

USED ON	
MODEL	SECTION
HFR-1	

HFR-1/T	2
LIST NO.	REV.

FRONT PANEL AND TUNER ASSEMBLY
(TITLE)

LIST SECTIONS

- | | |
|----------------------------|----------------|
| 1. SUPPORTING LISTS | (NONE REQ.) |
| 2. ELECTRICAL / MECHANICAL | (SH. 1-23) |
| 3. TUBES / DIODES | (SH. 24) |
| 4. HARDWARE | (SH. 25-34) |
| 5. RAW MATERIALS | (SH. 35-38) |
| 6. SUPPORTING DRAWINGS | (SH. 39-43) |
| 7. SPECIFICATIONS | (SH. 44) |
| 8. LOOSE ITEMS | (SEE HFR-1 ML) |
| 9. PARTS PECULIAR | (SH. 45) |

(MISSING L & T SYM.)

LAST SYMBOLS

A1017 S1002
C1099 T1009
C1196 V1007
CR1001 XDS1005
DS1005 XV1007=
J1003
K1001
L1062
M1002
P1004
R1055

MISSING SYMBOLS

C1111
C1195
R1006
R1021

TYPED _____ 10/8/62
CHECKED *J.M. Turner*
APPROVED *16* 2/13/63

MATERIAL LIST

REV.

A B C D E F G H J K L

MODEL

HFR-1/T

SHEET

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OF

45

QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
1	A-2380-1	Machining, Terminal Board, RF Stator		A-2380-2		1	
1	A-2381-1	Machining, Terminal Board, Osc. Stator		A-2381-2		1	
2	BB-117-6	Bushing, Nylon		A-3058		2	
2	BB-118-3	Bearing, Flange Tye		MS-2991		1	
				MS-2992		1	
7	BB-126-3	Bearing, Race		A-3051		2	
				A-3057		5	
4	BB-126-4	Bearing, Race		PM-793		1	
				PM-798		2	
6	BB-126-5	Bearing, Race		PM-803		1	
				MS-2993		1	
				PM-773		1	
				PM-797		2	
1	BB-127	Bearing		PM-798		2	
4	BI-101-44 (AF)	Lamp, Incandescent		PM-803		1	
				AX-359		3	DS1002, 1003, 1004
1	BI-111-1	Lamp, Neon		AX-359		1	DS1005
				A-3057		1	DS1001
1	CB-162	Capacitor, Tuning, Osc.		A-3042		1	C1002A, B
1	CB-163	Capacitor, Tuning, RF		A-3042		1	C1001A, B, C, D, E, F C1001G, H
1	CC21SL030G	Capacitor, Fixed, Ceramic		AX-376		1	C1194

MATERIAL LIST		REV.	ABC	DEF	GHI	JKL								MODEL	HFR-1/T		
														SHEET	2	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
9	CC-100-15	Capacitor, Fixed, Ceramic, Disc, .005 uf		A-2522		3	C1012,1020,1028										
				AX-3622		3	C1058,1062,1066										
				AX-364		3	C1097,1101,1105										
16	CC-100-16	Capacitor, Fixed, Ceramic, Disc, .01 uf		A-3041		1	C1003										
				A-2522		3	C1004,1006,1007										
				A-2522		3	C1008,1011,1014										
				A-2522		3	C1019,1022,1027										
				A-2522		1	C1029										
				A-2521		3	C1038,1039,1040										
				A-2521		2	C1041,1052										
8	CC-100-24	Capacitor, Fixed, Ceramic, Disc, .02 uf		AX-361		3	C1013,1021,1030										
				A-2521		1	C1055										
				AX-363		3	C1078,1082,1086										
				A-2522		1	C1037										
3	CC-100-29	Capacitor, Fixed, Ceramic, Disc, .001 uf		A-2522		3	C1018,1026,1036										
1	CC-100-35	Capacitor, Fixed, Ceramic, Disc, .02 uf		A-2522		1	C1005										
1	CE-107-1	Capacitor, Fixed, Electrolytic		A-2521		1	C1035										
6	CF-134-5-0	Form, Coil, Ceramic	Green	AX-368		4											
				AX-375		1											
				AX-376		1											

MATERIAL LIST		REV.	ABC	DEF	FGH	JKL	MODEL	HFR-1/T	
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS		
				USED ON	USED TO MOUNT	QUAN.			
33	CF-134-5-E	Form, Coil, Ceramic	Red	AC-164		4			
				AC-165		3			
				AC-168		1			
				AC-169		3			
				AC-170		1			
				AX-363		4			
				AX-364		4			
				AX-365		4			
				AX-366		4			
				AX-367		4			
				AX-374		1			
				TT-194		1			
36	CI-120-1	Bead, Toroid NOTE: <u>Each symbol designates six beads.</u> <u>Each bead will be called out by;</u> <u>.1,.2,.3,.4,.5,.6</u>		A-2521		12	L1057,1058		
				A-2522		18	L1059,1060,1061		
				A-2522		6	L1062		

MATERIAL LIST		REV.	A B C D E F G H I J K L												MODEL	HFR-1/T		
															SHEET	4	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS											
				USED ON	USED TO MOUNT	QUAN.												
40	CI-127-1	Core, Toroid		A-2476		3												
				A-2477		3												
				A-2478		3												
				A-2479		3												
				A-2480		3												
				A-2481		3												
				A-2482		2												
				A-2484		1												
				CL-296		3												
				CL-297		3												
				CL-298		1												
				CL-299		1												
				CL-300		1												
				CL-301		1												
				CL-302		1												
				TZ-108		1												
				TZ-109		1												
				TZ-110		1												
				TZ-111		1												
				TZ-112		1												
				TZ-113		1												
				TZ-114		1												
				TZ-115		1												
1	CJ-103-53	Chain Ladder		A-3075		1												
1	CL-275-1R0	Coil, Fixed, RF, 1 uh		A-2521		1	L1011											
4	CL-275-101	Coil, Fixed, RF, 100 uh		A-2522		3	L1002, 1003, 1010											
				A-2522		1	L1056											
1	CM15B050M	Capacitor, Fixed, Mica		AX-375		1	C1173											
2	CM15B100K	Capacitor, Fixed, Mica		AX-2521		1	C1053											
				AX-374		1	C1152											

MATERIAL LIST		REV.	A B C D E F G H J K L													MODEL	HFR-1/T	
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS											
				USED ON	USED TO MOUNT	QUAN.												
2	CM15B150K	Capacitor, Fixed, Mica		AX-373		1	C1133											
1	CM15B180K	Capacitor, Fixed, Mica		AX-368		1	C1179											
1	CM15C220J	Capacitor, Fixed, Mica		AX-366		1	C1135											
1				A-2521		1	C1048											
6	CM15C240J	Capacitor, Fixed, Mica		AX-372		1	C1114											
				AX-365		1	C1116											
				AX-367		2	C1162, 1167											
				AX-368		2	C1183, 1188											
1	CM15C270J	Capacitor, Fixed, Mica		AX-367		1	C1157											
1	CM15C300J	Capacitor, Fixed, Mica		AX-376		1	C1192, 1191											
2	CM15C360J	Capacitor, Fixed, Mica		AX-375		1	C1171											
				AX-368		1	C1196											
3	CM15C390J	Capacitor, Fixed, Mica		AX-365		3	C1119, 1123, 1127											
3	CM15C470J	Capacitor, Fixed, Mica		AX-369		1	C1054											
				AX-370		1	C1075											
				AX-371		1	C1094											
				AX-365		1	C1114											
1	CM15C560G	Capacitor, Fixed, Mica		AX-373		1	C1131											
10	CM15C820G	Capacitor, Fixed, Mica		AX-361		3	C1010, 1017, 1025											
				AX-361		1	C1032											
				AX-363		3	C1077, 1080, 1084											
				AX-363		1	C1088											
				AX-364		1	C1096											
				AX-367		1	C1158											

