

BILL OF MATERIAL		MODEL LFA				PROJ. NO. 109				LIST NO. M-1183	
		ISSUE A B C D								SHEET 1 OF 13 SHEETS	
PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS					
CM20A102K	10	Capacitor, Fixed	1000 uuf	1.	C-103-4-5-7-8-10-16-18-20-21						
CM20C150J	2	Capacitor, Fixed	15 uuf	2.	C-112 C114						
CM20C510J	2	Capacitor, Fixed	51 uuf	3.	C102 C113						
CM20C221J	1	Capacitor, Fixed	220 uuf	4.	C106						
CM35A103K	10	Capacitor, Fixed	10,000 uuf	5.	C109-11-15-17-19-22-23-24-28 -29						
CN-100-3	1	Capacitor, Fixed	.05 uf	6.	C101						
CP40G2FF405K	3	Capacitor, Fixed	4 uf	7.	C125 C126 C127						
RC20GF101K	2	Resistor, Fixed	100 Ω	8.	R101 R114						
RC20GF102K	1	Resistor, Fixed	1K	9.	R120						
RC20GF103K	2	Resistor, Fixed	10K	10.	R116 R119						
RC20GF104K	7	Resistor, Fixed	100K	11.	R105-13-15-24-25-31-32						
RC20GF222K	2	Resistor, Fixed	2.2K	12.	R122 R118						
RC20GF224K	1	Resistor, Fixed	220K	13.	R102						
RC20GF272K	2	Resistor, Fixed	2.7K	14.	R106 R108						
RC20GF303K	1	Resistor, Fixed	30K	15.	R134						
RC20GF471K	1	Resistor, Fixed	470 Ω	16.	R126						
RC20GF472K	4	Resistor, Fixed	4.7K	17.	R-121-23-29-30						
RC20GF473K	2	Resistor, Fixed	47K	18.	R107 R109						
RC20GF682K	2	Resistor, Fixed	6.8K	19.	R127 R128						
RC42GF120K	1	Resistor, Fixed	12 Ω	20.	R138						

