

BILL OF MATERIAL		MODEL FFRD-1				PROJ. NO. E-458-P				LIST NO. <del>MB-A-1260</del> FFRD-1			
		ISSUE	A	B	C	F	G	H					SHEET 1 OF 8 SHEETS
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Pur.							
1	SLHC0832SN4		2	Screw Set		1							
2	BI-101-1/4		1	Lamp, Incandescent	I101	1							
3	BS-100		X	Solder, Soft		1							
3.1	CC21SL300J	D	2	Capacitor, Fixed	C147, 148	1							
4	CB-129		1	Capacitor, Var.	C101								
4.1	CC21SL300J		2	Capacitor, Fixed	C147, 148								
5	CC21SL100D		3	Capacitor, Fixed	C130, 140, 141								
6	CC21SL470K		2	Capacitor, Fixed	C129, 134								
7	CC21SL820J		2	Capacitor, Fixed	C111, 118								
8	CC32CH101J		1	Capacitor, Fixed	C131								
9	CC35CH680J		3	Capacitor, Fixed	C103, 110, 117								
10	CC45CH151J		1	Capacitor, Fixed	C133								
11	CC-100-16		20	Capacitor, Fixed	C104, 105, 106, 107, 108, 112, 113, 114, 115, 119, 121, 125, 126, 127, 135, 137, 139, 144, 145, 146								
12	CC-101-4			1	Capacitor, Fixed		C136	1					
13	CF-100	B	1	Coil Form		1							
14	CF-117-1.0		1	Coil Form		1							
15	CF-114-3		4	Coil Form		1							
15.1	CII03D7B3		3	Core		1							
16	CII03D7B5		1	Core									
17	GI-109-11		3	Core									
17.1	GM20D621J		1	Cap, Fixed	C122								
18	CM20D161J		1	Capacitor, Fixed	C120-								
19	CM20D681J		1	Capacitor, Fixed	C124								
20	CN-100-4	2	Capacitor, Fixed	C142, 143									
21	CR-104	1	XTAL (Supplied at customer's Request)	Y102									
22	CR-102	1	Xtal	Y101									
23	CT-104-1		1	Capacitor, Variable Air Trimmer	C138	1							
24	CU-101-1		4	Ferrule, Inner		1							
25	CU-101-2		4	Ferrule, Outer		1							
26	CU-101-3		1	Ferrule, Inner		1							

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A.J.J.

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THE TECHNICAL MATERIEL CORPORATION

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BILL OF MATERIAL		MODEL FFRD-1		PROJ. NO. E-458-P		LIST NO. <del>ME-1260</del> FFRD-1	
		ISSUE FGH				SHEET 2 OF 8 SHEETS	
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Pur.	Prod.
27	CU-101-4		1	Ferrule, Outer		1	
28	CV11A120		1	Capacitor, Var.	Cl23	1	
29	CV11C450		5	Capacitor, Var.	Cl02, 109, 116, 128, 132	1	
30	EY-100-1		12	Eyelet, Flat Flange		1	
31	EY-101-1		5	Eyelet, Rolled Flange		1	
32	EY-102-1		3	Grommet, Elastic		1	
33	FP-109	C	1	Clamp, Xtal			1
34	FW04HBN		4	Washer, Flat		1	
35	GL-103		X	Cement		1	
36	GL-104-2		X	Insulex U-85		1	
37	HA-102-1BN		2	Handles		1	
37.1	LWI25LRN		3	Washer, Lock		1	
38	LWIO3MRN		3	Washer, Lock		1	
39	LWIO4MRN		58	Washer, Lock		1	
40	LWIO6MRN		27	Washer, Lock		1	
41	LWIO8MRN		8	Washer, Lock		1	
42	LWIO6LRN		12	Washer, Lock		1	
43	LWSO4MRN		10	Washer, Lock		1	
44	MP-100-1		1	Knob, Instrument Type		1	
45	MP-100-4		1	Knob, Instrument Type		1	
46	MP-102-1	B	1	Knob, Instrument Type		1	
47	MP-102-3		1	Knob, Instrument Type		1	
48	MS-126	B	1	Can (modify FP-108-1)			1
49	MS-132	C	2	Ground, Strap			1
50	MS-170	A	1	Xtal, Bracket			1
51	MS-179	C	1	Dial Blank		1	
52	MS-187	B	1	Shield, Plug			1
53	MS-191 (Use A-323)		1	Shield, Tuning Cond (No Drawing)			1
54	MS-192		4	Ground, Strip			1
55	MS-193		2	Lens, Clamp			1