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	I	J	K	L	MODEL	HFR-1/T		
															SHEET	6	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS											
				USED ON	USED TO MOUNT	QUAN.												
3	CM15F101G	Capacitor, Fixed, Mica		AX-362		1	C1057											
				AX-371		1	C1092											
				AX-366		1	C1138											
3	CM15F111G	Capacitor, Fixed, Mica		AX-369		1	C1046											
				AX-374		1	C1150											
				AX-368		1	C1178											
1	CM15F131G	Capacitor, Fixed, Mica		AX-375		1	C1170											
4	CM15F151G	Capacitor, Fixed, Mica		AX-368		2	C1184, 1189											
				AX-376		2	C1190, 1191											
7	CM15F161G	Capacitor, Fixed, Mica		AX-362		3	C1060, 1064, 1068											
				AX-364		2	C1103, 1107											
				AX-367		2	C1163, 1168											
2	CM15F181G	Capacitor, Fixed, Mica		AX-364		1	C1099											
				AX-372		1	C1112											
1	CM15F201G	Capacitor, Fixed, Mica		AX-370		1	C1074											
1	CM15F221G	Capacitor, Fixed, Mica		AX-375		1	C1169											
5	CM15F331G	Capacitor, Fixed, Mica		AX-373		1	C1130											
				AX-374		1	C1149											
				AX-368		3	C1177, 1182, 1187											
3	CM15F431G	Capacitor, Fixed, Mica		AX-367		3	C1156, 1161, 1166											
3	CM15F471G	Capacitor, Fixed, Mica		AX-369		2	C1043, 1045											
				AX-365		1	C1120											
2	CM15F511G	Capacitor, Fixed, Mica		AX-373		1	C1129											
				AX-366		1	C1139											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	7	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
2	CM15F910G	Capacitor, Fixed, Mica		AX-366		2	C1142, 1146										
1	CM20F102G	Capacitor, Fixed, Mica		AX-364		1	C1100										
1	CM20F152G	Capacitor, Fixed, Mica		AX-370		1	C1071										
1	CM20F561G	Capacitor, Fixed, Mica		AX-374		1	C1148										
3	CM20F681G	Capacitor, Fixed, Mica		AX-371		1	C1090										
				AX-365		2	C1124, 1128=										
3	CM20F751G	Capacitor, Fixed, Mica		AX-370		1	C1072										
				AX-366		2	C1143, 1147										
5	CM20F821G	Capacitor, Fixed, Mica		AX-361		1	C1033										
				AX-369		1	C1044										
				AX-370		1	C1070										
				AX-371		1	C1091										
				AX-372		1	C1110										
1	CM20F911G	Capacitor, Fixed, Mica		AX-372		1	C1109										
7	CM30F152G	Capacitor, Fixed, Mica		AX-363		1	C1081										
				AX-365		3	C1117, 1121, 1125										
				AX-366		3	C1136, 1140, 1144										
6	CM30F162G	Capacitor, Fixed, Mica		AX-367		3	C1154, 1159, 1164										
				AX-368		3	C1175, 1180, 1185										
2	CM30F182G	Capacitor, Fixed, Mica		AX-364		2	C1104, 1108										
2	CM30F202G	Capacitor, Fixed, Mica		AX-363		2	C1085, 1089										

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST

REV.

A B C D E F G H J K L

MODEL

HFR-1/T

SHEET

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OF

45

QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
2	CM30F222G	Capacitor, Fixed, Mica		AX-361		2	C1016, 1024
1	CM30F222G	Capacitor, Fixed, Mica		AX-362		1	C1061, 1065, 1069
1	CM112F102G5S	Capacitor, Fixed, Mica		A-2521		1	C1042
5	CM112F202G5S	Capacitor, Fixed, Mica		A-2522		1	C1034
				A-2521		1	C1050
4	CU-139-2B	Ferrule, Handle		AX-362		3	C1061, 1065, 1069
5	CV-108-2	Capacitor, Variable, Piston Type, 1-12 uf		A-3057		4	
				AX-375		1	C1172
				AX-368		3	C1176, 1181, 1186
				AX-376		1	C1193

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	9	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
35	CV-108-3	Capacitor, Variable, Piston Type, 1-18 uf		AX-361		3	C1009,1015,1023										
				AX-361		1	C1031										
				AX-369		1	C1047										
				AX-362		3	C1056,1059,1063										
				AX-362		1	C1067										
				AX-370		1	C1073										
				AX-363		3	C1076,1079,1083										
				AX-363		1	C1087										
				AX-371		1	C1093										
				AX-364		3	C1095,1098,1102										
				AX-364		1	C1106										
				AX-372		1	C1113										
				AX-365		3	C1115,1118,1122										
				AX-365		1	C1126										
				AX-373		1	C1132										
				AX-366		3	C1134,1137,1141										
				AX-366		1	C1145										
				AX-374		1	C1151										
				AX-367		3	C1153,1155,1160										
				AX-367		1	C1165										
				AX-368		1	C1174										
1	CX-106-11	Capacitor, Variable, Silicon		A-2521		1	C1051										
1	CX-106-12	Capacitor, Variable, Silicon		A-2521		1	C1049										
1	EY-102-2	Grommet, Elastic		A-2522		1											
1	EY-102-4	Grommet, Elastic		A-2521		1											
1	EY-102-16	Grommet, Elastic		A-2521		1											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST

REV.

A B C D E F G H I J K L

MODEL HFR-1/T

SHEET 10 OF 45

QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
40	FW-101-1	Washer, Flat, Nylon		AX-361		4	
				AX-362		4	
				AX-363		4	
				AX-364		4	
				AX-365		4	
				AX-366		4	
				AX-367		4	
				AX-368		4	
				AX-369		1	
				AX-370		1	
				AX-371		1	
				AX-372		1	
				AX-373		1	
				AX-374		1	
				AX-375		1	
				AX-376		1	
1	GR-176	Gear, Spur, 3.000 P.D.		A-3051		1	
1	GR-177	Gear, Spur, Hubless, 3.000 P.D.		A-3051		1	
2	GR-178	Gear, Spur, Anti-Backlash, .6666 P.D.		A-3051		2	
1	GR-179	Gear, Spur, Anti-Backlash, 3.000 P.D.		A-3051		1	
1	GR-181	Gear, Spur, 3.000 P.D.		A-3058		1	
1 set	GR-183	Gear, Set, Bevel, .625 P.D.		A-3058		1	
1	GR-184	Sprocket, Wheel, 24 Teeth		A-3075		1	
1	GR-185	Gear Shaft, Pinion, .1250 P.D.		A-3051		1	
1	GR-186	Gear Shaft, Pinion, .375 P.D.		A-3058		1	

