

MAMARONECK, NEW YORK
THE TECHNICAL MATERIEL CORPORATION

BILL OF MATERIAL

MODEL FFRD-3

PROJ. NO. E-458-P

LIST NO. ~~ML-A-1911~~ FFRD-3

ISSUE C D E

SHEET 1 OF 9 SHEETS

ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	SIZE
1.	SLHC0832SN4		2	Screw Set		
2.	BI-101-44		1	Lamp Incandescent	I301	
3.	BS-100		X	Solder, Soft		
4.	CB-129	D	1	Capacitor, Variable	C301	
5.	CC-100-16		20		C304, 305, 306, 307, 308, 312, 313, 314, 315, 319, 321, 325, 326, 327, 335, 337, 339, 344, 345, 346	
6.	CC-101-4		1	Capacitor, Fixed	0336	
7.	CC21SL100D		2	Capacitor, Fixed	C340, 341	
8.	CC21SL300J		2	" "	C311, 318	
9.	CC21SL150J		1	" "	C330	
10.	CC21SL470K		2	" "	C329, 334	
11.	CC35CH121J		1	" "	C333	
12.	CC35CH680J		3	" "	C303, 310, 317	
13.	CC45CH301J		1	" "	C331	
14.	CF-100	B	1	Coil Form		
15.	CF-114-3		4	Coil Form		
16.	CF-117-1.0	B	1	Coil Form		
17.	CI-109-11		3	Core, Ceramic		
18.	CI1103D7B5		4	Core		
19.	CI-114		2	"		
20.	CM20C112J		1	Capacitor, Fixed	C349	
21.	CM20C152G		2	" "	C347, 351	
22.	CM20C561J		2	" "	C348, 350	
23.	CM20D161J		1	" "	C320	
24.	CM20D621J		1	" "	C322	
25.	CM20D681J		1	" "	C324	

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BILL OF MATERIAL		MODEL		PROJ. NO.		LIST NO.		
		FFRD-3		E-458-P		ML- 458 FFRD-3		
		ISSUE				SHEET 2 OF 9 SHEETS		
		C D E						
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION			REMARKS	SIZE
26.	GN-100-4		2	Capacitor, Fixed			C342	
27.	GN-100-4		2	Capacitor, Fixed			C343, C342	
28.	GR-104		1	Xtal (Supplied at Customer's Request)			Y302	
29.	GR-102		1	Xtal			Y301	
30.	CT-104-1		1	Capacitor, Variable			C338	
31.	CU-101-1		4	Ferrule, Inner				
32.	CU-101-2		4	Ferrule, Outer				
33.	CU-101-3		1	Ferrule, Inner				
34.	CU-101-4		1	Ferrule, Outer				
35.	CV11A120		1	Capacitor, Variable			C323	
36.	CV11C450		5	" "			C302, 309, 316, 328, 332	
37.	CV11A120		1	Capacitor, Variable			C323	
38.	EY-100-1		12	Eyelet, Flat Flange				
39.	EY-101-1		5	Eyelet, Rolled Flange				
40.	EY-102-1		3	Grommet, Elastic				
41.	FP-109	C	1	Clamp, Xtal				
42.	FW04HBN		4	Washer, Flat				
43.	GL-103		X	Cement				
44.	GL-104-2		X	Insulex U-85				
45.	HA-102-1BN		2	Handles				
46.	LWI06LRN		12	Washer, Lock				
47.	LWI25LRN		3	" "				
48.	LWI03MRN		3	" "				
49.	LWI04MRN		58	" "				
50.	LWI06MRN		27	" "				

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BILL OF MATERIAL		MODEL		PROJ. NO.		LIST NO.		
		FFRD-3		E-458-P		ML- 2001 FFRD-3		
		ISSUE				SHEET 3 OF 9 SHEETS		
		C D E						
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION			REMARKS	SIZE
51.	LWI08MRN		8	Washer, Lock				
52.	LWS04MRN		10	" "				
53.	MP-100-1		1	Knob, Instrument Type				
54.	MP-100-4		1	" " "				
55.	MP-102-1	B	1	" " "				
56.	MP-102-3		1	" " "				
57.	MS-126	B	1	Can (modify FP-108-1)				
58.	MS-132	C	2	Ground, Strap, IF Core				
59.	MS-170	A	1	Xtal, Bracket				
60.	MS-179	C	1	Dial Blank				
61.	MS-187	B	1	Shield, Plug				
62.	MS-191 (use A-323)		1	Shield, Tuning Cond (no dwg)				
63.	MS-192	C	4	Ground, Strip				
64.	MS-193		2	Lens, Clamp				
65.	MS-342		1	Support, Trimmer				
66.	MS-729 (use A-1134)		4	Can (no dwg)				
67.	MS-748		1	Panel, Front, RF Head				
68.	MS-936		1	Center, Chassis				
69.	MS-750		1	Shield, Front				
70.	MS-751	B	1	Shield, Center				
71.	MS-752		1	Shield, Rear				
72.	MS-908 (use A-1298)		1	Bracket				
73.	MS-910		1	Top, Cover				
74.	MS-935 (use A-1298)		1	Bottom, Cover (no dwg)				
75.	MS-937 (use A-1299)		1	Head, Frame (no dwg)				
76.	NP-134		1	Name Plate, Patent				
77.	NP-XXX		1	Name Plate (see S-278)				

