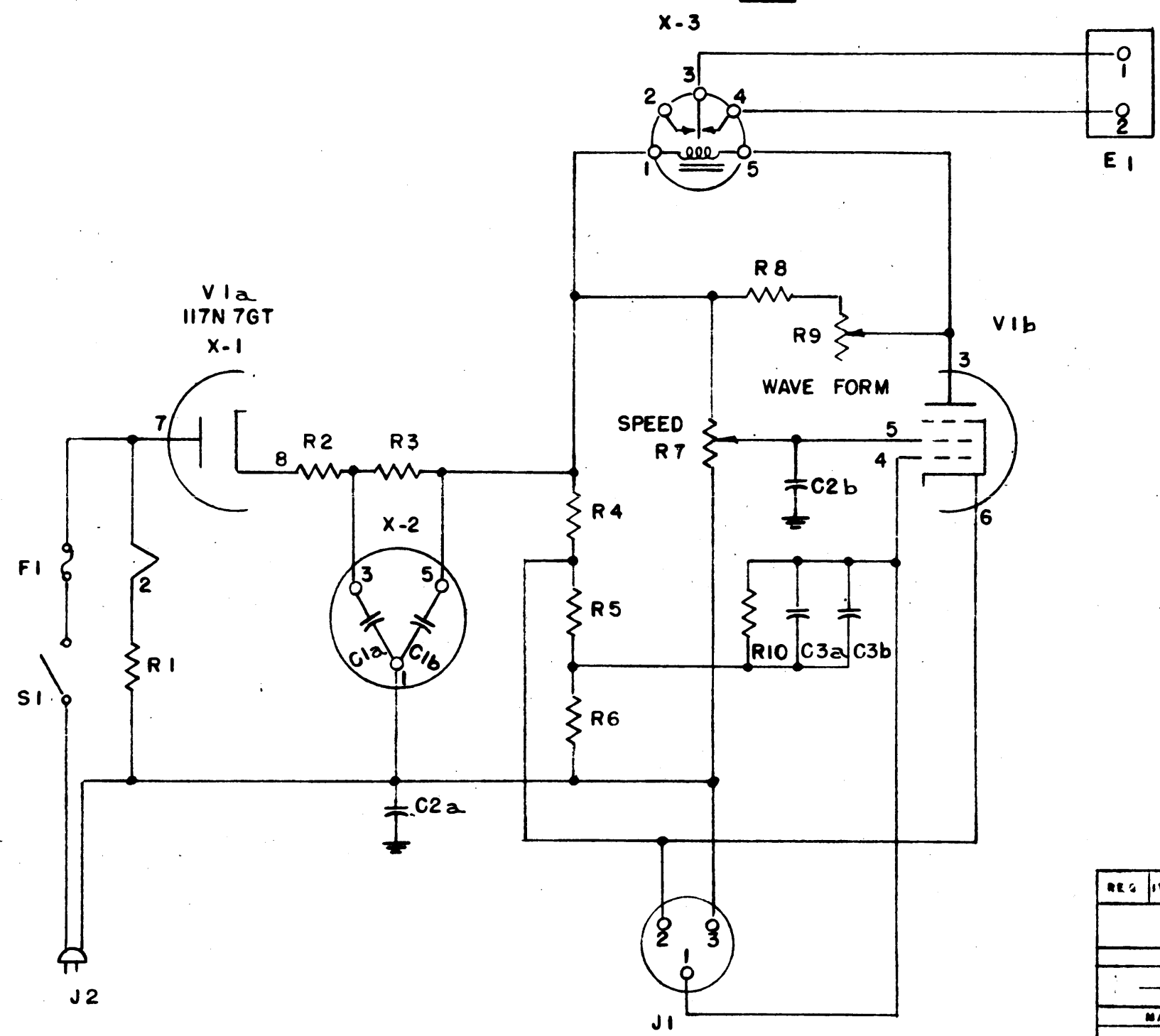


IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALL WABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-100



NOTICE TO PERSONS RECEIVING THIS DRAWING

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Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REG	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			MORSE RELAY	
			KEYING UNIT	
			TYPE & TEMPER	MD 6/11/52 A.P.B. 7/9/52
			MATERIAL	DRWN ELEC DES APP. SEEN DES APP.
			WEIGHT PER PC	UNC. 4/30/52
			HEAT TREAT. SPEC.	CHECKED
			FINISH & SPEC NO.	FINAL APPROVAL
				CK-100

ISSUE	ITEM	CHANGED FROM	DATE	CH NO	DRAFTS	CHECKER	ENG APP

MRK-1	102	6-11-52
MODEL	PROJECT NO	ASS'Y. NO.
		DATE
	USED ON	

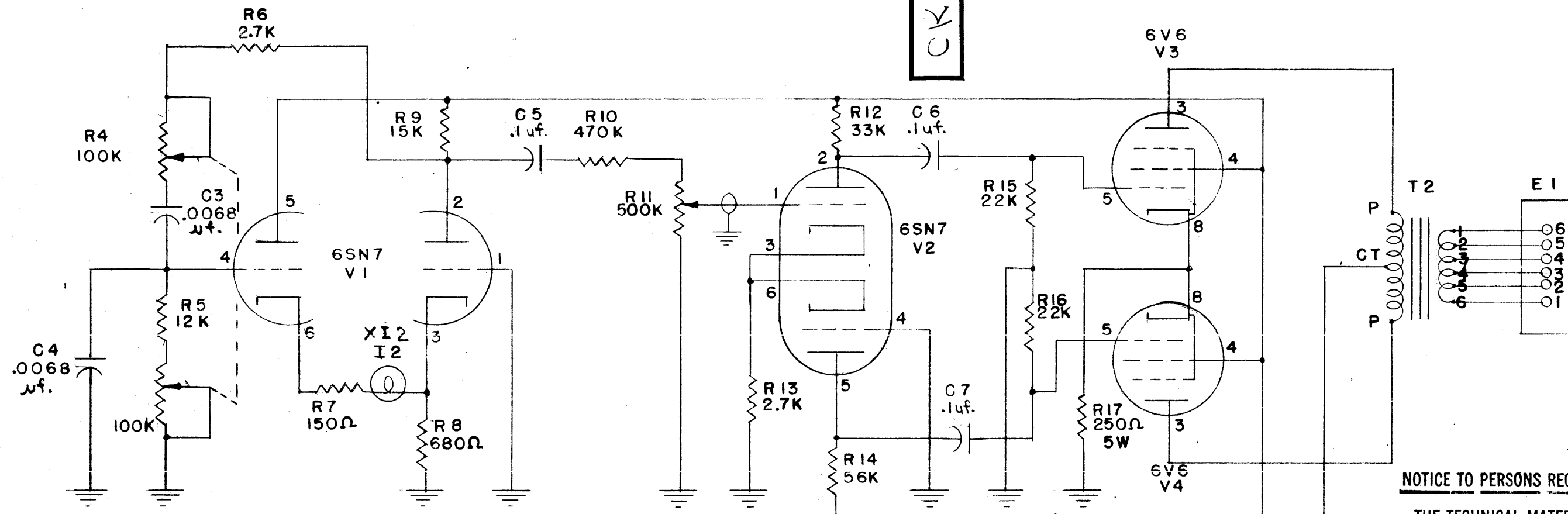
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