THE TECHNICAL MATERIEL CORPORATION

TMC FORM ML-1, OGILVIE PRESS, INC. NO. 459M TYPEMASTER

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	11	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
1	GR-187	Sprocket, Wheel, 24 Teeth		A-3058		1											
2	HA-102-10BN	Handle		A-3057		2											
1	IM-206-1	Insulation, Heat Barrier		A-2532		1											
1	IM-206-2	Insulation, Heat Barrier		A-2532		1											
1	IM-207-1	Insulation, Plate, Front		A-3042		1											
1	IM-208-1	Insulation, Plate, Rear		A-3042		1											
1	IM-209	Insulation, Sideplate, Upper Left		A-2532		1											
1	IM-210-1	Insulation, Sideplate, Lower Right		A-2532		1											
1	IM-210-2	Insulation, Sideplate, Lower Left		A-2532		1											
2	JJ-211	Connector, Receptacle		A-3041		1	J1002										
				A-2522		1	J1003										
2	MP-123-5FB	Knob, Instrument		A-3074		2											
2	MP-123-10NB	Knob, Instrument		A-3074		2											
1	MP-125-1	Knob, Instrument		A-3074		1											
1	MR-160	Meter, Field Strength		A-3057		1	M1001=										
1	MR-161	Meter, Phase Comparator		A-3057		1	M1002										
4	MS-783-2-30-S	Strap, Connecting		A-2522		4											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	ABCDEFGHIJKL	MODEL	HFR-1/T		
QUAN. PER UNIT	PART NO.	DESCRIPTION	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
		ELECTRICAL/MECHANICAL					
1	MS-2857	Plate, Mounting, Dowel Pin		A-3042		1	
1	MS-2859	Bracket, Mounting, Ant. Input	LD-1129	A-3041		1	
1	MS-2869	Cover, Oven Wraparound		A-2532		1	
1	MS-2870	Cover, RF		A-2532		1	
1	MS-2871	Cover, Oven, Inside		RR-131		1	
1	MS-2872	Plate, Mounting, RF Sec., #4		A-3042		1	
1	MS-2873	Cover, Oven, Outside, Top		A-2532		1	
1	MS-2874	Plate, Mounting, RF Sec., #5		A-3042		1	
1	MS-2875	Plate, Mounting, Osc. Sec., #2		A-3042		1	
1	MS-2876	Plate, Mounting, Osc. Sec., #3		A-3042		1	
1	MS-2877	Plate, Mounting, Osc. Sec., #1		A-3042		1	
1	MS-2890	Cover, Oven, Inside, Top		A-2532		1	
1	MS-2891	Chassis, Main, RF	LD-1112	A-2340		1	
1	MS-2892	Chassis, Oscillator		A-2343		1	
5	MS-2893	Chassis, Baffle, RF		A-2340		5	
1	MS-2894	Chassis, Baffle, Osc., #1		A-2343		1	
1	MS-2895	Chassis, Baffle, Osc., #2		A-2343		1	
1	MS-2896	Cover, RF Assembly, #2		A-2532		1	

MATERIAL LIST		REV.	ABCDEFGHIJKLM	MODEL	HFR-1/T		
				SHEET	13	OF 45	
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
32	MS-2897	Strap, Ground, 7/16" Wide		AX-361		4	
				AX-362		4	
				AX-363		4	
				AX-364		4	
				AX-365		4	
				AX-366		4	
				AX-367		4	
				AX-368		4	
43	MS-2901	Contact, Switch		A-2380-2		24	
				A-2381-2		6	
				A-2521		1	
				A-2522		4	
				A-2532		8	
1	MS-2906	Panel, Front	LD-1062	A-3057		1	
1	MS-2989	Shield, Baffle		A-2522		1	
1	MS-2991	Bracket, Bevel Support, #1		A-3058		1	
1	MS-2992	Bracket, Bevel Support, #2		A-3058		1	
1	MS-2993	Plate, Shaft Support, #1		A-3058		1	
1	MS-2997	Strap, Adjustable		AX-377		1	
1	MS-3000	Cover, RF		A-2532		1	

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	14	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
40	NT-137-0632	Nut, Nylon		AX-361		40											
				AX-362		4											
				AX-363		4											
				AX-364		4											
				AX-365		4											
				AX-366		4											
				AX-367		4											
				AX-368		4											
				AX-369		1											
				AX-370		1											
				AX-371		1											
				AX-372		1											
				AX-373		1											
				AX-374		1											
				AX-375		1											
				AX-376		1											
3	PL-204	Connector, Plug, Miniature		A-2521		3	P1001,1002,1003										
1	PL-228-2P	Connector, Plug		A-2532		1	P1004										
4	PM-746	Spacer, Sleeve		A-3042		4											
8	PM-747	Spacer, Shoulder		A-3042		8											
1	PM-748	Spacer, Tie Rod		A-2340		1											
1	PM-749-1	Spacer, Sleeve		A-3042		1											
2	PM-749-2	Spacer, Sleeve		A-3042		2											
3	PM-750	Support, Bar Plate		A-3042		3											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A B C D E F G H J K L												MODEL	HFR-1/T	
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
1	PM-751	Support, Bar Plate, Top Left		A-3042		1											
1	PM-752	Spacer, Tie Rod		A-2343		1											
1	PM-753	Shaft, Rotor		A-3042		1											
5	PM-754	Support, Bar, Cover		A-2532		5											
7	PM-755	Separator, Disc		A-3042		7											
2	PM-756																
2	PM-757	Stud, Hexagon		A-3042		2											
2	PM-758	Nut, Bearing		A-3042		2											
1	PM-759	Barnut, Front		A-3042		1											
30	PM-760	Plate, Nut		A-2380-2		24											
				A-2381-2		6											
3	PM-761	Barnut		A-3042		3											
2	PM-762	Support, Bar		A-3042		2											
2	PM-763	Support, Bar		A-3042		2											
1	PM-767-1	Hub, Gear, Bandswitch		A-3042		1											
1	PM-767-2	Hub, Gear, Bandswitch		A-3042		1											
1	PM-773	Plate, Flywheel Support		A-3051		1											
1	PM-774	Shaft, Gear Mounting		A-3058		1											
2	PM-775	Holder, Light Indicator		AX-359		2											

THE TECHNICAL MATERIEL CORPORATION

TMC FORM ML-1, OGILVIE PRESS, INC. NO. 459M TYPEMASTER

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	16	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
2	PM-778	Bracket, Dial		A-3075		2											
1	PM-779	Escution, Plate		A-3057		1											
1	PM-780-1	Coupler, Shaft		A-3042		1											
1	PM-780-2	Coupler, Shaft		A-3042		1											
1	PM-780-3	Coupler, Shaft		A-3042		1											
1	PM-781	Indicator, Track & Slide		A-3057		1											
	PM-782	Plate, Shaft Support, #2		A-3051		1											
1	PM-783	Housing, Slide Indicator		AX-378		1											
1	PM-784	Bushing, Cylinder Mounting		A-3075		1											
2	PM-785	Collar, Shaft Mounting		A-3058		2											
4	PM-786-2	Collar, Shaft Mounting		A-3051		3											
				AX-377		1											
5	PM-786-3	Collar, Shaft Mounting		A-3051		3											
				A-3058		2											
1	PM-787	Cam, Control, Detent		A-3058		1											
1	PM-791	Collar, Slip Clutch		A-3051		1											
1	PM-792	Shaft, Stepped		A-3058		1											
1	PM-793	Plate, Shaft Support, #2		A-3051		1											
1	PM-794	Wheel, Inertia		A-3051		1											
1	PM-795	Bushing, Cylinder Mounting		A-3075		1											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	17	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
1	PM-797	Plate, Front, #1		A-3058		1											
1	PM-798	Plate, Front, #2		A-3051		1											
1	PM-799	Slide, Wheel Locking		A-3051		1											
1	PM-800	Rod, Wheel Locking		AX-377		1											
1	PM-801	Coupler, Rod Mounting		AX-377		1											
1	PM-802	Plate, Rear, #1		A-3058		1											
1	PM-803	Plate, Rear, #2		A-3051		1											
1	PM-804-1	Shaft, Straight		A-3135		1											
2	PM-804-2	Shaft, Straight		A-3051		2											
1	PM-805	Cover, Slide Indicator		AX-378		1											
1	PM-806	Bracket, Wing		AX-378		1											
1	PM-807	Housing, Wheel Locking		A-3051		1											
3	PM-808	Spacer, Panel Mounting		A-3057		3											
1	PM-814	Roller, Detent		AX-360		1											
1	PN59-062-9	Pin, Roll		A-3135		1											
2	PN79-062-12	Pin, Roll		A-3051		1											
				AX-377		1											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	I	J	K	L	MODEL	HFR-1/T		
															SHEET	18	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS											
				USED ON	USED TO MOUNT	QUAN.												
1	PN-114-2	Pin, Groove		A-3058		1												
1	PN-116-B-5-S	Pin, Dowel		MS-2857		1												
1	PN-116-B-6-S	Pin, Dowel																
1	PN-116-B-7-S	Pin, Dowel																
9	PN-117	Pin, Dowel, Straight		PM-780-1		3												
				PM-780-2		3												
				PM-780-3		3												
1	PO-238	Pulley, W/Hub		A-3051		1												
1	PO-241	Arm, Detent		AX-360		1												
1	PO-242	Spacer, Detent Arm		AX-360		1												
1	PO-243	Roller, Detent				1												
1	PO-244-1	Spacer, Detent Arm		AX-360		1												
1	PO-244-2	Spacer, Detent Arm				1												
1	PO-245	Spacer, Threaded		AX-360		1												
1	PO-247	Clutch, Slip		A-3135		1												
1	PX-643-2	Sleeving, Shrink		A-2521		1												