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BILL OF MATERIAL		MODEL		PROJ. NO.		LIST NO.	
		FFRD-3		E-458-P		ML-5131 FFRD-3	
		ISSUE				SHEET	
		A C D E				4 OF 9 SHEETS	
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	SIZE	
78.	NT-102		3	Nut, Hex			
79.	NT-108-2		7	Nut, Speed			
80.	NT-108-3		2	" "			
81.	NT-108-4		6	" "			
82.	NTH0256BN6		3	Nut, Hex			
83.	NTH0440BN6		29	" "			
84.	NTH0440BN8		12	" "			
85.	NTH0632BN8		35	" "			
86.	PL-109		1	Plug, Multi-Coaxial			
87.	PM-415		1	Shaft, Lock	Use PM-181		
87.1	PM-181-L	A	1	Shaft, Lock	(Use PM-415 for lever Modification)		
88.	PX-100-1-188		X	Insulation, Sleeving			
89.	PX-100-1-208		X	" "			
90.	PX-104-1-034		X	" "			
91.	PX-104-1-053		X	" "			
92.	PX-104-1-056		X	" "			
93.	PX-104-2-034		X	" "			
94.	PX-113	A	1	Dial Lens (modifying PM-113)			
95.	PX-334		1	I.F. Terminal Bd, Xtal Filter			
96.	PX-335		1	Terminal Bd.			
97.	RC20GF100J		1	Resistor, Fixed	R324		
98.	RC20GF220J		1	" "	R325		
99.	RC20GF100K		2	" "	R305, 314		
100	RC20GF104K		10	" "	R303, 307, 309, 312, 316, 318, 319, 320, 337, 338		
101	RC20GF121K		1	" "	R335		
102	RC20GF220K		3	" "	R301, 310, 332		
103	RC20GF221K		2	" "	R304, 313		
104	RC20GF222K		1	" "	R321		
105	RC20GF223K		2	" "	R322, 333		
106	RC20GF224K		2	" "	R306, 315		

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BILL OF MATERIAL				MODEL	FFRD-3				PROJ. NO.	E-458-P				LIST NO.	ML-FFRD-3			
				ISSUE	A	C	D	E					SHEET	5	OF	9	SHEETS	
ITEM NO.	PART NO.	DWG	QUAN.	DESCRIPTION					REMARKS				SIZE					
		REV	PER ONE EQUIP.															
107	RC20GF272K		1	Resistor, Fixed					R331									
108	RC20GF393K		2	" "					R334, 336									
109	RC20GF473K		2	" "					R329, 330									
110	RC20GF474K		5	" "					R302, 311, 326, 327, 328									
111	RC30GF473K		1	" "					R323									
112	RC42GF473K		2	" "					R308, 317									
113	RG-58/U		2'11 3/8"	Cable, Coaxial														
114	RG-108/U		9"	" "														
114.1	SC-131-0632BN7		4	Screw, Undercut Flat Head														
115	SC-107-1		12	Lug, Spade														
116	SFB0256SN3		4	Screw, Thread Cutting														
117	SCBP0256BN4		1	Screw, Machine														
118	SCBP0440BN3		8	" "														
119	SCBP0440BN4		27	" "														
120	SCBP0440BN5		14	" "														
121	SCBP0440BN8		1	" "														
122	SCBP0632BN5		4	" "														
123	SCBP0632BN8		4	" "														
124	SCBP0632SN4		11	" "														
	SCBP0632BN7		5	SCREW MACHINE														
125	SCFP0440BN4		11	" "														
126	SCFP0440BN5		3	" "														
127	SCBP0440BN6		7	" "														
128	SCFP0632BN5		6	" "														
129	SCFP0632BN7		7	" "														
130	SCFP0632BN5		4	" "														
131	SCRPO348BN6		8	" "														
132	SCRPO440BN4		10	" "														
133	SCRPO440BN14		2	" "														

