

USED ON

MODEL

SECTION

GPE-1

AX-615

S

LIST NO.

REV.

GENERAL PURPOSE EXCITER MAIN ASS'Y
(TITLE)

LIST SECTIONS

- 1. SUPPORTING LISTS
- 2. ELECTRICAL / MECHANICAL (PG. 1-9)
- 3. TUBES / DIODES (PG. 10)
- 4. HARDWARE (PG. 11 - 16)
- 5. RAW MATERIALS (PG. 17 - 19)
- 6. SUPPORTING DRAWINGS (PG. 20 - 21)
- 7. SPECIFICATIONS (PG. 22)
- 8. LOOSE ITEMS (SEE ML-GPE-1)
- 9. PARTS PECULIAR NONE REQ.

TYPED _____

CHECKED W. GENTILE

APPROVED O. POSE

MATERIAL LIST

REV

A B C D E F G H J K L M N P R
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MODEL AX615

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22

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
1	A-3018-1		4	Machining, Terminal Board, #1				
1	A-3018-2		4	Lettering, Terminal Board, #1				
1	A-3018-3		4	Sub-Ass'y., Terminal Board, #1				
1	BI-101-47		1	Lamp, Incandescent				DS1
1	BI-102-3		1	Lamp, Incandescent, 3 Watt				DS2
12	CB21PD102J		2	Capacitor, Fixed, Button				C28, 69, 70 C71, 72, 73, C74, 75, 76 C77, 84, C89
1	CB-159-1		4	Capacitor, Variable, Air		A-2219	1	C45C C45B C45A
1	CB-159-2		4	Capacitor, Variable, Air				
1	CB-159-3		4	Capacitor, Variable, Air				
1	CC-100-15		2	Capacitor, Fixed, Disc, .005 uf				C53
11	CC-100-16		2	Capacitor, Fixed, Disc, .01 uf				C8, 10, 11 , C13, 17, 36, C61, C63, 65, C67, 68
6	CC-100-29		2	Capacitor, Fixed, Disc, .001 uf				C15, 19, 24, C26, 37, 39
4	CC-100-32		2	Capacitor, Fixed, Disc, .1 uf				C51, C64,
1			2	Capacitor, Fixed, Electrolytic, 1.0 uf		A-3018-4	1	C1
4	CE-107-1		2	Capacitor, Fixed, Electrolytic, 50 uf	60 V	A2218	1	C38
1	CE-107-2		2	Capacitor, Fixed, Electrolytic, 6 uf	100V		1	C60, 62, 80, 88 C80, 88
1	CE-107-3		2	Capacitor, Fixed, Electrolytic, 6 uf	25 V		1	C52

MATERIAL LIST				REV	A	B	C	D	E	F	G	H	J	K	L	M	N	P	K	MODEL	AX615		
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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION	REF.	LOCATION		SYMBOLS															
						USED ON	QUAN.																
ELECTRICAL/MECHANICAL																							
3	CF-124-1.125		1	Form, Coil		TT-139	2																
						TT-140	1																
8	CF-133-1.125		1	Form, Coil		TT-134	1																
						TT-135	2																
						TT-136	1																
						TT-137	3																
						TT-138	1																
8	CI-109-7		2	Core, Tuning		TT-134	1																
						TT-135	2																
						TT-136	1																
						TT-137	3																
						TT-138	1																
3	CI-109-10		2	Core, Tuning		TT-139	2																
						TT-140	1																
14	CK70A202M		1	Capacitor, Feedthru		A-2219	3	C9, 14, 18,															
						A-2219	3	C25, 29, 40,															
						A-2219	3	C46, 48, 49,															
						A-2219	3	C50, 66, 81,															
						A-2219	2	C82, 83															
2	CL-140 -1		1	Coil, Molded, R.F. 2.5 MH				L1, 26															
23	CL-240-120		2	Coil, Molded, R.F., 120 uh				L2, 3, 4, 5, L6, 7, 8, 9, L10, 11, 12, L13, 14, 15, L16, 17, 18, L19, 20, 21, L22, 24, 25															