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	19	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
8	PX-649	Terminal Board, RF, Band #1 Band #2 Band #3 Band #4 Band #5 Band #6 Band #7 Band #8	LD-1121 LD-1122 LD-1123 LD-1124 LD-1125 LD-1126 LD-1127 LD-1128	AX-361 AX-362 AX-363 AX-364 AX-365 AX-366 AX-367 AX-368		1 1 1 1 1 1 1 1											
8	PX-650	Terminal Board, Osc., Band #1 Band #2 Band #3 Band #4 Band #5 Band #6 Band #7 Band #8	LD-1113 LD-1114 LD-1115 LD-1116 LD-1117 LD-1118 LD-1119 LD-1120	AX-369 AX-370 AX-371 AX-372 AX-373 AX-374 AX-375 AX-376		1 1 1 1 1 1 1 1											
1	PX-655	Goulier, 07															
1	PX-656	Indicator, Dial		AX-378		1											
1	PX-660	Drum, Cylinder	LD-1091	A-3075		1											
1	PX-661	Window, Panel		A-3057		1											
1	PX-662-1	Coupler, Shaft Ridged		A-3076		1											
1	PX-662-2	Coupler, Shaft, Ridged		A-3042		1											
2	PX-663	Bushing, Cylinder Mounting		A-3075		2											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	Y	HFR-1/T	
														SHEET	20	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
7	PX-665	Ring, Slip-on		A-3051		2											
				A-3057		5											
2	RC20GF100K	Resistor, Fixed, Composition		A-2521		2	R1041,1042										
1	RC20GF101K	Resistor, Fixed, Composition		A-2521		1	R1048										
1	RC20GF102K	Resistor, Fixed, Composition		A-2522		1	R1034										
1	RC20GF103K	Resistor, Fixed, Composition		A-2521		1	R1049										
6	RC20GF104K	Resistor, Fixed, Composition		A-2522		3	R1001,1013,1022										
				A-2521		1	R1040										
				A-2522		2	R1050,1051										
1	RC20GF106K	Resistor, Fixed, Composition		A-2522		1	R1005										
2	RC20GF122K	Resistor, Fixed, Composition		A-2522		1	R1033										
				A-2521		1	R1038										
2	RC20GF125J	Resistor, Fixed, Composition		A-2521		2	R1044,1045										
1	RC20GF131J	Resistor, Fixed, Composition		A-2521		1	R1035										
1	RC20GF154K	Resistor, Fixed, Composition		A-2521		1	R1046										
1	RC20GF154J	Resistor, Fixed, Composition		A-3057		1	R1055										
1	RC20GF201K	Resistor, Fixed, Composition		A-2522		1	R1010										
2	RC20GF223J	Resistor, Fixed, Composition		A-2521		2	R1036,1043										
3	RC20GF223K	Resistor, Fixed, Composition		A-2522		3	R1008,1016,1025										

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST

REV.

A B C D E F G H J K L

MODEL HFR-1/T

SHEET 21 OF 45

QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
1	RC20GF271K	Resistor, Fixed, Composition		A-2522		1	R1031
1	RC20GF330K	Resistor, Fixed, Composition		A-2522		1	R1002
3	RC20GF332K	Resistor, Fixed, Composition		A-2522		3	R1012, 1019, 1027
1	RC20GF392K	Resistor, Fixed, Composition		A-2522		1	R1032
6	RC20GF393K	Resistor, Fixed, Composition		AX-361 AX-362		3 3	R1011, 1018, 1028 R1052, 1053, 1054
7	RC20GF470K	Resistor, Fixed, Composition		A-2522 A-2522 A-2521		3 3 1	R1009, 1015, 1017 R1024, 1026, 1030 R1047
1	RC20GF471K	Resistor, Fixed, Composition		A-2522		1	R1020
3	RC20GF472K	Resistor, Fixed, Composition		A-2522 A-2521		2 1	R1003, 1029 R1037
1	RC20GF473K	Resistor, Fixed, Composition		A-2521		1	R1039
2	RC20GF680K	Resistor, Fixed, Composition		A-2522		2	R1014, 1023
1	RC42GF103K	Resistor, Fixed, Composition		A-3041		1	R1007
1	RC42GF222K	Resistor, Fixed, Composition		A-2522		1	R1004
1	RL-143-1	Relay, Micro Miniature		A-3041		1	K1001
1	RY-148-1	Pad, Slide Mounting		A-3051		1	

THE TECHNICAL MATERIEL CORPORATION

TMC FORM ML-1, OGILVIE PRESS, INC. NO. 459M TYPMASTER

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	22	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
40	SC-143-0632-B-10	Screw, Nylon		AX-361		4											
				AX-362		4											
				AX-363		4											
				AX-364		4											
				AX-365		4											
				AX-366		4											
				AX-367		4											
				AX-368		4											
				AX-369		1											
				AX-370		1											
				AX-371		1											
				AX-372		1											
				AX-373		1											
				AX-374		1											
				AX-375		1											
				AX-376		1											
1	SP-114	Spring, Cam		A-3057		1											
1	SP-136	Spring, Extension		A-3058		1											
2	SW-112	Switch, Rotary		A-3057		2	S1001,1002										
1	TE-167	Lug, Threaded, Angle		A-3058		1											
1	TE-195-4	Terminal, Collar		TT-194		1											
7	TE1032AE60H	Spacer, Threaded		A-3051		3											
				A-3058		4											
3	TE1032AE61H	Spacer, Threaded		A-3051		3											

