



THE TECHNICAL MATERIEL CORPORATION

C O M M U N I C A T I O N S E N G I N E E R S

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MAMARONECK, N.Y. 10543
CABLE "TEPEI"

June 1, 1976

Gentlemen:

You have received the latest model GPR-110 General Purpose Receiver, manufactured by The Technical Materiel Corporation. The receiver meets or exceeds all TMC published specifications.

Several schematics and associated printed circuit diagrams representing reliability improvements were made to the GPR-110 after publication of the technical manual. These diagrams are contained in an envelope attached to the manual. The improvements in design affect the following diagrams:

<u>SYMBOL</u>	<u>OLD</u>	<u>NEW</u>	<u>REPLACE PAGES</u>
Z105	CK2039	CK2122	7-21 through 7-24
Z106	CK2040	CK2124	7-25 through 7-28
Z104	CK2042	CK2125	7-17 through 7-20
Z107	CK1885	CK2123	7-29 through 7-32
Z302	CK1884	CK2102	7-89 through 7-92

You will be fully advised of any additional information concerning the GPR-110 as it is published.

If you have any questions on the GPR-110, we invite you to write TMC where your comments will be given our prompt attention.

THE TECHNICAL MATERIEL CORPORATION

PARTS LIST

for

Z105

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1	Capacitor, Fixed, Ceramic	CC131-39
C2	Same as C1	
C3	Capacitor, Fixed, Mylar	CN112B474K1
C4	Capacitor, Fixed, Electrolytic	CE105-50-16
C5	Same as C1	
C6	Same as C1	
C7	Same as C1	
C8	Same as C1	
C9	Capcitor, Fixed, Mica	CM112E103J1S
C10	Same as C1	
C11	Capacitor, Fixed, Electrolytic	CE105-2-50
C12	Same as C11	
C13	Same as C1	
C14	Capacitor, Fixed, Electrolytic	CE105-15-25
C15	Same as C1	
C16	Same as C1	
C17	Same as C1	
C18	Same as C1	
C19	Same as C1	
CR1 thru CR8	Semiconductor, Device, Diode	1N463
CR9	Semiconductor, Device, Diode	1N751A
L1 thru L3	Coil, Rf, Fixed	CL275-101
Q1	Transistor	2N3646
Q2	Transistor	2N1711
Q3	Same as Q1	
Q4	Same as Q2	
R1	Resistor, Fixed, Composition	RC07GF152J
R2	Resistor, Fixed, Composition	RC07GF222J
R3	Resistor, Fixed, Composition	RC07GF471J
R4	Resistor, Fixed, Composition	RC07GF332J
R5	Resistor, Fixed, Composition	RC07GF821J
R6	Resistor, Fixed, Composition	RC07GF470J
R7	Resistor, Fixed, Composition	RC07GF151J
R8	Resistor, Fixed, Composition	RC07GF123J
R9	Same as R8	
R10	Resistor, Fixed, Composition	RC07GF224J
R11	Resistor, Fixed, Composition	RC07GF4R7J
R12	Same as R1	
R13	Same as R6	
R14	Same as R3	

PARTS LIST (cont)

for

Z105

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
R15	Same as R2	
R16	Same as R2	
R17	Same as R6	
R18	Same as R3	
R19	Same as R3	
R20	Resistor, Fixed, Composition	RC07GF102J
R21	Resistor, Fixed, Composition	RC07GF103J
R22	Resistor, Fixed, Composition	RC07GF121J
R23	Resistor, Fixed, Composition	RC07GF153J
R24	Resistor, Variable	RV124-3-502
T1	Transformer	TF267-4
Z1 thru Z5	Microcircuit, Digital	NW202
Z6 thru Z10	Microcircuit, Digital	NW212
Z11	Microcircuit, Digital	NW176
Z12	Microcircuit, Digital	NW159
XZ1 thru ZX10	Socket, 16 Pin	TS211-2
XZ11 XZ12	Socket, 14 Pin Same as XZ11	TS211-1

PARTS LIST

for

Z107

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1	Capacitor, Fixed, Ceramic	CC100-41
C2	Same as C1	
C3	Capacitor, Fixed, Ceramic	CC131-39
C4	Same as C3	
C5	Same as C3	
C6	Same as C3	
C7	Same as C3	
C8	Same as C3	
C9	Capacitor, Fixed	CX118E5R5N30C1
C10	Same as C1	
C11	Same as C1	
C12	Same as C1	
C13	Same as C1	
C14	Same as C1	
C15	Same as C3	
C16	Capacitor, Fixed, Mica	CM111C100J5S
C17	Capacitor, Fixed, Mica	CM111C270J5S
CR1	Semiconductor, Device, Diode	1N914
CR2	Semiconductor, Device, Diode	1N756
CR3	Semiconductor, Device, Diode	1N100
CR4	Same as CR3	
L1	Coil, Rf, Fixed	CL275-121
L2	Coil, Rf, Fixed	CL275-100
L3	Same as L1	
L4	Coil, Rf, Fixed	CL275-102
Q1	Transistor	2N2368
Q2	Same as Q1	
Q3	Same as Q1	
R1	Resistor, Fixed, Composition	RC07GF562J
R2	Resistor, Fixed, Composition	RC07GF471J
R3	Resistor, Fixed, Composition	RC07GF470J
R4	Resistor, Variable	RV124-3-103
R5	Resistor, Fixed, Composition	RC07GF242J
R6	Resistor, Fixed, Composition	RC07GF180J
R7	Resistor, Fixed, Composition	RC07GF104J
R8	Resistor, Fixed, Composition	RC07GF101J
R9	Same as R1	
R10	Resistor, Fixed, Composition	RC07GF102J
R11	Same as R1	
R12	Same as R1	
R13	Same as R3	
R14	Resistor, Fixed, Composition	RC07GF392J
R15	Same as R2	

