

MATERIAL LIST				REV	N	P	R	S	T	U	V	W						MODEL	AT-100
																		SHEET	1 OF 10
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MACHANICAL	REF.	LOCATION		SYMBOLS											
						USED ON	QUAN.												
2	BB-106-3		1	Bearing, Thrust		PM-539	1												
1	BB-121-1		1	Bearing, Panel															
2	BX-174		2	Can, Core		AX-120	2												
22	CI-112-Q2-7L		2	Core, Feramic		AX-120	22												
1	CO-101-1000-15C		2	Capacitor, Fixed, Vac.				C911											
1	FP-164		1	Strap, Connecting, #1 (From E900 to E901 or E902)															
1	FP-165		1	Strap, Connecting, #2 (From L907 to L912)															
1	FP-166		2	Strap, Connecting, #3 (From L912 to E901)															
1	FP-167		2	Strap, Connecting, #4 (From L913 to E904)															
1	FP-168		2	Strap, Connecting, #5 (From L907 to E902)															

MATERIAL LIST				REV	N	P	R	S	T	U	V	W	MODEL	AT-100
													SHEET	2 OF 10
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	LOCATION		SYMBOLS						
						USED ON	QUAN.							
1	GR-145		1	Gear, Miter, 1" PD										
1	MS-202-35-13.125		2	Strap, Connecting, 7/16" Wide	Unbal. Out			E901 to E903 to E904						
1	MS-202-22-3.750		2	Strap, Connecting, 7/16" Wide	Output			Feedthru to C911						
1	MS-202-22-7.500		2	Strap, Connecting, 7/16" Wide				C911 to C928						
1	MS-202-27-9.000		2	Strap, Connecting, 7/16" Wide				L912 & L913 to C916						
1	MS-1511		2	Support, Side										
1	MS-1512		2	Guide, Core										
1	MS-1513		2	Plate, Support, Coil	LD-575									
2	MS-1529		1	Bracket, Coupling, Capacitor										
1	MS-1537		2	Support, Gear Shaft										
1	MS-1539		4	Sideplate, Right										
1	MS-1540		4	Sideplate, Left	LD-577									
2	MS-1861		1	Bracket, Coil Mounting, Top										
2	MS-1862		1	Bracket, Coil Mounting, Bottom										
12	NS-128-1		1	Bushing, Insulated, Female		AX-152	12							
4	NS3W0204		2	Insulator, Pillar, Round		AT-100	4							
2	NS3W0314		2	Insulator, Pillar, Round		AT-100	2							
2	NS3W0332		2	Insulator, Pillar, Round		CL-179	2							
2	NS3W0440		2	Insulator, Pillar, Round		CL-166	1							
1	NS3W0440		2	Insulator, Pillar, Round		AT-100	1							

MATERIAL LIST				REV	N	P	R	S	T	U	V	W						MODEL	AT-100
																		SHEET	3 OF 10
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	LOCATION		SYMBOLS											
						USED ON	QUAN.												
2	PM-535		2	Mount, Core, Antenna		AX-120	2												
2	PM-536		1	Rod, Core Support															
1	PM-539		1	Shaft, Main Drive															
1	PM-558		1	Guide, Threaded Shaft															
1	PM-572		1	Bushing															
2	PO-185-3S		2	Flange, Capacitor		CO-101 Mtg.	2												
2	PX-405		2	Support, Coil, Teflon		AC-102	2												
2	PX-438		2	Support, Coil, Melamine		AC-102	2												
1	PX-452		4	Terminal Board	LD-542														
2	PX-453		1	Mount, Capacitor	LD-576														
4	PX-479		1	Insulator, Core		AX-120	4												
6	PX-562-2		1	Bushing, Teflon		AX-152	6												
6	SM-156-1-BN		2	Rod, Threaded		AX-152	6												
2	SM2520BN1.25		2	Rod, Threaded		CL-166	2												
1	TE0832BN29R		2	Spacer, Threaded, 1/2" D. x 1" Long															
4	TE2520AE26R		2	Spacer, Threaded, 3/4" D. x 11/16" Long															
1	TH-100-20		1	Thermocouple				TC 900											

