

MAMARONECK, NEW YORK
THE TECHNICAL MATERIEL CORPORATION

BILL OF MATERIAL

MODEL FFRD-2
ISSUE A B C E F G

PROJ. NO. E-458-P

LIST NO. ~~ML-4-1286~~ FFRD-2
SHEET 1 OF 8 SHEETS

ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Prod.	Pur.
1	SLHC0832SN4		2	Screw Set			1
2	BI-101-44		1	Lamp Incandescent	I201		1
3	BS-100		X	Solder, Soft			1
4	CB-129	D	1	Capacitor, Variable	C201		1
5	CC-100-16		20		C204, 205, 206, 207, 208, 212, 213, 214, 215, 219, 221, 225, 226, 227, 235, 237, 239, 244, 245, 246		1
6	CC-101-4		1	Capacitor, Fixed	C236		1
7	CC21SL100D		3	Capacitor, Fixed	C230, 240, 241		1
8	CC21SL470K		2	Capacitor, Fixed	C229, 234		1
9	CC21SL680J		2	Capacitor, Fixed	C211, 218		1
10	CC35CH121J		1	Capacitor, Fixed	C233		1
11	CC35CH680J		3	Capacitor, Fixed	C203, 210, 217		1
12	CC45CH151J		1	Capacitor, Fixed	C231		1
12.1	CC21SL300J		2	Capacitor, Fixed	C247, 248		1
13	CF-100	B	1	Coil Form			1
14	CF-114-3		4	Coil Form			1
15	CF-117-1.0	B	1	Coil Form			1
15.1	CC26SL680J		2	Capacitor, Fixed	C211, 218		1
16	CI-109-11		3	Core, Ceramic			1
17	CI103D7B5		4	Core			1
18	CM20D161J		1	Capacitor, Fixed	C220		1
19	CM20D621J		1	Capacitor, Fixed	C222		1
20	CM20D681J		1	Capacitor, Fixed	C224		1
21	CN-100-4		2	Capacitor, Fixed	C242, 243		1
22	CR-104		1	Xtal (Supplied at Customer's Request)	Y202		1
23	CR-102		1	Xtal	Y201		1
24	CT-104-1		1	Capacitor, Variable	C238		1

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WJ APPROVED PLK AJJ.

BILL OF MATERIAL				MODEL	PROJ. NO.	LIST NO.
				FFRD-2	E-458-P	ML- 1266 FFRD-2
				ISSUE		SHEET 2 OF 8 SHEETS
	A	E	F	G		
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Prod. Pur.
25	CU-101-1		4	Ferrule, Inner		1
26	CU-101-2		4	Ferrule, Outer		1
27	CU-101-3		1	Ferrule, Inner		1
28	CU-101-4		1	Ferrule, Outer		1
29	CV110450		5	Capacitor, Variable	C202, 209, 216, 228, 232 C223	
30	CV11A120		1	Capacitor, Variable		
31	EY-100-1		12	Eyelet, Flat Flange		1
32	EY-101-1		5	Eyelet, Rolled Flange		1
33	EY-102-1		3	Grommet, Elastic		1
34	FP-109	C	1	Clamp, Xtal		1
35	FW04HBN		4	Washer, Flat		1
36	GL-103		X	Cement		1
37	GL-104-2		X	Insulex U-85		1
38	HA-102-1BN		2	Handles		1
39	LWI06LRN		12	Washer, Lock		1
40	LWI25LRN		3	Washer, Lock		1
41	LWI03MRN		3	Washer, Lock		1
42	LWI04MRN		58	Washer, Lock		1
43	LWI06MRN		27	Washer, Lock		1
44	LWI08MRN		8	Washer, Lock		1
45	LWS04MRN		10	Washer, Lock		1
46	MP-100-1		1	Knob, Instrument Type		1
47	MP-100-4		1	Knob, Instrument Type		1
48	MP-102-1	B	1	Knob, Instrument Type		1
49	MP-102-3		1	Knob, Instrument Type		1
50	MS-126	B	1	Can (modify FP-108-1)		1
51	MS-132	C	2	Ground, Strap, IF Core		1
52	MS-170	A	1	Xtal, Bracket		1
53	MS-179	C	1	Dial Blank		1

