

RCVR CONV MODULE, 4-8MC

MODEL TTRR-2

REV J

TITLE

USED ON
MODEL SECTION
TTR-10

LIST SECTIONS

SHEET NO.

1. SUPPORTING NOTES
2. SUPPORTING LISTS
3. ELECTRICAL/MECHANICAL
4. SUPP ASSY/REF DWGS
5. SPECIFICATIONS
6. LOOSE ITEMS
7. PARTS PECULIAR

- SEE BELOW
NONE REQ
1-8
9
10
NONE REQ
NONE REQ

LAST SYMBOLS

G232	S201	XZ201
L206	T205	Y202
Q206	W202	Z201
R218	XY202	

COMPILED J. FERRERI
CHECKED I. GABEL
APPROVED T. AALTONEN
ENL APPR *Sabel*
ISS DATE 9-4-64

MISSING SYMBOLS

R216
L207

NOTE 1. THE FOLLOWING SYMBOL, #, IN THE REMARKS COLUMN INDICATES THAT THE PART NUMBER IMMEDIATELY FOLLOWING IT IS THE TMC PROPRIETARY MANUFACTURING DRAWING FOR THE CORRESPONDING NUMBER IN THE PART NUMBER COLUMN.

NOTE 2. ALL ITEMS REFERENCED TO THIS NOTE SHALL BE USED WHEN XTAL OVENS ARE REQUIRED BY CUSTOMER.

NOTE 3. ALL ITEMS REFERENCED TO THIS NOTE SHALL BE USED WHEN NO XTAL OVENS ARE REQUIRED BY CUSTOMER.

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO AMOUNT	QTY. PER USED TO AMOUNT			

A3228-1	PC BD, MKG	A3228-2		1	1		
BS100	SOLDER, TIN ALY	A3223-1					
		A3223-5					
		A3223-6					
		A3223-7					
A3228-2							

CC20CK2R2C	CAP., FXD, CER	A3228-2		1	1	C201	
		A3228-2		1	1	C202	
		A3228-2		1	3	C203	

CC100-15	CAP., FXD, CER	A3228-2		1	1	C215	
CC100-16	CAP., FXD, CER	A3228-2		1	1	C207	
		A3228-2		1	1	C226	
		A3228-2		1	1	C230	
		A3228-2		1	1	C231	

CC100-25	CAP., FXD, CER	A3228-2		1	1	C209	
		A3228-2		1	1	C224	
		A3228-2		1	3	C208	
		A3228-2		1	1	C210	

CC100-33	CAP., FXD, CER	A3228-2		1	1	C211	
		A3228-2		1	1	C212	
		A3228-2		1	1	C213	
		A3228-2		1	1	C214	

CI127-1	CORE, TOROID	A3223-1		1	1		
		A3223-5		1	1		

CI127-4	CORE, TOROID	A3223-5		1	1		
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PART NO. DESCRIPTION ELECTRICAL/MECHANICAL

PART NO.	DESCRIPTION	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
CI127-5	CORE, TOKOID	A3223-6 A3223-6 A3223-7		1 1 1	3		
CL140-3	COIL, RF, FXD	A3228-2 A3228-2 A3228-2		1 1 1	3	I.201 I.202 I.203	.270 MH .270 MH .270 MH
CL240-100	COIL, RF, FXD	A3228-2 A3228-2 A3228-2		1 1 1	3	I.204 I.205 I.206	
CM15F11J03	CAP., FXD, MICA	A3228-2		1	1	C220	
CM15B181F03YY	CAP., FXD, MICA	A3228-2		1	1	C225	
CM15C050J03YY	CAP., FXD, MICA	A3228-2		1	1	C227	
CM20F681G03 CM20F681G03	CAP., FXD, MICA	A3228-2		1	1	C228	
CM12F202K3S	CAP., FXD, MICA	A3228-2 A3228-2		1 1	2	C223 C232	
CR110-1-FREQ	CU, QTZ, OVEN	A2743		1	2	Y201	NOTE 2
OR		A2743		1	2	Y202	NOTE 2
CR110-3-FREQ	CU, QTZ, AMBIENT	A2743 A2743		1 1	2	Y201 Y202	NOTE 3 NOTE 3
CT103-1	CAP., VAR, AIR	A3228-2 A3228-2 A3228-2 A3228-2 A3228-2		1 1 1 1 1	5	C216 C217 C218 C219 C221	3.2-50 UUF 3.2-50 UUF 3.2-50 UUF 3.2-50 UUF 3.2-50 UUF