RELEASED

CK-102 B

NOTE: ALL RESISTORS 1/2 WATT UNLESS INDICATED

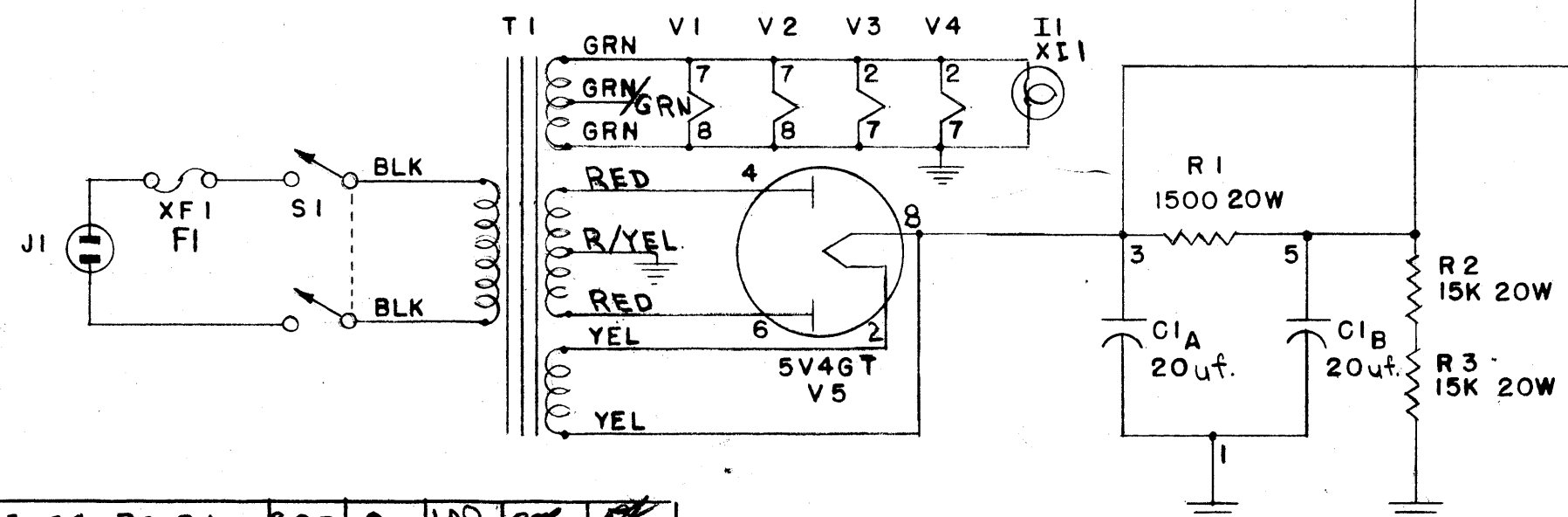


VALUES AT 8000 Ω	
TAPS	IMP.
1-2	5
1-3	12
1-4	15
1-5	18
1-6	24

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Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
	#		THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			SCHMATIC DIAGRAM	
			C.D. 08-7-52	
			DRAWN	
			CHECKED	
			FINAL APPROVAL	
				CK-102

B	2	6-12-24-30-36	9-9-52	2	JAD	085	18
A	1	Transf. Imp. Changed	9-5-52	1	JAD	084	074
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

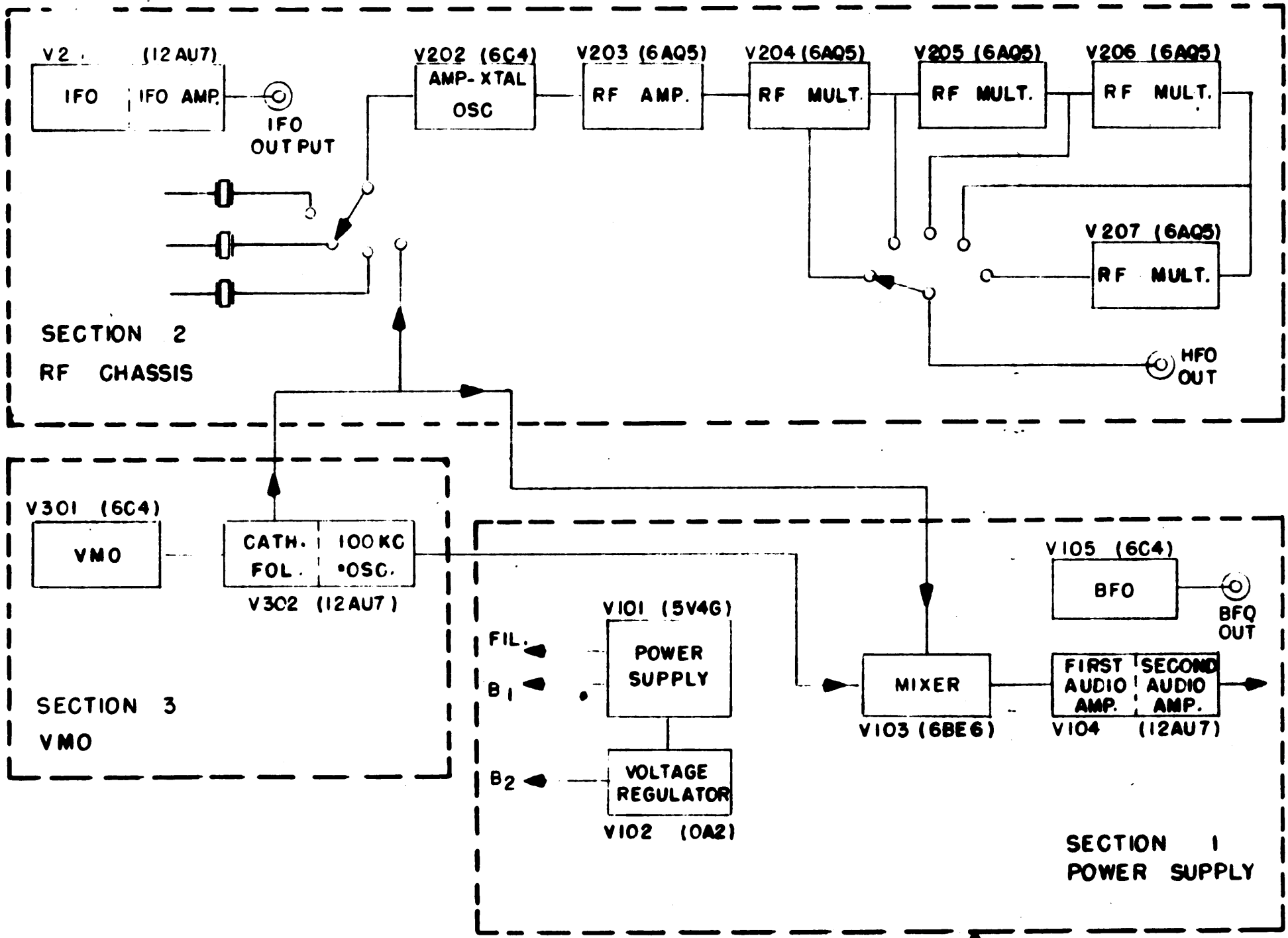
TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

