

M.L. GPR-90 RX AA

M A T E R I A L L I S T

GPR-90 RX

MODEL GPR-90RX

MARK II SERIES

- SECTION I ELECTRICAL COMPONENTS AND MECHANICAL PARTS
- SECTION II HARDWARE (NUTS, SCREWS, WASHERS, ETC.)
- SECTION III LOOSE ITEMS SUPPLIED W/UNIT
- SECTION IV SUPPORTING DRAWINGS
- SECTION V SPECIFICATIONS
- SECTION VI RAW MATERIAL
- SECTION VII PARTS PECULIAR

NOTE: P INDICATES PURCHASED ITEMS

DRAWN September 5, 1957

APPROVED

AJT

CHECKED

P.L.K. Adams Jnda AJT

GENERAL PURPOSE RECEIVER

LIST NO. ML-GPR-90RX

MODEL GPR-90 RX

PROJ. NO.

SHEET 1 OF 34 SHEETS

ISSUE

A B C D E F G H J K L M N P R S
T U V W X Y Z AA

PURCHASED ITEM

MATERIAL LIST

QUAN. PER ONE EQUIP.

PART NO.

DWG SIZE

ITEM NO.

DESCRIPTION
ELECTRICAL COMPONENTS AND MECHANICAL PARTS

REMARKS

P	6	BB-101	1	1.	Bearing, Panel		
P	2	BB-106-1	1	2.	Bearing, Thrust		
P	2	BB-108	1	3.	Bearing, Oilite		
P	6	BB-117-6	2	3A	Bearing, Nylon		
P	2	BI-101-44 (AF)	1	4.	Lamp, Incandescent, Frosted (For Dial)		(2) A-829
P	1	BI-101-44	1	5.	Lamp, Incandescent, Clear (For MR107)		I1, 2 I3
P	1	EX-102-1	1	6.	Can BFO P/O A-907		
P	3	EX-102-7	1	7.	Can, 3.955 IF & Xtal I.F. P/O A-949		
P	4	EX-102-8	1	8.	Can		
P	1	EX-142	1	9.	Dust Cover, Audio Selective Network		
P	1	CA-102-2	1	10.	Cord Set		W1 (P2)
P	6	CB-122-4	1	11.	Capacitor, Type M		C80, 82, 84, 87, 89, 90
P	1	CB-130	4	12.	Capacitor, Variable Air, Main Tuning		C9A, B, C,
P	1	CB-131	4	13.	Capacitor, Variable Air, Band Spread		C8A, B, C,
P	1	CC20RH4R7C	2	14.	Capacitor, Fixed Ceramic, Temp. Compensating		C126
P	2	CC20UJ4R7C	2	15.	" " " " " "		C91, 86
P	1	CC20UJ6R8D	2	16.	" " " " " "		C114
P	1	CC20UJ100J	2	17.	" " " " " "		C125
P	4	CC21SL050C	2	18.	" " " " " Dielectric		C3, 4, 15, 109
P	1	CC21SL080G	2	19.	" " " " " "		C137
P	1	CC21SL150J	2	20.	" " " " " "		C59
P	1	CC21SL220K	2	21.	" " " " " "		C115
P	2	CC21SL470K	2	22.	" " " " " "		C5, C57,
P	1	CC21SL510G	2	23.	" " " " " "		C68
P	2	CC21UJ470J	2	24.	" " " " " Temp. Compensating		C78, 93
P	1	CC32SH101J	2	25.	" " " " " "		C130
P	1	CC35CG910J	2	26.	" " " " " "		C85
P	1	CC35UJ181J	2	27.	" " " " " "		C128
P	1	CC26GH300J	2	27.1	Capacitor, Fixed, Ceramic, Temp. Compensating		C153
P	2	CM35B103K	2		" " " " " "		C151, 152

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

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GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST		MODEL GPR-90 RX		PROJ. NO.													LIST NO. ML-GPR-90RX								
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE													SHEET 2 OF 34 SHEETS							
						A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X
ELECTRICAL COMPONENTS AND MECHANICAL PARTS (CONT.)																										
P	1	CC45SH221a		2	28.	Capacitor, Fixed Ceramic, Temp. Compensating													C129							
P	1	CC45SH331J		2	29.	" " " " " "													C88							
P	1	CC45SH391J		2	30.	" " " " " "													C92							
P	1	CC45TH391J		2	31.	" " " " " "													C131							
P	2	CC45UJ751J		2	32.	" " " " " "													C83, 127							
P	2	CC-100-15		2	33.	" " " " , Disc.													C72, 150							
P	59	CC-100-16		2	34.	" " " " , Disc.													C1, 2, 7, 6, 11, 12, 16, 17, 24, 25, 26, 29, 30, 31, 36, 37, 38, 40, 45, 46, 47, 48, 50, 52, 53, 54, 56, 60, 61, 63, 67, 70, 71, 75, 94, 95, 96, 101, 102, 103, 107, 108, 110, 111, 112, 113, 116, 119, 120, 121, 132, 133, 134, 135, 144, 145, 146, 147, 148							
P	1	CC-100-23		2	35.	Capacitor, Fixed Ceramic, Disc.													C105(A), C105(B)							
P	1	CC-100-24		2	36.	" " " " " "													C73							
P	1	CC-101-2		1	37.	" " " " " "													C136							
P	3	CC-101-3		1	38.	Capacitor, Fixed Ceramic													C65, 66, 100							
P	1	CC-101-4		1	39.	" " " " " "													C32							
P	2	CC-101-9		1	40.	" " " " " "													C123, 122							
P	1	CE-100		1	41.	Capacitor, Dry, Electrolytic													C76							
P	1	CE-102-1		2	42.	" " , Electrolytic													C104, A, B,							
P	1	CE-103-5		1	43.	" " , "													C77							
P	4	CF-100	B	1	44.	Coil Form													P/O T5, 6, 7, L19							
P	16	CF-112		1	45.	Coil Form													L22							
	1	CF-117-1.0	B	1	46.	" " , Cut to size													L20							
	1	CF-117-1.5		1	47.	" " , " " "													T2, 3, 5,							
	3	CF-117-2.5		1	48.	" " , " " "																				

THE TECHNICAL MATERIEL CORPORATION

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GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX		PROJ. NO.										LIST NO. ML-GPR-90RX		
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE										SHEET 3 OF 34 SHEETS		
						A	B	C	D	E	F	G	H	J	K	L	M	N
						T U V W X Y Z AA										REMARKS		
						DESCRIPTION												
						ELECTRICAL COMPONENTS AND MECHANICAL PARTS (CONT.)												
P	1	CI-104		1	49.	Core, Toroidal										U/O	T1	
P	2	CI-109-4		2	50.	" , Tuning										U/O	T2	
P	4	CI-109-5		2	51.	" , "										U/O	T5, L19, 20	
P	9	CI-109-7		2	52.	" , "										U/O	L2, 4, 5, 8, 10, 11, 14, 16, 18,	
P	3	CI-109-10		2	53.	" , "										U/O	L3, 9, 15	
P	10	CI-109-11		2	54.	" , "										U/O	T5, 6, 7, L1, 7, 13, 22	
P	3	CI-109-12		2	55.	" , "										U/O	L6, 12, 17	
P	1	CI-109-15		2	56.	" , "										U/O	T3	
P	1	CI-109-16		2	57.	" , "										U/O	T4	
P	11	CI-114		1	58.	" , Powdered Iron										U/O	T11, L26, 27, 28, 29, 30, 31, 32, 33, 34, 35,	
	1	CL-100-5	B	1	58.1	Inductor											L38	
	1	CL-108-6	E	1	59.	Choke, RF											L25	
P	1	CL-117 (See Option 20 A)	pg. C1	1	60.	Coil, 1200 cps Peaking											L21	
P	1	CM15C050M			61.	Capacitor, Fixed, Silver Mica											C43	
P	1	CM15C271G			62.	" , " , " , "											C14	
P	2	CM15E111G			63.	" , " , " , "											C138, 141	
P	2	CM15E151G			64.	" , " , " , "											C117, 118	
P	2	CM15E560G			65.	" , " , " , "											C139, 140	
P	2	CM15E680G			66.	" , " , " , "											C142, 143	
P	1	CM20H102K		2	67.	" , " , " , "											C124	
P	1	CM20D152G		2	68.	" , " , " , "											C98	
P	1	CM20D431F		2	69.	" , " , " , "											C79	
P	1	CM20D1091F		2	70.	" , " , " , "											C81	
P	7	CM20D102G		2	71.	" , " , Mica Precision											C28, 49, 51, 55, 58, 62, 64,	
P	1	CM20D162F		2	72.	" , " , " , "											C13	
P	1	CM20D181G		2	73.	" , " , " , "											C27	
P	2	CM20D201G		2	74.	" , " , " , "											C34, 35	
P	2	CM20D221G		2	75.	" , " , " , "											C33, 39	
P	1	CM20D242G		2	76.	" , " , " , "											C41	
P	1	CM20D301G		2	77.	" , " , " , "											C44	