MAMARONECK, NEW YORK
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THE TECHNICAL MATERIEL

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BILL OF MATERIAL		MODEL IFA				PROJ. NO. 109				LIST NO. ML-A183	
		ISSUE	A	B	C	D					SHEET 2 OF 13 SHEETS
MAMARONECK, NEW YORK	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS			
		RC42CF273K		1	Resistor, Fixed	27K		21.	R117		
	RV4ATFE152A		1	Resistor, Variable	1.5K		22.	R112			
	RV4ATSA152A		1	Resistor, Variable	1.5K		23.	R111			
	RW-107-20		1	Resistor, Fixed	150 Ω		24.	R133			
	RW-108		1	Resistor, Fixed	24D 100 Ω		25.	R110			
	RW-109-28		2	Resistor, Fixed	2K		26.	R135, (R137 Modified see A-238)			
	RW-109-47		1	Resistor, Fixed	4.5K		27.	R136			
	CL-100-5		2	Choke, RF			28.	L104 L105			
	CL-104-2		2	Choke, RF			29.	L102 L103			
	TF-105	D	1	Transformer, filament & power			30.	T101			
	TF-5001	A	2	Filter Reactor			31.	L106 L107			
	TR-019	A	1	Transformer, RF			32.	T102			
	IN-34		1	Crystal Unit: Germanium			33.	CR101			
	6AQ5		2	Tube, Electron			34.	V105 V106			
	6C4		2	Tube, Electron			35.	V101 V103			
	12AT7		1	Tube, Electron			36.	V104			
	0A2		1	Tube, Electron			37.	V108			
	6BE6		1	Tube, Electron			38.	V102			
	5V4G		1	Tube, Electron			39.	V107			
	ST-12-A		1	Switch, Toggle			40.	S103			
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BILL OF MATERIAL		MODEL IFA		PROJ. NO. 109		LIST NO. ML-A183	
		ISSUE CD				SHEET 3 OF 13 SHEETS	
PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION			REMARKS	
	ST-22-K		1	Switch, Toggle	41.	S104	
SW-105	A	1	Switch, Rotary; single section	42.	S101		
SS-100-2		1	Switch, Sensitive; 70°C	43.	S102		
UG 260/U		2	Plug (Supplied loose item)	44.			
UG 625/U		3	Receptacle	45.	J-101-2-3		
JJ-100		1	Receptacle, Male Twist Lock	46.	J104		
CF-104		1	Coil Form, Slug Tuned	47.			
RR-102-1		2	Resistor, fixed; cartridge type heater	48.	R103 R104		
BI-101-44		1	Lamp, Incandescent	49.	I102		
BI-100-51		1	Lamp, Neon	50.	I101		
CU-100-5		1	Holder, Tube	51.			
FH-100-2		3	Holder, fuse; for single 3AG type	52.	XF-101-2-3		
FP-109		3	Clamp, Xtal	53.			
FU-100-3		3	Fuse, 3 amp	54.	F101		
MP-100-4	D	2	Knob, Instrument Type	55.			
TS-101-P01		1	Socket, Octal (USE CINCH 51313405)	56.	XV107		
TS-102-P01		6	Socket, Miniature 7 pin	57.	XV101-2-3-5-6-8		
TS 102 U02		3	Shield	58.			
TS 102 U03		3	Shield	59.			
TS 103 P01		1	Socket, Miniature 9 pin	60.	XV104		
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BILL OF MATERIAL		MODEL LFA				PROJ. NO. 109				LIST NO. ML-A183	
		ISSUE C D								SHEET 4 OF 13 SHEETS	
PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS				
			TS 103 U02		1	Shield				61.	
TS 104-1		3	Socket, Xtal				62.	XY104-5-6			
TS 105-1		3	Socket, Xtal				63.	XY101-2-3			
TS 106-1		1	Socket, Lens (Red)				64.	XI101			
TS 106-2		1	Socket, Lens (White)				65.	XI102			
MR-100-1	J	1	Meter, Panel				66.	M101			
TE-100-3		3	Terminal, Lug				67.				
TE-102-2		29	Terminal, Turret				68.				
TE-104-1		6	Terminal, Locking				69.				
TE-104-2		2	Terminal, Locking				70.				
TE-104-3		3	Terminal, Locking				71.				
TE-104-4		1	Terminal, Locking				72.				
TE-105-4		10	Terminal Lug				73.				
TE-108-8		2	Stand Off				74.				
TE-111-2		3	Terminal				75.				
FS-100		11	Spring Unit				76.				
FS-102-1		13	Spring, Type S				77.	USED FOR: (1)A-179, (4)A-180, (4)A-181, (2)A-178			
FS-103		2	Fastener, Wing Type				78.				
FS-104		2	Grommet, Type 6H				79.				
FS-105-1		1	Stud				80.				

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THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK

BILL OF MATERIAL		MODEL	LFA				PROJ. NO.	109				LIST NO.	ML-A183	
		ISSUE	C	D								SHEET	5	OF
PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION										REMARKS		
FS-109-4		Stud												
FS-109-3	11	Ring, Stud Retaining										(4)A-224, (7)A-225		
FS-110-1	11	Stud										(4)A-224, (7)A-225		
CA-103	1	Cord Set												
RG 58A/U	3' - "	6" Cable, RF										p/o CA-125-126 & 127		
SRIR1(7)20U22	9' - "	7 1/4" Cable, Insulated												
SRIR1(7)20U33	5' - "	3 3/8" Cable, Insulated												
SRIR1(7)20U44	2' - "	9 3/4" Cable, Insulated												
SRIR1(7)20U55	9' - "	7 1/4" Cable, Insulated												
SRIR1(7)20U66	1' - "	4" Cable, Insulated												
SRIR1(7)20U77	3' - "	10 3/4" Cable, Insulated												
SRIR1(7)20U88	3' - "	9 1/2" Cable, Insulated												
SRIR1(7)20U99	2' - "	6 3/4" Cable, Insulated												
SRIR3/5(7)22U11	8' - "	7 3/8" Cable, Insulated												
SRIR3/5(7)22U99	0' - "	6" Cable, Insulated												
WI-100-7	6' - "	10 1/2" Wire, Buss Bar												
WI-102-7	X	Wire, #26 CEC												
WI-107-13	X	Wire, #32 DSC												
WI-108-10	X	Wire, #25												
CD-100-10	X	Cord Lacing, Nylon												