VTG	103	A-124	8-7-52
MODEL	PROJECT NO.	ASSY. NO.	DATE

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-106



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Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REQ. NO.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			FUNCTIONAL	
MATERIAL			BLOCK DIAGRAM	
WEIGHT PER PC.			DRAWN: <i>A.J.J.</i> 9/16/52 ELEC. DES. APP.	
TYPE & TEMPER.			CHECKED: _____ FINAL APPROVAL: _____	
HEAT TREAT. SPEC.			CK-106	
FINISH & SPEC. N.				

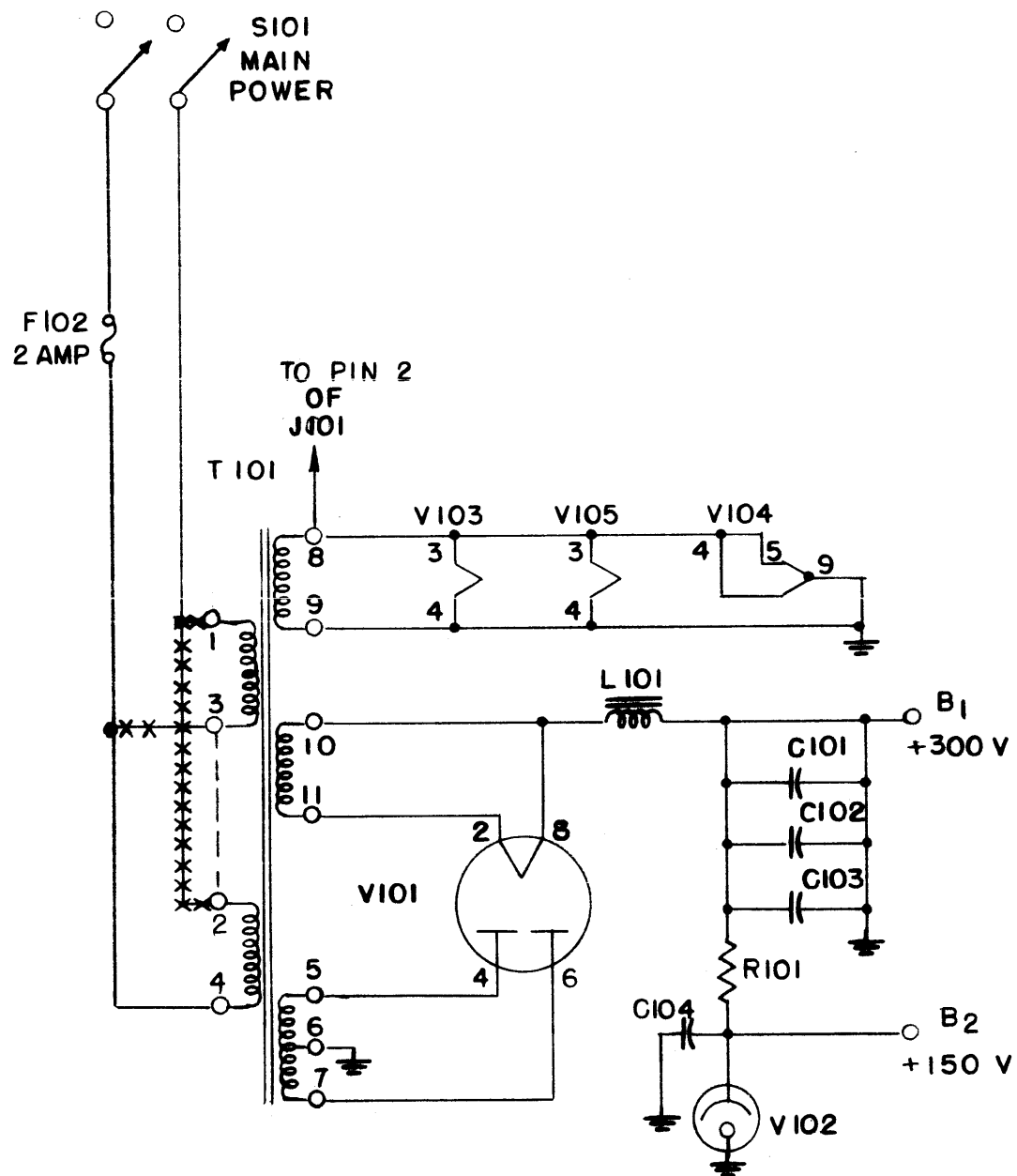
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
SCALE:				DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.			
ALL THERE DEC. DIM. ± PRAC. DIM. ± ANGULAR DIM. ±							

VOX	101	9-13-52
M DEL	PROJECT NO.	ASSY. NO.
USED ON		

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-107



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MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			POWER SUPPLY CIRCUIT	
MATERIAL WEIGHT PER PC.				
TYPE & TEMPER			DRAWN <i>[Signature]</i> ELEC. DES. APP. MECH. DES. APP.	
HEAT TREAT. SPEC.			DRD-7-18-52 CHECKED FINAL APPROVAL	
FINISH & SPEC. NO.			CK-107	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:					
ALL OTHERS		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