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX													PROJ. NO.	LIST NO. ML-GPR-90RX									
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	SHEET 4	OF 34	SHEETS		
						T	U	V	W	X	Y	Z	AA	DESCRIPTION													REMARKS
ELECTRICAL COMPONENTS AND MECHANICAL PARTS (CONT.)																											
P	2	CN-100-3		1	78.	Capacitor, Fixed, Moulded Plastic													C69, 97								
P	1	CR-100		1		Crystal													Y3								
P	1	CR-102		1	80.	Crystal, 455 Kc.													Y1								
P	1	CR-103		1	81.	Crystal, 3.5 Mc													Y2								
P	1	CT-104-1		1	81.1	Capacitor, Variable, Air													C149								
P	1	CT-104-5		1	82.	Capacitor, Variable, Air													C10								
P	1	CT-104-3		1	83.	" , " , "													C106								
P	1	CT-104-4		1	84.	" , " , "													C99								
P	1	CT-105-1		1	85.	" , " , "													C42								
P	1	CU-106		1	85.1	Clamp, Xtal													(1)CR-100 Mtg.								
P	2	CX-101		1	86.	Capacitor, Variable, Mica													C18,19,20,21,22,23								
P	1	DT-100		1	86.1	Detent, Rotary Switch													MP1 (u/w S1)								
P	1	FH-100-2		1	87.	Fuse, Extractor Post													Xf1								
P	1	FU-100-2		1	88.	Fuse													F1								
P	2	GR-122	C	2	89.	Split Gear Assembly													J2								
P	2	GR-123	A	2	90.	Gear, Dial Drive													J1A, B								
	1	IM-149		1	91.	Insulation, Aud. Sel. Network, Dust Cover													J3								
	1	IM-179-6		1	91.1	Insulation, Fishpaper													J4								
	1	IM-179-7		1	91.2	Insulation, Fishpaper																					
P	1	JJ-132		1	92.	Jack, Telephone																					
P	1	JJ-144		1	93.	Connector, Receptacle																					
P	1	JJ-145		1	94.	Connector, Receptacle																					
P	1	JJ-146		1	95.	Connector, Receptacle																					
P	2	MC-102	D	1	96.	Coupling, Switch Shaft													(1)CT-104-5, (1)A-1043								
P	2	MC-104-1	A	1	97.	Coupling, Flex.													(1)Xtal Sw., (1)R.D. Selector								
P	1	MC-104-2		1	97.1	Coupling, Flex.													(1) Range Selector								
P	2	MP-102-2	B	1	98.	Knob, Instrument type, Round																					
P	1	MP-106-2	A	1	99.	" , Instrument Skirt type																					
P	6	MP-108-2	A	1	100.	" , Skirt type																					
P	1	MP-109-1	A	1	101.	" , Instrument type																					
P	3	MP-109-2		1	102.	" , Instrument type													Black								
P	2	MP-110	B	2	103.	" , Instrument type																					

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX														PROJ. NO.	LIST NO. ML-GPR-90RX						
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE																			REMARKS
						A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S				
						T U V W X Y Z AA																			
						ELECTRICAL COMPONENTS AND MECHANICAL PARTS (CONT.)																			
P	1	MR-107	E	2	104.	Meter "S" Type																			M1
	1	MS-1133	A	1	104.1	Bracket, Switch																			
	6	MS-132	C	1	105.	Grounding Strap, I.F. Core																			
	2	MS-539 (Use A-829)		1	106.	Front Float																			(No Dwg.)
	1	MS-584	C	1	107.	Capacitor Bracket, Antenna Tuning																			
	2	MS-586	B	1	108.	Support Plate, Freq. Dial																			
	1	MS-587	F	4	109.	Can, Xtal Filter																			
	1	MS-591	E	1	110.	Bracket, BFO																			
	1	MS-592 (Use A-1025)		1	111.	Cover, Xtal Filter Can																			(No Dwg.)
	1	MS-593	B	2	112.	Chassis, 2nd Converter																			LD-311
	1	MS-608	P	Roll	113.	Chassis, Main																			
	1	MS-616 (Use A-984)		4	114.	Condenser, Mtg. Plate Assembly																			(No Dwg.)
	1	MS-1136		8	115.	Cover, RF Section, Top																			
	1	MS-621 (Use A-983)		8	116.	Wrap Around, RF Section																			(No Dwg.)
	1	MS-622 (Use A-985)		4	117.	Mtg. Plate, Counter Balance																			(No Dwg.)
P	1	MS-623	G	8	118.	Escutcheon, Front Panel																			
	1	MS-624	D	2	119.	Bottom Cover, 2nd Converter																			
	1	MS-625	J	8	120.	Chassis, RF Section																			
P	2	MS-631	A	2	121.	Dial Plate, Knob																			
	1	MS-634	G	4	122.	Cover RF Section, Bottom																			
	2	MS-635	C	1	123.	Bracket, Osc. Trimmer																			
	1	MS-650	K	8	124.	Chassis, Osc. Section																			
	1	MS-651	F	8	125.	Chassis, Ant. Section																			
	1	MS-953		1	127.	Bracket, Cond. Wrap Around																			
	1	NP-204		1	127.1	Name Plate, R-840/URR																			
P	1	NP-136		2	128.	TMC Emblem, Circular																			For Navy Use Only
	1	NP-205		1	128.1	Frequency Name Plate																			
P	1	PL-127		1	129.	Connector, 8 Prong																			
	1	NP-196-1		1	129.1	Name Plate, Identification																			For Commercial Use Only
P	2	PM-224	A	1	130.	Plate, Dial Locking																			
P	2	PM-225	A	1	131.	" , " " "																			
	2	PM-327	F	1	134.	Hub, Freq. Dial																			
	1	PM-463	A	1	134.1	Switch, Linkage Arm																			
	1	PM-462	B	1	134.2	Shaft Support																			
	1	PM-461	A	1	134.3	Coupling																			
	1	PM-460-5.00-BN	A	1	134.4	Shaft, .125 D																			

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX		PROJ. NO.										LIST NO. ML-GPR-90RX		
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE										SHEET 5A OF 34 SHEETS		
						A	B	C	D	E	F	G	H	J	K	L	M	N
						T U V W X Y Z AA												
						DESCRIPTION										REMARKS		
						ELECTRICAL COMPONENTS AND MECHANICAL PARTS												
	1	MS-637	D	8		Side Plate, Left												
	1	MS-638	D	8		" " , Right												
	1	MS-640	A	8		Bottom Cover												
	1	MS-1127	A	1		Door, Xtal												
	1	MS-1128	A	8		Front Panel, Machining												
	1	MS-1130	A	4		Chassis, Amplifier, Xtal Oscillator												
	1	MS-1131	A	2		Cover Chassis												
	1	MS-1132	A	2		Xtal, Chassis												
	1	MS-1140	A	8		Top Cover										Ref: MS-1162		
	2	MS-3524	A	1		Shim, Cover										(2) A-3273		

