

USED ON		AX-384	#
MODEL	SECTION	LIST NO.	REV.
HFS-1			

100 CYCLE SELECTOR DECK
(TITLE)

LIST SECTIONS

LAST SYMBOLS

- C3163 TP3103
- CR3103 V3105
- J3107 W3102
- L3101 XV3105
- P3104 XY3110
- R3143 XZ3101
- S3102 Y3110
- T3102 Z3101
- TB3102

MISSING SYMBOLS

- C3116
- C3118
- C3162
- R3123
- C3123

- 1. SUPPORTING LISTS NONE REQ.
- 2. ELECTRICAL / MECHANICAL (SH.1-7)
- 3. TUBES / DIODES (SH.8)
- 4. HARDWARE (SH.9-10)
- 5. RAW MATERIALS (SH.11)
- 6. SUPPORTING DRAWINGS (SH.12)
- 7. SPECIFICATIONS (SH.13)
- 8. LOOSE ITEMS NONE REQ.
- 9. PARTS PECULIAR NONE REQ.

TYPED 10/22/62

CHECKED John Medico JMT BP

APPROVED 10/27/62

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	MODEL	AX-384		
											SHEET	1	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRI CAL/MECHANI CAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS							
				USED ON	USED TO MOUNT	QUAN.								
1	A-2254-1	Machining, Terminal Board, Divider		A-2254-2		1								
1	A-2254-2	Lettering, Terminal Board, Divider		A-2254-3		1								
1	A-2254-3	Sub-Assembly, Terminal Board, Divider		A-2254-4		1								
1	A-2271-1	Machining, Terminal Board, Ampl.		A-2271-2		1								
1	A-2271-2	Lettering, Terminal Board, Ampl.		A-2271-3		1								
1	A-2271-3	Sub-Assembly, Terminal Board, Ampl.		A-2271-4		1								
3	CC-100-9	Cap., Fixed, Ceramic, Disc, .001 uf		A-2254-4		2	C3101,3106							
				AX-384		1	C3114							
1	CC-100-15	Cap., Fixed, Ceramic, Disc, .005 uf		A-2254-4		1	C3104							
4	CC-100-16	Cap., Fixed, Ceramic, Disc, .01 uf		A-2254-4		1	C3102							
				AX-384		2	C3124,3158,3159							
				AX-384		1	C3161							
5	CC-100-24	Cap., Fixed, Ceramic, Disc, .02 uf		A-2271-4		2	C3119,3122,3123							
				AX-384		2	C3126,3127							
				A-2271-4		1	C3159							
1	CC-100-37	Cap., Fixed, Ceramic, Disc, .1 uf		AX-384		1	C3112							
1	CC-100-35	Cap., Fixed, Ceramic, Disc, .2 uf		A-2254-4		1	C3105							
1	CE-106	Cap., Fixed, Electrolytic, 6.8 uf		AX-384		1	C3160							
1	CE-108-1	Cap., Fixed, Electrolytic, 3 x 20 uf		AX-384		1	C3163,3165							
4	CE-116-1VN	Cap., Fixed, Electrolytic, 8 uf		AX-384		1	C3125A,B,C							
				A-2271-4		3	C3108,3111,3113							
				A-2271-4		1	C3115							

MAMARONECK, NEW YORK

THE TECHNICAL MATERIEL CORPORATION

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	MODEL	AX-384		
											SHEET	2	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS							
				USED ON	USED TO MOUNT	QUAN.								
1	CL-286	Coil, Fixed, RF		AX-384		1	L3101							
1	CM15B050M	Capacitor, Fixed, Mica, 5 uuf		AX-384		1	C3120							
2	CM15B101J	Capacitor, Fixed, Mica, 100 uuf		AX-384		2	C3109,3121							
2	CM20B102K	Capacitor, Fixed, Mica, 1000 uuf		A-2254-4		1	C3107							
				AX-384		1	C3110							
1	CM35B472J	Capacitor, Fixed, Mica, 4700 uuf		A-2254-4		1	C3103							
1	GN-114-R10-4M	Capacitor, Fixed, Mylar, .1 uf		A-2271-4		1	C3117							
1	CR-109-6	Crystal, Unit, Quartz, 3.1KC		A-2417		1	Y3110							
1	CR-109-7	Crystal, Unit, Quartz, 3.2KC		A-2417		1	Y3109							
1	CR-109-8	Crystal, Unit, Quartz, 3.3KC		A-2417		1	Y3108							
1	CR-109-9	Crystal, Unit, Quartz, 3.4KC		A-2417		1	Y3107							
1	CR-109-10	Crystal, Unit, Quartz, 3.5KC		A-2417		1	Y3106							
1	CR-109-11	Crystal, Unit, Quartz, 3.6KC		A-2417		1	Y3105							
1	CR-109-12	Crystal, Unit, Quartz, 3.7KC		A-2417		1	Y3104							
1	CR-109-13	Crystal, Unit, Quartz, 3.8KC		A-2417		1	Y3103							
1	CR-109-14	Crystal, Unit, Quartz, 3.9KC		A-2417		1	Y3102							
1	CR-109-15	Crystal, Unit, Quartz, 4.0KC		A-2417		1	Y3101							

