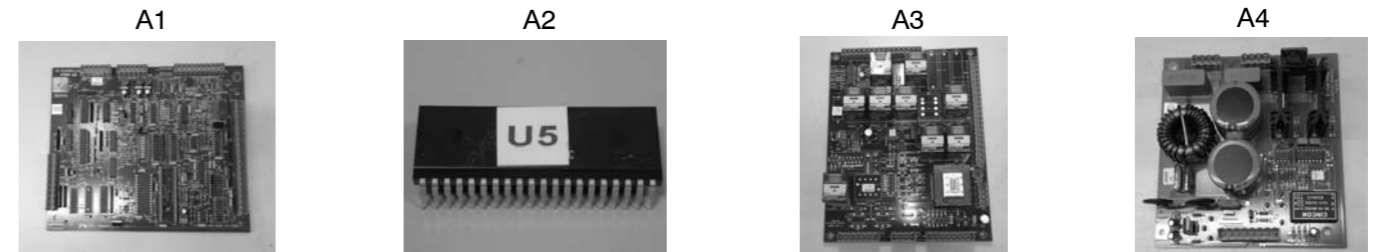
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
P0	MISCELLANIOUS			
P1	Cover Generator	1	SAT-6591-03	
P2	Green Neon Lamp 220Vac	1	A522006-01	
P3	Green Neon Lamp 380Vac	1	A522007-01	

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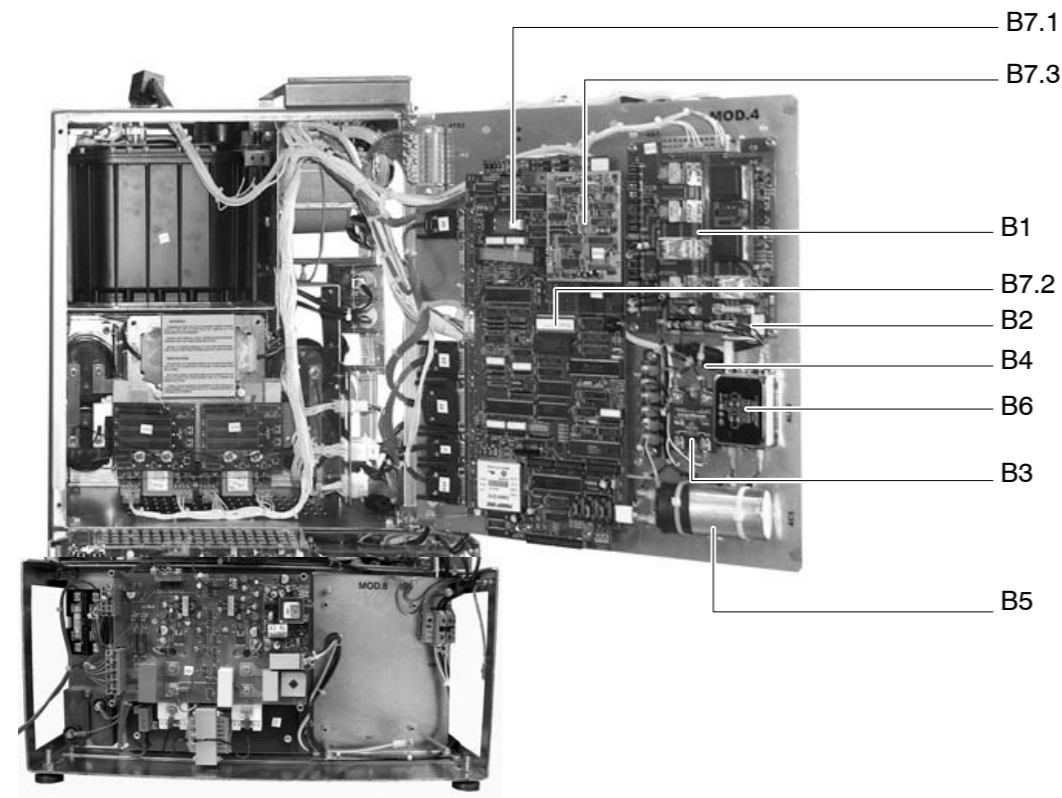
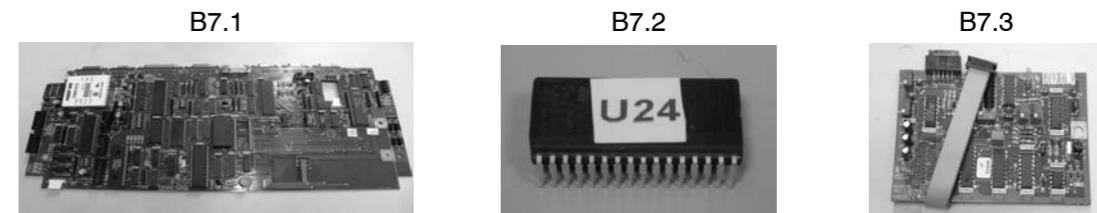
SECTION 4 **COMPACT-C GENERATOR**
(CAPACITOR DISCHARGE)
ONE TUBE – LOW SPEED STARTER