VOX

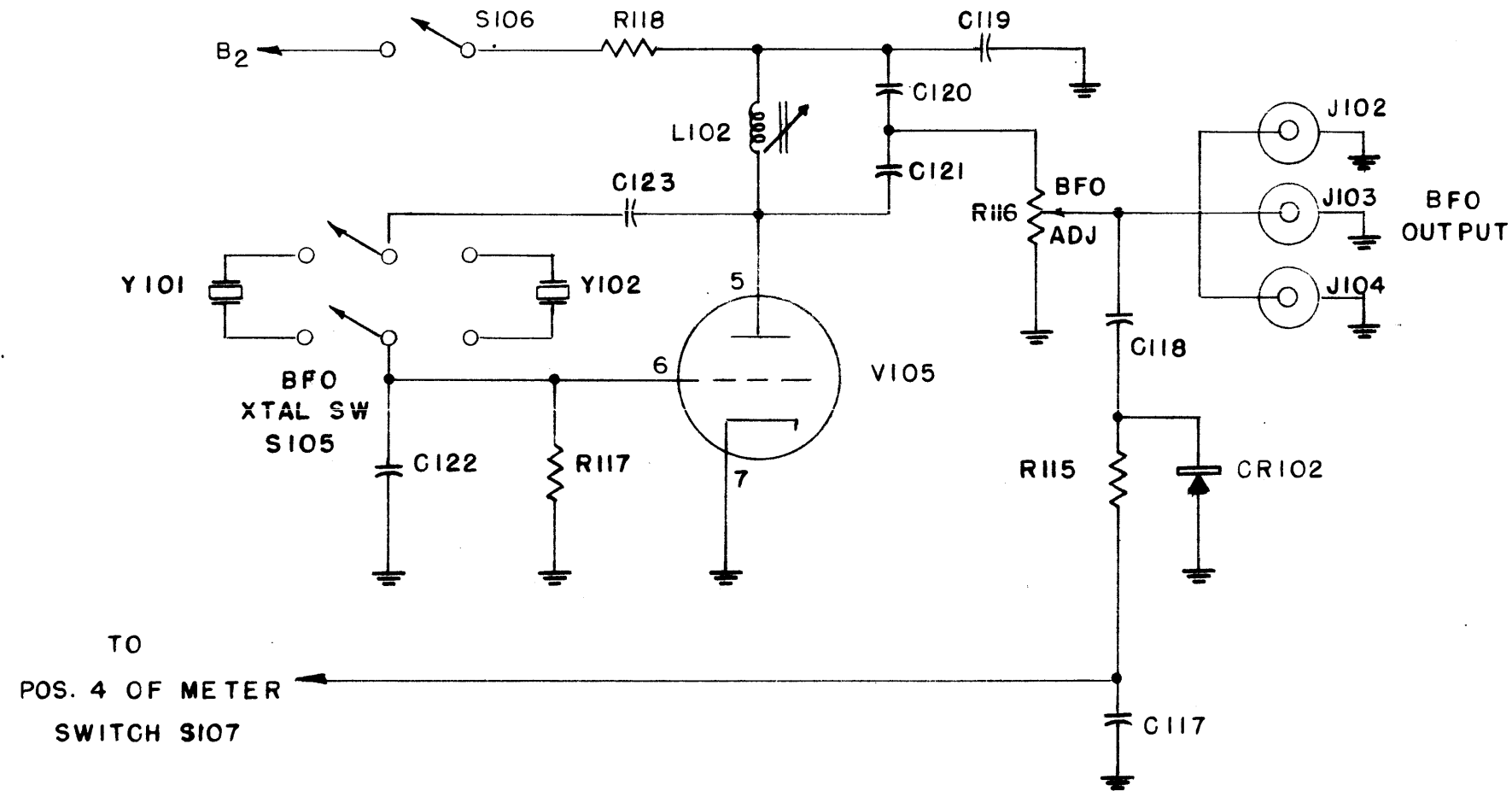
9-13-52

USED ON

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-108



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MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			BFO CIRCUIT	
STOCK SIZE				
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER				
DRAWN		ELEC. DES. APP.	MECH. DES. APP.	
HEAT TREAT. SPEC.		DRAWN <i>DRD 9-18-52</i>		
FINISH & SPEC. NO.		CHECKED _____ FINAL APPROVAL _____		
		CK-108		

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:					
ALL OTHERS		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