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX													PROJ. NO.					LIST NO. ML-GPR-90RX	
				ISSUE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	SHEET 6 OF 34 SHEETS		
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	DESCRIPTION	REMARKS																
	ELECTRICAL AND MECHANICAL PARTS (CONT.)																						
	2	PN-111		1	Pin, Locking	(2)MS-1127 Mtg.																	
	2	PM-338	C	2	135. Shaft, Dial Lock																		
	2	PM-341	B	1	136. Pin, Dial Lock																		
	1	PM-349	A	1	137. Spacer, Gear																		
	1	PM-480	B	1	Shaft, Switch																		
	2	PM-355	B	1	139. Spacer, Rear, Bandsread Cond.																		
	2	PM-691RF1.750B		1	Shaft, 1/4" Dia., FREQ. DIAL																		
	2	PM-691RF2.187P		1	Shaft, 1/4" Dia., BFO & XTAL FILTER																		
	2	PM-691RF3.125B		1	Shaft, 1/4" Dia., TUNING KNOB																		
	2	PM-416 (Use CS-121)		2	143. Machining, Inertia Wheel																		
	2	PM-428		1	144.1 Collar, Friction Drive	(2) A-978																	
P	1	PN-109-2		1	145. Pin, Roll																		
	1	PN-112		1	145.1 Pin Striker	Use PM-460-1.00-B																	
P	1	PX-251 (Use A-908)		1	146. Term. Board, BFO (No Dwg.)	P/O L22																	
	2	PX-252	A	2	147. Dial Blank																		
	1	PX-262 (Use A-942)		1	148. Terminal Board, 2nd Osc. Tank (No Dwg.)	P/O L19																	
	2	PX-264	D	1	149. Dial, Fiduciary																		
	1	PX-267 (Use A-976)		1	150. Term. Board, Load Coil, Xtal Filter (No Dwg.)	P/O L20																	
	1	PX-268 (Use A-977)		1	151. Term. Board, Xtal Filter IF (No Dwg.)	P/O T5																	
	1	PX-269 (Use A-996)		1	152. Term. Board, I.F. Composite (No Dwg.)	P/O T3, 4																	
	1	PX-270	B	1	153. Mtg. Board, Aud. Sel. Toroid	P/O L21																	
	1	PX-271 (Use A-992)		1	154. Terminal Board, 2nd Converter IF (No Dwg.)	P/O T2																	
P	1	PX-272 (Use A-980)		1	155. Terminal Board, Rear Chassis (No Dwg.)																		
	2	PX-320		1	156. Cap, Meter Terminal																		
	3	PX-275 (Use A-1004)		1	157. Term. Board, 455 KC IF (No Dwg.)	P/O T6, 7, 8																	
	1	PM691RF7.000P	A	1	158. Shaft, Ant. Tuning																		
	2	PX-413		1	160. Insulator, Condenser	(1)CB-130, (1)CB-131																	
P	2	PX-323		1	161. Coil Form, Grooved	P/O L17, 18																	
P	2	PX-333	A	1	162. Terminal Cap., Meter																		
	1	PX-345 (Use A-1346)		1	163. Terminal Board, High Pass Filter (No Dwg.)																		
	4	PM-496		1	163.1 Mounting Bar, Capacitor	(2)CB-130, (2)CB-131																	
	1	PM-641		2	163.3 Rear Stiffener																		

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX		PROJ. NO.										LIST NO. ML-GPR-90RX												
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE										SHEET	7 OF 34 SHEETS											
						A	B	C	D	E	F	G	H	J	K			L	M	N	P	R	S					
						T	U	V	W	X	Y	Z	AA															
					DESCRIPTION																	REMARKS						
					ELECTRICAL COMPONENTS AND MECHANICAL PARTS (CONT.)																							
P	1	RA101ASSA251A		2	164.	Resistor, Variable																	R94					
P	3	RC20GF100K		2	165.	Resistor, Fixed Composition																	R89, 90, 91					
P	2	RC20GF100J		2	166.	" " " "																	R32, 33					
P	2	RC20GF101J		2	167.	" " " "																	R17, 35					
P	1	RC20GF102J		2	168.	" " " "																	R93					
P	2	RC20GF102K		2	169.	" " " "																	R12, R102					
P	1	RC20GF103K		2	170.	" " " "																	R22					
P	6	RC20GF104K		2	171.	" " " "																	R2, 7, 16, 28, 38, 43,					
P	2	RC20GF105K		2	172.	" " " "																	R37, 59					
P	2	RC20GF123K		2	173.	" " " "																	R29, 46					
P	3	RC20GF124K		2	174.	" " " "																	R70, 84, 85,					
P	2	RC20GF125K		2	175.	" " " "																	R63, 64					
P	1	RC20GF151J		2	176.	" " " "																	R24					
P	1	RC20GF153J		2	177.	" " " "																	R25					
P	1	RC20GF154K		2	178.	" " " "																	R20					
P	1	RC20GF220J		2	179.	" " " "																	R34					
P	6	RC20GF220K		2	180.	" " " "																	R8, 15, 36, 44, 53, 83					
P	6	RC20GF221K		2	181.	" " " "																	R1, 10, 39, 45, 54, 69,					
P	3	RC20GF223K		2	182.	" " " "																	R78, 80, R103					
P	2	RC20GF224K		2	183.	" " " "																	R60, 86					
P	2	RC20GF272K		2	184.	" " " "																	R19, 79					
P	1	RC20GF274K		2	185.	" " " "																	R95					
P	1	RC20GF331K		2	186.	" " " "																	R18					
P	1	RC20GF334K		2	187.	" " " "																	R66					
P	1	RC20GF390K		2	188.	" " " "																	R9					
P	1	RC20GF394K		2	189.	" " " "																	R30					
P	3	RC20GF470K		2	190.	" " " "																	R23, 26, R100					
P	1	RC20GF472J		2	191.	" " " "																	R3					
P	3	RC20GF472K		2	192.	" " " "																	R14, 21, 65					
P	3	RC20GF473K		2	193.	" " " "																	R58, 82, 99					
P	3	RC20GF474K		2	194.	" " " "																	R61, 73, 97					
P	1	RC20GF511J		2	195.	" " " "																	R27					
P	5	RC20GF563K		2	196.	" " " "																	R11, 41, 48, 56, 76					
P	1	RC20GF121K		2	196.1	" " " "																	R98					

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX		PROJ. NO.										LIST NO. ML-GPR-90RX	
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE										SHEET 8	OF 34 SHEETS
						A	B	C	D	E	F	G	H	J	K		
						T U V W X Y Z AA											
						DESCRIPTION										REMARKS	
						ELECTRICAL COMPONENTS AND MECHANICAL PARTS (CONT.)											
P	2	RC20GF682K		2	197.	Resistor, Fixed Composition										R31, 96	
P	1	RC20GF684K		2	198.	" " "										R77	
P	1	RC20GF824K		2	199.	" , " "										R62	
P	1	RC20GF825K		2	200.	" , " "										R67	
P	1	RC30GF153J		2	201.	Resistor, Fixed Composition										R5	
P	2	RC30GF223J		2	202.	" , " "										R4, 72	
P	1	RC30GF4R7J		2	203.	" , " "										R88	
P	1	RC30GF472K		2	204.	" , " "										R6	
P	3	RC30GF563K		2	205.	" , " "										R40, 47, 55	
P	2	RC30GF682K		2	206.	" , " "										R42, 57	
P	1	RC30GF223K		2	206.1	" , " "										R101	
P	2	RC42GF153J		2	207.	" , " "										R13, 92	
P	1	RC42GF223J		2	208.	" , " "										R51	
P	1	RC42GF301J		2	209.	" , " "										R74	
P	1	RC42GF333J		2	210.	" , " "										R49	
P	1	RC42GF561K		2	211.	" , " "										R75	
P	1	RC42GF682K		2	212.	" , " "										R52	
P	1	RC42GF680K		2	212.1	" , " "										R104	
P	1	RV4LAYS103B		2	213.	Resistor, Variable										R50	
P	1	RV4NAYSD105D		2	214.	" , " "										R68	
P	1	RV4NAYSC152BYY		2	215.	" , " "										R71	
P	1	RV4NBYS502E		2	216.	" , " "										R81 (c/o S10)	
P	1	RW-110-30		1	217.	Resistor, Fixed, W.W.										R87	
P	2	RY-121-6-3-5.00		1	217.1	Strip, Sponge Rubber											
	18	RY-129-8		1		Bushing											
	4	SM0540BP1.625				Stud, Oscillator Switch											
	2	SM0540BP2.250				Stud, Antenna Switch											
P	14	SP-102	C	1	219.	Spring, Lock											
P	2	SP-116-R	B	1	220.	" , Compression											
P	1	SP-117		1	221.	Spring, Extension										(1)DT-100	