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BILL OF MATERIAL		MODEL LFA				PROJ. NO. 109				LIST NO. ML-A183	
		ISSUE C D								SHEET 6 OF 13 SHEETS	
MAMARONECK, NEW YORK	THE TECHNICAL MATERIEL CORPORATION	PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS			
		PX-104-1-.034	0' -	4 1/2" Insulation, Sleeving				101.			
PX-104-2-.034	0' -	6" Insulation, Sleeving				102.					
PX-104-3-.034	0' -	2 1/4" Insulation, Sleeving				103.					
PX-104-4-.034	1' -	1 1/8" Insulation, Sleeving				104.					
PX-104-5-.034	0' -	3 1/4" Insulation, Sleeving				105.					
PX-104-6-.034	1' -	5 1/4" Insulation, Sleeving				106.					
PX-104-5-.038	0' -	2" Insulation, Sleeving				107.					
PX-104-5-.234	0' -	3" Insulation, Sleeving				108.					
PX-104-5-.375	0' -	3" Insulation, Sleeving				109.					
AN 3C-5A	4	Bolt, Machine				110.					
AN 526-832-10	2	Screw, Machine (Truss Head)				111.					
SC-102-1	4	Screw, Thread Cutting				112.					
SC-102-2	4	Screw, Thread Cutting				113.					
SC-107-1	2	Bolt, Spade				114.					
SCBS044OBC3	31	Screw, Machine				115.					
SCBS044OBC4	4	Screw, Machine				116.					
SCBS044OBN4	18	Screw, Machine				117.					
SCBS044OBN6	3	Screw, Machine				118.					
SCBS044OBN10	6	Screw, Machine				119.					
SCBS044OBN24	1	Screw, Machine				120.					
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BILL OF MATERIAL		MODEL LFA				PROJ. NO. 109				LIST NO. ML-A183	
		ISSUE C D								SHEET 7 OF 13 SHEETS	
PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS					
SCFS0440BC4	4	Screw, Machine				121.					
SCFS0440BC5	2	Screw, Machine				122.					
SCRS0440BN4	14	Screw, Machine				123.					
SCBS0632BC6	5	Screw, Machine				124.					
SCBS0632BC36	3	Screw, Machine				125.					
SCBS0632BN4	3	Screw, Machine				126.					
SCBS0632BN6	4	Screw, Machine				127.					
SCBS0632BN16	1	Screw, Machine				128.					
SCFP0348BN5	26	Screw, Machine				128.1					
SCFS0632BC8	6	Screw, Machine				129.					
SCFS0632BN4	1	Screw, Machine				130.					
SCBS0832BC6	24	Screw, Machine				131.					
SCBS0832BC7	2	Screw, Machine				132.					
SCBS0832BN4	4	Screw, Machine				133.					
SCFS0832BC8	5	Screw, Machine				134.					
SCBS1032BC6	4	Screw, Machine				135.					
SCFS1032BC8	2	Screw, Machine				136.					
LWE06MRC	1	Lockwasher, Ext. Tooth				137.					
LWI37LSC	2	Lockwasher, Int. Tooth				138.					
LWI50IRC	2	Lockwasher, Int. Tooth				139.					
LWS03MRN	26	Lockwasher, Split				139.1					
LWS04MRC	74	Lockwasher, Split				140.					
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(26) FS-102 mtg.

