

OSCILLATOR SECTION

PURCHASED ITEM	MATERIAL LIST				MODEL	PROJ. NO.				LIST NO.
	QUANTITY REQ.	P N L	PART NO.	REV	AO-102					NPL-AO-102
					ISSUE	A	B	C	D	E
DWG SIZE	DESCRIPTION	REF	SYMBOLS							
					<u>ELECTRICAL COMPONENTS AND MECHANICAL PARTS</u>					
P	10		CC-100-29		2	Capacitor, Fixed, Ceramic, Disc, .001 uf				Cl33,134,136,209,210 211,212,215,216,218
P	3		CC21SL080K		2	Capacitor, Fixed, Ceramic 8 uuf				Cl37,138,219
P	1		CC21SL150J		2	Capacitor, Fixed, Ceramic, 15 uuf				C214
P	3		CC21SL470G		2	Capacitor, Fixed, Ceramic, 47 uuf				Cl39,217,220
P	11		CF-110-N-1		1	Coil Form				Used on A-11445's
P	1		CI-114		1	Core, Powdered Iron				Used on CI-177
P	2		CI-115		1	Core, Toroidal				1 Used on TF-173 1 Used on TF-183
P	11		CI-116-5		2	Core, Tuning, Red				Used on A-11445's
P	3		CK70A102M		2	Capacitor, Fixed, Ceramic, Feedthru, .001 uf				C213,221,246
P	1		CL-100-5		1	Coil, RF, Fixed, 750 uhy				L127
P	1		CL-101-4		1	Coil, RF, Fixed, 10 mhy				L115

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	QUANTITY REQ.	N P L	PART NO.	REV	DWG SIZE	DESCRIPTION								REF	SYMBOLS
						ISSUE	A	B	C	D	E	F	G		
						<u>ELECTRICAL COMPONENTS AND MECHANICAL PARTS</u>									
P	1		CM15C131J		2	Capacitor, Fixed, Mica, 130 uufd.							C242 (Used on A-1445-5)		
P	1		CM15D221J		2	Capacitor, Fixed, Mica 220uufd							C241 (Used on A-1445-4)		
P	1		CM15C240J		2	Capacitor, Fixed, Mica, 24 uufd							C245 (Used on A-1445-9)		
P	1		CM15C470J		2	Capacitor, Fixed, Mica, 47 uufd							C244 (Used on A-1445-8)		
P	1		CM15C510J		2	Capacitor, Fixed, Mica, 51 uufd							C256 (Used on A-1445-7)		
P	1		CM15C820J		2	Capacitor, Fixed, Mica, 82 uufd							C243 (Used on A-1445-6)		
P	1		CN-113-1		1	Capacitor, Fixed, Paper, .05 uf							C222(Used on A-1520)		
P	1		CR27A/U-8.000000MC		2	Crystal, 8 MC							Y101		
P	1		CR27A/U-10.000000MC		2	Crystal, 10 MC							Y102		
P	1		CR27A/U-11.000000MC		2	Crystal, 11 MC							Y106		
P	1		CR27A/U-12.000000MC		2	Crystal, 12 MC							Y103		
P	1		CR27A/U-13.000000MC		2	Crystal, 13 MC							Y107		
P	1		CR27A/U-14.000000MC		2	Crystal, 14 MC							Y104		
P	1		CR27A/U-17.000000MC		2	Crystal, 17 MC							Y108		
P	1		CR27A/U-18.000000MC		2	Crystal, 18 MC							Y105		
P	18		CV-101-1		1	Capacitor, Variable, Glass, 1-8 uuf							C223, 224, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239 240, 225		

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MATERIAL LIST

MODEL AO-102

PROJ. NO.

LIST NO. NPL-AO-102

ISSUE A B C D E F G H

SHEET 3 OF 13 SHEETS

PURCHASED ITEM	QUANTITY REQ.	P N L	PART NO.	REV	DWG SIZE	DESCRIPTION	REF	SYMBOLS
<u>ELECTRICAL COMPONENTS AND MECHANICAL PARTS</u>								
P	1		IM-173		2	Insulator, Rear, Xtal Oven		
P	1		IM-174		2	Insulator, Front, Xtal Oven		
P	1		IM-175		2	Insulator, Left Side, Xtal Oven		
P	1		IM-176		1	Insulator, Right Side, Xtal Oven		
P	2		IM-177		1	Insulator, Top & Bottom, Xtal Oven		
	1		IM-179-10		1	Insulator, Heater Term. BD.		
P	4		JJ-154		1	Connector, Receptacle, Minature, RF		J105,106,107,108
	1		MS-1102		1	Shield, 2-4 MC Oscillator		
	1		MS-1105	A	2	Chassis, Xtal, Top		For XY111 to XY120
	1		MS-1106	A	2	Cover, Top, Xtal Oven	LD-371	
	1		MS-1107	C	2	Cover, Bottom, Xtal Oven	LD-370	
	1		MS-1108		4	Cover, Xtal Oven Outer Shell		
	1		MS-1109	B	4	Cover, Xtal Oven Inner Shell		
	1		MS-1110	A	4	Inner Shell, Top, Xtal Oven	LD-365-1	
	1		MS-1111	A	8	Outer Shell, Xtal Oven		
	1		MS-1112	B	8	Chassis, Xtal Oscillator	LD-366	
	1		MS-1113	A	2	Chassis, Xtal, Bottom		For Y101 to Y108
	1		MS-1139		4	Inner Shell, Bottom, Xtal Oven	LD-365-2	
P	2		NS5W0104		2	Insulator, Round, 3/8 D., 1/2 Long		For Mtg. TF-173 & 183