VOX

9-15-52

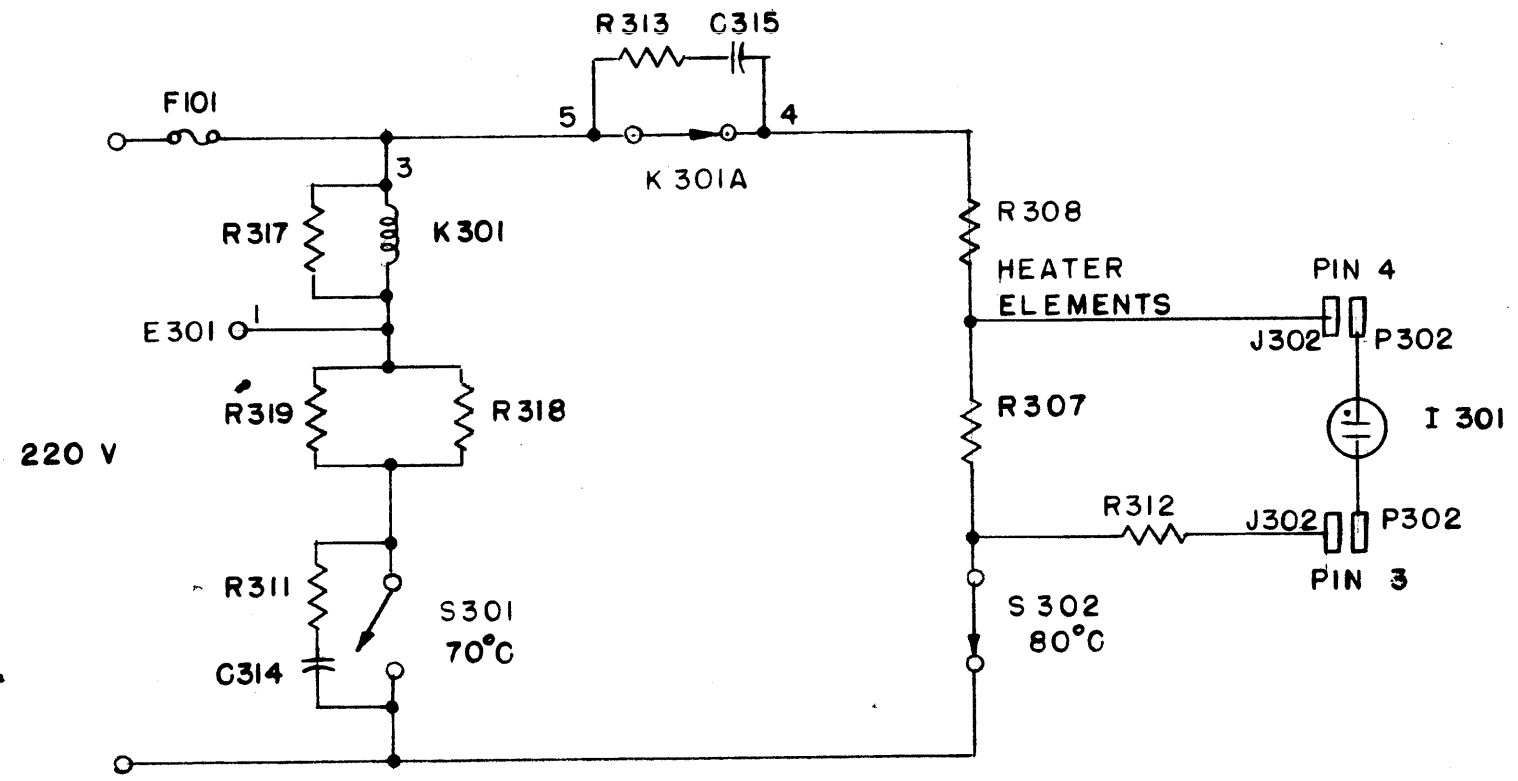
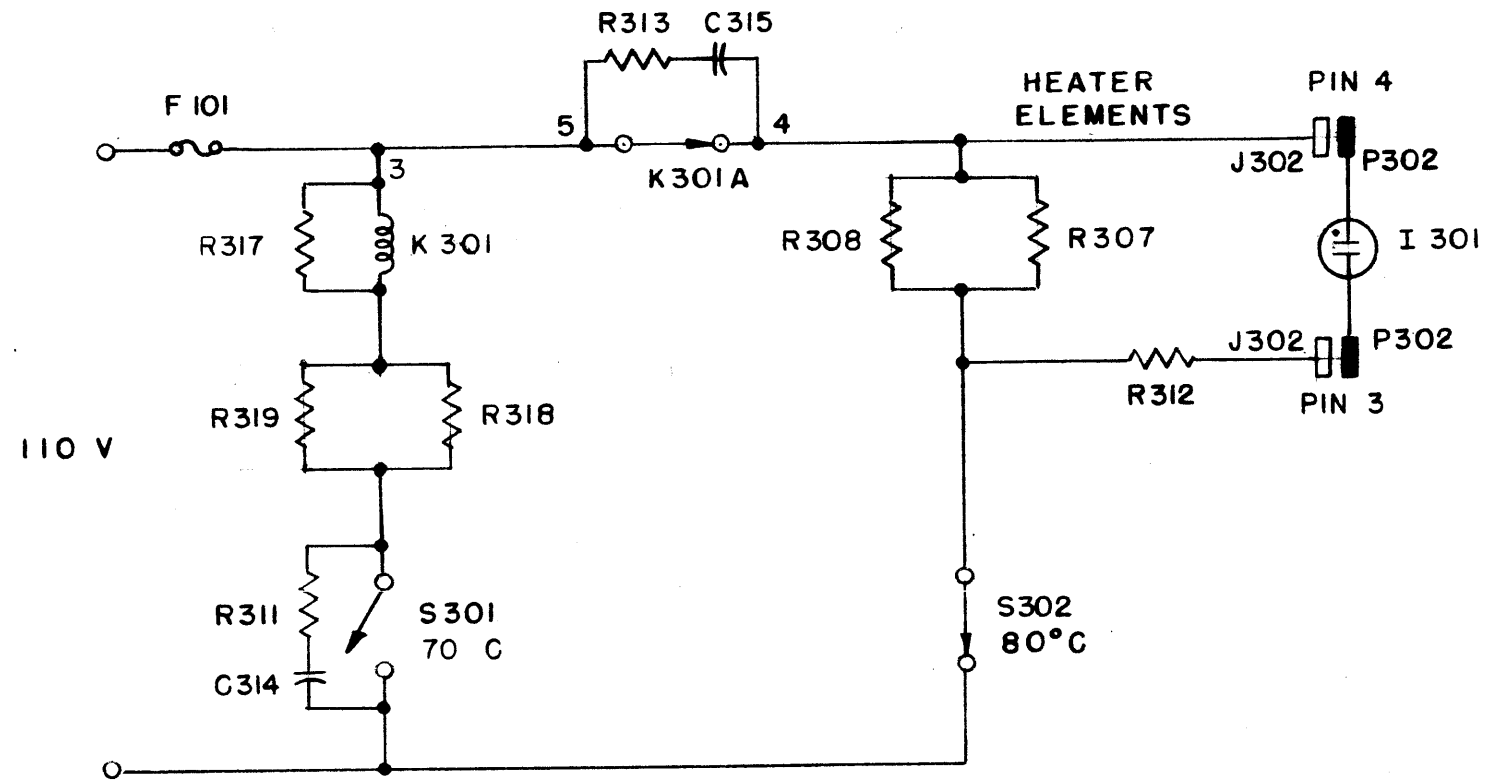
MODEL PROJECT NO. ASSY. NO. DATE

USED ON

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-110



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Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP.	
		MAMARONECK. NEW YORK	
		THERMOSTAT SWITCH	
		CIRCUIT	
TYPE & TEMPER		JAD 9-17-52	PPM
DRAWN		ELEC. DES. APP.	MECH. DES. APP.
HEAT TREAT. SPEC.		DRD 9-25-52	
CHECKED		FINAL APPROVAL	
FINI H & PEC. NO.		CK-110	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
								VOX-2			4-25-55
								VOX-1			4-25-55
								VOX	101		9-17-52
USED ON											