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	23	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
5	TS-102-P01	Socket, Tube, 7 Pin		A-2521		2	XV1006,1007										
				A-2522		3	XV1002,1003,1004										
2	TS-103-P01	Socket, Tube, 9 Pin		A-2522		2	XV1001,1005										
3	TS-102-U02	Shield, Tube		A-2532		1	For V1002,1003,1004										
1	TS-103-U01	Shield, Tube		A-2532		1	For V1001										
1	TS-103-U03	Shield, Tube		A-2532		1	For V1005										
2	TS-107-3	Socket, Lamp		AX-359		2	XDS1002,1004										
2	TS-107-4	Socket, Lamp		AX-359		2	XDS1003,1005										
1	TS-154-5	Light, Indicator	White	A-3057		1	XDS1001										
1	UG-625/U	Connector, Receptacle		A-3041		1	J1001										

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	24	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
1	1N463	Semicon., Device, Diode, Silicon		A-2522		1	CR1001										
1	6AB4	Tube, Electron, HFD		A-2532		1	V1007										
2	6AH6	Tube, Electron, 2nd. RF Isol. Ampl.		A-2532		1	V1002										
				A-2532		1	V1006										
2	6BA6	Tube, Electron, 3rd. RF 4th. RF		A-2532		1	V1003										
				A-2532		1	V1004										
1	6S4A	Tube, Electron, Mixer		A-2532		1	V1005										
1	417A	Tube, Electron, 1st. RF		A-2532		1	V1001										

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	25	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
7	EY-101-2	Eyelet, Rolled Flange		A-2380-2		5											
				A-2381-2		2											
15	FW04HSS	Washer, Flat		A-3051		3											
				A-3057		12											
15	FW04LBN	Washer, Flat		A-2532		15											
42	FW06LBN	Washer, Flat		A-2532		42											
2	FW08HBN	Washer, Flat		A-3042		2											
1	FW08HSS	Washer, Flat		AX-360		1											
1	FW100-15AE	Washer, Flat		A-3042		1											
1	FW100-16AE	Washer, Flat		A-3042		1											
67	LWE04MRN	Washer, Lock, External		A-2380-2		24											
				A-2381-2		6											
				A-2532		30											
				A-3051		2											
				A-3057		5											
79	LWE06MRN	Washer, Lock, External		A-2532		68											
				A-3042		6											
				A-3058		5											
1	LWE08MSS	Washer, Lock, External		AX-360		1											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	I	J	K	L	MODEL	HFR-1/T
															SHEET	26 OF 45
QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
24	LWE10MRN	Washer, Lock, External		AX-361		3										
				AX-362		3										
				AX-363		3										
				AX-364		3										
				AX-365		3										
				AX-366		3										
				AX-367		3										
				AX-368		3										
8	LWE12MSS	Washer, Lock, External		A-3042		8										
6	LWI04MRN	Washer, Lock, Internal		A-3058		1										
1	LWI04MRN	Washer, Lock, Internal														
10	LWI08MRN	Washer, Lock, Internal		A-3042		8										
				A-3051		2										
7	LWI08MSS	Washer, Lock, Internal		A-3076		7										
2	LWI10MRN	Washer, Lock, Internal		A-2532		2										
26	LWS02MRN	Washer, Lock, Split		A-2532		24										
				A-3041		2										

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST

REV.

A B C D E F G H I J K L

MODEL HFR-1/T

SHEET 27 OF 45

QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
254	LWS04MRN	Washer, Lock, Split		A-2521		4	
				A-2522		10	
				AX-361		24	
				AX-362		24	
				AX-363		24	
				AX-364		24	
				AX-365		24	
				AX-366		24	
				AX-367		24	
				AX-368		24	
				AX-369		6	
				AX-370		6	
				AX-371		6	
				AX-372		6	
				AX-373		6	
			8	LWS06MRN	Washer, Lock, Split		AX-374
	AX-375					6	
4	NT-129-632-6	Nut, Swage		AX-376		6	
				A-3042		8	
2	NTH0256BN6	Nut, Hexagon		MS-2991		2	
				MS-2992		2	
				A-3041		2	

MATERIAL LIST

REV.

A B C D E F G H J K L

MODEL HFR-1/T

SHEET 28 OF 45

QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
254	NTH0440BN6	Nut, Hexagon		A-2521		4	
				A-2522		10	
				AX-361		24	
				AX-362		24	
				AX-363		24	
				AX-364		24	
				AX-365		24	
				AX-366		24	
				AX-367		24	
				AX-368		24	
				AX-369		6	
				AX-370		6	
				AX-371		6	
				AX-372		6	
				AX-373		6	
				AX-374		6	
				AX-375		6	
				AX-376		6	
6	NTH0440SS8	Nut, Hexagon		A-3051		2	
				A-3057		3	
				A-3058		1	
7	NTH0632SS8	Nut, Hexagon		A-3057		2	
				A-3058		5	
1	NTH0832SS10	Nut, Hexagon		AX-360		1	
1	SC-106-1	Bolt, Spade		A-3058		1	
8	SC-146	Screw, Machine		A-2532-		8	

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	ABCDEFGHIJKLM	MODEL	HFR-1/T		
				SHEET	29	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
2	SCBP0256BN3	Screw, Machine		A-3041		2	
2	SCBP0256BN4	Screw, Machine		AX-378		2	
26	SCBP0256SS3	Screw, Machine		A-2532 AX-377		24 2	
26	SCBP0440BN3	Screw, Machine		A-2532		26	
44	SCBP0440BN4	Screw, Machine		A-2380-2 A-2381-2 A-2521 A-2522		24 6 4 10	
4	SCBP0440BN5	Screw, Machine		A-2532		4	
2	SCBP0440SS6	Screw, Machine		A-3075		2	
4	SCBP0440SS8	Screw, Machine		A-3074		4	
2	SCBP0632BN4	Screw, Machine		A-2532		2	
18	SCBP0632BN5	Screw, Machine		A-2532		18	
32	SCBP0632BN8	Screw, Machine		A-2532		32	
2	SCBP0632SS5	Screw, Machine		A-3042		2	
1	SCBP0632SS6	Screw, Machine		A-3058		1	
6	SCBP0632SS7	Screw, Machine		A-3042		6	

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	I	J	K	L	MODEL	HFR-1/T		
															SHEET	30	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS											
				USED ON	USED TO MOUNT	QUAN.												
		HARDWARE																
2	SCBP0832BN6	Screw, Machine		A-3042		2												
2	SCBP0832BN7	Screw, Machine		A-3042		2												
2	SCBP0832BN12	Screw, Machine		A-3042		2												
2	SCBP0832BN14	Screw, Machine		A-3042		2												
2	SCBP1032BN3	Screw, Machine		A-2532		2												
2	SCBP0832SS8	Screw, Machine		A-3074		2												
4	SCBP1224SS10	Screw, Machine		A-3042		4												
4	SCBP1224SS80	Screw, Machine		A-3042		4												
2	SCFP0256SS6	Screw, Machine		A-3051		2												
9	SCFP0256SS8	Screw, Machine		A-3075		9												
5	SCFP0256SS4	Screw, Machine																
10	SCFP0348SS5	Screw, Machine		A-3057		10												
1	SCFP0440SS6	Screw, Machine		A-3058		1												
2	SCFP0440SS12	Screw, Machine		A-3051		2												
3	SCFP0440SS16	Screw, Machine		A-3057		3												
10	SCFP0632BN4	Screw, Machine		A-2532		10												
4	SCFP0632SS6	Screw, Machine		A-3058		4												
2	SCFP0632SS9	Screw, Machine		A-3057		2												

THE TECHNICAL MATERIEL CORPORATION

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MATERIAL LIST

REV.