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BILL OF MATERIAL			MODEL FFRD-2				PROJ. NO. E-458-P				LIST NO. ML- A-1256 FFRD-2	
			ISSUE								SHEET 3 OF 8 SHEETS	
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS	Prod. Pur.			
54	MS-187	B	1	Shield, Plug					1			
55	MS-191 (use A-323)		1	Shield, Tuning Cond (No Drawing)					1			
56	MS-192	C	4	Ground, Strip					1			
57	MS-193		2	Lens, Clamp					1			
58	MS-342		1	Support Trimmer					1			
59	MS-729 (use A-1134)		4	Can (No Drawing)					1			
60	MS-748		1	Panel, Front, RF Head					1			
61	MS-749		1	Center, Chassis					1			
62	MS-750		1	Shield, Front					1			
63	MS-751	B	1	Shield, Center					1			
64	MS-752		1	Shield, Rear					1			
65	MS-908		1	Bracket					1			
66	MS-909 (Use A-1256)		1	Bottom, Cover (No Drawing)					1			
67	MS-910		1	Top, Cover					1			
68	MS-911-1 (use A-1257)		1	Head, Frome (No Drawing)					1			
69	NP-134		1	Name Plate, Patent					1			
69.1	NP-xxx		1	Name Plate (see S-278)					1			
70	NT-102		3	Nut, Hex					1			
71	NT-108-2		7	Nut, Speed					1			
72	NT-108-3		2	Nut, Speed					1			
73	NT-108-4		6	Nut, Speed					1			
74	NTH0256BN6		3	Nut, Hex					1			
75	NTH0440BN6		29	Nut, Hex					1			
76	NTH0440BN8		12	Nut, Hex					1			
77	NTH0632BN8		35	Nut, Hex					1			
78	PL-109		1	Plug, Multi-Coaxial				P201	1			
78.1	PM-415		1	Shaft Lock Knob, Modification				(Use PM-181)				
79	PM-181-L	A	1	Shaft, Lock				(Use PM-415 for lever Modification)	1			
80	PX-100-1-188		X	Insulation, Sleeving					1			
81	PX-100-1-208		X	Insulation, Sleeving					1			
82	PX-104-1-034		X	Insulation, Sleeving					1			
83	PX-104-1-053		X	Insulation, Sleeving					1			
84	PX-104-1-056		X	Insulation, Sleeving					1			
85	PX-104-2-034		X	Insulation, Sleeving					1			
86	PX-113	A	1	Dial Lens					1			