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	MODEL	AX-384		
											SHEET	3	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS							
				USED ON	USED TO MOUNT	QUAN.								
1	CU-118-4S	Clamp, Tube		AX-384		1								
10	CV-108-4	Capacitor, Variable, 1-30 uuf		A-2417		3	C3128,3129,3130							
				A-2417		3	C3131,3132,3133							
				A-2417		3	C3134,3135,3136							
				A-2417		1	C3137							
1	CX-104-38	Cap., Fixed, Polystyrene, 8000 uuf		A-2543		1	C3155							
1	CX-104-39	Cap., Fixed, Polystyrene, 8600 uuf		A-2543		1	C3154							
1	CX-104-40	Cap., Fixed, Polystyrene, 9400 uuf		A-2543		1	C3153							
1	CX-104-41	Cap., Fixed, Polystyrene, 10200 uuf		A-2543		1	C3152							
1	CX-104-42	Cap., Fixed, Polystyrene, 11100 uuf		A-2543		1	C3151							
1	CX-104-43	Cap., Fixed, Polystyrene, 12500 uuf		A-2543		1	C3150							
1	CX-104-44	Cap., Fixed, Polystyrene, 13900 uuf		A-2543		1	C3149							
1	CX-104-45	Cap., Fixed, Polystyrene, 14500 uuf		A-2543		1	C3148							
1	CX-104-46	Cap., Fixed, Polystyrene, 7300 uuf		A-2543		1	C3156							
1	CX-104-47	Cap., Fixed, Polystyrene, 2700 uuf		A-2543		1	C3146							
1	CX-104-48	Cap., Fixed, Polystyrene, 3000 uuf		A-2543		1	C3145							
1	CX-104-49	Cap., Fixed, Polystyrene, 3300 uuf		A-2543		1	C3144							
1	CX-104-50	Cap., Fixed, Polystyrene, 3500 uuf		A-2543		1	C3143							
1	CX-104-51	Cap., Fixed, Polystyrene, 3750 uuf		A-2543		1	C3142							
1	CX-104-52	Cap., Fixed, Polystyrene, 4250 uuf		A-2543		1	C3141							
1	CX-104-53	Cap., Fixed, Polystyrene, 4500 uuf		A-2543		1	C3140							
1	CX-104-54	Cap., Fixed, Polystyrene, 5000 uuf		A-2543		1	C3139							
1	CX-104-55	Cap., Fixed, Polystyrene, 5400 uuf		A-2543		1	C3138							
1	CX-104-56	Cap., Fixed, Polystyrene, 53000 uuf		A-2543		1	C3147							
1	CX-104-57	Cap., Fixed, Polystyrene, 142000 uuf		A-2543		1	C3157							
1	JJ-119-2	Connector, Receptacle, Female		AX-384		1	J3106							
4	JJ-211	Connector, Receptacle, Male		AX-384		3	J3101,3102,3103							
				AX-384		1	J3107							
1	JJ-242-3S	Connector, Receptacle, Female		AX-384		1	J3105							