MATERIAL LIST / NUMERICAL PARTS LIST

REV. **A B C D E F G H J**

MODEL: **TTRR-2**

SHEET **3** OF **10**

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
CV113-10	CAP., VAR, MICA	A3228-2		1	1	C222	
FS118-1	LATCH, SNAPSLIDE	MS3381		2	2		
FS119-2	LATCHGUIDE, SNPSL	MS3381		2	2		
FS120-1	POST, SNAPSLIDE	MS3381		2	2		
FW04HBN	WASH., FLAT	A3228-2		2	2		
FW101-1	WASH., NM, N	A3228-2		10	10		
GL130	ADHESIVE Q DOPE	A3223-1 A3223-5 A3223-6 A3223-7					
JJ219-18-9	JACK, TIP	MS3414		6	6		
LD1326/MS3379	CHAS., WRPARD	A2743		1	1		
LD1332/MS3381	PNL, FRONT	A2741		1	1		
LD1342/MS3414	BKKT, XTAL SOC	A3228-2		1	1	XY201, 202, XZ201	
LME04MRN	WASH., LK, EXT	A2742		2			
LMI06MRN	WASH., LK, INT	A3228-2		17			
LMI08MRN	WASH., LK, INT	A2743		2	21		
LMI37MRN	WASH., LK, INT	A3228-2		1	1		
MP126-1	KNOB, THID	A2741		1	1		

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
MP123-1UB	KNOB	A2742		1	1		
MS3372	BKT, MTC, CAP.	A3228-2		1	1		
MS3377	PL, SD, L/R	A2742		2	2		
MS3379	CHAS, WRAPARD	LD1326		1	1		MACH
MS3380	SHIELD, RF	A3228-2		4	4		
MS3381	PNL, FRONT	LD1332		1	1		MACH
MS3414	BRKT, XTAL SOC	LD1342		1	1		MACH
MS3446	PL, XTAL RET.	A2743		1	1		NOTE 3
MS4401	BRKT, RET.	A2742		1	1		
NP559	PL, ID, FREQ	A2742		1	1		
NP562	PL, ID, COMM	A2742		1	1		
NT129-440-4	NUT, PLN, SPLINE	MS3379		12			RD
NT137-0440	NUT, PLN, HEX, N	MS3414		2			RD
		MS4401		4	18		
		A3228-2		10	10		
NTH0440BN6	NUT, PLN, HEX	A3228-2		9	9		
NTH3732BN18	NUT, PLN, HEX	A3228-2		1	1		
OC100-1	OCEN, XTAL, 12VDC	A2743		1	1	Z201	NOTE 2
OR							
OC100-2	OVEN, XTAL, 24VDC	A2743		1	1	Z201	NOTE 2
OR							
OC100-3	OVEN, XTAL, 115VAC	A2743		1	1	Z201	NOTE 2
OR							
OC100-4	OVEN, XTAL, 32VDC	A2743		1	1	Z201	NOTE 2
PC100-1	PC BD, ETCHING	PC100-2		1	1		
PC100-2	PC BD, MACH	PC100-3		1	1		

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			

PX104-2-022	INS SLVG, SZ 24	A3228-2		2	2	YEL	
PX104-3-022	INS SLVG, SZ 24	A3228-2		2	2	RED	
PX104-4-022	INS SLVG, SZ 24	A3228-2		2	2	GRN	
PX104-6-022	INS SLVG, SZ 24	A3228-2		2	2	BLU	
PX104-7-022	INS SLVG, SZ 24	A3228-2		3	3	GY	
PX829-1	PAD, TSTR MTG	A3228-2		6	6		
RC20GF102J	RES, FXD, COMP	A3228-2		1	2	R208 R215	
RC20GF122J	RES, FXD, COMP	A3228-2		1		R204	
RC20GF123J	RES, FXD, COMP	A3228-2		1		R205	
RC20GF103J	RES, FXD, COMP	A3228-2		1	3	R206	
RC20GF103J	RES, FXD, COMP	A3228-2		1	1	R207	
RC20GF103J	RES, FXD, COMP	A3228-2		1	1	R201	
RC20GF103J	RES, FXD, COMP	A3228-2		1	3	R202	
RC20GF222J	RES, FXD, COMP	A3228-2		1	1	R214	
RC20GF392J	RES, FXD, COMP	A3228-2		1	1	R211	
RC20GF470K	RES, FXD, COMP	A3228-2		1	2	R212	
RC20GF471K	RES, FXD, COMP	A3228-2		1	1	R213	
RC20GF471K	RES, FXD, COMP	A3228-2		1	1	R209	
RC20GF473J	RES, FXD, COMP	A3228-2		1	1	R219	
RC20GF473J	RES, FXD, COMP	A3228-2		1	4	R220	
RC20GF473J	RES, FXD, COMP	A3228-2		1	1	R218	