MATERIAL LIST				REV	N	P	R	S	T	U	V	W						MODEL	AT-100		
																		SHEET	4	OF	10
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS													
						USED ON	QUAN.														
2	AN565D6H4		1	Screw, Headless		AT-100	2														
2	AN565D8H4		1	Screw, Headless		AT-100	2														
8	FW04HBN		1	Washer, Flat		AT-100	2														
	FW04HBN		1	Washer, Flat		AC-102	6														
30	FW10HBN		1	Washer, Flat		AT-100	14														
						AX-152	12														
						CL-179	4														
14	FW25HBN		1	Washer, Flat		CL-166	4														
						CL-166	4														
8	FW37HBN		1	Washer, Flat		AT-100	8														
12	GA-117		1	Gasket, Cork		AX-152	12														
10	LWE08MRN		1	Lockwasher, Ext.		AT-100	10														
8	LWE04MRN		1	Lockwasher, Ext.		AT-100	2														
	LWE06MRN		1	Lockwasher, Ext.		AC-102	6														
62	LWE10MRN		1	Lockwasher, Ext.		AT-100	50														
						AX-152	12														
7	LWE25MRN		1	Lockwasher, Ext.		AT-100	7														
1	LWE50MRN		1	Lockwasher, Ext.		AT-100	1														
	LWS25MRN		1	Lockwasher, Split		AT-100	2														
8	LWS37MRN		1	Lockwasher, Split		AT-100	8														

MATERIAL LIST		REV.	N	P	R	S	T	U	V	W	MODEL	AT-100	
											SHEET	5	OF 10
QUAN. PER UNIT	PART NO.	DESCRIPTION	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS						
				USED ON	USED TO MOUNT	QUAN.							
1	NT-129-420-6	Nut, Swage		MS-1513		1							
4	NT-139-SC1-20	Insert, Screw Thread		PX-438		4							
8	NTH0440BN8	Nut, Hex		AT-100		2							
				AC-102		6							
56	NTH1032BN12	Nut, Hex		AT-100		40							
				AX-152		12							
				CL-179		4							
3	NTH2520BN14	Nut, Hex		AT-100		1							
				CL-166		2							
8	NTH3716BN20	Nut, Hex		AT-100		8							
1	NTH5020BN24	Nut, Hex		AT-100		1							
6	NTH6211BN30	Nut, Hex		AX-120		4							
				AT-100		2							
2	NTH6211BN30J	Nut, Jam		AT-100		2							
4	SC-127-1	Stud, Threaded (10-32)		CL-179		4							
2	SCBP0440BN18	Screw, Machine		AT-100		2							
6	SCBP0440BN20	Screw, Machine		AC-102		6							
4	SCBP0832BN4	Screw, Machine		AT-100		4							
2	SCBP0832BN6	Screw, Machine		AT-100		2							
4	SCBP0832BN8	Screw, Machine		AT-100		4							
4	SCBP1024BN8	Screw, Machine		AT-100		4							
1	SCBP1032BN5	Screw, Machine		AT-100		1							
12	SCBP1032BN8	Screw, Machine		AT-100		12							
14	SCBP1032BN10	Screw, Machine		AT-100		14							
2	SCBP1032BN12	Screw, Machine		AT-100		2							
2	SCFP1032BN8	Screw, Machine		AT-100		2							
2	SCHH2520BN8	Bolt, Machine		AT-100		2							
2	SCHH2520BN24F	Bolt, Machine		AT-100		2							
2	SCHH2520BN28F	Bolt, Machine		AT-100		2							