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BILL OF MATERIAL				MODEL	FFRD-1							PROJ. NO.	E-458-P							LIST NO.	<del>ML-A-1260</del> FFRD-1						
				ISSUE	A	B	C	F	G	H								SHEET	3	OF	8	SHEETS					
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION																	REMARKS	Par.	Prod.				
56	MS-342		1	Support, Trimmer																		1					
57	MS-729 (Use A-1134)		4	Can (No Drawing)																		1					
58	MS-748		1	Panel, Front																		1					
59	MS-749		1	Center, Chassis																		1					
60	MS-750		1	Shield, Front																		1					
61	MS-751	B	1	Shield, Center																		1					
62	MS-752		1	Shield, Rear																		1					
63	MS-908		1	Bracket																		1					
64	MS-909 (Use A-1256)		1	Bottom, cover (No Drawing)																		1					
65	MS-910		1	Top, Cover																		1					
66	MS-911-1 (Use A-1257)		1	Head, Frame (No Drawing)																		1					
67	NP-134		1	Name Plate, Patent																		1					
67.1	NPxxx		1	Name Plate (see S-278)																		1					
68	NT-102		3	Nut, Hex																		1					
69	NT-108-2		7	Nut, Speed																		1					
70	NT-108-3		2	Nut, Speed																		1					
71	NT-108-4		6	Nut, Speed																		1					
72	NTH0256BN6		3	Nut, Hex																		1					
73	NTH0440BN6		29	Nut, Hex																		1					
74	NTH0440BN8		12	Nut, Hex																		1					
75	NTH0632BN8		35	Nut, Hex																		1					
76	PL-109		1	Plug, Multi-Coaxial																		1					
76.1	PM-415		1	<del>Shaft Lock Knob, Modification</del>																	(use PM-181)						
77	PM-181-L	A	1	Shaft, Lock																	(use PM-415 for lever modification)	1					
78	PX-113	A	1	Dial Lens																		1					
79	PX-334		1	I. F. Terminal Bd																		1					
80	PX-335		1	Terminal Bd																		1					
81	PX-100-1-188		X	Insulation, Sleeving																		1					
82	PX-100-1-208		X	Insulation, Sleeving																		1					
83	PX-104-1-034		X	Insulation, Sleeving																		1					
84	PX-104-1-053		X	Insulation, Sleeving																		1					
85	PX-104-1-056		X	Insulation, Sleeving																		1					
86	PX-104-2-034		X	Insulation, Sleeving																		1					

