SYMBOL(S)	ITEM NO.	USED TO MOUNT	QTY
V1500	1		
V1501	2		
	13	MC102,PM1217	8,2
	14	GR191	2
		GF192	2
		PM451	2
PS1500	15		
W1502	17		
W1501	18		
C1544	19		
C1500	20		
C1501,1509	21		
C1530			
L1501,1502	22		
L1503,1504			
L1506,1518			
L1500	23		
C1502	24		
C1503,1511	25		
C1521			
C1505	26		
C1507	27		
C1504,1506	28		
C1512			
C1510,1513	29		
C1516			
	30	for C1504 WRG LEAD	1
	31	A3278	1
		CU102-1(CA833) &A3278	1
		MS3941	8
	32	CU102(CA833)	3
	33	TF173	1
	37	for V1501	1
J1503,1504	38		
J1505,1506			
	41	JJ285	8
		JJ287(CA833)	16
		JJ296(CA833)	2
		MS4167	4
		RL143	4
		TE102	7
		TE110-2(C1500 GRD)	1
		TM100	8
	42	A2773 to A2779	4
		A2774 to LD1338	5
		A2779 to LD1338	8
		A2782 to LD1338 & MS3390	2
		A2782 to A2774	2
		A2782 to LD1338	6
		A2782 to A2779	4
		A2783 to LD1338 & MS3391	2
		A2783 to A2774	2
		A2783 to LD1338	6
		A2783 to A2779	4
		A2784, A4045	4,4
		A2785	4
		A3278	4
		A3279	3
		CM113	6
		GR189	3
		MS3371	4
		MS3382 ,MS3383	2,1
		MS3382 & MS3453	2
		MS3941	8
		MS3453	4
		TS168	4
43		CU102(CA833)	3
44		TS103	2
45		A2773 to SW339	1
		A3279 to GR189	1
46		for S1504	1
48		TM100	4
56		TS103	1
57		TF173	1
58		JJ285	8
		JJ296(CA833)	2
		JJ287(CA833)	16
		MS4167	4
		RL143	4
		TE110-2(C1500 GRD)	1
		TM100	8
59		A2774 to LD1338	1
		A2779 to LD1338	6
		A2782 to LD1338	6
		A2782 to A2774	2
		A2783 to LD1338	6
		A2783 to A2774	2
		A2784	2
		A2785	2
		TS168	4
60		CU102(CA833)	3
62		LD1355	1
63		GR192 & LD1355	1
64		TS168 WRG	2
65		C1530 WRG	1
66		C1504 WRG	4
		JJ285 WRG	24
		TS103 WRG	1
67		L1503 WRG	1
		L1504 WRG	1
68		CM35 WRG	1
		TE102 WRG	4
		TE114 WRG	19
69		C1511 WRG	1
		JJ285 WRG	23
70		A3279(SW334) WRG	7
71		A3279(SW334) WRG	22
72		TS103 WRG	3
		TS168 WRG	1