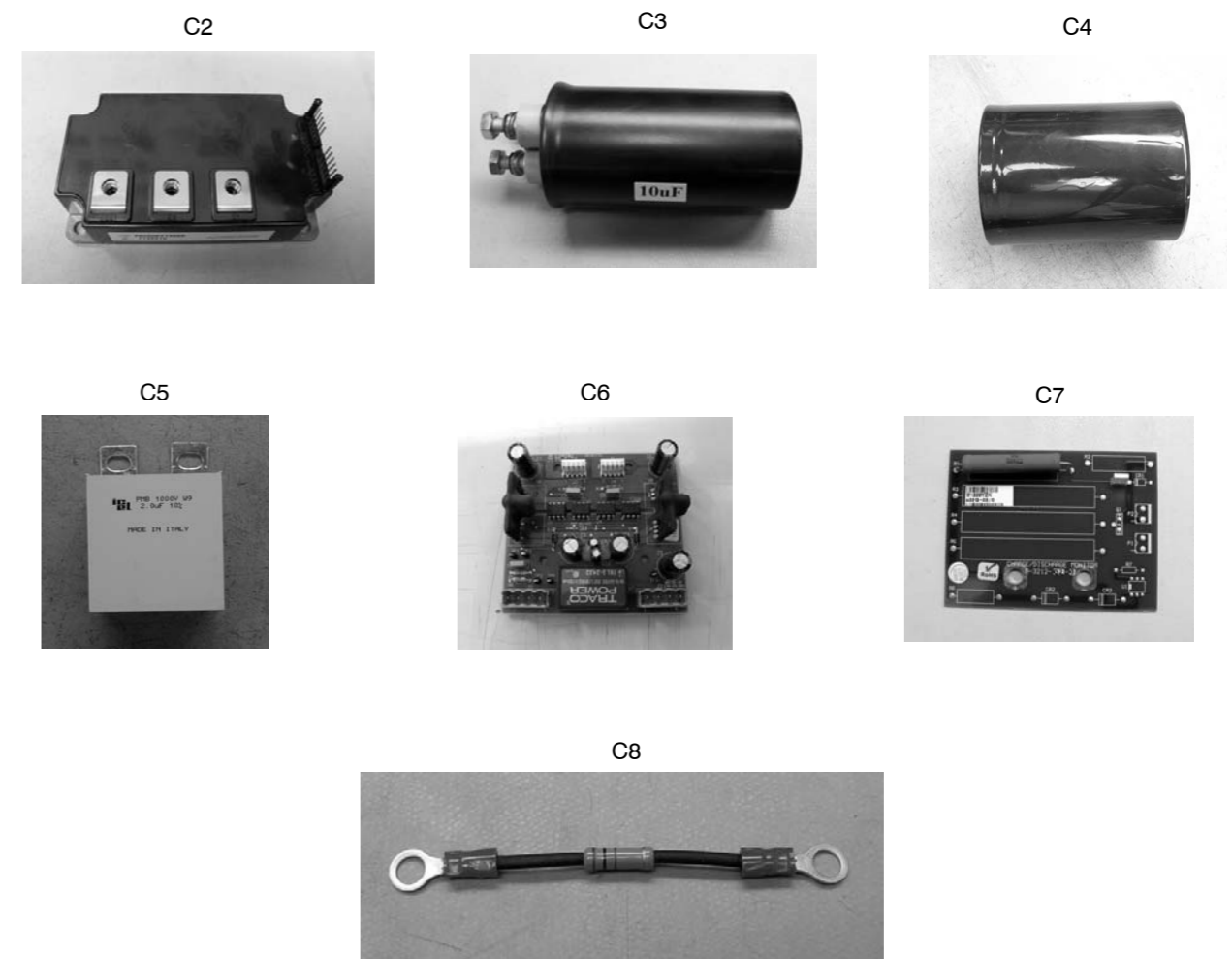
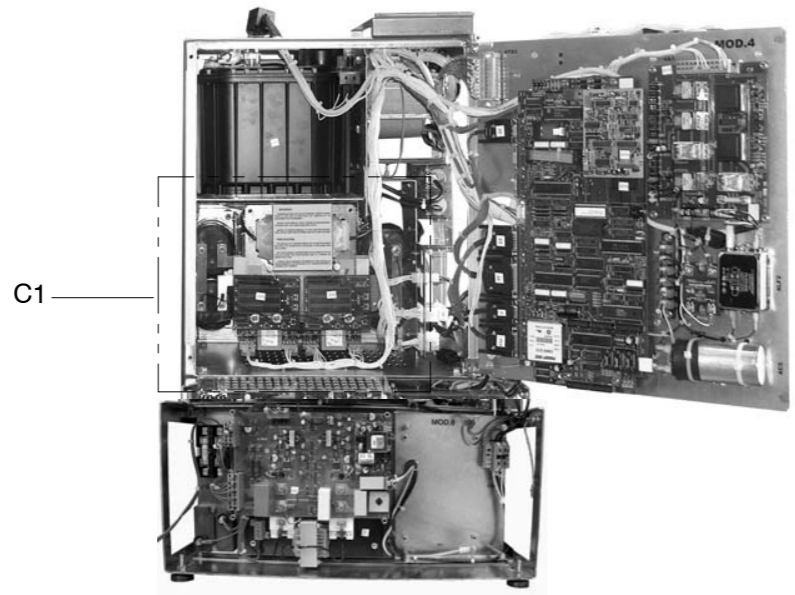
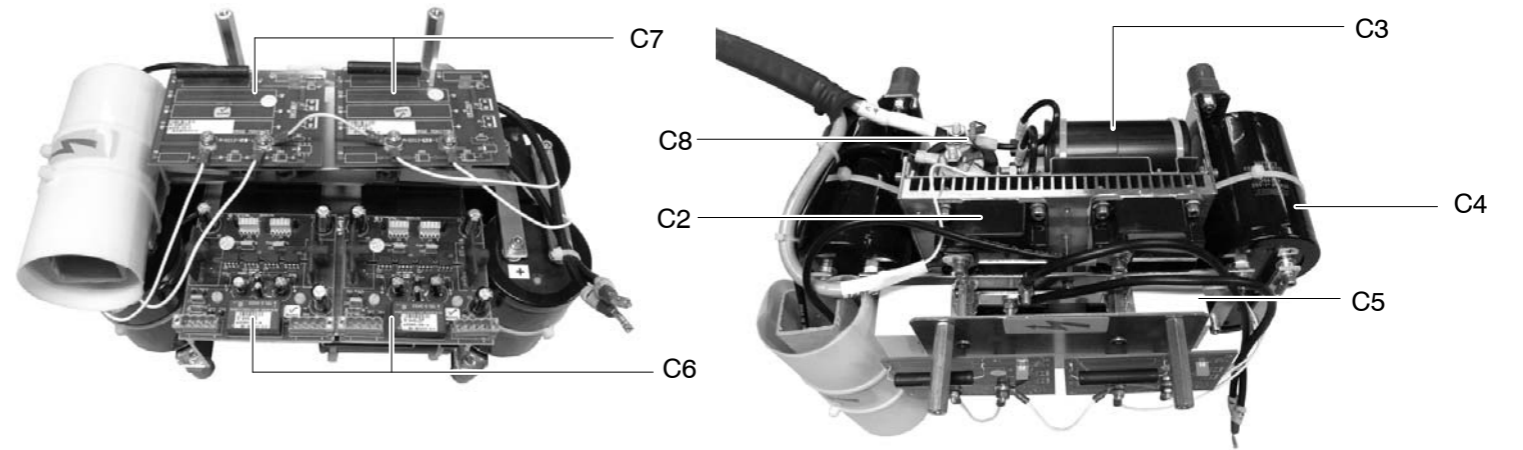
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
A0	CONTROL PANEL, MOD. 3			
A1	PCB, HT Controller	1	SAT-A3000-xx	See - xx on PCB
A2	U5 EPROM	1	SAT-SOFT-HT	See generator serial number
A3	PCB, Interface Control	1	SAT-A3009-XX	See - xx on PCB
A4	PCB, Filament Driver	1	SAT-A3004-XX	See - xx on PCB
A5	Low Voltage Power Supply	1	SAT-53418001	PS1
A6	Rectifier Bridge FAGOR / 10Amp.	3	SAT-53404002	BR1, BR2 & BR4
A7	Filter Line	1	SAT-50208001	LF3
A8	ON/OFF Relay 4PDT /110V	1	SAT-51401012	K3
A9	Capacitor ELE 2400 μ F, 50V	2	SAT-54002007	C6, C7
A10	Equipped RC	1	SAT-A3313-02	Supplied in a bag
A11	Fuses F2, F6, F7, F8, F9		A520301-01	See Fuse Kit (<i>item 10</i>)