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION	REF.	LOCATION		SYMBOLS															
						USED ON	QUAN.																
ELECTRICAL/MECHANICAL																							
3	CM15C240J		2	Capacitor, Fixed, Mica				C85, 86, 87															
1	CM15C270J		2	Capacitor, Fixed, Mica				C7															
3	CM15C361J		2	Capacitor, Fixed, Mica		A-3018-4	3	C55, 56, 57															
1	CM15C470J		2	Capacitor, Fixed, Mica				C6															
6	CM15C511J		2	Capacitor, Fixed, Mica		A-2216 A-2217	2 2	C12 C16, 23, C27, 34,															
2	CM15C560J		2	Capacitor, Fixed, Mica				C5, 54 C58															
1	CM20C162J		2	Capacitor, Fixed, Mica																			
1	CM20F102G			Capacitor, Fixed, Mica																			
1	CN-113-1		1	Capacitor, Fixed, Mylar, .05 uf		A-3018-4	1	C59 C47															
1	CP106C474-2		4	Capacitor, Fixed, Mylar, .47 uf				C35															
11	CV11C300		1	Capacitor, Variable, Ceramic, 4-30 uuf				C20, 21, 22, C30, 31, 32, C33, 41, 42, C43, 44															
3	CV-107-1		4	Capacitor, Variable, Ceramic				C2, 3, 4															
1	DT-101R30-4-2		1	Detent, Rotary Switch																			
2	HA-102-2BN		2	Handle																			

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	LOCATION		SYMBOLS															
						USED ON	QUAN.																
1	HI-101		1	Hinge, Door																			
1	IM-100		1	Insulator, Door, Xtal Oven		A-3020	1																
1	JJ-034		1	Jack, Telephone				J2															
1	JJ-212		1	Connector, Receptacle	Mike			J5															
1	MC-102		1	Shaft, Switch Coupling		WS-102 Mtg.	1																
2	MC-111		1	Coupling, Flexible		CB-159 Mtg.	2																
7	MP-100-4		2	Knob, Instrument, W/Pointer																			
1	MR-151		2	Meter, Output, 0-25 UA				M1															
1	MS-138		1	Plate, Door, Xtal Oven		A-3020	1																
4	MS-154-1		1	Plate, Straddle		TM-100 Mtg.	2																
1	MS-1325		1	Support, Sideplate, Right																			
1	MS-1775-17		4	Cover, Blank Size, Top	MS-2622																		
1	MS-1784-8		4	Cover, Blank Size, Bottom	MS-2620																		
1	MS-2560		8	Panel, Front	LD-916																		
1	MS-2562		1	Door, Oven		A-3020	1																
1	MS-2612		8	Chassis, Main	LD-951																		
1	MS-2616		4	Plate, Side, Left																			
1	MS-2618		2	Shield, RF, Capacitor Mtg.	LD-953	A-2219	1																
1	MS-2620		2	Cover, Bottom	MS-1784-8																		
2	MS-2621		2	Shield, RF, Switch Mtg.	LD-952	A-2216	1																
					LD-971	A-2217	1																
1	MS-2622		4	Cover, Top	MS-1775-17																		
6	MS-2623		1	Bracket, Condensor, Tuning																			
1	MS-2638		1	Bracket, Switch	LD-962	A-2218	1																

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
1	NP-102-37		2	Nameplate, Identification	Comm.	A-3020	1	
1	PX-337-8		1	Insulator, Terminal Strip				
1	PX-337-12		1	Insulator, Terminal Strip				
1	PM691EF7.750P		1	Shaft, Phenolic, Flatted				
1	RA-109TRD253A		2	Resistor, Variable, Composition	Output			R48
4	RC20GF100K		2	Resistor, Fixed, Composition				R16, 18, 21, R24
2	RC20GF101K		2	Resistor, Fixed, Composition		A-3018-4	1	R5, R55
4	RC20GF102J		2	Resistor, Fixed, Composition		A-2216	1	R9, 19, 36, R60
3	RC20GF103K		2	Resistor, Fixed, Composition		A-2216	1	R4,
						A-2217	1	R15, R20
1	RC20GF104K		2	Resistor, Fixed, Composition		A-3018-4	1	R34
1	RC20GF105K		2	Resistor, Fixed, Composition				R10