SYMBOL(S)	ITEM NO.	USED TO MOUNT	QTY
	73	L1501 WRG	1
		PS1500 WRG	1
	74	C1503 WRG	1
		JJ285 WRG	23
	75	A3269(SW334) WRG	14
	76	JJ285 WRG	24
	77	C1505 WRG	1
		C1506 WRG	2
		L1502 WRG	1
	78	TM100-12	2
R1502	79		
R1503	80		
R1501	81		
R1505	82		
R1504	83		
K1501,1502	84		
R1500,1543	85		
R1544,1552,53			
	86	TE102	4
	87	LD1355 to PM451	3
		RL143	4
		TE110-2(C1500GRD)	1
	88	JJ296(CA833)	2
	89	C1512	1
		C1513	1
	90	A3898	2
		MS3383	1
		TE0632	4
	91	A2774 to LD1338	1
		A2779 to LD1338	6
		A2782 to LD1338	4
		A2782 to A2779	1
		A2783 to LD1338	4
		A2783 to A2779	1
	92	TK114-18	8
	93	CU102(CA833)	3
	94	C1504	1
		C1506	1
		C1510	1
		C1516	1
	95	A2774 to LD1338	4
		A2779 to LD1338	2
		A3279	3
		MS3371	4
		MS3382	2
		MS3382 & MS3453	2
		MS3383	1
		MS3453	4
		MS3941	8
		TS168	4
	96	A2782 to LD1338	2
		A2782 to LD1338& MS3390	2
		A2782 to A2779	4
		A2782 to A2774	2
		A2773 to A2779	4
		A2784	4
		A2785	4
		A3278, A4045	3, 4
		A2783 to LD1338	2
A2783		to LD1338&MS3391	2
		A2786 to LD1338	5
		A2783 to A2779	4
		A2783 to A2774	2
		A2786 to A2779	4
		GR189	3
	97	CU102-1(CA833)&A3278	1
	98	A2786 to SIDEPLATE	4
S1504	99		
S1509	100		
	101	A3278	4
	102	C1500 WRG	1
		C1502,R1501 WRG	2
		L1502 WRG	1
		L1504 WRG	2
		PS1500 WRG	1
	103	C1500 GRD	1
		JJ287(CA833)	8
		JJ296(CA833)	2
		J1503	2
		J1504	1
		J1505	1
		J1506	1
		TE102 for L1504	1
	104	A3278	
		TS168, C1504	1,1
	105	TE114	2
	106	SW339	1
		UG625*/U	1
	107	B+ WRG	1
		T1500 WRG	1
	108	TB1500	2
		TB1501	2
T1500	109		
TB1500,1501	110		
XV1500	111		
EV1500	112		
XV1501	113		
J1502	114		
	115	TF173	1
	116	TE102	3
	117	MS4167	4
		TS103	2
	118	JJ285	8
		JJ287(CA833)	16
	119	TS168 WRG	2
	120	A3279(SW334) WRG	36
		TM100 WRG	12
	121	A3279(SW334) WRG	10
		TS168 WRG	2
	122	JJ285 WRG	144
		TS103 WRG	2
		TS168 WRG	1
	123	JJ285 WRG	5
	127	A4045	1
	128		
S1513	129	SW353-2	1
	130	MC131-1	2
	132	TM100	8

SUGGESTED ASSEMBLY PROCEDURE

1. MOUNT ITEMS TO REAR RETURN LIP OF MAIN CHASSIS,MS3368. (BARRIER TERM. BOARDS,VAR.RESISTORS,ETC.
2. MOUNT HARNESS W/POWER CONNECTOR.
3. WIRE IN,BUT DO NOT MOUNT A2773,PL ASSY,CHAN SWITCH.
4. MOUNT ALL COMPONENTS(EXCEPT ASSEMBLIES & METALWORK).
5. MOUNT PA PLATE CIRCUIT ASSEMBLY,A3279 & ATTACH TO RIGHT ANGLE DRIVE AND WIRE B+ AND FEEDBACK.
6. ASSEMBLE A2774 SHIELD ASSEMBLY TO CHASSIS.
7. WIRE CIRCUIT BREAKER.
8. WIRE ALL POINT TO POINT PA & IPA CIRCUITS,TOP AND BOTTOM.
9. ASSEMBLE METER CIRCUIT COVER,MS3383 TO REAR SHIELD ASSEMBLY,A2777.
10. ASSEMBLE WRAPAROUND AND MODULE CHASSIS ASSEMBLY,A2779 TO CHASSIS AND ADD GEARS, MOUNT TO SWITCH PLATE ASSEMBLY,A2773(STEP 3), WIRE TERMINAL BOARD,DECOUPLING CIRCUIT, AND MOUNT CABLE CONNECTORS TO MODULE CHASSIS.
11. ASSEMBLE SIDEPLATES,(A2782 & A2783)AND CABLE DUCTS(MS3390,MS3391) TO CHASSIS.
12. ASSEMBLE TRACKS,WHEN REQUIRED.
13. WIRE AND ASSEMBLE FRONT PANEL ASSEMBLY,A2786.
14. ASSEMBLE CHANNEL SWITCH KNOBS.
15. ASSEMBLE AND WIRE AF/IF RECEIVER AND TRANSMITTER BOARD ASSEMBLY'S (A2784 & A2785).
16. ASSEMBLE AND WIRE OSCILLATOR BOARD(A3278).
17. ASSEMBLE COVERS.