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BILL OF MATERIAL				MODEL	FFRD-1				PROJ. NO.	E-458-P				LIST NO.	M-1260 FFD-1			
				ISSUE	A	B	F	G	H					SHEET	4	OF	8	SHEETS
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION						REMARKS				Pur.				
87	RC20GF100K		2	Resistor, Fixed						R105, 114				1				
88	RC20GF100J		1	Resistor, Fixed						R124				1				
89	RC20GF104K		6	Resistor, Fixed						R103, 107, 111, 112 116, 120				1				
90	RC20GF121K		1	Resistor, Fixed						R135				1				
91	RC20GF220J		1	Resistor, Fixed						R125				1				
92	RC20GF220K		3	Resistor, Fixed						R101, 110, 132,				1				
93	RC20GF221K		2	Resistor, Fixed						R104, 113				1				
94	RC20GF222K		1	Resistor, Fixed						R121				1				
95	RC20GF223K		2	Resistor, Fixed						R122, 133				1				
96	RC20GF224K		2	Resistor, Fixed						R106, 115				1				
97	RC20GF272K		1	Resistor, Fixed						R131				1				
98	RC20GF274K		2	Resistor, Fixed						R109, 118				1				
99	RC20GF393K		2	Resistor, Fixed						R134, 136				1				
100	RC20GF473K		2	Resistor, Fixed						R129, 130				1				
101	RC20GF474K		4	Resistor, Fixed						R102, 126, 127, 128				1				
101	RC32GF473K		1	Resistor, Fixed						R123				1				
102	RC42GF473K		2	Resistor, Fixed						R108, 117				1				
103	RC-58/U		2'-53/4"	Cable, Coaxial										1				
104	RG-108/U		9"	Cable, Coaxial										1				
104	1 SC-131-0632BN7		4	Screw, Undercut Flat Head										1				
105	SC-107-1		12	Lug, Spade										1				
106	SFB0256SN3		4	Screw, Thread cutting										1				
107	SCBP0256BN4		1	Screw, Machine										1				
108	SCBP0440BN3		8	Screw, Machine										1				
109	SCBP0440BN4		27	Screw, Machine										1				
110	SCBP0440BN5		14	Screw, Machine										1				
111	SCBP0440BN8		1	Screw, Machine										1				
112	SCFP0632BN5		4	Screw, Machine										1				
113	SCBP0632BN8		4	Screw, Machine										1				
114	SCBP0632BN7		8	Screw, Machine										1				
114	SCBP0632SN4		11	Screw, Machine										1				
115	SCFP0440BN4		2	Screw, Machine										1				
116	SCBP0440BN5		1	Screw, Machine										1				
117	SCBP0440BN6		8	Screw, Machine										1				

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BILL OF MATERIAL			MODEL	PROJ. NO.	LIST NO.	
			FFRD-1	E-458-P	ME-A-1260 FFRD-1	
			ISSUE		SHEET 5 OF 8 SHEETS	
			A B P G H			
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Par.
118	SCFP0632BN7		4	Screw, Machine		1
119	SCFP0632BN5		6	Screw, Machine		1
120	SCFP0632SN5		4	Screw, Machine		1
121	SCRPO348BN6		8	Screw, Machine		1
122	SCRPO440BN4		10	Screw, Machine		1
123	SCRPO440BN14		2	Screw, Machine		1
124	SM-110	B	3	Bushing		1
125	SM-112		2	Pin Lock		1
126	SM-122		1	Bushing, Dial		1
127	SP-102	C	7	Spring Lock		1
128	MWC18(16)U0-U-31		X	Wire, Electrical		1
130	MWC22(7)U122-U-22		X	Wire, Electrical		1
131	MWC22(7)U22-U-66		X	Wire, Electrical		1
132	MWC22(7)U622-U-99		X	Wire, Electrical		1
133	MWC22(7)U922-U-Pink		X	Wire, Electrical		1
134	MWC22(7)UPink-11		X	Wire, Electrical		1
135	MWC24(7)SJ9-U-00		X	Cable, Insulated, Shielded w/Jacket		1
136	SW-100	A	1	Switch, Rotary	S101	1
137	SW-181	C	1	Switch, Rotary (knob, lockwasher & hex nut supplied by mfg)	S102	1
138	TE-102-2		11	Terminal, Turret		1
139	TE-104-1		3	Terminal, Turret		1
140	TE-104-2		11	Terminal, Turret		1
141	TE-108-2		4	Stand-Off		1
142	TE-109-3		10	Terminal, Lug		1
143	TE-110-1		1	Lug, Solder		1
144	TE-110-2		9	Lug, Solder		1
145	TE-110-3		1	Lug, Solder		1
146	TE-111-2		1	Lug, Solder		1
147	TE-114-2		5	Terminal, Feed Thru		1
148	TE-116-2		2	Lug, Solder		1
149	TE-117-21		25	Stand off		1
150	TE-146-3		2	Collar & Lugs		1
151	TE-146-4		1	Collar & Lugs		1