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX													PROJ. NO.	LIST NO. <u>ML-GPR-90RX</u>	
				ISSUE <u>A B C D E F G H J K L M N P R S</u>														SHEET <u>9</u> OF <u>34</u> SHEETS	
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	DESCRIPTION	REMARKS												
					ELECTRICAL COMPONENTS AND MECHANICAL PARTS (CONT.)														
P	5	ST-103-1-62		2	223.	Switch, Toggle	SPST	S3,4,8,9,11											
P	1	SW-147		1	224.	Switch, Xtal Selector		S2, A, B,											
P	1	SW-156		1	225.	Switch, Audio Selectivity		S5											
P	2	SW-163	A	1	227.	Switch, Sliding		S6A, B S7A, B											
P	1	SW-222		2	227.1	Switch, HFO 12 position		S12, A & B											
P	1	SW-203	A	2	227.2	Switch, HFO 2 position		S13											
P	1	TF-158		2	228.	Filter Choke		L23											
P	1	TF-159	B	2	229.	Transformer, Output		T9											
P	1	TF-169	B	2	230.	Transformer, Power		T10											
	2	TE-180		1		Spacer, Condensor Plate Support													
P	2	TM-116-4		1	231.	Terminal Strip		E1, E3											
P	1	TM-116-5			232.	" "		E2											
P	2	TM-117-4			234.	" "													
P	2	TM-117-10			235.	" "													
P	8	TM-117-11			236.	" "													
P	2	TM-117-35			237.	" "		On 2nd Conv. Chassis											
P	3	TM-117-26			237.1	" "													
P	1	TR-116		1	238.	Transformer, Antenna		T1											
P	4	TS-101-P01		2	239.	Socket, Octal (Use Cinch 51B13405)		X1,2 XV11, 14											
P	1	TS-102-C01		1	240.	Socket, Min. 7 pin (Ceramic)		XV12											
P	13	TS-102-P01		1	241.	Socket, Min. 7 pin		XV1,2,3,4,5,6,7,8,9,13, 15,16,17											
P	1	TS-102-U01		1	242.	Shield, Tube													
P	12	TS-102-U02		1	243.	Shield, Tube													
P	1	TS-102-U03		1	244.	Shield, Tube													
P	1	TS-103-P01		2	245.	Socket, Noval		XV10											
P	1	TS-103-U02		2	246.	Shield Tube, Noval													
P	1	TS-105		1	247.	Socket, Xtal		XY3											
P	1	TS-127		1	248.	Socket, Lamp, Meter type		X13											
P	2	TS-107-2		1	249.	Socket, Miniature Bayonet		X11, 2											
P	10	TS-104-1		1	249.1	Socket, Crystal, Ceramic		XY4,5,6,7,8,9,10,11,12, 13											
P	2	UG-625*/U		1	249.2	Connector, Coaxial		J5, J6											

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

CHECKED

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GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX		PROJ. NO.										LIST NO. ML-GPR-90RX								
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE										SHEET 10 OF 34 SHEETS								
						A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S			
						T	U	V	W	X	Y	Z	AA	DESCRIPTION										REMARKS
						ELECTRICAL COMPONENTS AND MECHANICAL PARTS (CONT.)																		
P	1	WS-100-1		2	250.	Wafer, Switch										S1A								
P	2	WS-100-2		2	251.	Wafer, Switch										S1D, S1B								
P	2	WS-100-3		2	252.	Wafer, Switch										S1C S1E								
P	1	WS-100-4	C	2	253.	Wafer, Switch										S1F								
P	1	WS-100-5		2	254.	Wafer, Switch										S1G								
P	1	WS-100-7		2	256.	Wafer, Switch										S-IAA								

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GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX		PROJ. NO.										LIST NO. ML-GPR-90RX	
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE										SHEET 11 OF 34 SHEETS	
						A	B	C	D	E	F	G	H	J	K	L	M
						TUBES										REMARKS	
P	1	0A2				Tube, Electron										V15	
P	1	5U4GB				" , "										V14	
P	1	6AB4				" , "										V1	
P	2	6CB6A				" , "										V2, V16	
P	1	6AU6A				" , "										V3	
P	1	6BE6				" , "										V4	
P	4	6BA6				" , "										V5,6,7,8,	
P	1	6AL5				" , "										V9	
P	1	6V6GT				" , "										V11	
P	3	6AG5				" , "										V12, 13, 17	
P	1	12AX7				" , "										V10	

MATERIAL LIST				REV	T	U	V	W	X	Y	Z	AA							
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS											
						USED ON	QUAN.												
2	AN565D4H2		1	Screw, Headless Set		PM-461	Mtg.	2											
1	AN565D4H3		1	Screw, Headless Set		PM-463	Mtg.	1											
10	AN565D6H2		1	Screw, Headless Set															
16	AN565D6H3		1	Screw, Headless Set		MC-102	Mtg.	4											
						MC-104-1	Mtg.	4											
						MC-104-2	Mtg.	4											
						PM-416	Mtg.	4											
4	AN565D6H6		1	Screw, Headless Set															
2	AN565D8H6		1	Screw, Headless Set															
1	CU-118-3S		2	Clamp, Tube		V11	Mtg.	1											
1	CU-118-8S		2	Clamp, Tube		V14	Mtg.	1											
4	CU-101-1		2	Ferrule, Inner		CA-253		2											
4	CU-101-2		2	Ferrule, Outer		CA-253		2											
3	CU-102-1		2	Clamp, "G" Type															
1	CU-102-2		2	Clamp, "G" Type															
1	CU-102-4		2	Clamp, "G" Type															
2	CU-104-2		2	Clamp, Cable		CA-		2											
1	CU-107-2		2	Bushing, Strain Relief															
24	EY-100-1		1	Eyelet, Flange, Flat		A-907		2											
2	EY-100-2		1	Eyelet, Flange, Flat															
6	EY-101-3		1	Eyelet, Rolled Flange		(6) A-3273		6											
2	EY-102-15		1	Grommet, Elastic															
1	EY102-2		1	Grommet, Rubber															
1	EY102-4		1	Grommer, Rubber															

MATERIAL LIST				REV	T	U	V	W	X	Y	Z	AA								MODEL ML-GPR-90RX
																				SHEET 13 OF 34
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS												
						USED ON	QUAN.													
1	FC-100-6		1	Clamp, Crystal		CR-100 Mtg.	1													
1	FS-102-1		1	Spring, "S" Type		FS-113 Mtg.	1													
1	FS-109-3		1	Ring, Retaining, Stud		FS-113 Mtg.	1													
18	FS-112		1	Fastener, Tuning, Small		Coil Mtg.														
1	FS-113-1		1	Fastener, Knob		MS-1127 Mtg.	1													
6	FW02HBR			Washer, Flat		(6)A-3273	6													
3	FW02HBN		1	Washer, Flat		MR-107 Mtg.	3													
14	FW04HBN		1	Washer, Flat		CU-104 Mtg.	2													
						MS-1132 Mtg.	4													
						MS-1166 Mtg.	2													
						PM-462 Mtg.	2													
						PX-264 Mtg.	4													
3	FW06HBN		1	Washer, Flat		PM-338	2													
						RW-110 Mtg.	1													
1	FW08HBN		1	Washer, Flat																
1	FW25HBN		1	Washer, Flat																
1	FW-100-2AE		1	Washer, Flat		A-924	2													
1	FW-100-18BN			Washer, Flat																
1	GA-137-3		1	Gasket, Neoprene		A-924	1													

MATERIAL LIST

REV

T	U	V	W	X	Y	Z	AA													
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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
1	HB-105		1	Plug, Button (attach NP-136 to HB-105 Ass'y.)				
63	LWE04MRN		1	Lockwasher, Ext.		CT-104-5 Mtg.	2	
						CU-104 Mtg.	1	
						JJ-144 Mtg.	4	
						JJ-145 Mtg.	2	
						JJ-146 Mtg.	2	
						MS-1130 Mtg.	4	
						MS-1132 Mtg.	4	
						PM-462 Mtg.	2	
						PX-264 Mtg.	4	
						TE-102 Mtg.	6	
						TM-116 Mtg.	4	
						TS-102 Mtg.	28	

MATERIAL LIST				REV	T	U	V	W	X	Y	Z	AA								
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS												
						USED ON	QUAN.													
156	LWE06MRN		1	Lockwasher, Ext.		A-980	Mtg.	2												
						A-1025	Mtg.	3												
						A-1043	Mtg.	3												
						A-1090	Mtg.	4												
						A-1347	Mtg.	2												
						CB-130	Mtg.	4												
						CB-131	Mtg.	4												
						CE-102	Mtg.	2												
						CX-101	Mtg.	4												
						Coil, Can	Mtg.	32												
						MS-584	Mtg.	4												
						MS-593	Mtg.	2												
						MS-621	Mtg.	6												
						MS-624	Mtg.	2												
						MS-625	Mtg.	4												
						MS-631	Mtg.	6												
						MS-635	Mtg.	4												
						MS-637	Mtg.	8												
						MS-638	Mtg.	8												
						MS-650	Mtg.	4												
						MS-651	Mtg.	4												
						MS-953	Mtg.	3												
						MS-1128	Mtg.	6												
						PM-496	Mtg.	8												
						PM-641	Mtg.	4												
						TE-135-5	Mtg.	4												
						TF-158	Mtg.	2												
						TF-159	Mtg.	2												
						TR-116	Mtg.	1												
						TS-101	Mtg.	8												
						SC-106	Mtg.	6												

MATERIAL LIST

REV

T	U	V	W	X	Y	Z	AA																
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MODEL ML-GPR-90RX
SHEET 16 OF 34

