

USED ON  
MODEL-

MMX-2B  
BMA533

FOR

MODEL A4478-1  
TITLE STEP GEN. A

LAST SYMBOLS

C133  
R112  
CR12  
L23  
Q15  
T31

MISSING SYMBOLS

C70,71,72  
R54 THRU R60

REV.	SHEET(S)	DATE	APPR.
A	21835	4/1/81	
B	21976	7-26-82	

COMPILED las  
CHECKED \_\_\_\_\_  
KEY PUNCHED \_\_\_\_\_

ENGINEERING JOB ORDER  
# E -

§ FOR SPECIAL NOTES,  
REFER TO S1200.



# MATERIAL LIST

REV. A

A4478-1

SHEET 2 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
		A4478-1	1		C56	
			1		C57	
			1		C58	
			1		C62	
			1		C63	
			1		C64	
			1		C65	
			1		C68	
			1		C73	
			1		C74	
			1		C75	
			1		C76	
			1		C77	
			1		C79	
			1		C80	
			1		C81	
			1		C86	
			1		C87	
			1		C88	
			1		C89	
			1		C93	
			1		C94	
			1		C95	
			1		C96	
			1		C100	
			1		C101	
			1		C102	
			1		C103	
			1		C105	
			1		C111	
			1		C112	
			1		C113	
			1		C114	
			1		C118	
			1		C119	
		A4478-1	1		C120	

# MATERIAL LIST

REV. A

A4478-1

SHEET 3 OF 13

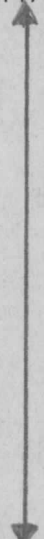
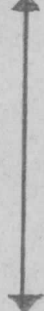
PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
		A4478-1	1		C121	
		↕	1		C125	
			1		C126	
			1		C127	
			1		C129	
			1		C131	
		A4478-1	1	69*	C133	
CC100-30	CAP, FXD, CER	A4478-1	1	1*	C132	
CC100-40	CAP, FXD, CER	A4478-1	1		C13	
		↕	1		C34	
			1		C47	
			1		C67	
			1		C85	
			1		C106	
			1		C110	
		A4478-1	1	8*	C130	
CI127-7	CORE, TOROID	TZ221	1	1*		
CI126-6	CORE, ADJ, TUN.	TT287-13	6			
		TT287-14	4			
		TT287-15	2			
		TT287-19	2			
		TT287-20	4			
		TT287-3	6			
		TT287-4	4			
		TT287-5	2	30*		
CK1322	DIAG, SCHEM	A4478-1	1	1*		
CL275-120	COIL, RF, FXD	A4478-1	1		L8	
		A4478-1	1	2*	L9	

# MATERIAL LIST

REV. A

A4478-1

SHEET 4 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S 1200
CL275-121	COIL, RF, FXD	A4478-1  A4478-1	1 1		L1 L2 L3 L4 L5 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23	
CL275-222	COIL, RF, FXD	A4478-1 A4478-1	1 1	19* 2*	L6 L7	
CM111C050D5S	CAP, FXD, MICA	A4478-1  A4478-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12*	C11 C19 C26 C45 C53 C60 C83 C91 C98 C108 C116 C123	

# MATERIAL LIST

REV. *A*

A4478-1

SHEET 5 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
CM111E470G5S	CAP, FXD, MICA	A4478-1 A4478-1	1 1	2*	C31 C66	
CM111E680J5S	CAP, FXD, MICA	A4478-1 A4478-1	1 1	2*	C104 C128	
CM111F121G5S	CAP, FXD, MICA	A4478-1 ↑ ↓ A4478-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1	13*	C6 C82 C84 C90 C92 C97 C99 C107 C109 C115 C117 C122 C124	
CM111F151F5S	CAP, FXD, MICA	A4478-1 ↑ ↓ A4478-1	1 1 1 1 1 1 1 1 1 1 1 1	13*	C10 C12 C18 C20 C25 C27 C44 C46 C52 C54 C59 C61 C78	