OSCILLATOR SECTION

PURCHASED ITEM	MATERIAL LIST			MODEL	PROJ. NO.								LIST NO.	SHEETS			
	QUANTITY REQ.	N P L	PART NO.	REV	DWG SIZE	DESCRIPTION								REF	SYMBOLS		
						ISSUE	A	B	C	D	E	F	G		H		
						<u>ELECTRICAL COMPONENTS AND MECHANICAL PARTS</u>											
P	1		PL-154		1	Connector, Plug, Miniature, RF									F104 (Used on CA-350-5.50)		
	1		PM-456		2	Block, Oven Heater											
P	1		PX-382		1	Board, Terminal, Heater									(Used on A-1520)		
P	1		RC20GF101K		2	Resistor, Fixed, Composition									R206 (Used on A-1520)		
P	2		RC20GF104K		2	" " "									R229,233		
P	1		RC20GF152K		2	" " "									R161		
P	1		RC20GF223K		2	" " "									R232, 150, 222		
P	1		RC20GF224K		2	" " "									R163		
P	1		RC20GF331K		2	" " "									R228		
P	1		RC20GF472K		2	" " "									R162		
P	1		RC20GF680K		2	" " "									R201		
P	1		RC30GF272K		2	" " "									R230 (Used on A-11466)		
P	1		RC30GF682K		2	" " "									R231		
P	2		RC32GF223K		2	Resistor, Fixed, Composition									R159,160		

OSCILLATOR SECTION

PURCHASED ITEM	MATERIAL LIST			MODEL NPL-AO-102		PROJ. NO.				LIST NO. NPL-AO-102				
	QUANTITY REQ.	N P L	PART NO.	REV	DWG SIZE	DESCRIPTION	REF	SYMBOLS	ISSUE				SHEET 5 OF 13 SHEETS	
									A	B	C	D	E	F
						<u>ELECTRICAL COMPONENTS AND MECHANICAL PARTS</u>								
P	2		RR-102-1		1	Resistor, Heater Element		R207,208 (Used on A-1520)						
P	1		SS-100-3		1	Switch, Sensitive, 80°		S110 (Used on A-1520)						
P	1		SW-191	B	1	Switch, Rotary, HF Oscillator, "Band MC"		S108B						
P	1		SW-200	C	1	Switch, Rotary, MF Xtal		S107						
P	2		TS-103-U02		2	Shield, Tube		For V115,117						
P	1		TS-103-U03		2	Shield, Tube		For V116						
P	3		TS-103-P01		2	Socket, Tube, 9 Pin Miniature		XV115,116,117						
P	18		TS-104-1		1	Socket, Crystal		XY101,102,103,104, 105,106,107,108,111, 112,113,114,115,116, 117,118,119,120						
P	1		WS-102		1	Wafer Rotary Switch, HF Oscillator, "Band MC"		S108A						

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	QUANTITY REQ.	N P L	PART NO.	REV	DWG SIZE	DESCRIPTION	REF	SYMBOLS	ISSUE						SHEET	OF	SHEETS		
						<u>TUBES</u>			A	B	C	D	E	F	G	H	6	13	
P	1		6CL6		X	Tube, Electron, HF Oscillator Amp.													V116
P	1		6U8		X	Tube, Electron, HF Oscillator													V117
P	1		12AU7		X	Tube, Electron, 2-4 MC Oscillator													V115

OSCILLATOR SECTION

MATERIAL LIST

MODEL AO-102

PROJ. NO.

LIST NO. NPL-AO-102

ISSUE

A B C D E F G H

SHEET 8 OF 13 SHEETS

PURCHASED ITEM	QUANTITY REQ.	NPL	PART NO.	REV	DWG SIZE	DESCRIPTION	REF	SYMBOLS
<u>HARDWARE</u>								
P	3		NT-101-5		1	Nut, Strap, 9 Pin Socket		For XV115,116,117 For MS-1111
P	4		NT-117-0832A		1	Nut, Floating Anchor		
P	12		SCBS040BN3		1	Screw, Machine		
P		SCBS0410BN		1	Screw, Machine			
P		SCBS0632BN		1	Screw, Machine			
P		SCBS0632BN		1	Screw, Machine			
P		SCBS0632BN		1	Screw, Machine			
P		SCBS0832BN		1	Screw, Machine			
P	8		SFB0348SN5		1	Screw, Thread Cutting		
P	8		SFB044OSM4		1	Screw, Thread Cutting		
P	14		NT-129-632-4		2	Nut, Swage	(12)MS-1108	4 Used on MS-1108 4 Used on MS-1111
P	8		NT-129-832-4		2	Nut, Swage	(2)MS-1112	
P	8		NT-129-832-4		1	Nut, Insert (8-32Thds)		
P			TE-102-2		1	Terminal, Turret		

OSCILLATOR SECTION

MATERIAL LIST

MODEL AO-102

PROJ. NO.

LIST NO. NPL-AO-102

ISSUE A B C D E F G H

SHEET 12 OF 13 SHEETS

PURCHASED ITEM	QUANTITY REQ.	N P L	PART NO.	REV	DWG SIZE	DESCRIPTION	REF	SYMBOLS
<u>SUPPORTING DRAWINGS</u>								
P	1		LD-365-1		4	Lettering, Xtal Oven Top Inner Shell	MS-1110	
P	1		LD-365-2		4	Lettering, Xtal Oven Bottom Inner Shell	MS-1139	
P	1		LD-366		8	Lettering, Xtal Oven Chassis	MS-1112	
P	1		LD-370		2	Lettering, Xtal Oven Bottom Cover	MS-1107	
P	1		LD-371		1	Lettering, Xtal Oven Top Cover	MS-1106	
	1		TF-173 (1A-1812)		1	Transformer, Fixed, HF, Oscillator Outpu		T123
	1		TR-166 (1A-1813)		1	Transformer, Fixed, HF, VMO Input		T124