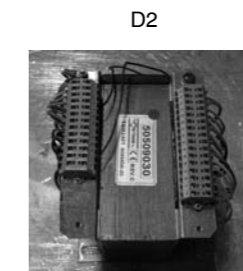
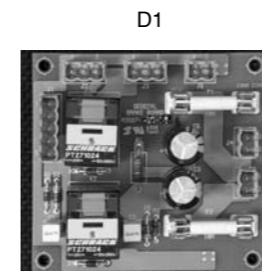
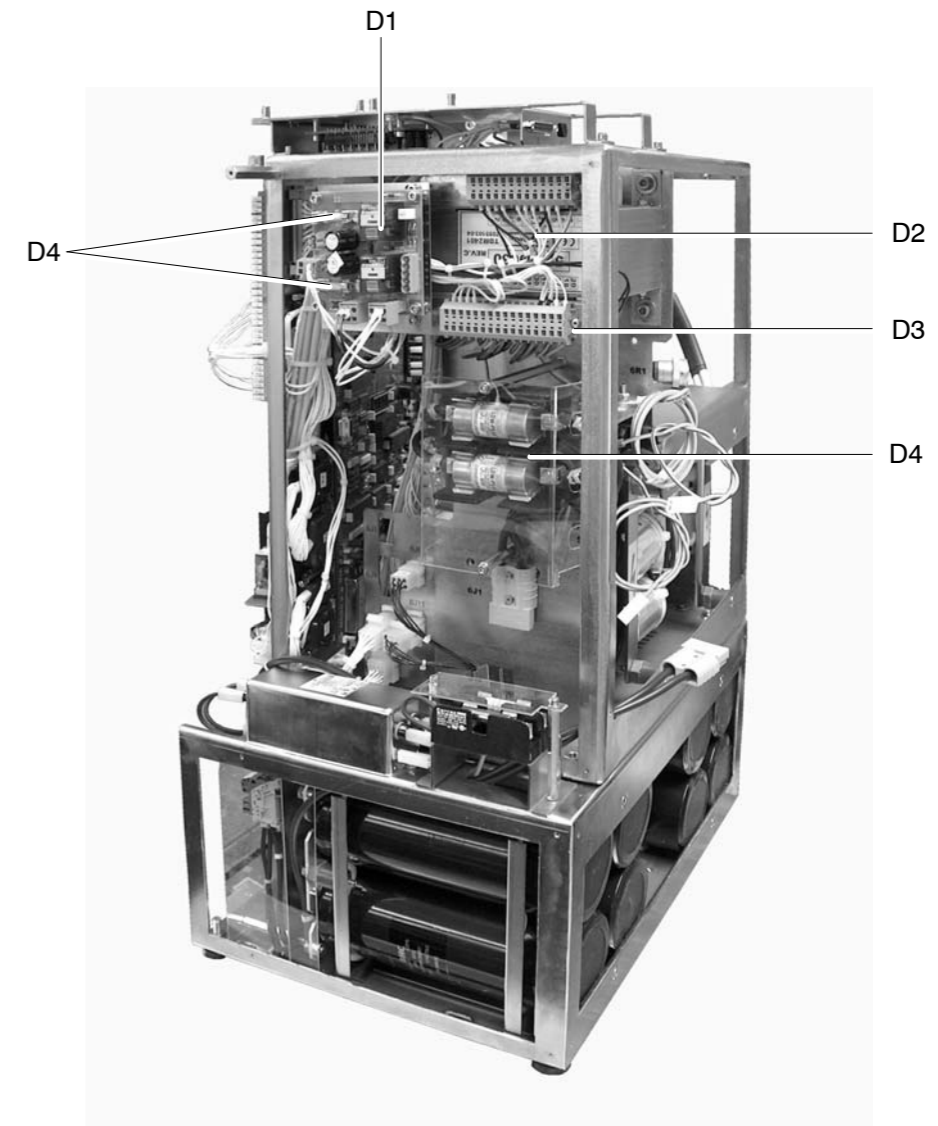
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
B0	BACK PANEL, MOD.4			
B1	Low Speed Starter (LF-RAC)	1	SAT-A6381-05	
B2	PCB, LF-RAC	1	SAT-A3096-02	
B3	Fuse F1		A520301-01	See Fuse Kit (item 10)
B4	Relay Solid State	1	SAT-51404008	K1
B5	Capacitor 30 μ F, 370V	1	SAT-54001002	C5
B6	Filter Line	1	SAT-50208001	LF2
B7	CPU			Only for Serial (RS232) Generators
B7.1	PCB, ATP Console CPU	1	SAT-A3024-xx	Optional - See XX on PCB
B7.2	U24 EPROM	1	SAT-SOFT-ATP	See Generator serial number
B7.3	PCB, AEC Control	1	SAT-A3012-xx	Optional - See XX on PCB