A B C D E F G H J K L

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SHEET 31 OF 45

QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
1	SCFP0832SS16	Screw, Machine		A-3058		1	
2	SCFP0832SS16	Screw, Machine		A-3058 AX-360		1 1	
8	SCFP1032BN6	Screw, Machine		A-3058		8	
12	SCFP1032SS6	Screw, Machine		A-3051		12	
4	SCFP1032SS9	Screw, Machine		A-3057		4	
2	SCHH0832SS3	Screw, Machine		A-3058		2	
2	SCHH0832SS4	Screw, Machine		A-3051		2	
7	SCHH0832SS6	Screw, Machine		A-3076		7	
3	SCHH0832SS14	Screw, Machine		A-3076		3	
6	SCRPO632SS10	Screw, Machine		A-3042		6	
2	SLHC0440SS4	Setscrew		AX-377		2	
6	SLHC0632SS3	Setscrew		A-3042		6	
2	SLHC0832SS6	Setscrew		A-3042		2	

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	32	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
4	SLHV0440 SS6	Setscrew		A-3058		2											
				A-3075		2											
2	SLHV0632SS3	Setscrew		A-3058		2											
4	SLHV0632SS4	Setscrew		A-3058		4											
7	TE-10	Strap															
3	TE-101	Strap															
2	TE-104-1	Lug, Terminal		A-3075		2											
1	TE-104-2	Lug, Terminal		A-3057		1											
81	TE-104-4	Lug, Terminal		A-2522		1											
				AX-361		8											
				AX-362		8											
				AX-363		8											
				AX-364		8											
				AX-365		8											
				AX-366		8											
				AX-367		8											
				AX-368		8											
				AX-369		2											
				AX-370		2											
				AX-371		2											
				AX-372		2											
				AX-373		2											
				AX-374		2											
				AX-375		2											
				AX-376		2											
4	TE-104-5	Lug, Terminal		A-3057		4											

MATERIAL LIST

REV.

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MODEL

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QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
3	TE-111-2	Lug, Terminal		A-3041		1	
				A-3057		2	
2	TE-116-1	Lug, Terminal		A-3051		1	
				A-3058		1	
2	TE-117-44	Spacer, Standoff		A-3042		2	
2	TE-117-45	Spacer, Standoff		A-3042		2	
2	TE-117-46	Spacer, Standoff		A-3057		2	
2	TE-149-.120	Terminal, Solderless		A-2521		2	
240	TE-191	Terminal, Pin		AX-361		24	
				AX-362		24	
				AX-363		24	
				AX-364		24	
				AX-365		24	
				AX-366		24	
				AX-367		24	
				AX-368		24	
				AX-369		64	
				AX-370		6	
				AX-371		6	
				AX-372		6	
				AX-373		6	
				AX-374		6	
				AX-375		6	
				AX-376		6	

MATERIAL LIST

REV.

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MODEL HFR-1/T

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QUAN. PER UNIT	PART NO.	DESCRIPTION HARDWARE	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
22	TE192A3R9	Stud, Terminal		A-2521		11	
				A-2522		9	
				A-3041		2	
12	TE193B4S9	Stud, Terminal		A-2521		4	
				A-2522		8	
16	TE-194	Pin, Terminal		A-2532		16	
1	WA-136-1	Washer, Wavy		A-3042		1	
1	WA-136-2	Washer, Wavy		A-3042		1	

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	I	J	K	L	MODEL	HER-1/T	
															SHEET	35	OF 45
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															
	CD-101-2-MW	Cord, Lacing, Nylon	White	A-2532													
	GL-101-2	Cement, Pliobond		A-2476													
	GL-102	Lacquer, Q-Max		AC-164													
				AC-165													
				AC-168													
				AC-169													
				AX-363													
				AX-364													
				AX-365													
				AX-366													
				AX-367													
				AX-368													
				AX-374													
				AX-375													
				AX-376													
				TT-194													
	GL-114	Compound, Silicone Lubricant		A-3042													
0-5	MWC22(7)SJ2	Cable, Insulated, Shield W/Jacket	Red	A-2522		0-5											
1-0	MWC22(7)U0	Wire, Electrical	Black	A-2521		0-7											
				A-2522		0-5											
0-10	MWC22(7)U1	Wire, Electrical	Brown	A-2521		0-5											
				A-2522		0-5											
1-4	MWC22(7)U2	Wire, Electrical	Red	A-2521		0-8											
				A-2522		0-8											

MATERIAL LIST		REV.	ABCDEFGHIJKL	MODEL	HER-1/T		
				SHEET	36	OF 45	
QUAN. PER UNIT	PART NO.	DESCRIPTION RAW MATERIALS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
0-5	MWC22(7)U9	Wire, Electrical	White	A-2522		0-5	
1-0	MWC22(7)U91	Wire, Electrical	Wh/Brown	A-2521		0-7	
				A-2522		0-5	
1-4	MWC22(7)U92	Wire, Electrical	Wh/Red	A-2521		0-11	
				A-2522		0-5	
0-8	MWC22(7)U98	Wire, Electrical	Wh/Gray	A-2521		0-8	
2-2	MWC24(7)U97	Wire, Electrical	Wh/Violet	AX-350		0-9	
				AX-359		1-5	
7-9	PX-104-1-.034	Sleeving, Size 20	Black	AX-361		0-4	
				AX-362		0-6	
				AX-363		0-8	
				AX-364		0-5	
				AX-365		0-10	
				AX-366		1-0	
				AX-367		0-8	
				AX-368		0-3	
				AX-369		0-3	
				AX-370		0-3	
				AX-371		0-5	
				AX-372		0-5	
				AX-373		0-5	
				AX-374		0-5	
				AX-375		0-5	
				AX-376		0-4	
0-9	PX-104-2-.034	Sleeving, Size 20	Yellow	A-2522		0-8	
				A-3041		0-1	

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MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
														SHEET	37	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION RAW MATERIALS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
2-3	PX-104-3-.034	Sleeving, Size 20	Red	A-2521		0-9											
				A-2522		1-5											
				A-3041		0-1											
0-1	PX-104-4-.034	Sleeving, Size 20	Green	A-3041		0-1											
0-10	PX-104-5-.034	Sleeving, Size 20	Brown	A-2522		0-10											
0-11	PX-104-6-.034	Sleeving, Size 20	Blue	A-2522		0-10											
				A-3041		0-1											
0-9	PX-370-2-8	Sleeving, Teflon	White	AX-363													
				AX-364		1 1/4"											
				AX-365		1 1/4"											
				AX-366		1 1/4"											
				AX-367		1 1/4"											
				AX-368		1 1/4"											
				AX-374		1/2"											
				AX-375		1/2"											
				AX-376		1/2"											
1-0	PX-370-9-9	Sleeving, Teflon	Natural	A-2522		1-0											
2-11	RG-188/U	Cable, Coaxial	Black	A-2521		1-3											
				A-2522		1-3											
				A-3041		0-5											
	WI-104-4044-SSPQS	Wire, Litz, Size 40/44		TT-194													
	WI-122-20	Wire, Magnet, #20		A-2481													
				TZ-115													
	WI-122-22	Wire, Magnet, #22		A-2480													
				A-2482													
				A-2484													
				TZ-114													