(26) FS-102 mtg.

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		ISSUE	C D					SHEET 8 OF 13 SHEETS	
MAMARONECK, NEW YORK	PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS		
		LWS06MRC	25	Lockwasher, Split			141.		
	LWS08MRC	31	Lockwasher, Split			142.			
	LWS08MSC	4	Lockwasher, Split			143.			
	LWS10MRC	6	Lockwasher, Split			144.			
	LWS10MSC	4	Lockwasher, Split			145.			
	LWS37MSC	1	Lockwasher, Split			146.			
	WA-100	2	Ring, Locking			147.			
	WA-101-1	8	Washer, Fiber			148.			
	WA-101-3	6	Washer, Fiber			149.			
	WA-101-4	2	Washer, Fiber			150.			
	WA-106-1	2	Washer, Asbestos			151.			
	WA-109-17	18	Washer, Fiber			152.	(18)A143		
	NT-101-1	6	Nut, Strap			153.			
	NT-101-5	1	Nut, Strap			153.1			
	NTH0348BN6	26	Nut, Hexagon			154.	(26)FS-102-MT9		
	NTH044OBC6	6	Nut, Hex			155.			
	NTH044OBC8	9	Nut, Hex			156.			
	NTH0632BC8	16	Nut, Hex			157.			
	NTH0632BC10	9	Nut, Hex			158.			
	NTH0832BC10	27	Nut, Hex			159.			
	NTH1032BC8	2	Nut, Hex			160.			
	NTH3732BN16	3	Nut, Hex						

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BILL OF MATERIAL			MODEL LFA				PROJ. NO. 109				LIST NO. ML-A183	
			ISSUE A C D								SHEET 9 OF 13 SHEETS	
PART NO	DWG NO REV	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS					
			Mixer, Solid C'Sunk 1008				162.					
EY-100-1		2	Eyelet				162.					
EY-101-1		6	Eyelet, Rolled Flange				163.					
MS-121		1	Bracket, Angle				164.					
HA-101		2	Handle, Front				165.					
MS-127		1	Chassis, Main (No Drawing)				166. See A-178					
MS-128		1	Chassis, Power Supply (No Drawing)				167. See A-179					
MS-129		1	Side, Left (No Drawing)				168. See A-181					
MS-130		1	Side, Right (No Drawing)				169. See A-180					
MS-131		1	Center Bracket				170.					
MS-132	C	1	Ground Strap				171.					
MS-133	A	1	Panel, Front				172.					
MS-136	A	2	Bracket, Xtal Oven				173.					
MS-137		1	Oven Cover, Front Panel				174.					
MS-138	A	1	Plate, Xtal Oven Door				175.					
MS-139		1	Cover, Xtal Oven (No Drawing)				176. See A-195					
MS-140		1	Shell, Xtal Oven (No Drawing)				177. See A-196					
FP-108-1		1	Can				178.					
MS-156		1	Bracket, Resistor				179.					
MS-162		2	Bracket, Cover (No Drawing)				180.					
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BILL OF MATERIAL		MODEL LFA		PROJ. NO. 109		LIST NO. ML-A183	
		ISSUE CID				SHEET 10 OF 13 SHEETS	
PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION		REMARKS	C/R No.	
MS-173		1	Bottom Cover (No Drawing)	181.	See A-225		
MS-174		1	Top Cover (No Drawing)	182.	See A-224		
MS-175		1	Rear Angle Bracket	183.			
ANS931-3-5		1	Grommet, Elastic	184.			
ANS931-3-10		1	Grommet, Elastic	185.			
NP-103-13		1	Plate, Name	186.			
NP-134		1	NAME PLATE, PATENT	186.1		A2	
NP-105		1	Freq. Nameplate	187.			
TA-100-4		9 ^m	Tape, Vinyl Plastic	188.			
PX-107	B	1	Board, Term. Xtal Oven	189.			
PX-108	A	1	Board, Term. Element	190.			
PX-109		1	Board, Term.	191.			
PM-117		2	Bushing	192.			
SP-103		2	Spring, Xtal Oven Door	193.			
IM-100	B	1	Insulation, Xtal Oven Door	194.			
IM-101		1	Insulation, Xtal Oven Bottom	195.			
IM-102		1	Insulation, Xtal Oven Top	196.			
IM-103	A	1	Insulation, Xtal Oven L. Side	197.			
IM-104	A	1	Insulation, Xtal Oven R. Side	198.			
IM-105		1	Insulation, Xtal Oven Rear	199.			
IM-106	A	1	Top Shim, Xtal Oven	200.			