PARTS LIST (cont)

for

Z107

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
R16	Not Used	
R17	Same as R2	
R18	Same as R1	
R19	Same as R3	
R20	Same as R14	
T1	Transformer	TR205
Z1	Microcircuit, Digital	NW198
Z2	Microcircuit, Digital	NW212
Z3	Same as Z2	
Z4	Microcircuit, Digital	NW200
Z5	Microcircuit, Digital	NW197
Z6	Microcircuit, Digital	NW213
Z7	Microcircuit, Digital	NW214
Z8	Microcircuit, Digital	NW187
XZ1	Socket, 14 Pin	TS211-1
XZ2	Socket, 16 Pin	TS211-2
XZ3	Same as XZ2	
XZ4	Same as XZ2	
XZ5	Same as XZ1	
XZ6	Same as XZ1	
XZ7	Same as XZ1	
XZ8	Same as XZ2	

PARTS LIST

for

Z104

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1 C2 C3 C4	Capacitor, Fixed, Mica Capacitor, Fixed, Ceramic Same as C1 Same as C2	CM111C681J CC131-39
L1	Coil, Rf, Fixed	CL275-100
R1 R2	Resistor, Fixed, Composition Same as R1	RC07GF331J
TP1-22	Terminal, Stud	TE127-2
Z1 Z2 Z3 Z4 Z5 Z6 Z7 Z8 Z9 Z10 Z11 Z12 Z13 Z14	Microcircuit, Digital Same as Z1 Same as Z1 Microcircuit, Digital Microcircuit, Digital Same as Z5 Microcircuit, Digital Same as Z7 Same as Z7 Same as Z7 Microcircuit, Digital Microcircuit, Digital Microcircuit, Digital Microcircuit, Digital	NW204 NW190 NW201 NW209 NW187 SN7451N NW176
XZ1 thru XZ4 XZ5 XZ6 XZ7 thru XZ10 XZ11 thru XZ14	Socket, 14 Pin Socket, 24 Pin Same as XZ5 Socket, 16 Pin Same as XZ1	TS211-1 TS211-3 TS211-2

PARTS LIST

for

Z302

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1	Capacitor, Fixed, Ceramic	CC100-29
C2	Capacitor, Variable	CV112-3
C3	Capacitor, Fixed, Mica	CM111C100J5S
C4	Same as C1	
C5	Capacitor, Variable	CV112-7
C6	Same as C3	
C7	Same as C5	
C8	Capacitor, Fixed, Mica	CM111F101G5S
C9	Same as C3	
C10	Same as C8	
C11	Same as C5	
C12	Same as C8	
C13	Not Used	
C14	Capacitor, Fixed, Mica	CM111E020D5S
C15	Same as C1	
C16	Same as C1	
L1	Coil, Rf, Fixed	CL275-102
L2	Coil, Rf, Fixed	CL275-3R3
L3	Coil, 3 Tapped	CL296-2
L4	Coil, Rf, Fixed	CL275-1R0
L5	Same as L3	
L6	Same as L4	
L7	Coil, 2 Tapped	CL296-1
Q1	Transistor	2N1745
Q2	Transistor	2N2368
Q3	Same as Q2	
R1	Resistor, Fixed, Composition	RC07GF123J
R2	Resistor, Fixed, Composition	RC07GF473J
R3	Resistor, Fixed, Composition	RC07GF221J
R4	Resistor, Fixed, Composition	RC07GF682J
R5	Resistor, Fixed, Composition	RC07GF222J
R6	Resistor, Fixed, Composition	RC07GF121J
R7	Resistor, Fixed, Composition	RC07GF100J
R8	Resistor, Fixed, Composition	RC07GF332J
R9	Same as R6	
R10	Same as R4	
R11	Not Used	
R12	Resistor, Fixed, Composition	RC07GF471J
Y1	Crystal	CR119-53R5

PARTS LIST

for

Z106

REF SYMBOL	DESCRIPTION	TMC PART NUMBER
C1 thru C3	Capacitor, Fixed, Ceramic	CC131-39
C4 thru C6	Capacitor, Fixed, Ceramic	CC100-29
C7 C8 C9	Capacitor, Fixed, Mica Same as C4 Same as C4	CM111E471J1S
CR1	Semiconductor, Device, Diode	1N914
L1 L2	Coil, Rf, Fixed Coil, Rf, Fixed	CL275-100 CL275-103
Q1 thru Q4	Transistor	2N3646
R1	Resistor, Fixed, Composition	RC07GF392J
R2	Resistor, Fixed, Composition	RC07GF102J
R3	Same as R2	
R4	Same as R2	
R5	Resistor, Fixed, Composition	RC07GF682J
R6	Same as R2	
R7	Resistor, Fixed, Composition	RC07GF272J
R8	Resistor, Fixed, Composition	RC07GF152J
R9	Resistor, Fixed, Composition	RC07GF470J
R10	Resistor, Fixed, Composition	RC07GF331J
R11	Same as R2	
R12	Resistor, Fixed, Composition	RC07GF101J
R13	Same as R12	
R14	Resistor, Fixed, Composition	RC07GF242J
R15	Same as R9	
TP1	Terminal, Stud	TE127-2
Y1	Crystal	CR119-7R0
Y2	Same as Y1	
Z1	Microcircuit, Digital	NW166
XZ1	Socket, 14 Pin	TS211-1