REVISIONS							
ZONE	SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
	X	EXPERIMENTAL RELEASE	8/66	—	JC		
	X1	ADDED T903 TO PICTORIAL, NOTE 3 & LAST SYMBOL CHART SEE SHEET 2 — ALSO ADDED NOTE 4	8-24-66		HA		
	X2	10E20 ON AUDIO BD WERE TO TRANSMIT RECEIVER RELAY; 16 WAS TO -12V; 21 WAS TO +12V. S510 DELETED. T903 REWIRED. NOTES REVISED. SEE SHEET 2 OF 2	10/6/66	—	WW		
	X3	K1503 & R1553 ON LAST SYMBOL CHART WERE K1502 & R1552. SEE SHEET-2	10/31/66		JL		
	X4	POWER SUPPLY BD ADDED. T903 REVISED L1502 & C1557-9, R1554 & Q903 ADDED SEE SHEET 2 OF 2	11-7-66	—	WW		
	X5	ADD. "L1529 THRU C1565", "L1527" & "C1559" THRU "C1562"; CHGD. VALUES OF "C1537" & "C1558" TO ".001" (WAS .1) - ADD "F912", ADD LAST SYMBOLS TO CHART ACCORDINGLY - CHGD. NUMBER TO "SHEET-1" & "SHEET-1 OF 2" (WAS SHEET 1) - SEE SHEET 2 OF 2	12/9/66	-	HA		
	X6	ON PRESENT BD "-12" WAS "+12V"; Q901 WAS TYPE 2N308 - R1550 WAS 1K; T903, L1528 & C1583 DELETED LAST SYMBOL CHART	12-16-66	-	HA		
	X7	SEE SHEET 2 OF 2	12-28-66	—	RME		
	X8	NOTE 5 ADDED & SEE SHEET 2 OF 2	1-10-67	X8	CDL		
	X9	R1555 ADDED TO LAST SYM. SEE SHEET 2	1-18-67	X9	RME		
	X10	C1501 THRU C1511 ADDED & SEE SHEET 2	2/15/67	X10	LAK		
	Ø	ORIGINAL RELEASE FOR PROD.	2/16/67	Ø	LAK		

TBI502
-20 DBM 600Ω LINE
CARBON MIKE
LO "Z" MIKE
HI "Z" MIKE
ANTI-VOX
PHONE
PTT
GRD
GRD
KEY
L1502 C1501 C1557 C1502 C1503 L1503 C1558 C1559 L1504 C1504 L1505 C1505 L1527 C1560 C1506 R1524 3.9K C1561 C1507 L1506 C1508 C1562 C1509 L1507 R1523 10K L1508 C1510 L1509 C1564 C1511 C1563 C1565
SEE NOTE 4
CW OSCILLATOR BOARD A3278-5 (SEE CK1172)
-12 V
R1548 330K R1550 680 C1544 5 Q1501 2N1370-4 PREAMP R1551 33K R1549 22
PREAMPLIFIER BOARD A3898
S1518 LINE HANDSET +12V
AUDIO IN 9
AUDIO CT 10
AUDIO IN 11
CLIPPING VOLTAGE IN 12
CLIPPING VOLTAGE OUT 14
CARBON MIKE INPUT 5
AUDIO INPUT 6
ANTI-VOX 15
VOX 17
PTT 18
PTT VOX S1501
TRANSMITTER AUDIO BOARD A3221 (SEE CK1171)
AUDIO GAIN 8
CW AF GAIN R1547B 5K
AUDIO GAIN 7
AUDIO OUT 1 A
AUDIO OUT 2 B
VOX GAIN OUTPUT 4 E
VOX GAIN INPUT 3
CW VOX GAIN R1513 10K
GRD 13
CARRIER CONTROL RELAY 16 G
CARRIER CONTROL RELAY 21 F
CARRIER CONTROL RELAY 19 C
CARRIER CONTROL RELAY 20 D
SEE SHEET 2 OF 2
P/O S1517 MODE CW SSB -20DB AME MCW +12V W
P/O S1517 CW SSB -20DB AME MCW W B
R1541 330
R1517 500 ANTI-VOX
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
POWER SUPPLY BOARD A3153-6 (SEE CK1170)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
+12V -36V -12V
C911 2000 F909 .125A C907 2000 C1500 2000
F911 .125A F910 .125A
C921 100
Q902 2N350A Q901 2N350A Q900 2N350A
SERIES REGULATOR
DS1501 PWR ON
POWER SUPPLY (SEE CK1263)
R1554 100, 25W Q903 2N3789 SERIES REGULATOR
+24V C1559 1000 50V
F912 .250A
.125A/115V F907 .062A/230V
FOR 230VAC OPERATION SEE NOTE 3
T902 3A 3B 4A 4B
POWER S901 ON
T903
POWER INPUT J904 A B C
OVEN INPUT J905
C919 0.02 C920 0.02
INT. EXT.
OVEN SW S902
F908 (SEE NOTE 2)
115V OVEN INPUT (SHEET 2)

LAST SYMBOLS	
1500 SERIES	900 SERIES
C1583	C921
DS1501	F912
J1536	J905
K1504	Q903
M1502	S907
Q1501	T903
R1555	
S1518	
TB1502	
FL1501	
L1528	

MISSING SYMBOLS	
1500 SERIES	900 SERIES
C1501 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 THRU R1547	
S1503 ↕ S1505	
S1507 THRU S1514	
S1516	
TB1500, TB1501	
C1553	

NOTES

1- UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE VALUES ARE IN OHMS, 1/2W. 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 — 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

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

MATERIAL
FINISH

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TITLE: DIAGRAM, INTERCONNECT

1	SMEE-1	
1	SMEC-1	
Q'TY./UNIT	MODEL USED ON	ASSY. NO.

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 H. AUSTIN DATE 8-9-66
CHECKED DATE
ELECT. DES. DATE
MECH. DES. DATE
FINAL APPROVAL DATE 2/16/67

CK1184
SHEET 1 OF 2
REV. LTR.

NOTES

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.

TMC FORM 111
REPROVEL NO. 440H