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BILL OF MATERIAL				MODEL	FFRD-3	PROJ. NO.	E-458-P	LIST NO.	MI- XXXX FFRD-3
				ISSUE	A C D E	SHEET 6 OF 9 SHEETS			
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	SIZE			
							134	SM-110	B
135	SM-112		2	Pin Lock					
136	SM-122		1	Busing, Dial					
137	SP-102	C	7	Spring Lock					
138	MWC18(16)U02-U-11		X	Wire, Electrical					
139	MWC20(7)U122-U-22		X	Wire, Electrical					
140	MWC22(7)U122-U-66		X	Wire, Electrical					
141	MWC22(7)U222-U-99		X	Wire, Electrical					
142	MWC22(7)U622-U- pink		X	Wire, Electrical					
143	MWC22(7)U90-U-11		X	Wire, Electrical					
144	MWC22(7)UPINKU-00		X	Wire, Electrical					
	MWC24(7)SJ9		X	Cable, Insulated, Shielded w/Jacket					
145	SW-100	A	1	Switch, Rotary	S301				
146	SW-181	C	1	" " (knob, lockwasher & hex nut supplied by mfg.)	S302				
147	TE-102-2		14	Terminal, Turret					
148	TE-104-1		3	Terminal, Locking					
149	TE-104-2		11	" "					
150	TE-108-2		4	Stand-off					
151	TE-109-3		10	Terminal, Lug					
152	TE-110-1		1	Lug, Solder					
153	TE-110-2		9	" "					
154	TE-110-3		1	" "					
155	TE-111-2		1	" "					
156	TE-114-1		5	Terminal, Feed Thru					
157	TE-116-2		2	Lug, Solder					
158	TE-117-21		6	Stand-Off					
159	TE-146-3		3	Collar & Lugs					
160	TE-146-4		1	" " "					
161	TE-149-.120		10	Lug					
162	TE-151-1		6	Terminal Lug					
162.1	TE-115-1		6	Terminal, Turret, Midget Type					

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ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	SIZE
163	TS-102-P01		5	Socket, Min. 7 Pin		
164	TS-102-U02		5	Shield, Tube		
165	TS-104-1		1	Socket, Xtal		
166	TS-107-2		1	Socket, Lens		
167	WA-109-1		16	Washer, Fiber		
168	WI-101-2		X	Cable, Shield Flex		
169	WI-104-541DS-QS		X	Wire, Magnet		
170	WI-104-541SC-QS		X	" "		
171	WL-100-7		X	Wire, Buss Bar		
172	WL-103-2		X	Shield, Flex		

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BILL OF MATERIAL				MODEL	FFRD-3	PROJ. NO.	E-458-P	LIST NO.	ML- FFRD-3 FFRD-3
				ISSUE	CDE	SHEET 8 OF 9 SHEETS			
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS	SIZE
<u>SUPPORTING DRAWINGS</u>									
173	A-136	B	1	Can, IF					
174	A-1134	A	4	Can					
175	A-1147		1	Filter Can Sub-Assy.					
176	A-1247		1	IF Terminal Bb Assy, Xtal Filter					
177	A-1248	A	1	IF Transformer, Sub-Assy, Xtal Filter					
178	A-1249		1	IF Transformer, Assembly, Xtal Filter				T303	
179	A-1250		1	Terminal Bd Assy, Xtal Filter Output Tank					
180	A-1251	B	1	Coil Assy, Xtal Filter Output Tank					
181	A-1252		1	Xtal Filter Assy Output Tank				L301	
182	A-1298		1	Bottom Cover Assembly					
183	A-1299		1	Head Frame, Sub-Assy.					
184	A-1307	B	2	R.F. & Mixer Coil Sub-Assy.					
185	A-1308	B	1	Osc. Coil Sub-Assy					
186	A-1309	A	1	Antenna Coil Sub-Assy					
187	A-1310	A	1	Plug Assembly					
188	A-1311		1	Final Assembly (not drawn)					
189	A-1312		1	Osc. Coil Assembly				L300	
190	A-1313		1	Antenna Coil Assembly				T300	
191	A-1314	A	2	R.F. & Mixer Coil Assembly				T301, 302	
191.1	A-1317	B	2	Coil Assy., Ant. Filter				L302, 303	
192	CA-144	A	1	Cable, Assy					
193	CA-145	B	2	" "					
194	CA-286	A	1	IF Cable, Xtal Filter					
195	CA-303		1	Cable, Assy P/O A-1310					
195.1	CH-102	C	1	Component Color Code					
196	CK-334		1	Schematic Diagram					
197	FP-108-1		1	Can (Modify for MS-126)					
198	FP-108-2	J	1	Can (Modify for A-1147)					
199	FP-108-7		4	Can (Alcoa) P/O A-1134					
200	ID-246	A	1	Front Panel Engraving					
201	ID-270	B	1	Lettering, Chassis & Top & Btm. Covers					
202	ID-295		1	Dial Calibration					

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ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	SIZE
203	PM-181		1	Shaft Lock (Modified for PM-415)		
203.1	PM-415		1	Shaft Lock Knob, Modified	(Modified lever of PM-181)	
203.2	PM-113		1	Advocary (see for PM-113)		
204.1	ID-315-3		1	Top Cover Lettering		
204.2	ID-316-3		1	Bottom Cover Lettering		
204.3	ID-317-3		1	Chassis Lettering		
<u>TUBES</u>						
205	6AG5		4	Tube, Electron	V300, 301, 303, 304	
206	6AU6		1	" "	V302	
<u>SPECIFICATIONS</u>						
	S-404			Yellow Iridite		
207	S-101			Caustic Dip		
208	S-107			Labour		
209	S-114			Zinc Chromate Primer		
210	S-115			Smooth Gray Enamel		
211	S-278			Name Plate Data		
212	S-306			CONVERSION FOR FT-124 CRYSTAL		

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