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BILL OF MATERIAL

MODEL LFA

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LIST NO. ML-A183
SHEET 11 OF 13 SHEETS

ISSUE C D

PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS
BS-100	X	Solder, Soft 201.	
GL-100	X	Potting Compound 202.	
GL-104-2	X	Insulex 203.	
GL-105	X	Glyptal 204.	

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BILL OF MATERIAL

MODEL LFA

PROJ. NO. 109

LIST NO. ML-A183

ISSUE C.D.

SHEET 12 OF 13 SHEETS

PART NO	DWG NO REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS
SUPPORTING DRAWINGS				
A-138			Door, Xtal Oven 205.	
A-143	A		Xtal Oven Core, Sub Assembly 206.	
A-144			Board, Terminal Xtal Oven, Sub Assembly 207.	
A-146			Board, Terminal Element Sub Assembly 208.	
A-147			Xtal Oven Assembly 209.	
A-163	C		Can Assembly 210.	
A-178	D		Chassis, Main Sub Assembly 211.	
A-179	A		Chassis, P.S. Sub Assembly 212.	
A-180			Side, Right Sub Assembly 213.	
A-181	A		Side, Left Sub Assembly 214.	
A-182	B		Front Panel Assembly 215.	
A-183	A		Main Assembly 216.	
A-184	B		Chassis, Main Comp. Sub Assembly 217.	
A-195	A		Cover, Xtal Oven Sub Assembly 218.	
A-196	A		Shell, Xtal Oven Sub Assembly 219.	
A-200			Chassis, Main Wire & Cable Sub Assembly 220.	
A-201	B		Chassis, Main Mech. Sub Assembly 221.	
A-202	A		Chassis, Power Supply Sub Assembly 222.	
A-203	A		Filter Assembly 223.	

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BILL OF MATERIAL			MODEL	PROJ. NO.				LIST NO.
			LFA	109				ML-1183
			ISSUE	A	C	D		SHEET 13 OF 13 SHEETS
PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION					REMARKS
A-204			Coil, RF, Assembly					224.
A-208	A		Terminal Board Assembly					225.
A-224			Top Cover Assembly					226.
A-225			Bottom Cover Assembly					227.
A-238	A		Resistor, Fixed Assembly					228.
CA-129	A		Cable Harness, Sub Assembly					229.
CK-117	C		Schematic Diagram					230.
CS-107	A		Casting, Xtal Oven					231. For PM-118
ID-114			Letter Diagram (Chassis, P.S.)					232.
ID-115	B		Letter Diagram (Chassis, Main)					233.
ID-121	A		Engraving Drawing (Front Panel)					234.
CH-107			Addendum of Schematic Diagram					234.1
			SPECIFICATIONS					
S-101			Caustic Dip					235.
S-105			Cadmium Plate					236.
S-113			Fungus Resistant Varnish					237.
S-114			Zinc Chromate Primer					238.
S-115			Smooth Grey Enamel					239.
S-135			Nickel Plate					240.
S-139			Test					241.
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