TMC PART NO	DESC.
AX418	AS SHOWN
AX418-2	MODIFIED FOR USE W/TTC-1 BY INCLUSION OF KIT-252 PER CONVERSION SPEC S1045 TO BECOME TTR-11
AX418-3	MODIFIED FOR USE W/TPCA-1/TTC-1 BY INCLUSION OF KIT-278 PER CONVERSION SPEC S1046 TO BECOME TTR-12

REVISIONS							
ZONE	SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
	Ø	ORIGINAL RELEASE FOR PRODUCTION	9/2/65	Ø			
	A	TMC CHT. ADDED, A4045, IT 41 58, 8117 DELE. SEE NOTE 1 DELETED PR. IT 126, 128	12/6/65	15393	M.V.		

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
1	100	SW339	SWITCH,ROTARY-IPA CHAN SELECTOR	
1	99	SW336-1	SWITCH,ROTARY-TAP,LINE-MIKE	
4	98	SCBP0832BN7	SCREW,MACHINE	
1	97	SCBP0632BN7	SCREW,MACHINE	
51	96	SCBP0632BN5	SCREW,MACHINE	
34	95	SCBP0632BN4	SCREW,MACHINE	
4	94	SCBP0632BN3	SCREW,MACHINE	
3	93	SC131-0832BN6	SCREW,MACHINE,UNDERCUT	
8	92	SC131-1032BN5	SCREW,MACHINE,UNDERCUT	
17	91	SC131-0632BN5	SCREW,MACHINE,UNDERCUT	
7	90	SC131-0632BN4	SCREW,MACHINE,UNDERCUT	
2	89	SC131-0632BN3	SCREW,MACHINE,UNDERCUT	
2	88	SC131-0440BN5	SCREW,MACHINE,UNDERCUT	
8	87	SC131-0440BN4	SCREW,MACHINE,UNDERCUT	
4	86	SC131-0440BN3	SCREW,MACHINE,UNDERCUT	
5	85	RV106UX8B503B	RESISTOR,VARIABLE,COMPOSITION	
2	84	RL143-3	RELAY,ARMATURE-MINIATURE,SB SELECTORS	
1	83	RC42GF181J	RESISTOR,FIXED,COMPOSITION	
1	82	RC32GF472J	RESISTOR,FIXED,COMPOSITION	
1	81	RC32GF221J	RESISTOR,FIXED,COMPOSITION	
1	80	RC20GF470K	RESISTOR,FIXED,COMPOSITION	
1	79	RC20GF103J	RESISTOR,FIXED,COMPOSITION	
2	78	PX337-12	INSULATOR,TERMINAL BOARD	
4	77	PX104-8-022	INSULATION SLEEVING,SZ 24-ORANGE	
24	76	PX104-7-034	INSULATION SLEEVING,SZ 20-GRAY	
14	75	PX104-6-066	INSULATION SLEEVING,SZ 14-BLUE	
24	74	PX104-6-034	INSULATION SLEEVING,SZ 20-BLUE	
2	73	PX104-6-022	INSULATION SLEEVING,SZ 24-BLUE	
4	72	PX104-5-034	INSULATION SLEEVING,SZ 20-BROWN	
22	71	PX104-4-066	INSULATION SLEEVING,SZ 14-GREEN	
7	70	PX104-4-053	INSULATION SLEEVING,SZ 16-GREEN	
24	69	PX104-4-034	INSULATION SLEEVING,SZ 20-GREEN	
24	68	PX104-3-034	INSULATION SLEEVING,SZ 20-RED	
2	67	PX104-3-022	INSULATION SLEEVING,SZ 24-RED	
29	66	PX104-2-034	INSULATION SLEEVING,SZ 20-YELLOW	
1	65	PX104-2-022	INSULATION SLEEVING,SZ 24-YELLOW	
2	64	PX104-1-034	INSULATION SLEEVING,SZ 20-BLACK	
1	63	PM454-1.21	SHAFT,HOLLOW	
1	62	PM451	HUB,KNOB	
4	61	MS3941	BRACKET,LOCKING,PA TANK	
3	60	NTH0832BN10	NUT,PLAIN,HEX	
31	59	NTH0632BN8	NUT,PLAIN,HEX	
43	58	NTH0440BN8	NUT,PLAIN,HEX	
1	57	NT137-0440	NUT,PLAIN,HEX,NYLON	
1	56	NT101-5	STRAP NUT,SOCKET	