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
17	LWE08MRN		1	Lockwasher, Ext.		A-984 Mtg.	2	
						SP-117 Mtg.	1	
						TE-148 Mtg.	8	
						TE-180 Mtg.	2	
						TF-169 Mtg.	4	
2	LWE10MRN		1	Lockwasher, Ext.		A-1037 Mtg.	2	
2	LWE37MRN		1	Lockwasher, Ext.				
17	LWI04MRN		1	Lockwasher, Int.				
16	LWI06MRN		1	Lockwasher, Int		DT-100 Mtg.	6	
						MS-640 Mtg.	6	
						MS-1140 Mtg.	4	
6	LWI25LRN		1	Lockwasher, Int.				
4	LWI37LRN		1	Lockwasher, Int.				
6	LWI50LRN		1	Lockwasher, Int.				
3	LWS02MRN		1	Lockwasher, Split		MR-107 Mtg.	3	
2	LWS03MRN		1	Lockwasher, Split		FS-102 Mtg.	2	
38	LWS04MRN		1	Lockwasher, Split		TS-102 Mtg.	28	
						TS-104 Mtg.	10	

MATERIAL LIST

REV

T U V W X Y Z AA

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
15	NT-102		1	Nut, Hex				
4	NT-104-1		1	Nut, Knurled				
5	NT-108-1		2	Nut, Speed		MS-1131 Mtg.	5	
7	NT-108-2		2	Nut, Speed				
3	NT-108-4		2	Nut, Speed		MR-107	3	
18	NT-112		1	Nut, Speed				
2	NT-129-832-4			Nut, Swage		MS-587	2	
19	NT-129-632-4		1	Nut, Swage		MS-591	1	
						MS-625	6	
						MS-650	6	
						MS-651 Mtg.	6	
8	NT-129-1032-4		1	Nut, Swage		MS-637	4	
						MS-638	4	
3	NTH0256BN6		1	Nut, Hex		MR-107 Mtg.	3	
48	NTH0440BN6		1	Nut, Hex		JJ-144 Mtg.	4	
						JJ-145 Mtg.	2	
						JJ-146 Mtg.	2	
						TS-102 Mtg.	28	
						TS-104 Mtg.	10	
						TS-105 Mtg.	2	
2	NTH0348BN6		1	Nut, Hex		FS-102 Mtg	2	
21	NTH0440BN8		1	Nut, Hex		CU-104 Mtg.	1	
						MS-1130 Mtg.	4	
						MS-1132 Mtg.	4	
						PM-462 Mtg.	2	
						PX-269 Mtg.	4	
						TM-116 Mtg.	4	
						TM-117-26 Mtg.	2	

MATERIAL LIST

REV

T U V W X Y Z AA

MODEL ML-GPR-90RX

SHEET 18 OF 34

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
74	NTH0632BN8		1	Nut, Hex		A-1025	Mtg.	3
						A-1040	Mtg.	2
						A-1041	Mtg.	2
						CE-102	Mtg.	2
						CX-101	Mtg.	4
						DT-100	Mtg.	6
						MS-584	Mtg.	2
						MS-593	Mtg.	2
						MS-621	Mtg.	12
						MS-624	Mtg.	2
						MS-625	Mtg.	4
						MS-635	Mtg.	4
						MS-650	Mtg.	4
						MS-651	Mtg.	4
						MS-953	Mtg.	4
SC-106	Mtg.	6						
TF-159	Mtg.	2						
TR-116	Mtg.	1						
TS-101	Mtg.	8						
23	NTH0632BN10		1	Nut, Hex		MS-637	Mtg.	8
						MS-638	Mtg.	8
						MS-1128	Mtg.	6
						RW-110	Mtg.	1
4	NTH0832BN8		1	Nut, Hex				
14	NTH0832BN10		1	Nut, Hex		A-984	Mtg.	2
						TE-148	Mtg.	8
						TE-180	Mtg.	2
						TF-169	Mtg.	2

MATERIAL LIST

REV

T U V W X Y Z AA

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
1	NTH1032BN12		1	Nut, Hex				
4	NTH3732BN16		1	Nut, Hex				
5	NTH5032BN18		1	Nut, Hex				
10	PM-346-2		1	Spacer, Bandswitch				
2	PM-346-4		1	Spacer, Bandswitch				
2	PM-346-5		1	Spacer, Bandswitch				
1	PN-108		1	Pin, Striker				
2	PX-347		1	Bushing, Coil				
16	PX-348		1	Bushing, Coil				
14	SC-106-1		1	Bolt, Spade, Straight		MS-1136 Mtg.	6	A-983-(6)
22	SC-107-1		1	Bolt, Spade, Offset		A-907	2	
						Coil Can Mtg.	16	
						MS-621 Mtg.	4	
						TF-159 Mtg.	2	
2	SC-123-0-4		1	Screw, Drive		For PM480	2	
1	SC-131-0632-BN8		1	Screw, Machine, Undercut				

MATERIAL LIST

REV

T U V W X Y Z AA

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
8	SCBP0440BN3		1	Screw, Machine		CT-104-5 Mtg.	2	
						TE-102- Mtg.	6	
40	SCBP0440BN5		1	Screw, Machine		CU-104 Mtg.	2	
						JJ-144 Mtg.	4	
						JJ-146 Mtg.	2	
						TM-116 Mtg.	4	
						TS-102 Mtg.	28	
2	SCBP0440BN6		1	Screw, Machine		JJ-145	2	
10	SCBP0440BN8		1	Screw, Machine		TS-104 Mtg.	10	
2	SCBP0440BN10		1	Screw, Machine		TS-105 Mtg.	2	
2	SCBP0440BN12		1	Screw, Machine		PM-462 Mtg.	2	
61	SCBP0632BN4		1	Screw, Machine		A-980 Mtg.	2	
						A-1347 Mtg.	2	
						CE-102 Mtg.	2	
						Coil Mtg.	16	
						MS-584 Mtg.	2	
						MS-634 Mtg.	6	
						MS-640 Mtg.	6	
						MS-953 Mtg.	4	
						MS-1131 Mtg.	5	
						MS-1140 Mtg.	4	
						TE-135-5 Mtg.	4	
						TS-101 Mtg.	8	
14	SCBP0632BN5		1	Screw, Machine	07-101	CX-101 Mtg.	4	
						MS-631 Mtg.	6	
						MS-635 Mtg.	4	

MATERIAL LIST

REV

7	U	V	W	X	Y	Z	A													
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QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
32	SCBP0632BN6		1	Screw, Machine				
4	SCBP0632BN8		1	Screw, Machine				
2	SCBP0632BN9		1	Screw, Machine		BI-101-44 AF	2	
						Mtg.		
1	SCBP0632BN15		1	Screw, Machine		TR-116	1	
7	SCBP0632BN16		1	Screw, Machine		Mtg.		
						TR-116	1	
						Mtg.		
1	SCBP0632BN24		1	Screw, Machine				
3	SCBP0832BN8		1	Screw, Machine		A-984	2	
						Mtg.		
						SP-117	1	
						Mtg.		
8	SCBP1032BN5		1	Screw, Machine		A-1020	8	
						Mtg.		
3	SCFP0256BN5		1	Screw, Machine		MR-107	3	
						Mtg.		
2	SCFP0348BN4		1	Screw, Machine		FS-102	2	
						Mtg.		
2	SCFP0440BN4		1	Screw, Machine		CT-104-1	2	
						Mtg.		
8	SCFP0440BN8		1	Screw, Machine		MS-1130	4	
						Mtg.		
						MS-1132	4	
						Mtg.		
16	SCFP0632BN5		1	Screw, Machine		MS-625	4	
						Mtg.		
						MS-650	4	
						Mtg.		
						MS-651	4	
						Mtg.		
						PM-641	4	
						Mtg.		