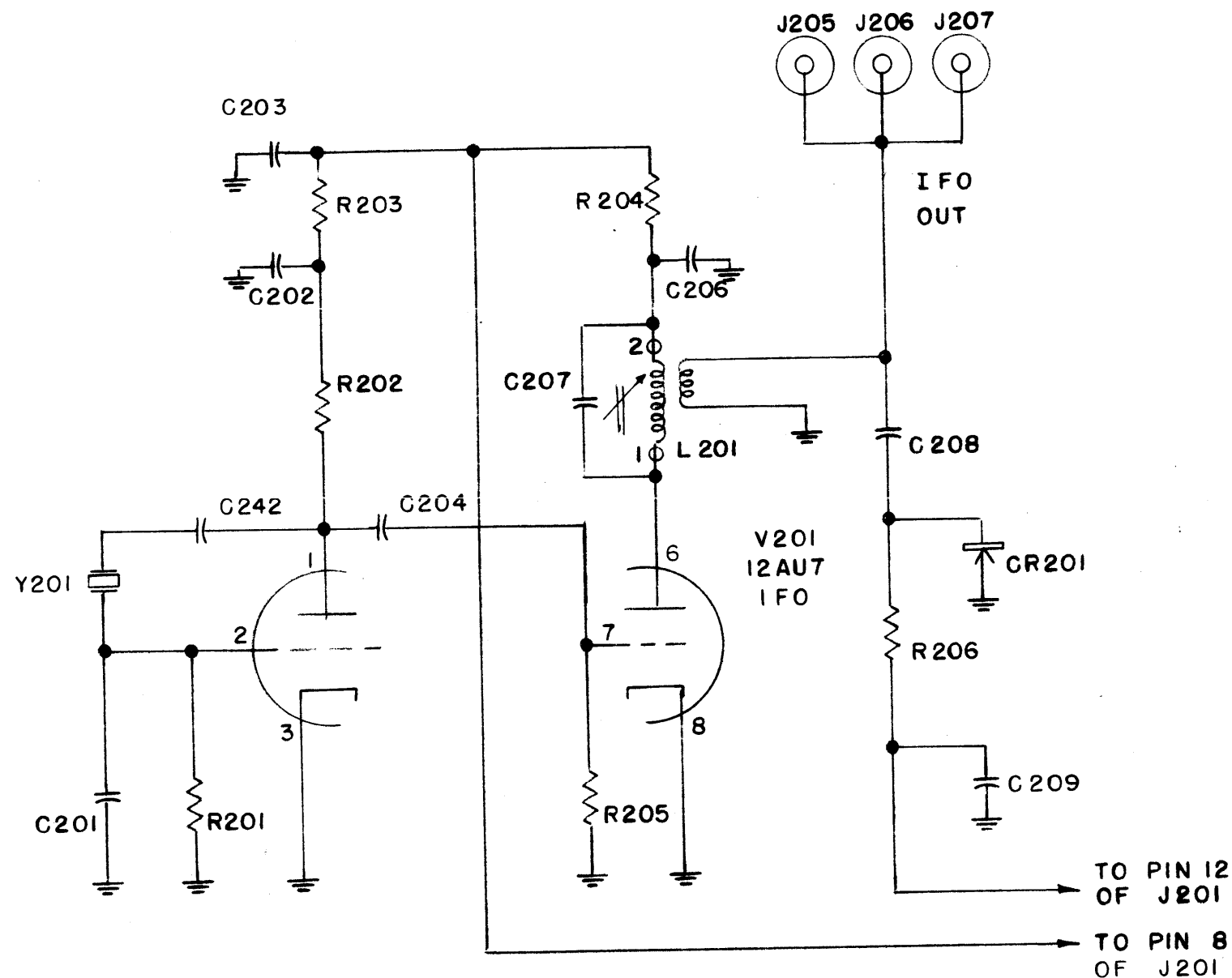
TOLERANCES
ALL OTHERS
DEC. DIM. ±
FRAC. DIM. ±
ANGULAR DIM. ±

SCALE:
DRILL, PUNCH, COMMERCIAL STOCK
SIZES AND MANUFACTURERS
TOLERANCES ARE NOT INCLUDED.

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-115



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Property of:

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP.	
		MAMARONECK, NEW YORK	
		I FO CIRCUIT	
STOCK SIZE			
MATERIAL		WEIGHT PER PC.	
TYPE & TEMPER			
HEAT TREAT. SPEC.			
FINISH & SPEC. NO.			
		DRAWN: JAD 10-7-52 ELEC. DES. APP. [Signature] MECH. DES. APP. [Signature]	
		CHECKED: ORS 10-9-52 FINAL APPROVAL	
		CK-115	

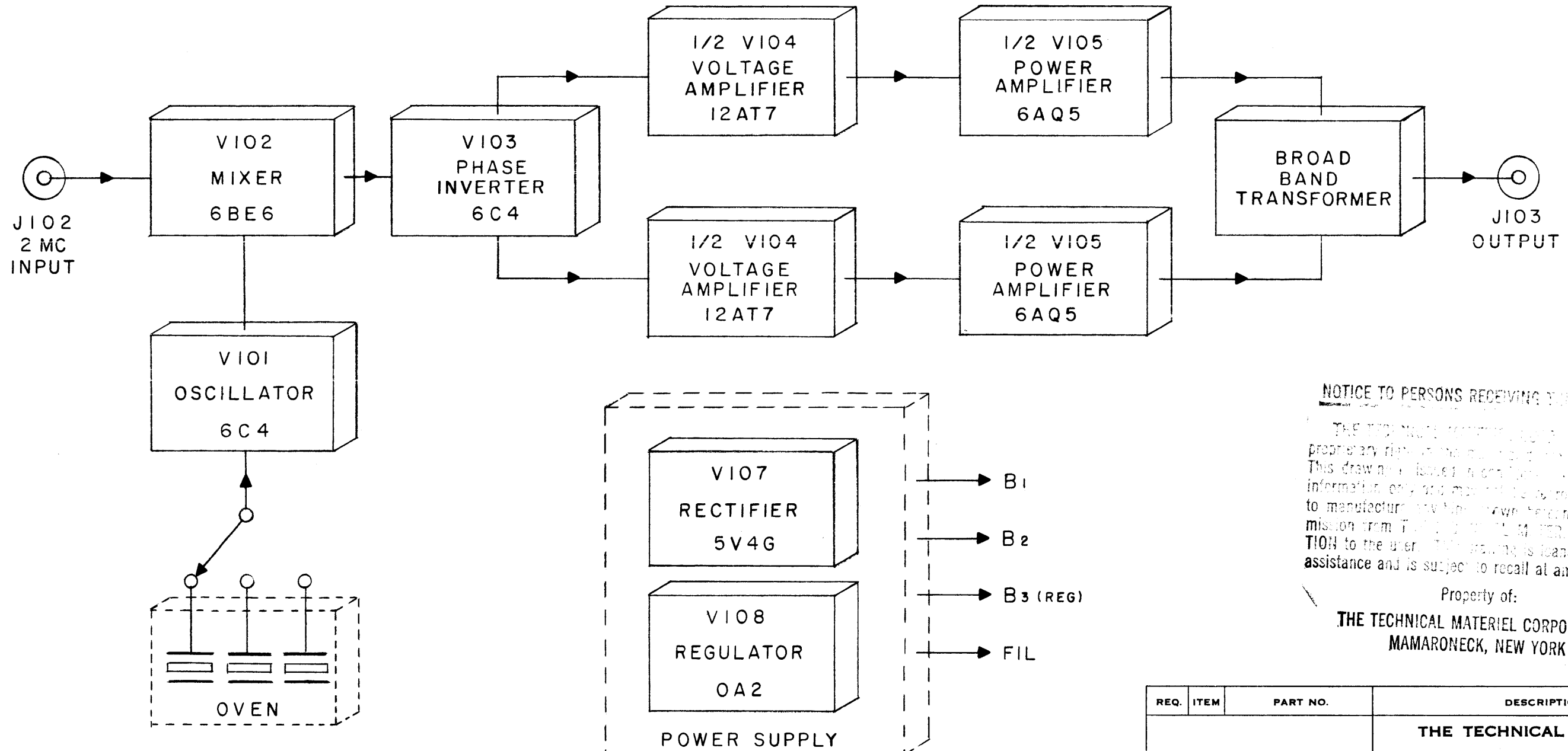
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
SCALE:							
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.							
ALL OTHERS							
DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±							

VOX			10-7-52
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-116
A



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THE TECHNICAL MATERIEL CORPORATION
 MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			FUNCTIONAL BLOCK DIAGRAM	
			MODEL LFA	
			CDD 4-14-55	M.H.S.
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
			HEAT TREAT. SPEC.	A.J.J.
			CHECKED	FINAL APPROVAL
				CK-116 A
			FINISH & SPEC. NO.	