MATERIAL LIST

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MODEL HFR-1/T

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QUAN. PER UNIT	PART NO.	DESCRIPTION RAW MATERIALS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
	WI-122-24	Wire, Magnet, #24		A-2476 A-2477 A-2478 A-2479 AC-165 AC-168 AC-169 AC-170 CL-299 CL-300 CL-301 CL-302 TZ-110 TZ-112 TZ-113 TZ-114 TZ-115 CL-297 CL-298 TZ-109 AC-164 CL-296 TZ-108			
	WI-122-25	Wire, Magnet, #25					
	WI-122-28	Wire, Magnet, #28					
	WI-122-30	Wire, Magnet, #30					
	WI-140E22E2	Wire, Teflon	Red	A-2532			
	WI-140E22E3	Wire, Teflon	Orange	A-2532			
	WI-140E22E5	Wire, Teflon	Green	A-2532			
	WL-100-4	Wire, Buss, #16		A-2521			
	WL-100-6	Wire, Buss, #20		A-3075			
				A-2521			
				A-2522			
				AX-361			
				AX-363			
				AX-364			
				AX-368			
				AX-369			
				AX-370			
				A-3041			
				A-3051			
2	WL-100-7	Wire, Buss, #22					
	WL-105-10	Wire, Dial Indicator					

THE TECHNICAL MATERIEL CORPORATION

TMC FORM ML-1, OGILVIE PRESS, INC. NO. 459M TYPMASTER

MAMARONECK, NEW YORK

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	I	J	K	L	MODEL	HFR-1/T		
															SHEET	39	OF	45
QUAN. PER UNIT	PART NO.	DESCRIPTION	SUPPORTING DRAWINGS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
					USED ON	USED TO MOUNT	QUAN.											
1	A-2340	Chassis Assembly, RF			A-2522		1											
1	A-2343	Chassis Assembly, Oscillator			A-2521		1											
1	A-2380-2	Final Assembly, Terminal Bd., RF Stator			A-2522		1											
1	A-2381-2	Final Assembly, Terminal Bd., Osc. Stator			A-2521		1											
3	A-2476	Coil Assembly, RF, Band #3			AX-363		2	L1024A, B, 1025A, B										
					AX-363		1	L1026A, B										
3	A-2477	Coil Assembly, RF, Band #4			AX-364		2	L1029A, B, 1030A, B,										
					AX-364		1	L1031A, B										
3	A-2478	Coil Assembly, RF, Band #5			AX-365		2	L1034A, B, 1035A, B										
					AX-365		1	L1036A, B										
3	A-2479	Coil Assembly, RF, Band #6			AX-366		2	L1039A, B, 1040A, B										
					AX-366		1	L1041A, B										
4	A-2480	Coil Assembly, RF, Band #6			AX-374		1	L1042A, B										
		Band #7			AX-367		2	L1044A, B, 1045A, B										
		Band #7			AX-367		1	L1046A, B										
3	A-2481	Coil Assembly, RF, Band #8			AX-368		2	L1049A, B, 1050A, B										
					AX-368		1	L1051A, B										
1	A-2482	Coil Assembly, RF, Osc., Band #7			AX-375		1	L1047A, B										
		Coil Assembly, RF, Osc., Band #7			AX-375		1	L1047A, B										
1	A-2484	Coil Assembly, RF, Osc., Band #8			AX-376		1	L1052A, B										
1	A-2521	Osc., Chassis Final Assembly			A-2532		1											
1	A-2522	RF Chassis Final Assembly			A-2532		1											
1	A-2532	Tuner Assembly, HFR-1			A-3076		1											
1	A-3041	Antenna Input Assembly			A-2532		1											
1	A-3042	Tuner Frame Assembly			A-2532		1											

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QUAN. PER UNIT	PART NO.	DESCRIPTION SUPPORTING DRAWINGS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
1	A-3051	Tuning Gear Assembly		A-3076		1	
1	A-3057	Front Panel Assembly		A-3074		1	
1	A-3058	Bandswitch Gear Assembly		A-3076		1	
1	A-3074	Front Panel & Tuner Assembly		A-3074		1	
1	A-3075	Tuner Dial Assembly		A-3074		1	
1	A-3076	Tuner & Gear Assembly		A-3074		1	
1	A-3135	Slip Clutch Assembly		A-3051		1	
4	AC-164 (1A-2492)	Coil, RF, Tuned, Band #1		AX-361		3	L1001, 1005, 1007
				AX-361		1	L1009
3	AC-165 (2A-2493)	Coil, RF, Tuned, Band #2, RF		AX-362		3	L1015, 1017, 1019
1	AC-168 (2A-2496)	Coil, RF, Tuned, Band #2, Osc.		AX-370		1	L1021
3	AC-169 (2A-2497)	Coil, RF, Tuned, Band #3, Osc.		AX-371		1	L1053
		Coil, RF, Tuned, Band #4, Osc.		AX-372		1	L1054
		Coil, RF, Tuned, Band #5, Osc.		AX-373		1	L1055
2	AC-170 (2A-2498)	Coil, RF, Tuned, Band #1, Osc.		AX-369		1	L1013
		Coil, RF, Tuned, Band #2, RF		AX-362		1	L1014
2	AX-359	Indicator, Light Assembly		A-3075		2	
1	AX-360	Detent Arm Assembly		A-3058		1	
1	AX-361 (2A-2371)	Terminal Board, RF, Band #1		A-2532		1	A1001
1	AX-362 (2A-2372)	Terminal Board, RF, Band #2		A-2532		1	A1003
1	AX-363 (2A-2373)	Terminal Board, RF, Band #3		A-2532		1	A1005
1	AX-364 (2A-2374)	Terminal Board, RF, Band #4		A-2532		1	A1007

MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T	
														SHEET	41	OF 45
QUAN. PER UNIT	PART NO.	DESCRIPTION SUPPORTING DRAWINGS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
				USED ON	USED TO MOUNT	QUAN.										
1	AX-365 (2A-2375)	Terminal Board, RF, Band #5		A-2532		1	A1009									
1	AX-366 (2A-2376)	Terminal Board, RF, Band #6		A-2532		1	A1011									
1	AX-367 (2A-2377)	Terminal Board, RF, Band #7		A-2532		1	A1013									
1	AX-368 (2A-2378)	Terminal Board, RF, Band #8		A-2532		1	A1015									
1	AX-369 (2A-2363)	Terminal Board, Osc., Band #1		A-2532		1	A1002									
1	AX-370 (2A-2364)	Terminal Board, Osc., Band #2		A-2532		1	A1004									
1	AX-371 (2A-2365)	Terminal Board, Osc., Band #3		A-2532		1	A1006									
1	AX-372 (2A-2366)	Terminal Board, Osc., Band #4		A-2532		1	A1008									
1	AX-373 (2A-2367)	Terminal Board, Osc., Band #5		A-2532		1	A1010									
1	AX-374 (2A-2368)	Terminal Board, Osc., Band #6		A-2532		1	A1012									
1	AX-375 (2A-2369)	Terminal Board, Osc., Band #7		A-2532		1	A1014									
1	AX-376 (2A-2370)	Terminal Board, Osc., Band #8		A-2532		1	A1016									
1	AX-377	Lock Assembly, Adjustable		A-3051		1										
1	AX-378	Slide Indicator Assembly		A-3057		1										
1	CH-225	Chart, Unit Breakdown														
3	CL-296 (1A-2485)	Coil, RF, Toroid, Band #1		AX-361		3	L1004,1006,1008									
3	CL-297 (1A-2486)	Coil, RF, Toroid, Band #2		AX-362		3	L1016,1018,1020									