MATERIAL LIST				REV	H U V W X Y Z AA												MODEL ML-GPR-90RX	
QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS										
						USED ON	QUAN.											
6	TE-102-2		1	Terminal, Turret														
6	TE-108-1		1	Standoff, Rivet Type														
18	TE-108-6		1	Standoff, Rivet Type														
9	TE-111-1		1	Lug, Solder		R68	Mtg.	1										
6	TE-116-1		1	Lug, Solder		R81	Mtg.	1										
6	TE-116-2		1	Lug, Solder		CT-104-1		1										
6	TE-117-11		1	Spacer, Standoff		SC-106	Mtg.	6										
2	TE-135-3		1	Spacer, Standoff														
6	TE-135-4		1	Spacer, Standoff														
2	TE-135-5		1	Spacer, Standoff		MS-593		2										
1	TE-135-23		1	Spacer, Standoff														
6	TE-140		1	Spacer														
3	TE-146-1		1	Collar and Lug		(1)A894, (1)A903, (1)A1355												
34	TE-146-2A		1	Collar and Lug														
2	TE-146-3		1	Collar and Lug														
8	TE-148		1	Spacer, Sub-Panel		A-985-1		4										
						A-985-2		4										
1	TE-129		1	Lug, Terminal		A-903		1										
1	TE-132		1	Lug, Terminal		A-1355		1										
15	TE-149-120		1	Lug, Solder														
8	TE-149-144		1	Lug, Solder														
4	TE-150		1	Spacer, Condenser														
90	TE-151		1	Lug, Terminal														
1	TE-154-.130		1	Lug, Dual														
1	WA-101-1		1	Washer, Fiber		MS-1127	Spacer	1										
16	WA-102-4		1	Washer, Fiber, Shoulder		PX-264	Mtg.	8										
12	WA-109-17		1	Washer, Fiber		TS-104	Mtg.	10										
						TS-105	Mtg.	2										
2	WA-109-46		1	Washer, Fiber														
8	WA-109-56		1	Washer, Fiber		PX-264	Mtg.	8										
2	WA-113		1	Washer, "C" Type	Dial Lock Shaft													
2	WA-115		1	Washer, Spring Type		PM-338		2										

MATERIAL LIST

REV

T U V W X Y Z AA

MODEL ML-GPR-90RX

SHEET 24 OF 34

QUAN. PER UNIT	PART NO.	DWG. REV.	DWG. SIZE	DESCRIPTION HARDWARE	REF.	LOCATION		SYMBOLS
						USED ON	QUAN.	
4	WA-118-3		1	Cup, Washer	Dial Drive			
4	WA-122		1	Washer, Friction				
8	WA-123		1	Washer, Band Switch		MS-593	2	
						MS-624	2	
20	WA-125-2		1	Washer, Flat		A-978	6	
6	WA-126		1	Hub, Shim, Friction Drive		A-978	2	
2	WA-127		1	Washer, Friction Drive				

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90 RX		PROJ. NO.				LIST NO. ML-GPR-90RX					
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE								SHEET 25 OF 34 SHEETS	
						T U V W X Y Z AA				L S					
						LOOSE ITEMS		SUPPLIED W/UNIT		REMARKS					
8	FW10MBN					Washer, Flat				Panel Mtg.					
1	PL-123		1			Plug, Battery type		(Place in Manila Envelop)		P1 (J4 Mate)					
1	PL-124		1			Plug, Shell, W/Liner		(Place in Manila Envelop)		u/w P1					
2	PL-147-2					Connector, Plug, Phono				J1 Mate					
1	Manila Envelop														
1	IN-156		1			Instruction Book									
						(For rack mounting, increase IN-156 to 2 in quantity)									
8	SCBS1032BN8					Screw, Machine				Panel Mtg.					
8	WA-101-5					Washer, Fiber				Panel Mtg.					

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PURCHASED ITEM	MATERIAL LIST		MODEL GPR-90 RX			PROJ. NO.					LIST NO. MI-GPR-90RX						
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE					SHEET 26 OF 34 SHEETS						
						T	U	V	W	X	Y	Z	A				
						SUPPORTING DRAWINGS		SPECIFICATIONS		REMARKS							
2	A-829	D	1		Float, Front, Sub-Assembly												
1	A-892	F	2		Coil, Antenna Transformer Assy.												L1
1	A-894	G	2		Coil, Oscillator Assembly												L13
1	A-896	F	2		Coil, Oscillator Assembly												L14
1	A-897	G	2		Coil, Antenna Transformer Assy.												L2
1	A-898	F	2		Coil, Antenna Transformer Assy.												L3
1	A-899	H	2		Coil, Oscillator Assembly												L15
1	A-900	F	2		Coil, Antenna Assembly												L5
1	A-901	E	2		Antenna Transformer Assembly												L4
1	A-903	G	2		Coil, Oscillator Assembly												L16
1	A-905	H	2		Coil, Antenna Assembly												L6
1	A-907	J	2		Can Assembly, BFO												
1	A-908	H	1		Terminal Board Sub Assy., BFO												P/O L22
1	A-924	D	2		Network Assy., Audio Selective												
1	A-942	E	1		Terminal Board Assy., 2nd Osc. Tank												P/O L19
1	A-944	B	1		Load Coil, Xtal Filter												L20
4	A-949	C	1		IF Can Assy., 3.955 Mc											u/o	T2,3,4,5,
1	A-961	G	2		Transformer, RF Assy.												L7
1	A-962	F	2		" " "												L8
1	A-963	F	2		" " "												L9
1	A-964	E	2		" " "												L10
1	A-965	F	2		" " "												L11
1	A-966	G	2		" " "												L12
1	A-976		1		Term. Board Assy., Xtal Fil. Load Coil										u/o		L20
1	A-977	D	1		Term. Board Assy., Xtal Fil. IF										u/o		T5
2	A-978	C	1		Friction Drive Assembly												
1	A-980	D	1		Term. Board Sub Assy., Rear Chassis												
1	A-983	F	8		R.F. Wrap Around Assy.												
1	A-984	L	4		Condenser Mtg. Plate Assy.												
1	A-985-1	G	4		Counterbalance Mtg. Plate Assy. Left												
1	A-985-2		4		" " " " Right												
1	A-989	F	1		Auto Transformer, 2nd Converter												T11
1	A-992	F	1		Term. Board Assy. 2nd Converter IF										u/o		T2
1	A-996	E	1		Term. Board Assy. IF Composite										u/o		T3,4

MATERIAL LIST		REV.											MODEL	ML-GPR-90RX			
														SHEET	27	OF	34
QUAN. PER UNIT	PART NO.	DESCRIPTION	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS										
				USED ON	USED TO MOUNT	QUAN.											
SUPPORTING DRAWINGS (CONTINUED)																	
3	A-1004	Terminal Board Assy., 455 KC, IF		A-1039		3											
1	A-1006	Assembly Details of TR-116															
1	A-1021	Connector Assy., 8 Prong					PL1										
2	A-1023	Support Plate Assy.															
1	A-1024-1	Dial Assembly, Main Tuning															
1	A-1024-3	Dial Assembly, Band Spread															
1	A-1025	Cover, Xtal Filter Can															
4	A-1033-1	Can Assembly		A-1039, A-1041		4											
1	A-1034	Filter Assy., Xtal IF					T5										
1	A-1037	Xtal Filter Assy.					L20										
1	A-1038	Assy., Composite IF Trans. (4 is P/O T3)					T3,4										
3	A-1039	Assy., 455 KC IF Trans.					T6,7,8										
1	A-1040	Assy., 2nd Conv. Input Trans.					T2										
1	A-1041	Assy., 2nd Conv. Osc. Coil					L19										
1	A-1043-1	Assy., BFO Oscillator		A-1043-2		1	L22										
1	A-1043-2	BFO Osc., Assy.															
3	A-1045	Choke, RF					L26,27,31										
2	A-1076	Coil, High Pass Filter					L28,30										
1	A-1077	Coil, High Pass Filter					L29										
1	A-1092	Term. Board Assy., Rear Chassis															
1	A-1327	Insulator Assembly		A-1006		1											
1	A-1344	Coil Assembly					L35										
3	A-1345	Coil Assembly					L32,33,34										
1	A-1346	Term. Board Sub-Assembly, High Pass Filters															
1	A-1347	Term. Board Assy., High Pass Filters															
1	A-1348	Switch Wafer Sub-Assembly															
1	A-1355	Coil, Osc. Assembly					L18										
1	A-1356	Coil, Osc. Assembly					L17										
1	A-1358	Final Assembly, GPR (Not Drawn)															
1	A-1470	Band Switch Assembly					S1										
1	A-1480	Switch Linkage Arm															
1	A-3273	Cover Assy, 2nd Conv. Chassis															
1	CA-245	Cable, Main															
1	CA-253	Cable Assembly, 2nd Conv. to Xtal Fil. IF.															
2	CL-134-3(A-1619-3)	R. F. Coil Assembly					L36,37										