# MATERIAL LIST

REV. A

A4478-1

SHEET 6 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S 1200
CM111F621D5S	CAP, FXD, MICA	A4478-1 A4478-1 A4478-1 A4478-1	1 1 1 1	4*	C40 C41 C42 C43	
DD139	SCOND DEV, DIO	A4478-1 A44781- A4478-1 A4478-1	1 1 1 1	2*	CR1 CR2 CR4 CR3	
GL102	ADHESIVE-Q-MAX	TT287-13 TT287-14 TT287-15 TT287-19 TT287-20 TT287-3 TT287-4 TT287-5		*		
GL103	ADHESIVE-N-CEL	TT287-20 TT287-13 TT287-14 TT287-15 TT287-19 TT287-3 TT287-4 TT287-5		*		
GL104-2	INSG VARN, EL	TZ221		*		
GL129	ADHESIVE	TT287-13 TT287-14 TT287-15 TT287-19 TT287-20 TT287-3				

# LIST

REV. B A4478-1

SHEET 7 of 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
LD3094-9 / MS6004	MARKING, STIFF	A4478-1	1	1		
MS6004	STIFF.	LD3094-9/MS6004	1	1*		
NT137-0632	NUT, PLN, HEX, N	TZ221	1	1*		
PC301	PC BOARD	A4478-1	1	1*		
RC07GF100J	RES, RXD, COMP	A4478-1	1	1*	R53	
RC07GF101J	RES, FXD, COMP	A4478-1	1		R8	
		↑	1		R9	
		↑	1		R68	
		↑	1		R50	
		↑	1		R25	
		↑	1		R109	
		↑	1		R103	
		↑	1		R85	
		↑	1		R110	
		↑	1		R111	
		↑	1		R112	
		↑	1	12*	R69	
		↓	1			
RC07GF102J	RES, FXD, COMP	A4478-1	1		R3	
		↑	1		R11	
		↑	1		R17	
		↑	1		R31	
		↑	1		R36	
		↑	1		R42	
		↑	1		R63	
		↑	1		R71	
		↑	1		R77	
		↑	1		R89	
		↑	1	11*	R95	











# MATERIAL LIST

REV. A

A4478-1

SHEET 8 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
RC07GF121J	RES, FXD, COMP	A4478-1   A4478-1	1 1 1 1 1 1 1 1 1 1	9*	R21 R33 R34 R46 R81 R99 R106 R107 R108	
RC07GF123J	RES, FXD, COMP	A4478-1 A4478-1 A4478-1 A4478-1	1 1 1 1	4*	R47 R82 R22 R100	
RC07GF150J	RES, FXD, COMP	A4478-1   A4478-1	1 1 1 1	4*	R14 R39 R74 R92	
RC07GF181J	RES, FXD, COMP	A4478-1   A4478-1	1 1 1 1 1 1 1 1	8*	R15 R27 R40 R52 R75 R87 R93 R105	
RC07GF182J	RES, FXD, COMP	A4478-1   A4478-1	1 1 1 1 1 1 1		R13 R19 R23 R38 R44 R48 R73	

# MATERIAL LIST

REV. A

A4478-1 SHEET 9 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
		A4478-1 ↕ A4478-1	1 1 1 1 1		R79 R83 R91 R97 R101	
RC07GF220J	RES, FXD, COMP	A4478-1 A4478-1 A4478-1 A4478-1	1 1 1 1	12*	R20 R45 R80 R98	
RC07GF270J	RES, FXD, COMP	A4478-1 ↕ A4478-1	1 1 1 1	4*	R26 R51 R86 R104	
RC07GF330J	RES, FXD, COMP	A4478-1	2	2*		
RC07GF331J	RES, FXD, COMP	A4478-1 ↕ A4478-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R4 R12 R18 R29 R37 R43 R64 R72 R78 R90 R96	
RC07GF470J GF	RES, FXD, COMP	A4478-1 A4478-1	1 1	2*	R5 R65	
RC07GF680J	RES, FXD, COMP	A4478-1 A4478-1 A4478-1	1 1 1	3*	R66 R6 R32	