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BILL OF MATERIAL				MODEL	FFRD-2	PROJ. NO.	E-458-P	LIST NO.	ML- A-1266 FFRD-2	
				ISSUE	A	E	F	G	SHEET 4 OF 8 SHEETS	
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS	Prod.	Pur.
87	PX-334		1	I.F. Terminal Bd, Xtal Filter					1	
88	PX-335		1	Terminal Bd					1	
89	RG20GF100J		1	Resistor, Fixed				R224		1
90	RG20GF220J		1	Resistor, Fixed				R225		1
91	RG20GF174J		1	Resistor, Fixed				R226		1
92	RG20GF100K		2	Resistor, Fixed				R205, 214		1
93	RG20GF104K		6	Resistor, Fixed				R203, 207, 211, 212, 216, 220		1
94	RG20GF121K		1	Resistor, Fixed				R235		1
95	RG20GF220K		3	Resistor, Fixed				R201, 210, 232		1
96	RG20GF221K		2	Resistor, Fixed				R204, 213		
97	RG20GF222K		1	Resistor, Fixed				R221		
98	RG20GF223K		2	Resistor, Fixed				R222, 233		1
99	RG20GF224K		4	Resistor, Fixed				R206, 209, 215, 218		1
100	RG20GF272K		1	Resistor, Fixed				R231		1
101	RG20GF393K		2	Resistor, Fixed				R234, 236		1
102	RG20GF473K		2	Resistor, Fixed				229, 230		1
103	RG20GF474K		4	Resistor, Fixed				R202, 227, 228, 226		1
104	RC30GF473K		1	Resistor, Fixed				R223		1
105	RC42GF473K		2	Resistor, Fixed				R217, R208		1
106	RG-58/U		2-5 3/4"	Cable Coaxial						1
107	RG-108/U		9"	Cable Coaxial						1
107.1	SC-131-0632BN		4	Screw, Undercut Flat Head						1
108	SC-107-1		12	Lug, Spade						1
109	SFB0256SN3		4	Screw, Thread Cutting						1
110	SCBP0256BN4		1	Screw, Machine						1
111	SCBP0440BN3		8	Screw, Machine						1
112	SCBP0440BN4		27	Screw, Machine						1
113	SCBP0440BN5		14	Screw, Machine						1
114	SCBP0440BN8		1	Screw, Machine						1
115	SCBP0632BN5		4	Screw, Machine						1
116	SCB0632BN8		4	Screw, Machine						1
117	SCBP0632SN4		11	Screw, Machine						1
	SCBP0632BN7		5	Screw, Machine						1
118	SCFP0440BN4		21	Screw, Machine						1
119	SGBP0440BN5		1	Screw, Machine						1

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BILL OF MATERIAL		MODEL		PROJ. NO.		LIST NO.	
		FFRD-2		E-458-P		ML- 4126 FFRD-2	
		ISSUE				SHEET	
		A E F G				5 OF 8 SHEETS	
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Prod.	Pur.
120	SCFP0440BN6		8	Screw, Machine			1
121	SCFP0632BN5		6	Screw, Machine			1
122	SCFP0632BN7		7	Screw, Machine			1
123	SCFP0632SN5		4	Screw, Machine			1
124	SCRPO348BN6		8	Screw, Machine			1
125	SCRPO440BN4		10	Screw, Machine			1
126	SCRPO440BN14		2	Screw, Machine			1
127	SM-110	B	3	Bushing			1
128	SM-112		2	Pin Lock			1
129	SM-122		1	Busing, Dial			1
130	SP-102	C	7	Spring Lock			1
131	MWC18(16)U0		X	Wire, Electrical			1
132	MWC22(7)U1		X	Wire, Electrical			1
133	MWC22(7)U2		X	Wire, Electrical			1
134	MWC22(7)U6		X	Wire, Electrical			1
135	MWC22(7)U9		X	Wire, Electrical			1
136	MWC22(7)UPink-1		X	Wire, Electrical			1
137	MWC24(7)SJ9		X	Cable, Insulated, Shielded w/Jacket			1
138	SW-100	A	1	Switch, Rotary	S201		1
139	SW-181	C	1	Switch, Rotary (knob, lockwasher & hex nut supplied by mfg)	S202		1
140	TE-102-2		11	Terminal, Turret			1
141	TE-104-1		3	Terminal, Locking			1
142	TE-104-2		11	Terminal, Locking			1
143	TE-108-2		4	Stand-Off			1
144	TE-109-3		10	Terminal, Lug			1
145	TE-110-1		1	Lug, Solder			1
146	TE-110-2		9	Lug, Solder			1
147	TE-110-3		1	Lug, Solder			1
148	TE-111-2		1	Lug, Solder			1
149	TE-114-1		5	Terminal, Feed Thru			1
150	TE-116-2		2	Lug, Solder			1
151	TE-117-21		25	Stand-Off			1
152	TE-146-3		3	Collar & Lugs			1