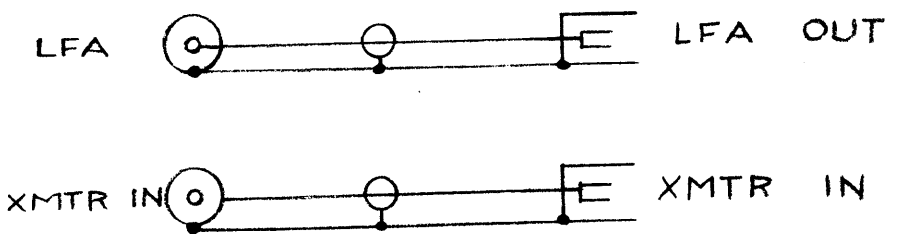
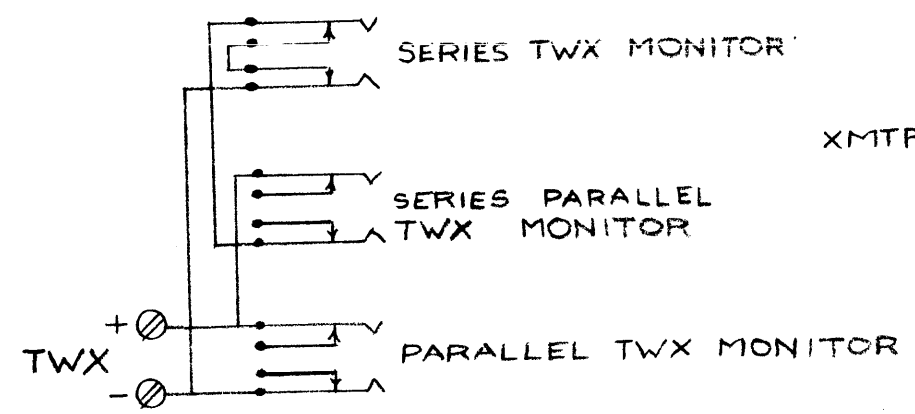
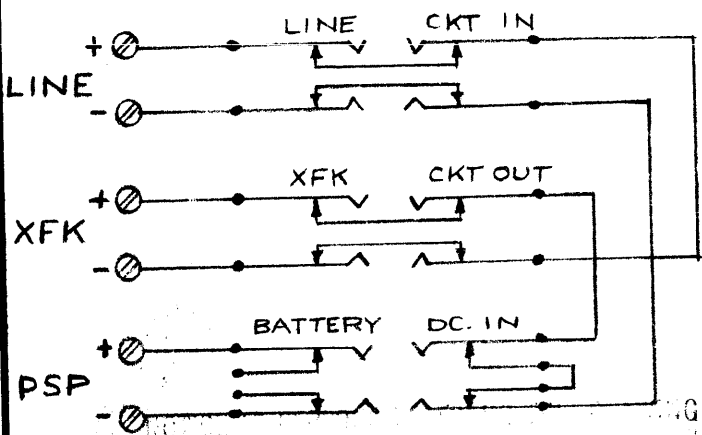
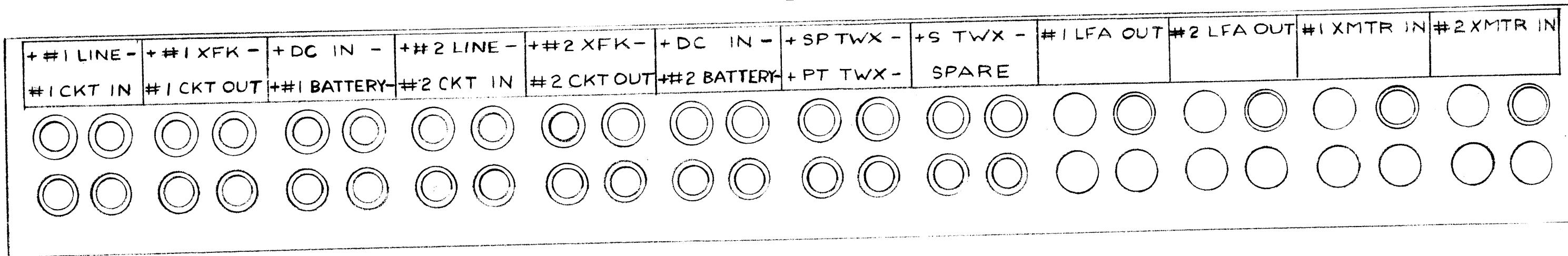
A	1	REDRAWN W/CHANGES	4-14-55	1	CDD	JAG	A.J.J.
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:					
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					
REQ. PER UNIT	LFA	MODEL	PROJECT NO.	ASS'Y. NO.	DATE	USED ON	

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

RELEASED

CK-118



TWX MONITOR PATCH
 SERIES TWX: PATCH "LINE" TO "S TWX" AND "CKT IN" TO "S-P TWX."
 PARALLEL TWX: PATCH "LINE" TO "PTWX" AND "CKT.IN" TO "S-P TWX."