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MATERIAL LIST		REV.	A	B	C	D	E	F	G	H						MODEL	AX-384		
																SHEET	4	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS												
				USED ON	USED TO MOUNT	QUAN.													
1	JJ-245	Connector, Receptacle, Male		AX-384		1	J3104												
1	MS-2880	Shield, Mounting, Switch		SW-293		1	Purchase w/SW-293												
1	MS-2883	Plate, Front, Switch Mounting	LD-1085	AX-384		1													
1	MS-2885	Plate, Side, Right		AX-384		1													
1	MS-2886	Plate, Side, Left	LD-1086	AX-384		1													
1	MS-2889	Chassis, Main		AX-384		1													
1	MS-2950	Plate, Crystal, Tie Down	LD-1078	A-2417		1													
1	MS-3122	Plate, Crystal, Grounding		A-2417		1													
1	NF-109-1	Frequency Standard, 1MC		AX-384		1	Z3101												
4	PL-204	Connector, Plug, Female	S693 S693	W3101 W3102		2 2	P3101, 3102, P3103, 3104												
1	PX-658	Board, Crystal	LD-1073	A-2417		1													
1	RC20GF103K	Resistor, Fixed, Composition		AX-384		1	R3142												

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MATERIAL LIST		REV.	A	B	C	D	E	F	G	H							MODEL	AX-384		
																	SHEET	5	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS													
				USED ON	USED TO MOUNT	QUAN.														
11	RC20GF104K	Resistor, Fixed, Composition		A-2254-4		1	R3102													
				AX-384		1	R3105													
				A-2254-4		2	R3108,3110													
				AX-384		1	R3114													
				A-2271-4		2	R3118,3122													
				AX-384		3	R3124,3129,3133													
				AX-384		1	R3136													
3	RC20GF151K	Resistor, Fixed, Composition		AX-384		3	R3115,3126,3128													
1	RC20GF153K	Resistor, Fixed, Composition		A-2254-4		1	R3111													
3	RC20GF222K	Resistor, Fixed, Composition		AX-384		1	R3107													
				A-2271-4		2	R3127,3139													
5	RC20GF223K	Resistor, Fixed, Composition		A-2271-4		3	R3113,3120,3125													
				AX-384		2	R3132,3143													
2	RC20GF225K	Resistor, Fixed, Composition		A-2254-4		1	R3101													
				AX-384		1	R3104													
1	RC20GF273K	Resistor, Fixed, Composition		A-2271-4		1	R3141													
2	RC20GF332K	Resistor, Fixed, Composition		A-2271-4		2	R3116,3117													
1	RC20GF333K	Resistor, Fixed, Composition		A-2254-4		1	R3112													
1	RC20GF392K	Resistor, Fixed, Composition		A-2271-4		1	R3138													
2	RC20GF470K	Resistor, Fixed, Composition		AX-384		2	R3121,3134													
1	RC20GF471K	Resistor, Fixed, Composition		AX-384		1	R3135													
2	RC20GF472K	Resistor, Fixed, Composition		A-2271-4		1	R3119													
2	RC20GF682K	Resistor, Fixed, Composition		AX-384		2	R3106,3137													

THE TECHNICAL MATERIEL CORPORATION

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MATERIAL LIST		REV.	A B C D E F G H																MODEL	AX-384	
																			SHEET	6	OF
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS														
				USED ON	USED TO MOUNT	QUAN.															
1	RC32GF153K	Resistor, Fixed, Composition		A-2254-4		1	R3109														
1	RC32GF222K	Resistor, Fixed, Composition		AX-384		1	R3130, 3131														
1	RC42GF222K	Resistor, Fixed, Composition		AX-384		1	R3131														
1	RV106UX8B103A	Resistor, Variable, Composition		AX-384		1	R3140														
1	RV106UX8B104A	Resistor, Variable, Composition		AX-384		1	R3103														
1	RY-121-20-6-3.625	Strip, Rubber		A-2417		1															
1	ST-106	Switch, Toggle, DPDT		AX-384		1	S3102														
1	SW-293	Switch, Rotary		A-2543		1	S3101A,B,C,D,E,F,G														
2	TE0632BN6H	Spacer, Threaded		A-2417		2															
1	TF-228-K15	Transformer, Pulse		A-2271-4		1	T3102														
2	TS-101-P01	Socket, Tube, Octal		AX-384		1	XC3125A,B,C														
4	TS-102-P01	Socket, Tube, 7 Pin		AX-384		1	XZ3101														
1	TS-102-U01	Shield, Tube		AX-384		3	XV3101,3102,3103														
3	TS-102-U02	Shield, Tube		AX-384		1	XV3104														
1	TS-103-P01	Socket, Tube		AX-384		1	For V3101														
1	TS-103-U03	Shield, Tube		AX-384		2	For V3102,3103														
						1	For V3104														
						1	XV3105														
						1	For XV3105														