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
C0	INVERTER MODULE, MOD. 5			
C1	Inverter for Capacitor Generator	1	SAT-A11700-80	
C2	IGBT 300A / 1200V Low Power	2	SAT-53416038	
C3	Capacitor 10 μ F, 1000 VDC	1	SAT-54001011	C9
C4	Capacitor Elec. 3700 μ F, 450 VDC	4	SAT-54002011	C1, C2, C3 & C4
C5	Capacitor 2 μ F, 1000 VDC	2	SAT-54008002	C10, C11
C6	PCB, IPM Driver	2	SAT-A3063-06	
C7	PCB, Charge / Discharge Monitor	2	SAT-A3212-02	Capacitor Generator
C8	Equipped Resistor	1	SAT-A3312-01	



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
D0	POWER INPUT MODULE, MOD. 6			
D1	PCB, Brake Board	1	SAT-A3567-04	
D2	Transformer T2	1	SAT-50509030	T2
D3	Green light Lamp	1	SAT-54203006	NL1
D4	Fuses 6F3, 6F4, F1, F2		A520301-01	See Fuse Kit (<i>item 10</i>)

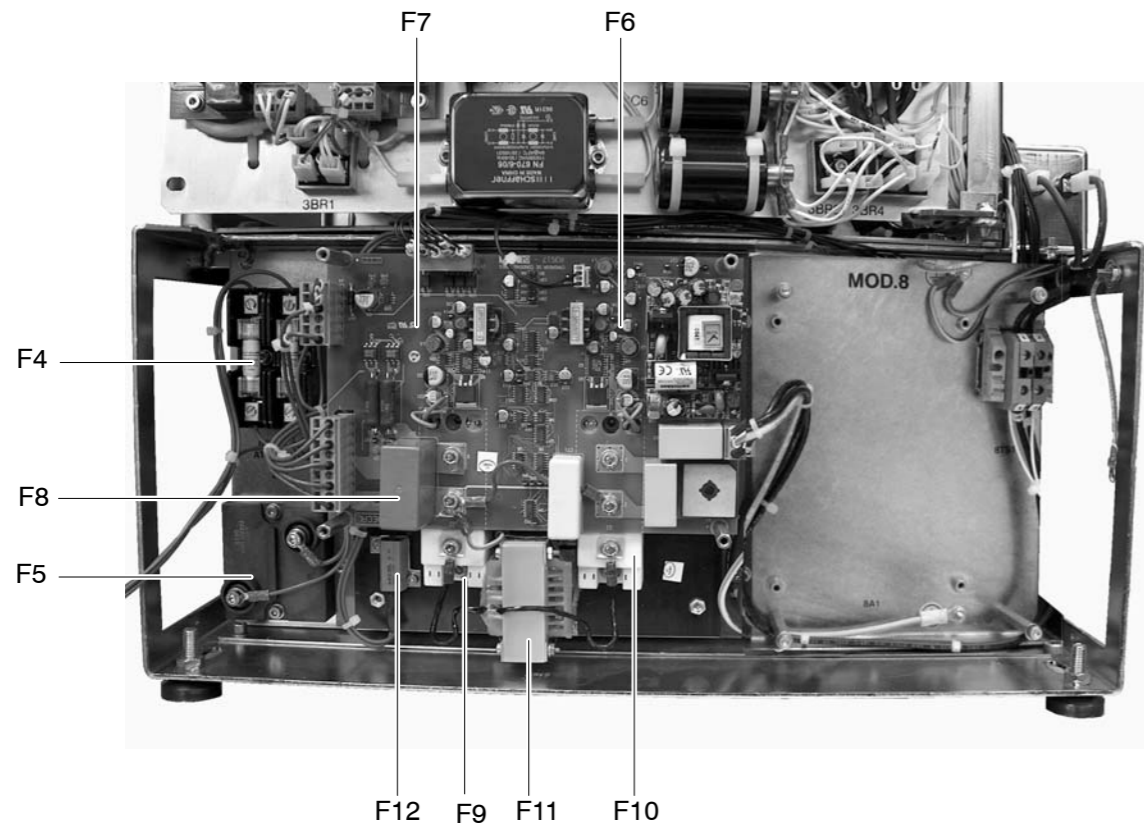
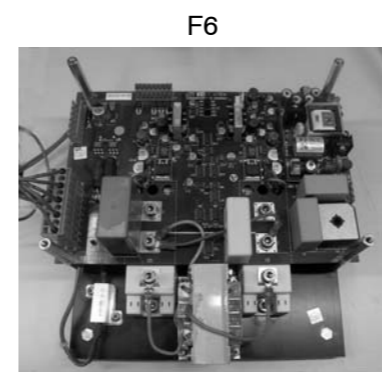
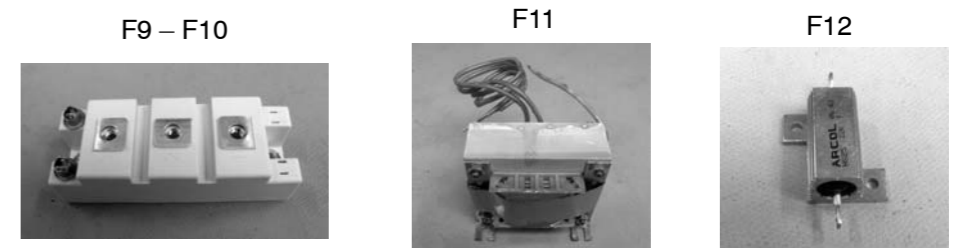
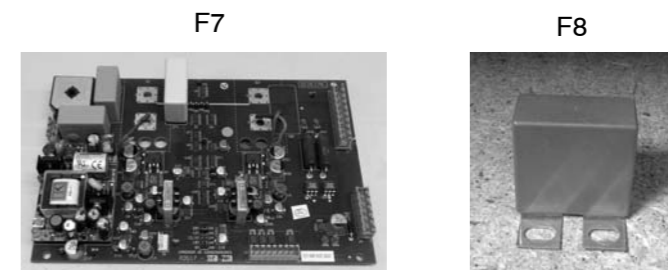
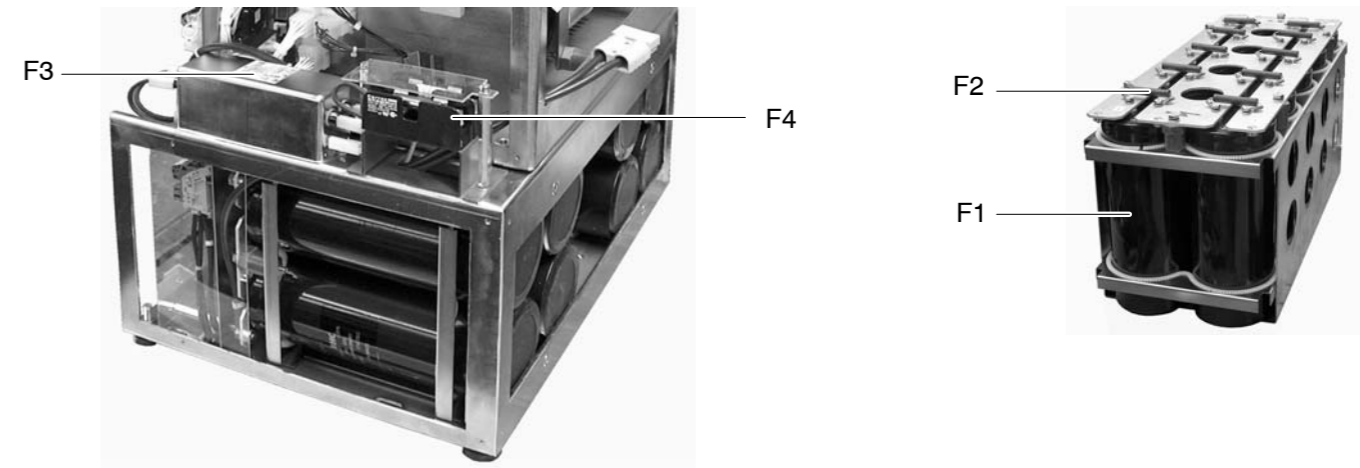


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
E0	HIGH VOLTAGE TANK			
E1	H V Tank (150 kV)/ 1Tube 220V	1	SAT-A6097-56	