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	LOCATION		SYMBOLS															
						USED ON	QUAN.																
1	RC20GF153K		2	Resistor, Fixed, Composition				R25															
1	RC20GF154K		2	Resistor, Fixed, Composition				R30															
1	RC20GF181K		2	Resistor, Fixed, Composition				R22															
1	RC20GF182K		2	Resistor, Fixed, Composition				R47															
1	RC20GF183K		2	Resistor, Fixed, Composition				R23															
1	RC20GF184K		2	Resistor, Fixed, Composition				R27															
2	RC20GF223K		2	Resistor, Fixed, Composition				R3,R62															
1	RC20GF224K		2	Resistor, Fixed, Composition				R2															
1	RC20GF273K		2	Resistor, Fixed, Composition		A-3018-4	1	R44,															
1	RC20GF393J		2	Resistor, Fixed, Composition			1	R45															
2	RC20GF390K		2	Resistor, Fixed, Composition				R11,13															
2	RC20GF471K		2	Resistor, Fixed, Composition				R39,46															
1	RC20GF472K		2	Resistor, Fixed, Composition		A-3018-4	1	R43															
3	RC20GF473K		2	Resistor, Fixed, Composition				R8, ,28, R33															
1	RC20GF474K		2	Resistor, Fixed, Composition				R38															
2	RC20GF560K		2	Resistor, Fixed, Composition				R12,17															

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
1	RC20GF681K		2	Resistor, Fixed, Composition				R40
1	RC20GF683K		2	Resistor, Fixed, Composition				R37
1	RC20GF754J		2	Resistor, Fixed, Composition		A-3018-4	1	R42
1	RC20GF825K		2	Resistor, Fixed, Composition				R31
1	RC32GF683J			RES,FXD,COMP				R61
1	RC32GF562K		2	Resistor, Fixed, Composition				R7
1	RC32GF473J			Resistor, Fixed, Composition				R14
1	RC42GF103K		2	Resistor, Fixed, Composition				R6
1	RC42GF104K		2	Resistor, Fixed, Composition				R26
1	RC42GF181K		2	Resistor, Fixed, Composition				R41
1	RR-114-50W			Resistor, Fixed, Wire Wound				R1
1	RL-116-DC-2C-120		2	Relay				K1
1	RV4BTRD105A		2	Resistor, Variable, Composition	Modulator			R35 (c/o S5)
1	RV106UX10C105A		2	Resistor, Variable, Composition	Audio Adj.			R32
1	RW-109-34		/	Resistor, Fixed, Wirewound				R49
1	RW-109-37		/	Resistor, Fixed, Wirewound				R58
8	SM-110		1	Bushing, Coil Mtg.		TT-134	1	
						TT-135	2	
						TT-136	1	
						TT-137	3	
						TT-138	1	

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION	REF.	LOCATION		SYMBOLS															
						USED ON	QUAN.																
ELECTRICAL/MECHANICAL																							
3	SM-143-4		1	Bushing, Form Coil		TT-139	2																
						TT-140	1																
2	SP-103		1	Spring, Door, Xtal Oven		A-3020	1																
1	SW-285		2	Switch, Rotary, Emission				S3															
1	SW-286		2	Switch, Rotary, Xtal				S1															
1	SW-287		2	Switch, Rotary, Meter				S4															
	Switch, p/o R35			Switch, SPST				S5															
1	TF-170		1	Transformer, Audio				T3															
1	TF-233		2	Transformer, Modulation				T2															
1	TM-100-8		1	Terminal Strip, Barrier Type				E2															
1	TM-100-12		1	Terminal Strip, Barrier Type				E1															
1	TM-117-39		2	Terminal Strip, Barrier Type																			
2	TS-102-P01		1	Socket, Tube, 7 pin				XV2,3															
2	TS-102-U02		1	Shield, Tube				For V2,3															
3	TS-103-P01		2	Socket, Tube, 9 pin				XV1,4,5,															
3	TS-103-U03		2	Shield, Tube				For V1,4,5															
1	TS-106-1		1	Socket, Lamp, Red/Lens				XDS1															
1	TS-131MTW			Socket, Electron Tube, 9 pin				XV6															
1	TS-169			Retainer, Elec Shld		XV6 MTG.																	