1	55	MS3453	COVER,BOTTOM,REAR	
1	54	MS3450	COVER,FRONT PANEL CONTROLS	
1	53	MS3391	DUCT,CABLE,RIGHT	
1	52	MS3390	DUCT,CABLE,LEFT	
1	51	MS3383	COVER,METER CIRCUIT BOARD	
1	50	MS3382	COVER,BOTTOM,PA	
1	49	MS3371	BRACKET,MOUNTING,GEAR	
4	48	MS154-1	PLATE,MOUNTING,TERMINAL BOARD	
1	47	MP123-8FB	KNOB	
1	46	MP123-1FB	KNOB	
2	45	MC102	COUPLING,SHAFT,RIGID	
2	44	LWS04MRN	WASHER,LOCK,SPLIT	
3	43	LWE08MRN	WASHER,LOCK,EXTERNAL	
98	42	LWE06MRN	WASHER,LOCK,EXTERNAL	
50	41	LWE04MRN	WASHER,LOCK,EXTERNAL	
1	40	LD1355/PX376	KNOB	
1	39	LD1338/MS3368	CHASSIS,MAIN	
4	38	JJ285-6	CONNECTOR,RECEPTACLE,FEMALE	
2	37	HB122-1	CONNECTOR,ELECTRON TUBE	
1	36	GR192	GEAR,SPUR,3/8D	
1	35	GR191	GEAR,SPUR,1/4D	
1	34	GR189-1	GEAR DRIVE,RIGHT ANGLE	
1	33	FW101-1	WASHER,NEOPRENE,NYLON	
3	32	FW08HBN	WASHER,FLAT	
10	31	FW06HBN	WASHER,FLAT	
1	30	EY102-1	GROMMET,RUBBER	
3	29	CM113QE812J	CAPACITOR,FIXED,MICA	
3	28	CM113QE102J	CAPACITOR,FIXED,MICA	
1	27	CM30F302G	CAPACITOR,FIXED,MICA	
1	26	CM100-14	CAPACITOR,FIXED,MICA	
3	25	CM20F102G	CAPACITOR,FIXED,MICA	
1	24	CM15F511J	CAPACITOR,FIXED,MICA	
1	23	CL318	COIL,RF,FIXED	
6	22	CL240-120	COIL,RF,FIXED	
3	21	CK70AW202M	CAPACITOR,FIXED,CERAMIC	
1	20	CE116-5VN	CAPACITOR,FIXED,ELECTROLYTIC	
1	19	CC100-32	CAPACITOR,FIXED,CERAMIC	
1	18	CA833	WIRING HARNESS,BRANCHED	
1	17	CA409-32-2.00	LEAD,ELECTRICAL	
	16	BS100	SOLDER,TIN ALLOY	
1	15	AX163	SUPPRESSOR,PARASITIC	
6	14	SLHC0632SP3	SETSCREW	
10	13	SLHC0632SP2	SETSCREW	
1	12	A3279	PA PLATE CIRCUIT ASSEMBLY	
1	11	A3278-6	PC BOARD ASSEMBLY,CW OSC	
1	10	A2786	PANEL ASSEMBLY,FRONT	
1	9	A2785	TRANSMITTER AF/IF ASSEMBLY	
1	8	A2784	RECEIVER AF/IF ASSEMBLY	
1	7	A2783	PLATE ASSEMBLY,RIGHT SIDE	
1	6	A2782	PLATE ASSEMBLY,LEFT SIDE	
1	5	A2779	WRAPAROUND/MODULE CHASSIS ASSEMBLY	
1	4	A2774	PA SHIELD ASSEMBLY	
1	3	A2773	PLATE ASSEMBLY,CHANNEL SWITCH	
1	2	8117	ELECTRON TUBE-PWR AMPL	
1	1	6GK6	ELECTRON TUBE-IPA	

LIST OF MATERIAL

MATERIAL

FINISH

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TITLE: MAIN CHASSIS ASSEMBLY

QTY/UNIT	MODEL USED ON	ASS'Y. NO.
1	TTR-10	AX418
SCALE	CODE	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS .X ± .05, .XX ± .01, .XXX ± .005
TOLERANCES
FRACTIONS ± 1/64
ANGLES ± 0° 30'

	DRAWN	DATE	FINAL APPROVAL	DATE
ENG COORD		1/8/65		
CHECKED		DATE		
ELECT. DES.		DATE	AX418	
MECH. DES.		DATE		A
			SHEET	REV. LTR.

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

NOTES

AX418 A

TMC FORM 111

REPROVEL NO. 440H