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GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST			MODEL GPR-90RXD													PROJ. NO.					LIST NO. ML-GPR-90RXD			
	QUANTITY REQ.	P N L	PART NO.	REV	DWG SIZE	ISSUE													REF	SHEET 28 OF 34 SHEETS					
						A	B	C	D	E	F	G	H	J	K	L	M	N		P	R	S			
						T U V W X Y Z AA																			
						DESCRIPTION													SYMBOLS						
						<u>SUPPORTING DRAWINGS</u>																			
	1		CA-262	A	2	Cable, RF																			
	1		CA-270	A	2	Cable, Limiter																			
	1		CA-418-11		1	Cable, Assembly, R.F, 2nd Conv to Rear TB																			
	1		CA-305		2	Cable Assembly, Filament																			
	1		CA-352			Cable, Osc. Input																			
	1		CA-353			Cable, Amp. Xtal Osc.																			
	1		CA-355-0-3		1	Jumper													For E1						
	1		CH-144			Selectivity Curve																			
	1		CK-345	H		Schematic Diagram																			
	2		CS-121	A	2	Casting, Inertia Wheel																			
	1		GP-135		1	Audio Fidelity Curves																			
	1		IN-122		8	Bottom View of Chassis Showing Alignment Adjustments.																			
	1		IN-123		8	Top View of Chassis Showing Alignment Adjustments																			
	1		LD-217-A	A		Dial, Main Tuning																			
	1		LD-611		8	Dial, Bandsread																			
	1		LD-308	B	8	Lettering, Chassis, Top & Rear Outside																			
	1		LD-308		8	Lettering, Chassis, Bottom																			
	1		LD-310		4	Lettering, Bottom Cover, RF Section																			
	1		LD-311		2	Lettering, 2nd Conv. Chassis													MS-593						
	1		LD-363	A	8	Front Panel, Silk Screen																			
	1		LD-367		1	Chassis Xtal Osc. Lettering																			
	1		LD-368		1	Xtal Chassis Lettering																			
P	1		MS-1162		1	Cover, Blank													For: MS-1140						
	1		PM-460-1.00-B	A	1	Shaft, .125 D													Used For PN-112						

GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST		MODEL GPR-90 RX		PROJ. NO.													LIST NO. ML-GPR-90RX	
			ISSUE	ABCDEF GHIJKLMNPRS														SHEET 29	OF 34
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	DESCRIPTION SPECIFICATIONS													REMARKS
	S-107 S-114 S-115 S-174 S-260 S-264 S-280 S-404				<p style="text-align: center;"><u>SPECIFICATIONS</u></p> <p>Water Dip Lacquer Zinc Chromate Primer Smooth Gray Enamel Dark Gray Enamel GPR Test & Alignment Procedure Band Spread Dial Division IF (455 KC) Test & Alignment Procedure Yellow Iridite</p>														

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PURCHASED ITEM	MATERIAL LIST		MODEL GPR-90 RX		PROJ. NO.													LIST NO. ML-GPR-90RX		
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE													SHEET 30 OF 34 SHEETS	
						A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
						T U V W X Y Z AA														
						DESCRIPTION													REMARKS	
						<u>OPTION A</u> <u>PURCHASED ITEM</u> (USING CL-117)														
P	1	CL-117	C		1	Coil, 1200 cycles Peaking														
P	X	PX-104-1-.034			1	Insulation, Sleeving														
P	X	WL-100-7			1	Wire, Buss 22 ga.														
						<u>OPTION B</u> <u>MFG. BY TMC</u> (USING A-1482)														
P	1	GI-103-7			1	Core, Molybdenum														
	2	FW-100-2-AL			1	Washer, Flat (Special)														
	2	GA-140-1-N4	A		1	Gasket, Neoprene														
P	X	GL-110			1	Wax, Impregnating														
P	X	LWC28(7)UO			2	Cable, Insulated														
P	X	PX-104-1-.034			1	Insulation, Sleeving														
P	230 ft.	WI-123-35			1	Wire, Magnet														
						<u>SUPPORTING DRAWINGS</u>														
	1	A-1482			1	Coil, 1200 cycles Peaking														

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MATERIAL LIST		MODEL GPR-90 RX										PROJ. NO.					LIST NO. ML-GPR-90RX		
		ISSUE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	SHEET 31
PART NO.	RAW MATERIAL	STOCK SIZE	TYPE & TEMPER	T U V W X Y Z AA												TOTAL PER UNIT	TOTAL PER UNIT (WEIGHT)		
Rod	Brass	5-40 Threads	Free Turn													15" Long			
Rod	Brass	7/16 Diameter	Free Turn													1½" Long			
Rod	Brass	9/32 Diameter	Free Turn													16" Long			
Rod	Brass	5/8 Diameter	Free Turn													1" Long			
Tubing	Brass	.375 OD x .256 ID	Free Turn													½" Long			
Rod	Steel	.115 Diameter	Drill Rod													4" Long			
Tubing	Steel	.187 OD x .128 ID														12" Long			
Rod	Phenolic (Black)	1/2 Diameter	Linen Base													1" Long			
Rod	Phenolic (Natural)	1/4 Diameter	XXX P Laminate													9" Long			
Sheet	Phenolic (Natural)	1/16	XXX P Laminate													118 Square Inches			
Tubing	Phenolic (Natural)	.375 OD x .328 ID	XXP Laminate													14" Long			

GENERAL PURPOSE RECEIVER

MATERIAL LIST

MODEL GPR-90 RX

PROJ. NO.

LIST NO. ML-GPR-90RX

ISSUE

A B C D E F G

H J K L M N P R S

SHEET 32 OF 34 SHEETS

T U V W X Y Z AA

PART NO.	RAW MATERIAL	STOCK SIZE	TYPE & TEMPER	TOTAL PER UNIT	
				Area/Length	Weight
	Phenolic (Natural)	1/8	XXX P Laminate	5 Square Inches	
Tubing	Phenolic (Black)	.500 OD x .375 ID	XXX P Laminate	1 1/4" Long	
	Panelyte (Natural)		GR-XXX	42 Square Inches	
Sheet	Flexiglass	.040		9 Square Inches	
	Phosphor Bronze	.010		8 Square Inches	
	Fish Paper, (Black)	.015		18 Square Inches	
Sheet	Aluminum	.032	2024-T3	8 Square Inches	
Sheet	Aluminum	.051	5052-H32	9 Square Inches	1/2 lb.
Sheet	Aluminum	.064	5052-H32	70 Square Feet	63 lbs.
Sheet	Aluminum	.081	5052-H32	22 Square Feet	25 lbs.
Sheet	Aluminum	1/8	2024-T3	11 Square Feet	20 lbs.
Sheet	Aluminum	3/16	2024-T3	153 Square Inches	3 lbs.
Sheet	Aluminum, Perforated .072 D Holes on 1/8 center	.051	5052-H32	3 Square Feet	
Rod, Hexagon	Aluminum	1/4" Flat	2017-T4	1" Long	.065 lbs.
Round Drawn Tube	Aluminum		2024-T3	1 1/8" Long	

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GENERAL PURPOSE RECEIVER

PURCHASED ITEM	MATERIAL LIST				MODEL GPR-90 RX		PROJ. NO.		LIST NO. ML-GPR-90RX											
	QUAN. PER ONE EQUIP.	PART NO.	DWG REV	DWG SIZE	ITEM NO.	ISSUE													SHEET 34 OF 34 SHEETS	
						A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
						T U V W X Y Z AA														
						RAW MATERIAL													REMARKS	
X	WI-107-5					Wire, Magnet														
X	WI-107-11					Wire, Magnet														
37½"	WI-128-20/2					Shield														
X	WL-100-6					Wire, Buss Bar														
X	WL-100-7					" , " "														
12"	WL-103-1					Shield, Flexible														

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THE TECHNICAL MATERIEL CORP.
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MODEL GPR-90 RX