E1

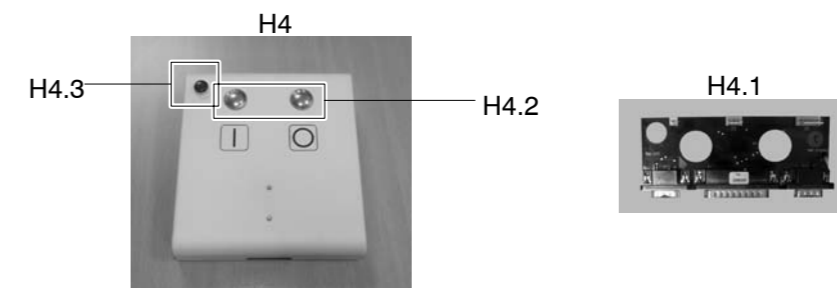
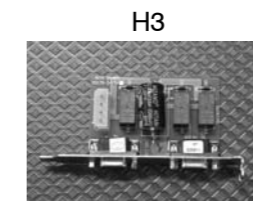
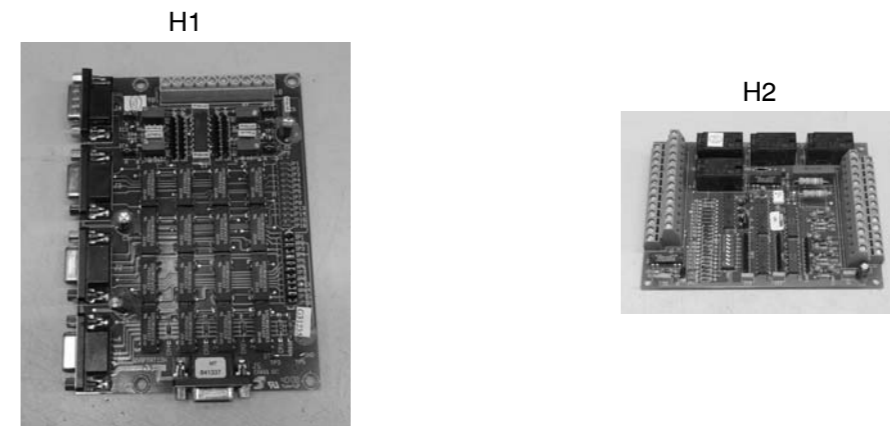
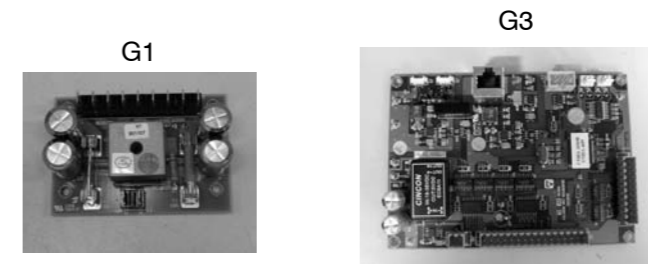


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
F0	CAPACITOR MODULE MOD.8			
F1	Capacitor ELE 17600 µF, 450 VDC	*	SAT-54002037	*Qty : 10 for 32/40/50 kW, 8 for 20 kW, 6 for 16 kW
F2	Resistor 47K 15W 5%	*	SAT-52712017	*Qty : 10 for 32/40/50 kW, 8 for 20 kW, 6 for 16 kW
F3	Corcom EMC Filter	1	SAT-50208012	
F4	Fuses 8F1, 8F2, 8F3, 8F4		A520301-01	See Fuse Kit (item 10)
F5	Power Resistor	1	SAT-52707016	
F6	Capacitor Module Charger Kit	1	SAT-A8301-02	Includes items F7 to F12
F7	PCB, Capacitor Charger	1	SAT-A3517-02	
F8	Capacitor 0.47 µF, 100 VDC	1	SAT-54003022	
F9	IGBT BSM35GB120DLC	1	SAT-53416026	
F10	IGBT BSM50GB60DLC	1	SAT-53416027	
F11	Inductance 2.7 mH / 30 A	1	SAT-A6071-01	
F12	Resistor NHS-25 22K	2	SAT-52708006	