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MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	MODEL	AX-384		
											SHEET	7	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRI CAL/MECHANI CAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS							
				USED ON	USED TO MOUNT	QUAN.								
10	TS-104-2	Socket, Crystal		A-2417		3	XY3101,3102,3103,							
				A-2417		3	XY3104,3105,3106							
				A-2417		3	XY3107,3108,3109							
				A-2417		1	XY3110							
1	TZ-104	Transformer, RF		AX-384		1	T3101							

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	MODEL	AX-384			
												SHEET	8	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION TUBES & DIODES	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS								
				USED ON	USED TO MOUNT	QUAN.									
3	1N463	Semicon., Device, Diode, Silicon		A-2254-4		1	CR3101								
				A-2271-4		2	CR3102,3103								
1	6AB4	Tube, Electron, Ampl.		AX-384		1	V3102								
1	6AS6	Tube, Electron, Divider		AX-384		1	V3101								
2	6AU6	Tube, Electron, Ampl.		AX-384		1	V3103,3104								
1	6AW8A	Tube, Electron, Ampl. Divider		AX-384		1	V3105A								
				AX-384		1	V3105B								

MATERIAL LIST

REV.

A B C D E F G H

MODEL AX-384

SHEET 9 OF 13

QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
1	FW06HBN	Washer, Flat		AX-384		1	
28	LWE04MRN	Washer, Lock, External		A-2417		10	
23	LWE06MRN	Washer, Lock, External		AX-384		18	
17	NT-129-632-4	Nut, Swage		A-2417		10	
				AX-384		13	
				MS-2880		2	
23	NTH0440BN6	Nut, Hexagon		MS-2883		4	
				MS-2889		11	
7	NTH0632BN8	Nut, Hexagon		A-2417		10	
				AX-384		13	
				AX-384		7	
16	SCBP0440BN4	Screw, Machine		AX-384		16	
2	SCBP0632BN8	Screw, Machine		A-2417		2	
15	SCBP0632BN5	Screw, Machine		AX-384		15	
10	SCFP0440BN8	Screw, Machine		A-2417		10	
20	SCFP0632BN4	Screw, Machine		AX-384		20	
5	TE-102-2	Terminal, Turret		AX-384		5	
10	TE-113-.120	Terminal, Lug		AX-384		10	
6	TE-108-13	Standoff, Rivet Type		A-2254-4		2	
				A-2271-4		4	

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	MODEL	AX-384		
											SHEET	10	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS							
				USED ON	USED TO MOUNT	QUAN.								
88	TE-168-4-C	Terminal, Lug		A-2254-4		30								
				A-2271-4		58								
3	TE-169-1	Feed-thru, Teflon		MS-2889		3	TP3101,3102,3103							