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MAMARONECK, NEW YORK

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
1	TS-108-2		1	Socket, Lamp				XDS2
1	TS-128-6		1	Shield, Tube, Heat Dissipating				For V6
1	UG-625/U		1	Connector, Receptacle	RF Out.			J4
3	WS-101		1	Wafer, Switch		A-2216 A-2217 A-2218	1 1 1	S2A, S2B, S2C

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
				TUBES & DIODES				
3	1N100		-	Diode, Silicone		A-3018-4	1	CR5, CR6,7
2	6AW8A		-	Tube, Electron				V1,5
1	6BQ5		-	Tube, Electron				V6
1	6CL6		-	Tube, Electron				V4
2	6EW6		-	Tube, Electron				V2,3

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
1	BB-101		1	Bearing, Panel		MS-2560	1	
4	CU-139-2B		1	Ferrule, Handle		HA-102 Mtg.	2	
1	EY-102-1		1	Grommet, Elastic				
1	EY-102-3		1	Grommet, Elastic				
5	FS-102-1		1	Spring, "S" Type		MS-2612	1	
						MS-2616	4	
1	FS-103-2		1	Fastener, Wing Type		A-3020	1	
5	FS-109-3		1	Ring, Stud Retaining		A-3020	1	
5	FS-110-1		1	Stud, Slotted Head				
2	FW06HBN		1	Washer, Flat		RW-109 Mtg.	2	
1	FW08MRN		1	Washer, Flat		MS-2612 Mtg.	1	
2	LWE02MRN		1	Washer, Lock, External		TE-115 Mtg.	2	
50	LWE04MRN		1	Washer, Lock, External		CB-159 Mtg.	12	
						HI-101 Mtg.	3	
						JJ-212 Mtg.	2	
						MS-2623 Mtg.	12	
						TF-170 Mtg.	2	
						TE-102 Mtg.	9	
						TS-102 Mtg.	2	
						TS-103 Mtg.	6	
						TS-131 Mtg.	2	

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS															
						USED ON	QUAN.																
12	LWE06MRN		1	Washer, Lock, External		A-3018-4 Mtg.	2																
						MS-2618 Mtg.	3																
						RW-109 Mtg.	2																
						TF-223 Mtg.	4																
						TM-117 Mtg.	1																
15	LWE08MRN		1	Washer, Lock, External		MS-1325 Mtg.	4																
						MS-2560 Mtg.	6																
						MS-2612 Mtg.	5																
3	LWI25MRN		1	Washer, Lock, Internal		TT-139	2																
						TT-140	1																
20	LWS03MRN		1	Washer, Lock, Split		A-2219	1																
						CB21 Mtg.	9																
						FS-102 Mtg.	10																
50	LWS04MRN		1	Washer, Lock, Split		A-2216	2																
						A-2217	2																
						A-2218	2																
						A-2219	6																
						CV11 Mtg.	22																
						MS-2621 Mtg.	4																
						SW-285 Mtg.	2																
						SW-286 Mtg.	2																
						SW-287 Mtg.	2																
						TS-102 Mtg.	2																
						TS-103 Mtg.	4																
1	NT-101-4		1	Nut, Strap		TS-102 Mtg.	1																
1	NT-101-5		1	Nut, Strap		TS-103 Mtg.	1																
1	NT102			Nut, Pln, Hex		TT138	1																