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BILL OF MATERIAL			MODEL	PROJ. NO.	LIST NO.	
ITEM NO.	PART NO.	DWG REV	ISSUE		SHEET	
			FFRD-1	E-458-P	<del>M-1260</del> FFRD-1	
			A F G H		6 OF 8 SHEETS	
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Par.
152	TE-149-.120		10	Lug		1
153	TE-115-1		6	Terminal, Turret, Midget type		1
154	TS-102-P01		5	Socket, Min. 7 Pin	XV100,101,102,103,104	1
155	TS-102-U02		5	Shield, Tube		1
156	TS-104-1		1	Socket, Xtal	XY101	1
157	TS-107-2		1	Socket, Lens	XI101	1
158	WA-109-1		16	Washer, Fiber		1
159	WI-101-2		X	Cable, Shield Flex		1
160	WI-120-15		X	Wire, #34 DSC		1
161	WI-104-54LSC-QS		X	Wire, Magnet		1
162	WL-100-7		X	Wire, Buss Bar		1
163	WL-103-2		X	Shield, Flex		1

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THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK

BILL OF MATERIAL

MODEL FFRD-1

PROJ. NO. E-458-P

LIST NO. ~~10-1260~~ FFRD-1

ISSUE A F G H

SHEET 7 OF 8 SHEETS

ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	Pur.
				<u>TUBES</u>		
195	6AG5		4	Tube, Electron	V100, 101, 103, 104	1
196	6AU6A		1	Tube, Electron	V102	1
				<u>SPECIFICATIONS</u>		
				<u>SPECIFICATIONS:</u>		
	S-404			Yellow Iridite		
197	S-101			Acoustic Tap		
198	S-102			Lacquer		
199	S-114			Zinc Chromate Primer		
200	S-115			Smooth Gray Enamel		
201	S-278			Name Plate Data		
202	S-306			CONVERSION FOR FT-124 CRYSTAL		

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BILL OF MATERIAL				MODEL FFRD-1		PROJ. NO. E-458-P		LIST NO. <del>MS-1260</del> FFRD-1	
				ISSUE		A B C D E F G H		SHEET 8 OF 8 SHEETS	
ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS	Pur.
SUPPORTING DRAWINGS									
164	A-136	B	1	Case IF					
165	A-325	D	1	Plug Assy					
166	A-1134	A	4	Can Assy. <del>al Bd Assy</del>					
167	A-1147		1	Filter Can Sub Assy					
168	A-1247		1	IF Terminal Bd Assy, Xtal Filter					
169	A-1248	A	1	IF Transformer, Sub-Assy, Xtal Filter					
170	A-1249		1	IF Transformer Assy, Xtal Filter				T-103	
171	A-1250		1	Terminal Bd Assy, Xtal Filter Output Tank					
172	A-1251	B	1	Coil Assy, L101, Xtal Filter Output Tank					
173	A-1252		1	Xtal Filter Assy Output Tank				L-101	
174	A-1255	B	1	OSC. Coil Sub-Assembly					
175	A-1256		1	Bottom Cover Assy					
176	A-1257		1	Head Frame, Sub Assy					
177	A-1258	C	1	Antenna Coil Sub-Assembly					
178	A-1259	C	2	Mixer & R.F. Coil Sub-Assembly					
179	A-1260		1	Final Assy (Not Drawn)					
180	A-1262		1	Antenna Coil Assy				T100	
181	A-1263		1	OSC. Coil Assy				L100	
182	A-1264	A	2	Mixer & R.F. Coil Assembly				T102,101	
182.1	CH-102	C		Component Color Code					
183	CA-143	A	1	Cable, Assy					
184	CA-144	A	1	Cable, Assy					
185	CA-145	B	2	Cable, Assy					
186	CA-146		1	Cable, Assy					
187	CA-286	A	1	Cable, Assy Xtal Filter IF					
<del>187.1</del>	<del>PM-181</del>		<del>1</del>	<del>Shaft, Lock</del>				<del>(Modified for PM-415)</del>	
188			1	<del>Part Assembly for PM-181</del>					
189	CK-329	A	1	Schematic Diagram					1
189.1	PM-415		1	Shaft Lock Knob, Modified				(Modified lever of PM-181)	
190	FP-108-1		1	Can (Modify For MS-126)				Modification)	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
192.1	ID-270	B	1	Chassis & Cover Lettering					
193	LD-246	A	1	Front Panel Engraving					1
194	LD-267		1	Dial					1
194.1	ID-315-1		1	Top Cover, Lettering					
194.2	ID-316-1		1	Bottom Cover Lettering					