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	MODEL	AX-384			
												SHEET	11	OF	13
QUAN. PER UNIT	PART NO.	DESCRIPTION RAW MATERIALS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS								
				USED ON	USED TO MOUNT	QUAN.									
	BS-100	Solder, Soft													
1	LA-106-12-P3101(J3101)	Marker, Wire	S-693	CA-480-68		1									
1	LA-106-12-P3102(J3102)	Marker, Wire	S-693	CA-480-68		1									
1	LA-106-12-P3103(J3203)	Marker, Wire	S-693	CA-480-68		1									
1	LA-106-12-P3104(J3202)	Marker, Wire	S-693	CA-480-68		1									
1	LA-106-12-W3101	Marker, Wire	S-693	CA-480-68		1									
1	LA-106-12-W3102	Marker, Wire	S-693	CA-480-68		1									
0-8	MWC22(7)U0	Wire, Electrical	Black	A-2254-4		3"									
				A-2271-4		5"									
3-8	MWC22(7)U2	Wire, Electrical	Red	A-2254-4		8"									
				A-2271-4		36"									
1-0	MWC22(7)U3	Wire, Electrical	Orange	A-2254-4		3"									
				A-2271-4		9"									
1-0	MWC22(7)U4	Wire, Electrical	Yellow	A-2254-4		8"									
				A-2271-4		4"									
1-2	MWC22(7)U5	Wire, Electrical	Green	A-2254-4		9"									
				A-2271-4		5"									
1-7	MWC22(7)U6	Wire, Electrical	Blue	A-2254-4		3"									
				A-2271-4		16"									
2-6	PX-104-1-.034	Sleeving, Size #20	Black	A-2543		6"									
2-0	PX-104-1-.034	Sleeving, Size #20	Black	AX-384		24"									
2-0	PX-104-2-.034	Sleeving, Size #20	Yellow	AX-384		24"									
2-6	PX-104-3-.034	Sleeving, Size #20	Red	A-2543		6"									
2-0	PX-104-4-.034	Sleeving, Size #20	Green	AX-384		24"									
2-0	PX-104-4-.034	Sleeving, Size #20	Green	AX-384		24"									
2-0	PX-104-5-.034	Sleeving, Size #20	Brown	AX-384		24"									
2-6	PX-104-6-.034	Sleeving, Size #20	Blue	A-2543		6"									
				AX-384		24"									
1-2	RG-174/U	Cable, RF		CA-480-68		14"									
8-0	WL-100-6	Wire, Buss, Size #20		A-2553		36"									
				AX-384		60"									

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	MODEL	AX-384	
QUAN. PER UNIT	PART NO.	DESCRIPTION	SUPPORTING DRAWINGS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS					
					USED ON	USED TO MOUNT	QUAN.						
1	A-2254-4	Final Assembly, Terminal Board, Divider				AX-384		1	TB3101				
1	A-2271-4	Final Assembly, Terminal Board, Amplifier				AX-384		1	TB3102				
1	A-2417	Crystal Board Assembly				AX-384		1					
1	A-2543	Switch Assembly, 100 Cycle Selector				AX-384		1					
1	AX-384	Final Assembly, 100 Cycle Selector Deck											
2	CA-480-68-7	Cable Assembly, RF		S693		AX-384		2	W3101, 3102				
1	CK-582	Diagram, Schematic											
1	LD-1068	Lettering, Chassis, Main		MS-2889		AX-384		1					
1	LD-1073	Lettering, Crystal Board		PX-658		A-2417		1					
1	LD-1078	Lettering, Crystal Plate		MS-2950		A-2417		1					
1	LD-1085	Lettering, Plate, Switch Mtg., Front		MS-2883		SW-293		1					
1	LD-1086	Lettering, Plate, Side, Left		MS-2886		AX-384		1					

MATERIAL LIST

REV.

A B C D E F G H

MODEL

AX-384

SHEET

13

OF

13

QUAN. PER UNIT	PART NO.	DESCRIPTION SPECIFICATIONS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
	S-404	Yellow Iridite		Metal Work			
	S-630	Test Procedure					
	S-693	Wire, Marking Instructions		CA-480			

REVISION SHEET

**THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK**

AX-384

MODEL HES-1 _____

PROJECT NO. _____

DATE	REV.	PAGE	EMN #	DESCRIPTION	CHK.	APP.
11/26/62	A	6	None	Chg. Quan. on RC32GF222K from 2 to 1. Dele. Sym R3131	}	16
				Add 1 ea. RC42GF222K, Sym. R3131		
2/5/63	B	title	8227	Chg. LA-106-12-P3103(J3103) to LA-106-12-P3103(J3203)	}	16
				Chg. LA-106-12-P3104(J3104) to LA-106-12-P3104(J3202)		
				On Last Sym. Col., Chg. R3143 to R3142		
3/19/63	C	4	8610	On Missing Sym. Col., Dele. C3123	}	16
5/9/63	D	4, 5	8990	On CC-100-16, Chg. Quan. from 4 to 5, add Sym. C3123		
10/18/63	E	---	10248	On RC20GF104K, Chg. Sym. from R3143 to R3124		
1/15/64	F	1, 2	10761	Add 1 ea. MS-3122	}	16
1/30/64	G	5	11128	Rev. per #8990		
11/17/64	H	5	12918	Revised Sheets 1,2,5 and Title Page per EMN.	}	16
				Revised Sheets 1 & 2 per EMN.		
				Revised Sheets 5 per EMN.		
				Revised sheet 5 per EMN		