REVISIONS							
ZONE	SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
	Ø	ORIGINAL RELEASE FOR PROD	3/16/67	Ø			
	A	COMPLETELY REVISED. SEE SHEET 2	3/22/67	18021	RME		

TBI502
-20 DBM 600Ω LINE
CARBON MIKE
LO "Z" MIKE
HI "Z" MIKE
ANTI-VOX
PHONE
PTT
GRD
GRD
KEY
C1501 C1502 C1503 L1502 L1503 C1557 C1558 C1584 L1504 C1504 L1505 C1505 L1527 C1560 C1506 C1561 R1524 3.9K C1507 L1506 C1508 C1562 C1509 L1507 R1523 10K L1508 C1510 L1509 C1564 C1511 C1563 C1565

NOTE: COMPONENTS ON THIS P/C BOARD ARE IN THE 1500 SYMBOL SERIES.

SEE NOTE 4

CW OSCILLATOR BOARD
A3278-5
(SEE CK1172)

P/O SI517 MODE
CW SSB -20DB AME MCW
+12V

-12V
R1550 680
R1548 330K
C1544 5.15V
Q1501 2N1370-4 PREAMP
R1551 33K
R1549 22

PREAMPLIFIER BOARD
A4581

AUDIO IN
AUDIO CT
AUDIO IN
CARBON MIKE INPUT
AUDIO INPUT
ANTI-VOX
VOX
PTT

NOTE: COMPONENTS ON THIS P/C BOARD ARE IN THE 1700 SYMBOL SERIES.

TRANSMITTER AUDIO BOARD
A3221
(SEE CK1171)

AUDIO GAIN
AF GAIN CW R1547B 5K
AUDIO OUT
AUDIO OUT
VOX GAIN OUTPUT
VOX GAIN INPUT
VOX GAIN CW R1513 10K,2W
GRD
CARRIER CONTROL RELAY
CARRIER CONTROL RELAY
CARRIER CONTROL RELAY
CARRIER CONTROL RELAY

SEE SHEET 2 OF 2

PTT VOX SI501

P/O SI517
CW SSB -20DB AME MCW
R1541 330
CW R1517 500,2W ANTI-VOX

P/O K1505 (SEE SHEET 2)

J1515
CARBON MIKE 4
HI "Z" MIKE 5
LO "Z" MIKE 6
PUSH TO TALK 2
PHONE 3
GRD 1
L1528 120
C1583 .001
R1525 3.9K
R1526 10K

NOTE: COMPONENTS ON THIS P/C BOARD ARE IN THE 900 SYMBOL SERIES.

POWER SUPPLY BOARD
A3153-6
(SEE CK1170)

NOTE: COMPONENTS ON THIS P/C BOARD ARE IN THE SINGLE SYMBOL SERIES.

POWER SUPPLY
A4542
(SEE CK1263)

R1554 100, 25W
Q903 2N3789 SERIES REGULATOR
+24V
C1559 1000 50V

.125A/115V
F907 .062A/230V
FOR 230VAC OPERATION SEE NOTE 3
T902
POWER S901 ON
T903
POWER INPUT J904 A B C
OVEN INPUT J905
C919 0.02
C920 0.02
INT. EXT.
OVEN SW S902
115V
OVEN INPUT (SHEET 2)
F908 (SEE NOTE 2)
F912 .250A

F911 .125A
F910 .125A
F909 .125A
C911 2000
C907 2000
C1500 2000
C921 100
DS1501 PWR ON
+12V
-36V
-12V
Q902 2N350A
Q901 2N350A
Q900 2N350A
SERIES REGULATOR

LAST SYMBOLS	
1500 SERIES	900 SERIES
C1583	C921
DS1501	F912
J1537	J905
K1505	Q903
M1502	S907
Q1501	T903
R1555	
S1519	
TB1502	
FL1501	
L1528	

MISSING SYMBOLS	
1500 SERIES	900 SERIES
C1530 THRU C1543	C900 THRU C906
DS1500	C908 ↑ C910
J1500 THRU J1514	C912 ↓ C918
J1517 THRU J1525	F900 ↓ F906
M1500, M1501	J900 THRU J903
Q1500	S900
R1500 THRU R1512	S903 THRU S906
R1514 ↑ R1516	T900, T901
R1518 ↓ R1522	
R1527 THRU R1535	
R1539, R1540	
R1542	
R1545, R1547	
S1503 THRU S1505	
S1507 THRU S1514	
S1516, S1518	
TB1500, TB1501	
C1553	
L1500	
FL1500	

NOTES

1- UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE VALUES ARE IN OHMS, 1/2 W. ALL CAPACITANCE VALUES ARE IN MICROFARADS AND ALL INDUCTANCE VALUES ARE IN MICROHENRIES.

2- THE VALUE OF F908 DEPENDS UPON THE OVEN SUPPLY VOLTAGE USED.

3- FOR 230 VOLT OPERATION, REMOVE JUMPERS MARKED X X X
ADD JUMPERS BETWEEN TRANSFORMER TERMINALS 2 AND 3, ON T903 AND TERMINALS 2 AND 3B ON T902 MARKED — — — —

4- THESE TERMINALS ARE CONNECTED TOGETHER ONLY WHEN A HIGH IMPEDANCE MICROPHONE IS USED.

5- 150 UH TYPICAL FOR L1502 THRU L1527
.001 UF TYPICAL FOR C1557 THRU C1582 AND C1501 THRU C1511.

NOTES

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
O. POSE		LIST OF MATERIAL		

MATERIAL
FINISH

THE-TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TITLE: DIAGRAM, INTERCONNECT

I	SMEE-1A	
Q'TY/UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
DECIMALS .X ± .05, .XX ± .01, .XXX ± .005
FRACTIONS ± 1/64
ANGLES ± 0° 30'
TOLERANCES

DRAWN H. AUSTIN DATE 3-10-67
CHECKED DATE 3-10-67
ELECT. DES. DATE
MECH. DES. DATE
FINAL APPROVAL DATE 3/16/67

CK1308 A
SHEET 1 OF 2

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TMC FORM 111 REPROVEL NO. A8008