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
4	NT129-440-3		2	Nut, Swage		MS2623	4	
34	NT-129-440-4		2	Nut, Swage		MS-2621	4	
						MS-2612	30	
13	NT-129-632-4		2	Nut, Swage		MS-2612	8	
						MS-2618	3	
						MS-2638	2	
3	NT-129-832-4		2	Nut, Swage		MS-2612	3	
2	NTH0256BN6		1	Nut, Hex.		TE-115 Mtg.	2	
10	NTH0348BN6		1	Nut, Hex.		FS-102 Mtg.	10	
29	NTH0440BN6		1	Nut, Hex.		A-2216	2	
						A-2217	2	
						A-2218	2	
						HI-101Mtg.	3	
						JJ-212 Mtg.	2	
						SW-285 Mtg.	2	
						SW-286 Mtg.	2	
						SW-287 Mtg.	2	
						TF-170 Mtg.	2	
						TS-102 Mtg.	2	
						TS-103 Mtg.	2	
						TS-131 Mtg.	2	
17	NTH0632BN8		1	Nut, Hex.		RW-109 Mtg.	1	
						TF-223 Mtg.	4	
						TM-117 Mtg.	1	
						TT-134	1	
						TT-135	2	
						TT-136	1	
						TT-137	3	
						TT-138	1	
						TT-139	2	
						TT-140	1	

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
18	NTH0832BN10		1	Nut, Hexagon		MS-2612 Mtg.	8	
						MS-1325 Mtg.	4	
						MS-2560 Mtg.	6	
						TT-134	1	
10	NTH2528BN14		1	Nut, Hex.		TT-135	2	
						TT-136	1	
						TT-137	3	
						TT-138	1	
						TT-139	2	
						TT-140	1	
10	SCBP0348BN3		1	Screw, Machine		A-2219	1	
9	SCBP0440BN4		1	Screw, Machine		CB21 Mtg.	9	
40	SCBP0440BN5		1	Screw, Machine		A-2219	6	
						CB159 Mtg.	12	
						MS-2621 Mtg.	4	
						MS-2623 Mtg.	12	
						TS-102 Mtg.	4	
						TS-103 Mtg.	8	
						HI-101 Mtg.	3	
7	SCBP0440BN6		1	Screw, Machine		JJ-212 Mtg.	2	
						TF-170 Mtg.	2	
						TM-100 Mtg.	4	
4	SCBP0440BN8		1	Screw, Machine		A-2216	2	
						A-2217	2	
10	SCBP0440BN10		1	Screw, Machine		A-2218	2	
						SW-286 Mtg.	2	
						SW-287 Mtg.	2	
						SW-285 Mtg.	2	
2	SCBP0440BN19		1	Screw, Machine		A-3018-4 Mtg.	2	
						MS-2618 Mtg.	3	
8	SCBP0632BN5		1	Screw, Machine		MS-2638 Mtg.	2	
						TM-117 Mtg.	1	

TE102-2 Mtg (3)

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
2	SCBP0632BN7		1	Screw, Machine		A-3020	2	
1	SCBP0632BN19		1	Screw, Machine		RW-109 Mtg.	1	
1	SCBP0632BN34		1	Screw, Machine		RW-109 Mtg.	1	
4	SCBP0832BN5		1	Screw, Machine		MS-1325 Mtg.	4	
12	SCBP0832BN8		1	Screw, Machine		MS-2560 Mtg.	6	
						MS-2612 Mtg.	4	
						MS-2616 Mtg.	2	
2	SCBP0832BN10		1	Screw, Machine		A-3020	2	
10	SCFP0348BN3		1	Screw, Machine		FS-102 Mtg.	10	
4	SCFP1032BN6		1	Screw, Machine		HA-102 Mtg.	4	
22	SCRPO440BN6		1	Screw, Machine		CV11 Mtg.	22	
7	SFP0256SN3		1	Screw, Self-Threading		A-3020	4	
						TT-139	2	
						TT-140	1	
9	TE-102-2		1	Terminal, Turret		A-2219	6	(2) L26 Mtg
8	TE-104-5		1	Terminal, Locking		TT-134	1	
						TT-135	2	
						TT-136	1	
						TT-137	3	
						TT-138	1	
2	TE-108-13		1	Standoff, Rivet Type		A-3018-3	2	
26	TE-109-3		1	Terminal, Lug		A-3018-3	26	
2	TE-115-1		1	Terminal, Turret, Midget		A-2216	1	
2	TE-117-7		2	Spacer, Standoff		A-2217	1	
6	TE-117-21		2	Spacer, Standoff		A-3020	2	
						A-2216	2	
						A-2217	2	
						A-2218	2	