PROJECT NO _____

DATE	REV.	PAGE	ITEM	DESCRIPTION	REMARKS	CHK.	APP.
9/9/57	A	12		FS-113-1 was FS-103-2	I.G.	<i>CHK</i>	
10/2/57	A	18	-	CA-245 Description Change from Cable, Assembly to Cable, Main	<i>CHK</i>		
10/2/57	A	19	-	CA-258 and CA-279 deleted, incorporated with CA-245			
10/2/57	A	5A	-	MS-1140 added			
10/8/57	A	1	27.1	CC26CH300J was CC21CH080J	P.L.K.		<i>ATT</i>
10/10/57	B	18	-	A-1470 added	} <i>Guide</i>		
10/24/57	A	5	115	MS-1136 was MS-618			
10/30/57	B	5	134.4	PM-460-5.00-BC was PM-460	} <i>CHK</i>		
"	C	18	-	A-1480 added			
"	B	19	-	PM-460-1.00-B added			
11/7/57	A	8	-	RV4ATSC152B was RV4ATRC152B	<i>CHK</i> P.L.K. <i>ATT</i>		
11/18/57	C	19	-	MS-1162 added	<i>W.P.L.K.</i>		<i>W.P.B.</i>
11/19/57	A	20A	-	Page 20 A, Options A & B added	<i>W.P.L.K.</i>		<i>ATT</i>
12/30/57	B	20B	33	CL50 added to CC-100-15	<i>W.P.L.K.</i>		
"	A	9	249.2	J6 added to UG-625/U	<i>W.P.L.K.</i>		<i>CHK</i>
1/10/58	B	8	217.1	RY-121-5-3-5.00 was RY-121-1	<i>W.P.L.K.</i>		
1/23/58	B	1	1.	BB-101 quantity decreased from 7 to 6	<i>W.P.L.K.</i>		
"	A	4	86.1	DT-100 added	<i>W.P.L.K.</i>		
"	A	4	96.	MC-102 quantity decreased from 3 to 2	<i>W.P.L.K.</i>		
"	A	4	97.1	MC-104-2 added	<i>W.P.L.K.</i>		
"	C	5	126.	MS-765 deleted	<i>W.P.L.K.</i>		
"	A	6	140.	PM-385 deleted	<i>W.P.L.K.</i>		
"	A	9	226.	SW-162 deleted	<i>W.P.L.K.</i>		
2/6/58	B	3		BB-108 Quan. Decreased from 8 to 2	DT-100 <i>W.P.L.K.</i>		
2/6/58	B	3A		BB-117-6 Add.			
2/10/58	B	6		PM-352 was Deleted PM-480 was Added			
4/22/58	B	4	79	GR-100-Deleted			
4/22/58	A	7	-	R77 was RC20GF684K			
4/22/58	A	7	-	R95 was RC20GF274K			
4/24/58	B	7	171	RC20GF104K was 7 Req.			
4/24/58	B	7	174	RC20GF124K was 4 Req.			
4/24/58	B	7	185	RC20GF274K-(Added) REF R95			
4/24/58	C	8	198	RC20GF684K-(Added) REF R77			
5-9-58	C	1		BB-117-6 was BB-108			<i>CHK</i>

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MAMARONECK
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MODEL QPR-90RX

PROJECT NO _____

DATE	REV.	PAGE	ITEM	DESCRIPTION	REMARKS	CHK.	APP.
5/16/58	B	9	227.1	SW-222 replaces SW202		P.L.K.	J.R.R.
6/4/58	D	19	-	GR-120-1, GR-120-2 (Deleted) (See GR-122)			
6/4/58	D	19	-	PM-345 (Deleted) (See GR-122)			
7-28-58	C	6	160	PX-443 was PX-289	Change 411		A
7-28-58	C	6	163.1	Added PM-451 496	Change 411		
"	C	6	163.1	PM-452 was Added 497	Change 411		
"	C	4	82	CT-104-5 was CT-104-2			
8-12-58	D	6	163.1	PM-496 was PM-451 3 Nos.			
"	E	6	163.2	PM-497 was PM-452 3 changed			
8-21-58	F	6		PM-417 was deleted			
"	G	6		PM-410: Quan. per unit was changed 764			
"	D	8	218	SM-136 DELETED			
8-25-58	A	15	--	TE-116-2 (Requirement changed)			
"	B	12	--	CU-102-5 added			
8-29-58	C	1	27.2	CC2LSL108K was added			
11-14-58	A	3	71	CM20D102G was CM109D100MG			
"	"	"	72	CM20D162F was CM109D1601F			
"	"	"	73	CM20D181G was CM109D1800G			
"	"	"	74	CM20D201G was CM109D2000G			
"	"	"	75	CM20D221G was CM109D2200G			
"	"	"	76	CM20D242G was CM109D2401G			
"	"	"	77	CM20D301G was CM109D3000G			
1-6-59	C	2		C74 was deleted from CC-100-15	EMN 637		P.L.K. J.R.R.
1-29-59	D	18		CA-254 was deleted	716		
"	"	"		A-1619-3 was added	716		
2-3-59	D	1	27.2	CC2LSL108K changed to CC2LSL180K			
2-10-59	E	8	736	RY-129 was added			
"	"	"	736	PX-347 and 348 were deleted (Not Listed on M/L)			
5-1-59	E	1	935	CC2LSL180K was deleted			
8-13-59	E	19		ID-611 was ID-218	EMN #1162		
2-24-60	D	1		Added 2 CM35B103K. (Sym C151, 152) imp.	#1860		
3-29-60		1		Changed C144 to C74 From CC26CH300J			
"		2		Changed C145 to C146 From CC-100-16			
"		3		Changed L36 to L38 From CL-100-5			
4-25-60	H	6	163.3	Added PM-641 #2195			16

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DATE	REV.	PAGE	EMN#	DESCRIPTION	CHK.	APP.	
5-3-60	J	6	2228	Changed Qty. 1 To 4 On PM-496		16	
5-20-60	K	19	2317	Deleted (18) NT-112 & Used for NT-113		16	
6-24-60	L	16	2551	Added PL-147-2		16	
"	"	"	"	Added SCBS1032BN8			
"	"	"	"	Added WA-101-5			
"	"	"	"	FW10MBN			
"	"	19	"	Added CA-355-0-3			
8-23-60	M	1	2857	On CA-102-2, chg. sym. from W1 to W1 (P2)		16	
8-23-60	M	1	2857	On CC26CH300J, chg. sym from C74 to C153			
8-23-60	M	2	2857	On CC-100-16, add sym. C144,145			
8-23-60	M	4	2857	Added CR-100 (Y3)			
8-23-60	M	4	2857	On DT-100, chg. sym. from S1 to MPI (u/w S1)			
8-23-60	M	8	2857	On RV4BTRD502E, add to sym. (c/o S10)			
8-23-60	M	16	2857	On PL-123, add P1(J4 Mate)			
8-23-60	M	16	2857	On PL-124, add u/w P1			
8-23-60	M	16	2857	On PL-127-2, add J1 Mate			
8-23-60	M	18	2857	Changed A-1619-3 to CL-134-3 (A-1619-3) (L36,37)			
8-23-60	M	18	2857	Changed A-1024-2 to A-1024-3			
8-23-60	M	18	2857	Changed A-1344 sym. L32,33,34 to L35			
8-23-60	M	18	2857	Changed A-1345 sym. L35 to L32,33,34, quan. from 1 to 3			
8-30-60	N	6	2895	Deleted PM-497 (Not Required)			16
8-30-60	N	9	2895	Added TE-180			
8-30-60	N	12	2895	On LWE08MRC, chg. quan. from 12 to 14, add ref. (2) TE-180 Mtg.			
8-30-60	N	13	2895	On NTH0832BC10, chg. quan. from 12 to 14, add ref. (2) TE-180 Mtg.			
8-30-60	N	14	2895	Added SCFS0832BN12			
10-3-60	P	13	3129	Added SC-131-0632-BN8 (Ref-Notice from AM dated 9-29-60)			
4-26-61	R	8	4779	Chg. RY-129 to RY-129-8.		16	
5-24-61	S	12	4952	Added (1) GA-137-3.		16	
7-3-61	T			Completely Revised and Retyped Hardware Section.			
7-3-61	T	4		On MC-104-1, chg. quan. from 1 to 2.			
7-3-61	T	9		On TM-117-4, chg. quan. from 2 to 1.			
"	T	"		On TM-117-11, chg. quan. from 9 to 8.			
"	T	"		On TM-117-35, chg. quan. from 3 to 2.			
"	T	"		On TM-117-26, chg. quan. from 1 to 3.			
"	T			Renumbered pages from 24 to 34 sheets.			
7-19-61	U	17	5307	Add (1) NT-129-632-4.		16	

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DATE	REV.	PAGE	EMN #	DESCRIPTION	CHK.	APP.
1/19/63	V	6	8049	Dele. 4 ea. PM-410	<i>[Signature]</i>	<i>[Signature]</i>
				Dele. 2 ea. PM-409		
		8		Add 4 ea. SM0540BP1.625		
				Add 2 ea. SM0540BP2.250		
3/1/63	W	3	8448	Chg. CI-109-7 Quan. from 11 to 9, Dele. L6 & L12 Ref.		
				Chg. CI-109-12 Quan. from 11 to 3, add L6 & L12 Ref.		
6-17-63	X	→	9225	Sheet 4. Chgd per EMN		16
8-28-63	Y	→→	9867	Revised Sheets 5, 6, 12, 13, 19, 24, 29 per EMN		16
10/14/63	Z	→→→	10118	Revised Sheets 5A, 12, 13, 27 per EMN.		16
2/13/64	AA	→→→→	10758	Revised Sheets 6, 8, 9, 11, 12, 13, 17, 19, 20, 21, 22, 23, 24, 28, 33		16