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST				REV	N P R S T U V W												MODEL	AT-100		
																	SHEET	6	OF	10
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION	REF.	LOCATION		SYMBOLS												
						USED ON	QUAN.													
				HARDWARE																
6	SFB0632AW4		1	Screw, Self Tapping		AX-120	6													
2	SM-127-D-1032		1	Nut, Hex, Stop		AT-100	2													
4	TE-104-4		1	Lug, Terminal, Locking, #10		CL-179	4													
2	TE-104-5		1	Lug, Terminal, Locking, #1/4		CL-166	2													
2	TE-141-1		1	Lug, Terminal, #6		CA-412-6	1													
						CA-412-16	1													
1	TE-141-2		1	Lug, Terminal, #8		CA-412-17	1													
6	TE-141-3		1	Lug, Terminal, #10		CA-412-4	2													
						CA-412-17	1													
						CA-412-16	1													
2	TE-141-4		1	Lug, Terminal, #1/4		CA-412-20	2													
						CA-412-6	1													
4	TE-155-34170		2	Lug, Terminal, Insulated, #10		CA-412-8	1													
4	TE-155-34852		2	Lug, Terminal, Insulated, #6		CA-409-37	4													
						CA-409-37	4													
2	TE-179-1		1	Lug, Terminal, #1/4		CA-412-20	2													
8	WA-109-46		1	Washer, Fiber		AT-100	8													
4	WA-109-54		1	Washer, Fiber		CL-179	4													
4	WA-109-55		1	Washer, Fiber		AT-100	2													
						CL-166	2													
16	WA-109-56		1	Washer, Fiber		AT-100	4													
						AX-152	12													

MATERIAL LIST				REV	N	P	R	S	T	U	V	W	MODEL	AT-100	
													SHEET	7	OF 10
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION RAW MATERIALS	REF.	LOCATION		SYMBOLS							
						USED ON	QUAN.								
X	BS-100		1	Solder, Soft											
X	GL-103		1	Cement, Duco		CL-166	X								
X	GL-104-2		1	Insulex, U-85		CL-166,179	X								
X	GL-116		1	Silicone, Varnish		CL-179	X								
18"	MWC14(19)B90		2	Cable, Insulated, Fiberglass	WH/BLK.	CA-409-37-3.00	3"								
						CA-409-37-6.00	6"								
14"	PX-370-4-7		2	Sleeving, Teflon (.208 I.D.)	Natural	AX-152	2"								
52"	PX-370-8-7		2	Sleeving, Teflon (.133 I.D.)	Natural	CA-412-4	4"								
					Natural	CA-412-6	22"								
					Natural	CA-412-16	2"								
					Natural	CA-412-20	9"								
					Natural	CA-412-17	6"								
X	TA-113-3-1		2	Tape, Silicone		AX-120	X								
53"	TU-100-2N		1	Tubing, Copper (1/8 Dia.)		CA-412-4	4"								
						CA-412-6	23"								
						CA-412-20	9"								
						CA-412-17	6"								
						CA-412-16	2"								

MATERIAL LIST

REV

N P R S T U V W

MODEL AT-100

SHEET 8 OF 10

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION RAW MATERIALS	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
X	TU-100-5N		1	Tubing, Copper (5/16 Dia.)		CL-169	X	
X	WI-125-2		1	Wire, Magnet (#17)		CL-166	X	
X	WI-125-5		1	Wire, Magnet (#20)		CL-179	X	
14"	WI-100-1		1	Wire, Buss (#10)		CL-412-7 CL-412-8	6" 2"	

MATERIAL LIST				REV	N	P	R	S	T	U	V	W							MODEL	AT-100		
																			SHEET	9	OF	10
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION SUPPORTING DRAWINGS	REF.	LOCATION		SYMBOLS														
						USED ON	QUAN.															
2	AG-102(2A-1674)		2	Coil, R.F., Fixed, 2.5 uh				L912,L913														
1	AT-100(8A-1732)		8	Antenna Tuning Assembly																		
2	AX-120(4A-1686)		1	Core Assembly, Ant. Tuner				A901,A902														
6	AX-152(1A-1736)		1	Feedthru, Insulated				E900,901,902,903, E904														
2	CA-409-37-3.00		4	Cable Assembly, Jumper (1 From L916 to TC900 "-") (1 From L917 to TC900 "+")																		
1	CA-412-17-6.00		4	Cable Assembly, Jumper (From TC900 "+" to Gnd.)	Bal. Op.																	
1	CA-412-4-4.12		2	Cable Assembly, Jumper (From E900 to Feedthru)																		
1	CA-412-6-22.50		2	Cable Assembly, Jumper (From TC900 Line to J903)	Unbal. Op.																	
2	CA-409-37-6.00		2	Cable Assembly, Jumper (1 From L916 to C1020) (1 From L917 to C1019)																		
1	CA-412-16-2.00		2	Cable Assembly, Jumper (From TC900 Line to E904)																		
2	CA-412-20-9.00		2	Cable, Assembly, Jumper (1 From E901 to E905) (1 From E903 to E906)	Bal. Op.																	