MATERIAL LIST				REV	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	MODEL	AX615		
				S																SHEET	16	OF	22
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS															
						USED ON	QUAN.																
2	TE-149-120		1	Lug, Solder		A-2219	2																
8	TE-153-2		1	Terminal, Ring Type		TT-134	1																
						TT-135	2																
						TT-136	1																
						TT-137	3																
						TT-138	1																
3	TE-153-3		1	Terminal, Ring Type		TT-139	2																
						TT-140	1																
2	TE-156-32953			Terminal, Lug		CA-628	2																
8	TE-170-3		1	Terminal, Collar		TT-134	1																
						TT-135	2																
						TT-136	1																
						TT-137	3																
						TT-138	1																
4	WA-102-4		1	Washer, Fiber, Shoulder		RW-109 Mtg.	4																
80	WA-109-17		1	Washer, Fiber, Flat		A-2216	8																
						A-2217	8																
						A-2218	8																
						CV11 Mtg.	44																
						SW-285 Mtg.	4																
						SW-286 Mtg.	4																
						SW-287 Mtg.	4																

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MODEL AX615

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION RAW MATERIALS	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
X	BS-100		1	Solder, Soft				
0-75	CD-101-1-MW		1	Cord, Lacing		CA-628	75"	
X	GL-102		1	Lacquer, Q-Max		TT-134 TT-135 TT-136 TT-137 TT-138		
	GL-104-2		1	Insulex, U-85		All Coils		
53"	MWC20(7)U1		2	Cable, Insulated	Brown	CA-628	53"	
8"	MWC20(7)U8		2	Cable, Insulated	Gray	CA-628	8"	
6"	MWC20(7)U91		2	Cable, Insulated	Wh/Brown	CA-628	6"	
19"	MWC22(7)SJ1		2	Cable, Insulated, Shielded W/Jacket	Brown	CA-628	19"	
32"	MWC22(7)SJ2		2	Cable, Insulated, Shielded W/Jacket	Red	CA-628	32"	
15"	MWC22(7)SJ3		2	Cable, Insulated, Shielded W/Jacket	Orange	CA-628	15"	
26"	MWC22(7)SJ4		2	Cable, Insulated, Shielded W/Jacket	Yellow	CA-628	26"	
27"	MWC22(7)SJ5		2	Cable, Insulated, Shielded W/Jacket	Green	CA-628	27"	
18"	MWC22(7)SJ6		2	Cable, Insulated, Shielded W/Jacket	Blue	CA-628	18"	
12"	MWC22(7)SJ8		2	Cable, Insulated, Shielded W/Jacket	Gray	CA-628	12"	
40"	MWC22(7)SJ9		2	Cable, Insulated, Shielded W/Jacket	White	CA-628	40"	
35"	MWC22(7)U0		2	Cable, Insulated	Black	CA-628	35"	
30"	MWC22(7)U2		2	Cable, Insulated	Red	CA-628	30"	
6"	MWC22(7)U3		2	Cable, Insulated	Orange	CA-628	6"	
18"	MWC22(7)U4		2	Cable, Insulated	Yellow	CA-628	18"	