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MAMARONECK, NEW YORK

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THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK

BILL OF MATERIAL

MODEL **FFRD-1**

PROJ. NO. **E-458 P**

LIST NO. ~~100-1260~~ **FFRD-1**

ISSUE **F G H**

SHEET **8** a OF **8** SHEETS

ITEM NO.	PART NO.	DWG REV	QUAN. PER ONE EQUIP.	DESCRIPTION	REMARKS	SIZE
<del>SUPPORTING DRAWINGS</del>						
195.	ID-317-1		1	Chassis Lettering		

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REVISION SHEET

FFRD-1

MODEL

DATE	REV.	PAGE	ITEM	DESCRIPTION	REMARKS	APP.
5/8/56	A	8	186	Deleted	PLK } ADD	
"	A	8	185	Was 1 Req.	PLK	
5/18/56	A	3	76.1	Added	} 5/21/56 WDC	
"	A	3	77	Transferred to SUPPORTING DWGS (No. 187.1) (Rev. B-Pg. 8)		
6/1/56	A	1	3.1	Added	} P.L.X.	
"	B	3	67.1	Added		
"	A	6	153	Was TE-151-1 (typographical error)		
"	A	7	-	Specifications put in		
"	C	8	174	Was Osc. Coil Assy		
"	C	8	177	Was Antenna Coil Assy		
"	C	8	178	Was 1st & 2nd RF Coil Assy		
"	C	8	180	T100 added in Remarks Column		ADD
"	C	8	181	L100 " " "		
"	C	8	182	was 1st & 2nd RF Coil Assy--T102, T101 added in Rem. Col.		
"	C	8	182.1	Added		
6/7/56	B	1	11	Was 17 req. (144, 145, 146 added in Remarks)	} WDC, P.L.X. ASJ	
"	B	1	4.1	Added		
"	A	4	101.1	Added		
7/30/56	C	3	76.1	Transferred to SUPPORTING DWGS - 189.1 (PM-415)	} WDC	
"	C	3	77	Transferred back from SUPPORTING dwgs. (PM-181)		
9/10/56	C	1	15.1	CII03D7B3 added	} P.L.X.	
"	C	1	16	CII03D7B5 was 4 required		
11/9/56	B	4	104.1	SC-131-0632BC7 added	} WDC	
1/21/57	A	5	149.	TE-117-21 quantity increased from 21 to 25		
2/7/57	B	5	147.	TE-114-2 was TE-114-1	} WDC	
7/22/57	E	8	192.1	ID-270 added		
"	E	8	194.1	ID-315-1 added	} WDC	
"	E	8	194.2	ID-316-1 added		
"	E	8a	195.	ID-317-1 added (also 8a is a new page)		
5/11/63	F	5	8541	Chg. "SRIR" preface on wire part No's. to "MWC"	} 16	
"	"	"	"	Add MWC24(7)SJ9		
2/20/64	G	--	10777	Revised Sheets 1,2,3,4,5 and 7 per EMN.	} 16	
11/9/64	H	3,4,		Revised Sheets 3,4,7,8 per EMN		
"	"	7,8	12846		WDC	