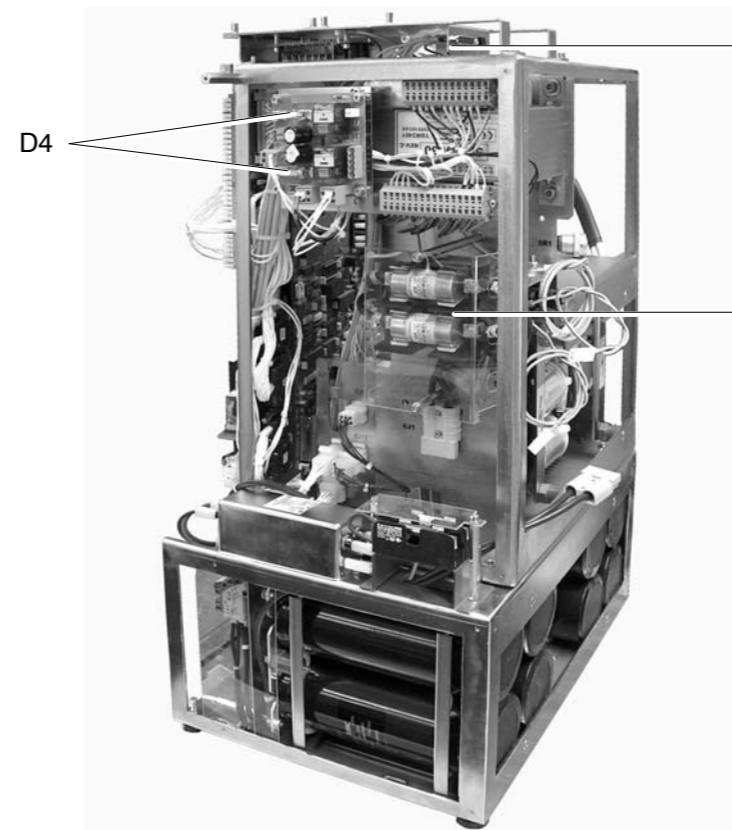
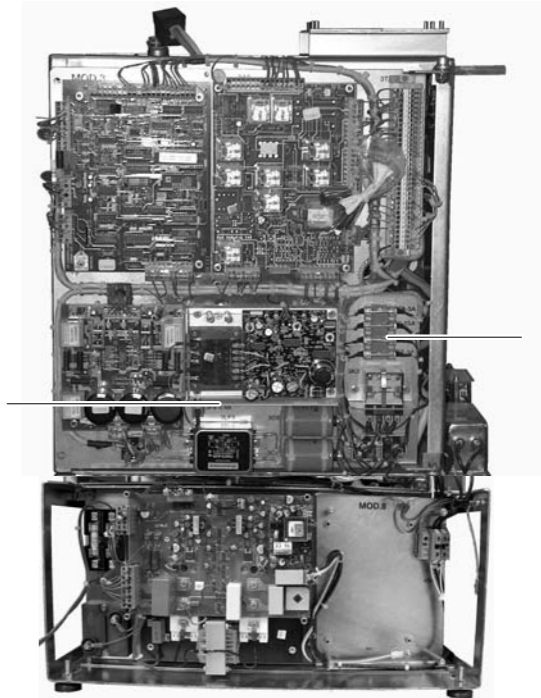
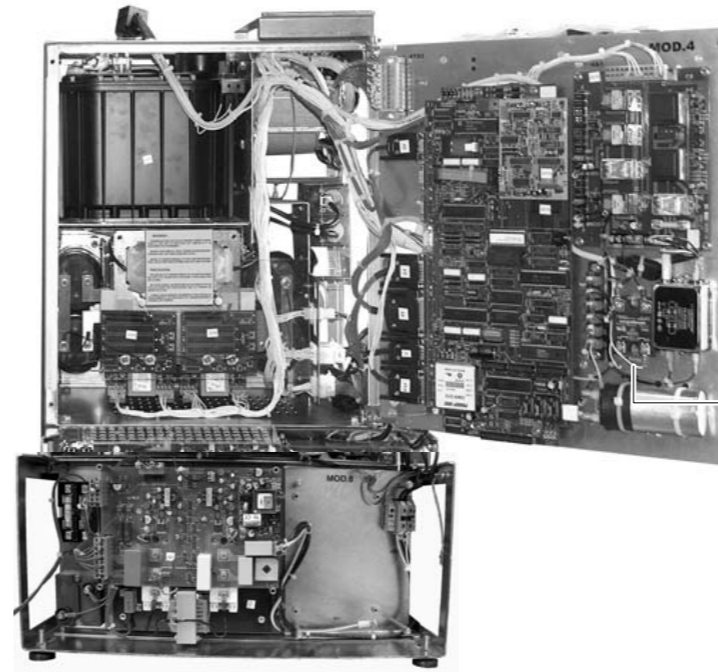


ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
G0	ADAPTATION MODULE			
G1	PCB, Locks	1	SAT-A3214-02	
G2	Fuses F1, F2		A520301-01	See Fuse Kit (item I0)
G3	Generator CAN Adapter		SAT-A3548-01	
G4	Adaptations / Options	-		See Adaptations / Options (Item H0). Some Adaptations / Options can be installed on the upper side of the Adaptation Module.

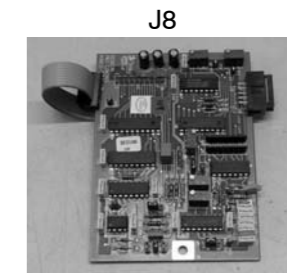
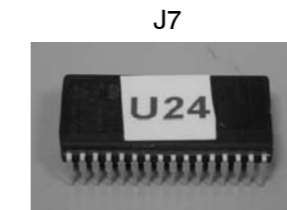
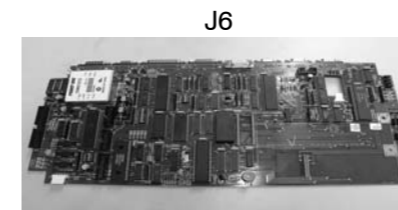
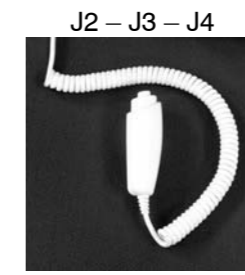
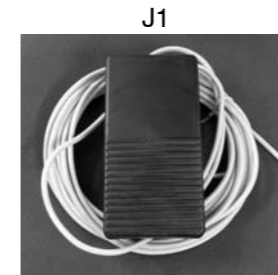
ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
H0	ADAPTATIONS / OPTIONS			
H1	PCB, AEC Adaptation	1	SAT-A3263-03	For 4 Ion Chambers
H2	PCB, Tomo / Bucky	1	SAT-A3261-03	-05 for Bucky 220 VAC
H3	PCB, Auto On /Off	1	SAT-A3179-02	Installed inside a PC
H4	Interface Box PC	1	SAT-A6509-40	For using with a PC
H4.1	PCB Interface Box	1	SAT-A9532-01	
H4.2	Push Button	2	SAT-50613050	
H4.3	Green Lamp	1	SAT-A7262-01	
H5	Dosimeter Option	-		For Renewal Parts refer to the Appendix of the Radiation Measuring System
H6	Other Interface PCB	-		For Renewal Parts refer to the PCB