MATERIAL LIST				REV	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	MODEL	AX615		
				5																SHEET	18	OF	22
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION	REF.	LOCATION		SYMBOLS															
						USED ON	QUAN.																
RAW MATERIALS																							
14"	MWC22(7)U5		2	Cable, Insulated	Green	CA-628	14"																
8"	MWC22(7)U6		2	Cable, Insulated	Blue	CA-628	8"																
29"	MWC22(7)U7		2	Cable, Insulated	Violet	CA-628	29"																
5"	MWC22(7)U90		2	Cable, Insulated	Wh/Black	CA-628	5"																
6"	MWC22(7)U92		2	Cable, Insulated	Wh/Red	CA-628	6"																
15"	MWC22(7)U93		2	Cable, Insulated	Wh/Orange	CA-628	15"																
17"	MWC22(7)U94		2	Cable, Insulated	Wh/Yellow	CA-628	17"																
5"	MWC22(7)U95		2	Cable, Insulated	Wh/Green	CA-628	5"																
22"	MWC22(7)U96		2	Cable, Insulated	Wh/Blue	CA-628	22"																
15"	MWC22(7)U98		2	Cable, Insulated	Wh/Gray	CA-628	15"																
36"	MWC22(7)UPink		2	Cable, Insulated	Pink	CA-628	36"																
	PX-104-1-.034		1	Sleeving, Size 20	Black	A-2216 A-2217 A-2218 A-3018-4 Wiring	3" 2" 1" 7"																
	PX-104-2-.034		1	Sleeving, Size 20	Yellow	A-2216 A-2217 A-2218 Wiring	3" 5" 4"																
	PX-104-3-.034		1	Sleeving, Size 20	Red	A-2218 A-3018-4 Wiring	2" 2"																
	PX-104-4-.034		1	Sleeving, Size 20	Green	A-2216 A-2217 A-2218 Wiring	6" 8" 9"																
	PX-104-4-.053		1	Sleeving, Size 16	Green	A-2216 A-2217 A-2218 Wiring	2" 2" 3"																
	PX-104-6-.034		1	Sleeving, Size 20	Blue	A-2216 A-2217 A-2218 Wiring	2" 2" 2"																

MATERIAL LIST

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MODEL AX615

SHEET 19 OF 22

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION RAW MATERIALS	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
0-23	RG-188/U		1	Cable, Coaxial	Black	CA-628	23 ^{1/2}	
0-90	WI-104-541-DSQS		1	Wire, Litz		TT-134	45 ^{3/4}	
						TT-138	45 ^{3/4}	
0-42	WI-107-5		1	Wire, Magnet, #24		TT-135	28 ^{1/2}	
						TT-136	14 ^{1/2}	
0-60	WI-107-15		1	Wire, Magnet, #34		TT-137	66 ^{1/2}	
0-32	WL-100-4		1	Wire, Buss, #16		A-2216	3 ^{1/2}	
						A-2217	2 ^{1/2}	
						A-2218	3 ^{1/2}	
						TT-139	16 ^{1/2}	
						TT-140	8 ^{1/2}	
	WL-100-7		1	Wire, Buss, #22		A-2216	19 ^{1/2}	
						A-2217	21 ^{1/2}	
						A-2218	26 ^{1/2}	
						A-3018-4	20 ^{1/2}	
						TT-134	1 ^{1/2}	
						TT-135	2 ^{1/2}	
						TT-136	1 ^{1/2}	
						TT-137	1 ^{1/2}	
						TT-138	1 ^{1/2}	
						TT-139	2 ^{1/2}	
						TT-140	4 ^{1/2}	
						Wiring		

MATERIAL LIST

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MODEL AX615

SHEET 20 OF 22

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION SUPPORTING DRAWINGS	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
1	A-2216		2	Switch Assembly, 1st. R.F.				
1	A-2217		2	Switch Assembly, 2nd. R.F.				
1	A-2218		2	Switch Assembly, 3rd. R.F.				
1	A-2219		2	Shield Assembly, R.F.				
1	A-3018-4		4	Final Assembly, Terminal Board #1				TB1
1	A-3020		4	Door Assembly, Xtal Oven				
1	CA-628		8	Cable, Main				
1	ED-916		8	Engraving, Front Panel	MS-2560			
1	LD-951		8	Lettering, Chassis, Main	MS-2612			
1	LD-952		1	Lettering, Shield, R.F. Switch	MS-2621	A-2216	1	
1	LD-953		1	Lettering, Shield, R.F. Cap., Mtg.	MS-2618	A-2219	1	
1	LD-962		1	Lettering, Bracket, Switch	MS-2638	A-2218	1	
1	LD-971		1	Lettering, Shield, R.F. Switch	MS-2621	A-2217	1	
1	TT-134 (2A-3021)		†	Transformer, R.F., 2-4 MC				T11
2	TT-135 (2A-3032)		†	Transformer, R.F., 8-16 MC				T5,9
1	TT-136 (2A-3033)		†	Transformer, R.F., 8-16 MC				T13