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MATERIAL LIST		REV.	A	B	C	D	E	F	G	H	J	K	L	MODEL	HFR-1/T		
QUAN. PER UNIT	PART NO.	DESCRIPTION	SUPPORTING DRAWINGS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS									
					USED ON	USED TO MOUNT	QUAN.										
					SHEET	42	OF	45									
1	CL-298 (1A-2487)	Coil, RF, Toroid, Osc., Band #1			AX-369			1	L1012								
1	CL-299 (1A-2488)	Coil, RF, Toroid, Osc., Band #2			AX-370			1	L1022								
1	CL-300 (1A-2489)	Coil, RF, Toroid, Osc., Band #3			AX-371			1	L1027								
1	CL-301 (1A-2490)	Coil, RF, Toroid, Osc., Band #4			AX-372			1	L1032								
1	CL-302 (1A-2491)	Coil, RF, Toroid, Osc., Band #5			AX-373			1	L1037								
1	LD-1062	Lettering, Front Panel		MS-2906	A-3057			1									
1	LD-1091	Lettering, Read Off, Band		PX-660	A-3075			1									
1	LD-1112	Lettering, Chassis, RF		MS-2891	A-2340			1									
1	LD-1113	Lettering, Terminal Board, Osc., Band #1		PX-650	AX-369			1									
1	LD-1114	Lettering, Terminal Board, Osc., Band #2		PX-650	AX-370			1									
1	LD-1115	Lettering, Terminal Board, Osc., Band #3		PX-650	AX-371			1									
1	LD-1116	Lettering, Terminal Board, Osc., Band #4		PX-650	AX-372			1									
1	LD-1117	Lettering, Terminal Board, Osc., Band #5		PX-650	AX-373			1									
1	LD-1118	Lettering, Terminal Board, Osc., Band #6		PX-650	AX-374			1									
1	LD-1119	Lettering, Terminal Board, Osc., Band #7		PX-650	AX-375			1									
1	LD-1120	Lettering, Terminal Board, Osc., Band #8		PX-650	AX-376			1									
1	LD-1121	Lettering, Terminal Board, RF, Band #1		PX-649	AX-361			1									
1	LD-1122	Lettering, Terminal Board, RF, Band #2		PX-649	AX-362			1									
1	LD-1123	Lettering, Terminal Board, RF, Band #3		PX-649	AX-363			1									
1	LD-1124	Lettering, Terminal Board, RF, Band #4		PX-649	AX-364			1									
1	LD-1125	Lettering, Terminal Board, RF, Band #5		PX-649	AX-365			1									
1	LD-1126	Lettering, Terminal Board, RF, Band #6		PX-649	AX-366			1									
1	LD-1127	Lettering, Terminal Board, RF, Band #7		PX-649	AX-367			1									
1	LD-1128	Lettering, Terminal Board, RF, Band #8		PX-649	AX-368			1									
1	LD-1129	Lettering, Bracket, Ant. Input		MS-2859	A-3041			1									

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

MATERIAL LIST

REV.

A B C D E F G H J K L

MODEL HFR-1/T

SHEET 43 OF 45

QUAN. PER UNIT	PART NO.	DESCRIPTION SUPPORTING DRAWINGS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
1	RR-131 (A-3043)	Oven Heater Assembly NOTE: <u>This item must be purchased as a matched set with PO-240 oven control. (See HFR-1/C ML)</u>		A-2532		1	A1017 (c/o HR1001,1002) RT1001)
1	TT-194 (1A-3040)	Transformer, RF Tuned, 1.75 MC		A-2522		1	T1002
1	TZ-108 (2A-2524)	Transformer, Ant., 2-3 MC, Band #1		AX-361		1	T1001
1	TZ-109 (2A-2525)	Transformer, Ant., 3-4 MC, Band #2		AX-362		1	T1003
1	TZ-110 (2A-2526)	Transformer, Ant., 4-6 MC, Band #3		AX-363		1	T1004
1	TZ-111 (2A-2527)	Transformer, Ant., 6-8 MC, Band #4		AX-364		1	T1005
1	TZ-112 (2A-2528)	Transformer, Ant., 8-12 MC, Band #5		AX-365		1	T1006
1	TZ-113 (2A-2529)	Transformer, Ant., 12-16 MC, Band #6		AX-366		1	T1007
1	TZ-114 (2A-2530)	Transformer, Ant., 16-24 MC, Band #7		AX-367		1	T1008
1	TZ-115 (2A-2531)	Transformer, Ant., 24-32 MC, Band #8		AX-368		1	T1009

MATERIAL LIST		REV.	ABCDEFGHIJKL	MODEL	HFR-1/T		
QUAN. PER UNIT	PART NO.	DESCRIPTION SPECIFICATIONS	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
	S-114	Zinc Chromate Primer		MS-2906			
	S-115	Smooth Gray Enamel		MS-2906			
	S-404	Yellow Iridite		All Metal			

MODEL HFR-1/T

SHEET 44 OF 45

MATERIAL LIST

REV.

A B C D E F G H J K L

MODEL HFR-1/T

SHEET 45 OF 45

QUAN. PER UNIT	PART NO.	DESCRIPTION PARTS PECULIAR	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS
				USED ON	USED TO MOUNT	QUAN.	
		<p><u>NON-REPLACEABLE ITEMS</u></p> <p>L1023 p/o T1004 (TZ-110) L1028 p/o T1005 (TZ-111) L1033 p/o T1006 (TZ-112) L1038 p/o T1007 (TZ-113) L1043 p/o T1008 (TZ-114) L1048 p/o T1009 (TZ-115)</p>					

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

HFR-1/T

MODEL _____

PROJECT NO. _____

DATE	REV.	PAGE	EMN #	DESCRIPTION	CHK.	APP.
1/7/63	1	16		Dele. 1 ea. PM-782		
1/17/63	2	1		Add 2 ea. BB-118-3		
				On BB-126-3, Chg. Quan. from 10 to 7		
				On BI-101-44(AF), Chg. Quan. from 2 to 4		
		3		On CF-134-5-E, Chg. Quan. from 48 to 33		
		4		On CI-127-1, Chg. Quan. from 32 to 40		
				On CML5B100K, Chg. Quan. from 3 to 2		
		15		On PM-775, Chg. Quan. from 1 to 2		
		17		Dele. 1 ea. PN79-062-8		
		18		Dele. 1 ea. PN-116-B-6-C		
				Dele. 1 ea. PO-244-2		
		23		On TS-107-3, Chg. Quan. from 1 to 2		
				On TS-107-4, Chg. Quan. from 1 to 2		
		26		Chg. LWI04MSS to LWI04MSS		
				Dele. 1 ea. LWI06MSS		
		28		Dele. 2 ea. NTH0440BN8		
		29		Chg. NTH0440SS6 to NTH0440SS8 & Chg. Quan. from 4 to 6		
				Dele. 4 ea. SCBP0440BN10		
				Dele. 1 ea. SCBP0632BN6		
				Add 1 ea. SCBP0632SS6		
		30		Dele. 3 ea. SCFP0256SS4		
				Chg. SCFP0256BN6 to SCFP0256SS6		
				Chg. SCFP0348BN5 to SCFP0348SS5		
				Chg. SCFP0440BN6 to SCFP0440SS6 & Chg. Quan. from 3 to 1		
				Chg. SCFP0440BN12 to SCFP0440SS12		
				Chg. SCFP0632BN6 to SCFP0632SS6		
		31		Dele. 1 ea. SCFP0832BN16		
				Add 12 ea. SCFP1032SS6		
				On SCFP1032BN6, Chg. Quan. from 20 to 8		
				Chg. SCHH0832BN2 to SCHH0832SS3		
				Chg. SCHH0832BN4 to SCHH0832SS4		
				Dele. 1 ea. SLHC0256SS3		
				Dele. 1 ea. SLHC0440SS2		
				Dele. 14 ea. SLHC0440SS3		
				Dele. 2 ea. SLHC0440SS16		
				Dele. 3 ea. SLHC0832SS3		
				Dele. 2 ea. SLHC1032SS3		