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BILL OF MATERIAL				MODEL FFRD-2			PROJ. NO. E-458-P			LIST NO. ML-A-1266 FFRD-2		
				ISSUE						SHEET 6 OF 8 SHEETS		
				A B E F G								
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Prod.	Pur.					
153	TE-116-4		1	Collar & Lugs			1					
154	TE-119-.120		10	Lug			1					
155	TE-115-1		6	Terminal, Turret, Midget Type			1					
	TE-115-1		6	Terminal, Turret			1					
156	TS-102-F01		5	Socket, Min. 7 Pin	XV200, 201, 202, 203, 204		1					
157	TS-102-U02		5	Shield, Tube			1					
158	TS-104-1		1	Socket, Xtal	XY201		1					
159	TS-107-2		1	Socket, Lens	XI201		1					
160	WA- 109-1		16	Washer, Fiber			1					
161	WI-101-2		X	Cable, Shield Flex			1					
162	WI-120-15		X	Wire, #34 DSC			1					
163	WI-104-541SC-QS		X	Wire, Magnet			1					
164	WL-100-7		X	Wire, Buss Bar			1					
165	WL-103-2		X	Shield, Flex			1					

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BILL OF MATERIAL				MODEL	FFRD-2							PROJ. NO.	E-458-P			LIST NO.	ML-12266 FFRD-2		
				ISSUE	A	B	C	D	E	F	G				SHEET	7	OF	8	SHEETS
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION								REMARKS	Prod						
SUPPORTING DRAWINGS																			
166	A-136	B	1	Can, IF									1						
167	A-325	D	1	Plug Assy									1						
168	A-702	B	1	Osc. Coil Sub-Assy									1						
169	A-703		1	Osc. Coil Assy								L200	1						
170	A-704	B	1	Antenna Coil Sub-Assy									1						
171	A-705		1	Antenna Coil Assy								T200	1						
172	A-1266		1	Final Assy (Not Drawn)									1						
173	A-707	A	2	Mixer & R.F. Coil Assembly								T201,202	1						
174	A-1134	A	4	Can									1						
175	A-1147		1	Filter Can Sub Assy									1						
176	A-1247		1	IF Terminal Bd Assy, Xtal Filter									1						
177	A-1248	A	1	IF Transformer, Sub-Assy, Xtal Filter									1						
178	A-1249		1	IF Transformer Assy, Xtal Filter								T203	1						
179	A-1250		1	Terminal Bd Assy, Xtal Filter Output Tank									1						
180	A-1251	B	1	Coil Assy, Xtal Filter Output Tank									1						
181	A-1252		1	Xtal Filter Assy Output Tank								L201	1						
182	A-1256		1	Bottom Cover Assy									1						
183	A-1257		1	Head Frame, Sub Assy									1						
183.1	A-706	C	2	Mixer and R.F. Coil Sub-Assy															
183.2	A-323		4	Shield Assy., Tuning Condenser															
184	CA-143	A	1	Cable, Assy									1						
185	CA-144	A	1	Cable, Assy									1						
186	CA-145	B	2	Cable, Assy									1						
187	CA-146		1	Cable, Assy									1						
188	CA-286	A	1	IF Cable, Xtal Filter									1						
188.1	PM-181		1	Shaft, Lock								(Modified for PM-415)							
189	CK-332	C	1	Schematic Diagram									1						
189.1	CH-102	C	1	Component Color Code															
190	FP-108-1		1	Can (Modify For MS-126)									1						
191	FP-108-2	J	1	Can (Modify For A-1147)									1						
192	FP-108-7		4	Can (Alcoa) P/O A-1134									1						
193	LD-246	A	1	Front Panel Engraving									1						
194	LD-268		1	Dial									1						
194.1	LD-270	B	1	Lettering, Chassis & Top & Btm. Covers									1						
195	LD-270		1	Lettering, Chassis & Top & Btm. Covers															
195.1	PM-415		1	Shaft Lock Knob, Modified								(Modified lever of PM-181)	1						

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