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS																								
I0	FUSE KIT	1	A520301-01	<p>The Fuse Kit is common for all the Generator models and comprises:</p> <table border="1"> <thead> <tr> <th>Reference</th> <th>Qty</th> </tr> </thead> <tbody> <tr><td>53801002</td><td>20</td></tr> <tr><td>53801003</td><td>20</td></tr> <tr><td>53801008</td><td>20</td></tr> <tr><td>53801011</td><td>6</td></tr> <tr><td>53801012</td><td>10</td></tr> <tr><td>53801015</td><td>10</td></tr> <tr><td>53801017</td><td>10</td></tr> <tr><td>53801018</td><td>10</td></tr> <tr><td>53801019</td><td>10</td></tr> <tr><td>53801026</td><td>30</td></tr> <tr><td>53801029</td><td>6</td></tr> </tbody> </table> <p>All fuses installed in the unit are included in the Fuse Kit.</p>	Reference	Qty	53801002	20	53801003	20	53801008	20	53801011	6	53801012	10	53801015	10	53801017	10	53801018	10	53801019	10	53801026	30	53801029	6
Reference	Qty																											
53801002	20																											
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53801019	10																											
53801026	30																											
53801029	6																											
A11	Fuse 1.5 A /250V , SB		SAT-53801012	Control Panel: F2																								
	Fuse 3 A / 250V , SB		SAT-53801003	Control Panel: F6, F7 and F8																								
	Fuse 0.4 A / 250V ,SB		SAT-53801015	Power Supply: F9																								
B3	Fuse 6A / 250V SB		SAT-53801002	Input Module: F1																								
D4	Fuse 50A / 600V SB		SAT-53801011	DC Bus: 6F3, 6F4																								
	Fuse 10A / 250V T		SAT-53801008	Brake Board: F1, F2																								
F4	Fuse 15A / 500V SB		SAT-53801029	Input Line: 8F1, 8F2 (8F2 provided with Generator in plastic bag) Usually a Metallic Bar is installed in 8F2																								
	Fuse ATM 15 A / 600 V		SAT-53801018	Capacitor Block: 8F3, 8F4																								
G2	Fuse 6A / 250V, SB		SAT-53801002	Locks Board: F1																								
	Fuse 10A / 250V, SB		SAT-53801008	Locks Board: F2																								



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
J0	CONSOLE			
J1	Pedal Switch for RAD (2 Microswitches)	1	SAT-A6389-XX	With Molex Connector: -01 (4 m); -02 (8 m); With Binder Connector: -04 (8 m); -05 (5 m); -06 (12 m) Without Connector: -08 (8 m); -09 (5 m)
J2	Hand Switch equipped – DIN Connector	1	SAT-A3399-XX	-01 for Serial Console -04 Touch Screen Console Included Item J5
J3	Hand Switch equipped	1	SAT-A3399-03	For Standard Console –Included Item J5
J4	Hand Switch equipped – Sub D Conn.	1	SAT-A3223-15	For ON / OFF Interface Box - Included Item J5
J5	Hand Switch Support	1	SAT-7897-01	
J6	PCB, ATP Console PCB	1	SAT-A3024-XX	See XX on the PCB
J7	U24 EPROM	1	SAT-SOFT-ATP	See Generator serial number
J8	PCB, AEC Control	1	SAT-A3012-XX	Optional – See XX on PCB
J9	Console Overlay	1		See Generator serial number
J10	PCB, Display Console	1		See Generator serial number
J11	TPC Pedestal	1	SAT-A6272-00	
J12	Multipurpose Pedestal	1	SAT-A6267-00	
J13	Table Support	1	SAT-A6271-00	
J14	Wall Support	1	SAT-A6273-00	
J15	Pedestal Support	1	A520385-01	



ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
K0	INTERCONNECTIONS			
K1	Serial Cable	1	SAT-A7066-XX	-XX Length Dependant
K2	Serial Cable	1	SAT-A7067-XX	-XX Length Dependant
K3	Power Cable J1 (xx m)	1	SAT-A3230-XX	-XX Length Dependant
K4	Communication Cable J3 (xx m)	1	SAT-A3231-XX	-XX Length Dependant
K5	Interface Cable J2 (xx m) 15 wires	1	SAT-A3379-XX	-XX Length Dependant
K6	AEC Adaptation Cable (J5-J4)	1	SAT-A3251-01	
K7	Adaptation Cable for GE Ion Chamber	1	SAT-A3082-01	Option related to the Ion Chamber
K8	Adaptation Cable for BVM/ CGR Ion Chamber	1	SAT-A3081-01	Option related to the Ion Chamber
K9	Adaptation Cable for MEDYS Ion Chamber	1	SAT-A6715-01	Option related to the Ion Chamber
K10	Adaptation Cable for Philips Ion Chamber	1	SAT-A3080-01/02	Option related to the Ion Chamber
K11	Interface Box Serial Cable	1	SAT-A3352-XX	-XX Length Dependant
K12	Interface Box - Computer Cable	1	SAT-A3363-XX	-XX Length Dependant

ITEM	DESCRIPTION	QTY	REFERENCE	REMARKS
L0	MISCELLANIOUS			
L1	Cover Generator	1	SAT-6470-10	

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