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL.	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
RC206R680K	RES, FXD, COMP	A3228-2		1	1	R210	
RG188/U 1	CBL, RF	CA418-8		8	8		
RV111-U502A	RES, VAR	A3228-2		1	1	R217	
SC131-0440BN3	SCR, MACH-UNDC	A2742		6	6		
SC131-0440BN3	SCR, MACH-UNDC	A2743		4	4	10	
SC131-0440BN5	SCR, MACH-UNDC	A2742		2	2		
SC143-0440B10	SCR, MACH-NYLON	A3228-2		5	5		
SC143-0832B8	SCR, MACH-NYLON	A2741		1	1		
SCBP0440BN3	SCR, MACH	A2742		2	2		
SCBP0440BN4	SCR, MACH	A2742		2	2		
SCBP0440BN6	SCR, MACH	A2742		4	4		
SCBP0440BN6	SCR, MACH	A3228-2		15	15	19	
SCBP0440BN12	SCR, MACH	A3228-2		2	2		
SCBP0632BN4	SCR, MACH	A2743		2	2		
SCBP0832BN6	SCR, MACH	A3228-2		1	1		
SCFP0440BN4	SCR, MACH	A2741		1	1		
SW192-12NSJ	SW, ROTARY-TAP	A2742		2	2		
TA111-2-2-1.00G	TAPE, URETHANE	A3228-2		1	1	S201	
TE164-7	NUT, PLN, CLINCH	MS4401		1	1		
WA131-22	WASH, SPC TENS	PC100-3		4	4		
		MS3381		2	2		

NOTE 3

THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			
W1123-22	WIRE, ELEC, MAG, HT	A3223-6		24		SZ 22	
		A3223-6		24		SZ 22	
		A3223-7		30	78	SZ 22	
W1123-28	WIRE, ELEC, MAG, HT	A3223-1		24	24	SZ 28	
W1123-34	WIRE, ELEC, MAG, HT	A3223-5		60	60	SZ 34	
W1149-1	GBL, CP, SHLD/JKT	CA808-1		12	12	2/C	
W1100-8	WIRE, ELEC, BUSS	A3228-2		14	14	SZ 24	

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, NEW YORK

**MATERIAL LIST /
NUMERICAL PARTS LIST**

REV. **A B C D E F G H J**

MODEL: **TTBR-2** SHEET **8** OF **10**

PART NO.	DESCRIPTION ELECTRICAL/MECHANICAL	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO MOUNT	QTY. PER USED TO MOUNT			

TX113	TRANSISTOR	A3228-2		1	Q202	2ND RF 3RD RF MIXER BUFFER HF OSC
		A3228-2		1	Q203	
		A3228-2		1	Q204	
		A3228-2		1	Q205	
TX109	TRANSISTOR	A3228-2		1	Q206	1ST RF
		A3228-2		1	Q201	

THE TECHNICAL MATERIEL CORPORATION **MAMARONECK, NEW YORK**

PART NO.	DESCRIPTION SUPP ASSY/REF DWGS	ITEM LOCATION			QTY. PER UNIT	REFERENCE SYMBOLS	REMARKS
		USED ON ASSEMBLY	USED TO AMOUNT	QTY. PER USED TO AMOUNT			
A2741	PNL ASSY, FR	A2742		1	1		
A2742	TTRR-2 ENL ASSY	TTRR-2		1	1		
A2743	PC BD/CHAS ASSY	A2742		1	1		
A3228-2	PC BOARD ASSY	A2743		1	1		
CA418-8	CBL ASSY, RF	A3228-2		1	1	W202	
CA808-1	CBL ASSY, SP, SHLD	A3228-2		1	1	W201	
CH263	CHART, UNIT BKDN	TTRR-2		1	1		
CK666	DIAG, BLOCK	TTRR-2		1	1		
CK684	DIAG, SCHEM	TTRR-2		1	1		
PC100-3	PC BD, MECH ASSY	A3228-1		1	1		
TZ127	COIL, RF	A3228-2		1	1	T205	#A3223-1
TZ131	XFMR, RF	A3228-2		1	1	T201	#A3223-5
TZ132	XFMR, RF	A3228-2		1	2	T202 T203	#A3223-6 #A3223-6
TZ133	XFMR, RF	A3228-2		1	1	T204	#A3223-7