MATERIAL LIST				REV	N	P	R	S	T	U	V	W	MODEL	AT-100	
													SHEET	10	OF 10
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION SUPPORTING DRAWINGS	REF.	LOCATION		SYMBOLS							
						USED ON	QUAN.								
1	CL-166(2A-1680)		1	Coil, R.F., Fixed, 35 uh				L907							
2	CL-169(4A-1733)		2	Coil, R.F., Fixed, 2.5 uh	AG-100	AC-102	1								
2	CL-179(2A-1163)		1	Coil, R.F., Fixed, 38 uh				L916, L917							
1	LD-542		4	Lettering, Term. Bd., Ant. Tuner	PX-452										
1	LD-575		2	Lettering, Plate, Coil Support	MS-1513										
2	LD-576		1	Lettering, Mount, Capacitor	PX-453										
1	LD-577		2	Lettering, Sideplate, Left	MS-1540										

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

NPL-AT-100

MODEL AT-100

PROJECT NO _____

DATE	REV.	PAGE	EMN#	DESCRIPTION	CHK.	APP.
7-12-61	N	A11	5217	Brought up to date as per EMN NO. 5217.	}	16
7-12-61	N		5217	Completely Retyped.		
11/21/61	P	5	5955	On SCHH2520BN8, chg. quan. from 6 to 2.		
				Add 2 ea. SCHH2520BN24. Add 2 ea. SCHH2520BN28.	}	16
				ADD 2 ea. NTH6211BN30J		
6/20/62	R	4	6809	To LWE10MRN, Chg. Quan. from 61 to 62.		
				On AT-100, Chg. Quan. from 49 to 50. (Ref)	}	16
		5		On NTH1032BN12, Chg. Quan. from 55 to 56.		
				On AT-100, Chg. Quan. from 39 to 40. (Ref)		
				Add 4 ea. NT-139-SC1-20, "U/O" 2 ea. PX-438	}	
11/12/62	S	2	7688	Chg. NS3W0316 to NS3W0314		
		5		Chg. NTH6211BN32 to NTH6211BN30		
				Add 2 ea. SCFP1032BN8	}	16
				Chg. all SCBS to SCBP		
				Chg. SCHH2520BN24 to SCHH2520BN24F		
				Chg. SCHH2520BN28 to SCHH2520BN28F	}	16
11/19/62	T	1	7731	Chg. BB-121 to BB-121-1		
5/6/63	U	1-6	8908	Revise per EMN 8908		
2/6/64	V	-----	10814	Revised Sheets 2, 6, 7 and 9 per EMN 10814 <small>1</small>	}	16
5/6/64	W	ALL	11261	Chg. SM1032BN3.50 to SM-156-1-BN & ADD OBSOLETE		
				NOTE. <small>1</small>		
				Add 3 ea. SC320410M20	}	
				Delete 2 ea. PN91-042+15.		
				Delete 4 ea. SCBP0532BN4		
				Delete 4 ea. SCBP0532BN9	}	
				Add 4 ea. SC320410M20		
				Add 4 ea. SC320410M20		
				Add 4 ea. SC320410M20	}	
				Chg. SM-100-36 to SM-100-37		
				Chg. SM-104 to NPL-104		

A-2064

Kit 105/1106 8-1107

~~EPT-10K to 40K~~

AT-100