MATERIAL LIST

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MODEL AX615

SHEET 21 OF

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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION SUPPORTING DRAWINGS	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
3	TT-137 (2A-3031)		1	Transformer, R.F., 4-8 MC				T4,8,12
1	TT-138 (2A-2100)		1	Transformer, R.F., 2-4 MC				T7
2	TT-139 (2A-3022)		1	Transformer, R.F., 16-32 MC				T6,10
1	TT-140 (2A-2110)		1	Transformer, R.F., 16-32 MC				T14

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SHEET 22 OF 22

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION SPECIFICATIONS	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
	S-114		1	Zinc Chromate Primer		MS-2560		
	S-115		1	Smooth Gray Enamel		MS-2560 TF-233		
	S-404		1	Yellow Iridite		All Metal Work		

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

AX615

MODEL GPE-1/Main

PROJECT NO. _____

DATE	REV.	PAGE	EMN #	DESCRIPTION	CHK.	APP.
2/6/62	A	7	6341	Change RL-116-DC-2C-115 to RL-116-DC-2C-120, Symbol K1.		16
4/2/62	B	8	6581	Chg. TF-223 to TF-233 (Sym. T2)		16
		1		On CB21PD102J, Chg. Quan. from 11 to 12, add Sym. C89.		
		2		On CE-107-2, Chg. Quan. from 1 to 2, Add Sym. C80.		
				On CK70A202M, Chg. Quan. from 13 to 14, add Sym. C81.		
		10		On CL-240-120, Chg. Quan. from 22 to 23, add Sym. L25.		
				On 1N100, Chg. Quan. from 2 to 3, add Sym. CR7.		
7/25/62	C	4	6987	On JJ-212, add Sym J5		
				Chg. MC-112 to MC-111		
		7		On RV4BTRD105A, Sym R35, add (c/o S5)		
		8		Add switch, p/o R35, Sym S5		
				On TM-117-39, Dele. Sym. E3		
		9		Chg. UG-625/U Sym from J3 to J4		
9/5/62	D	15	7195	Dele. 2 ea. TE-120-2		16
		16		Add 2 ea. TE-156-32953		
2/13/63	E	1	8293	On CB21PD102J, Add U/O Ref., A-2219 to C89		
		2		On CK70A202M, Add U/O Ref. A-2219		
		12		Clarify U/O Ref. on LWS03MRN		16
		14		Chg. SCBP0440BN3 to BN4, Chg. Quan. from 18 to 6,		
				Chg. U/O Ref. from TE-102 Mtg. to A-2219		
				Chg. SCBP0440BN5 Quan. from 46 to 40, Dele. A-2219 U/O Ref.		
				On SCBP0348BN3, Clarify U/O Ref.		
6-18-63	F	1	9310	Sheet 1. Chgd per EMN		16
1/8/64	G	6,7	10747	Revised Sheets 6 & 7 per EMN. (R CHG)		16
1/21/64	H	7	10799	Revised Sheet 7 per EMN. (R)		16
6/4/64	J	-----	11267	Revised shts. 2,8,11,12,13,14,15 per EMN		16
12/2/64	K	3	13000	Revised sheet 3 per EMN		16
9/2/65	L	3	14685	Revised per EMN		16
11/15/65	M	all	15213	Revised per EMN		16
2/11/66	N	-----	15741	Revised shts. 1,3,6,7 per EMN		16
3/21/66	P	-----	15971	Revised shts. 5,13,19 per EMN		16
10/3/66	R	-----	16963	Sheets 11, 12, 13, and 14 revised per EMN		16
11/10/67	S	-----	18612	Sheets 1 & 3 revised per EMN		16