# MATERIAL LIST

REV. *A*

USED ON A4478-1

SHEET 10 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY. PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
RC07GF821J	RES, FXD, COMP	A4478-1 A4478-1 A4478-1 A4478-1	1 1 1 1	4*	R24 R49 R84 R102	
RC07GF822J	RES, FXD, COMP	A4478-1 ↑ ↓ A4478-1	1 1 1 1 1 1 1 1 1 1 1	11*	R2 R10 R16 R30 R35 R41 R62 R70 R76' R88 R94	
RG188/U	CBL, RF	TZ221	16	16*		
RV124-1-101	RES, VAR, COMP	A4478-1 A4478-1 A4478-1	1 1 1	3*	R61 R1 R28	
RV124-1-501	RES, VAR, COMP	A4478-1 A4478-1	1 1	2*	R7 R67	
SC143-0632B10	SCR, MACH-NYLON	TZ221	1	1*		
TT287-13	XFMR, RF, ADJ	A4478-1 ↑ ↓ A4478-1	1 1 1 1 1 1	6*	T23 T26 T28 T30 T21 T19	

# MATERIAL LIST

REV. *A*

USED ON A4478-1

SHEET 11 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY. PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
TT287-14	XFMR, RF, ADJ	A4478-1	1		T20	
		↕	1		T22	
		↕	1		T27	
		A4478-1	1	4*	T29	
TT287-15	XFMR, RF, ADJ	A4478-1	1		T18	
		A4478-1	1	2*	T25	
TT287-19	XFMR, RF, ADJ	A4478-1	1		T1	
		A4478-1	1	2*	T17	
TT287-20	XFMR, RF, ADJ	A4478-1	1		T8	
		↕	1		T16	
		↕	1		T24	
		A4478-1	1	4*	T31	
TT287-3	CAP, FXD, MICA	A4478-1	1		T13	
		↕	1		T15	
		↕	1		T3	
		↕	1		T5	
		↕	1		T7	
		A4478-1	1	6*	T11	
TT287-4	XFMR, RF, ADJ	A4478-1	1		T4	
		↕	1		T6	
		↕	1		T12	
		A4478-1	1	4*	T14	
TT287-5	XFMR, RF, ADJ	A4478-1	1		T2	
		A4478-1	1	2*	T10	
TZ221	XFMR, RF	A4478-1	1	1*	T9	
WA125-2	WASH., NM	TZ221	1	1*		

# MATERIAL LIST

REV. A

USED ON A4478-1

SHEET 12 OF 13

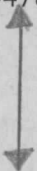
PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY. PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
WI104-1243SCQ5	WIRE, ELEC, LITZ	TT287-13 TT287-14 TT287-15 TT287-19 TT287-20 TT287-3 TT287-4 TT287-5		*		
WI123-28	WIRE, EL, MAG, HT	TZ221		*		
WI141-32-9SCQ5	WIRE, EL, MAG, T	TT287-13 TT287-14 TT287-15 TT287-19 TT287-20 TT287-3 TT287-4 TT287-5		*		
1N914	SCOND DEV, DIO	A4478-1 ↑ ↓ A4478-1	1 1 1 1 1 1 1 1 1		CR5 CR9 CR6 CR10 CR8 CR7 CR11 CR12	
2N3646	TRANSISTOR	A4478-1 ↑ ↓ A4478-1	1 1 1 1 1 1 1 1	8*	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	

# MATERIAL LIST

REV. **B**

USED ON A4478-1

SHEET 13 OF 13

PART NUMBER	DESCRIPTION	USED ON	QTY.	QTY. PER UNIT	REFERENCE SYMBOLS	SPECIAL NOTES REFER TO S1200
<p>4/1/81 REV. A</p> <p>7-26-82 REV B</p>	<p>EMN. 21835</p> <p>EMN 21976</p>	<p>A4478-1</p>  <p>A4478-1</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>15*</p>	<p>Q9</p> <p>Q10</p> <p>Q11</p> <p>Q12</p> <p>Q13</p> <p>Q14</p> <p>Q15</p>	