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 MAMARONECK, NEW YORK

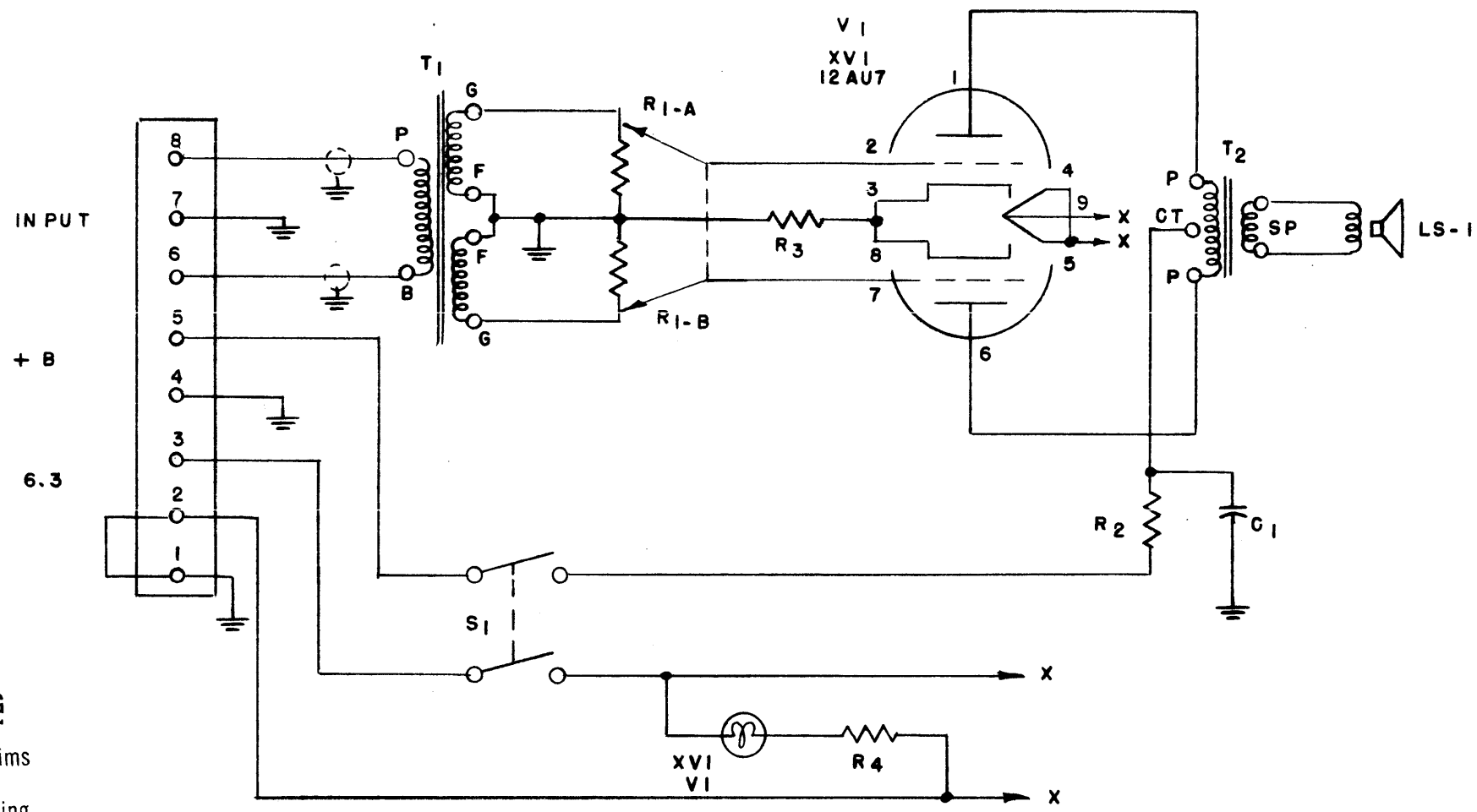
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			JACK PANEL CIRCUIT	
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER			16 11-13-52	<i>[Signature]</i>
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
HEAT TREAT. SPEC.			11/13/52	<i>[Signature]</i>
			CHECKED	FINAL APPROVAL
FINISH & SPEC. NO.			CK-118	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
ALL OTHERS		DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±		SCALE:			
EPP		162		A-253		10-29-52	
MODEL		PROJECT NO.		ASS'Y. NO.		DATE	
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.							
USED ON							

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-148



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Property of:

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			LOUDSPEAKER & BRIDGING	
			AMPLIFIER	
STOCK SIZE				
MATERIAL			WEIGHT PER PC.	
TYPE & TEMPER				
HEAT TREAT. SPEC.				
FINISH & SPEC. NO.				
			DRAWN: <i>JAD</i>	
			ELEC. DES. APP.:	
			MECH. DES. APP.:	
			CHECKED: <i>C.D.S.</i>	
			FINAL APPROVAL: <i>[Signature]</i>	
			CK-148	

Redrawn - No Revision	7/17/53	1	JAD	C.D.S.	PJT		
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

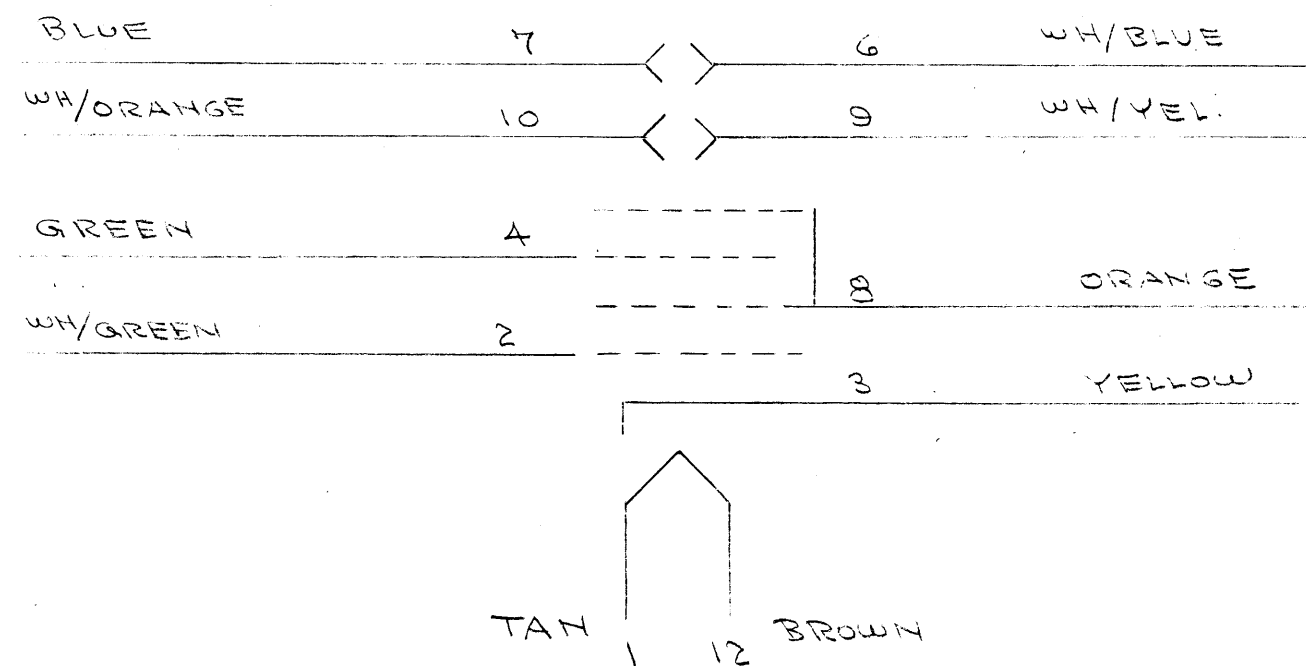
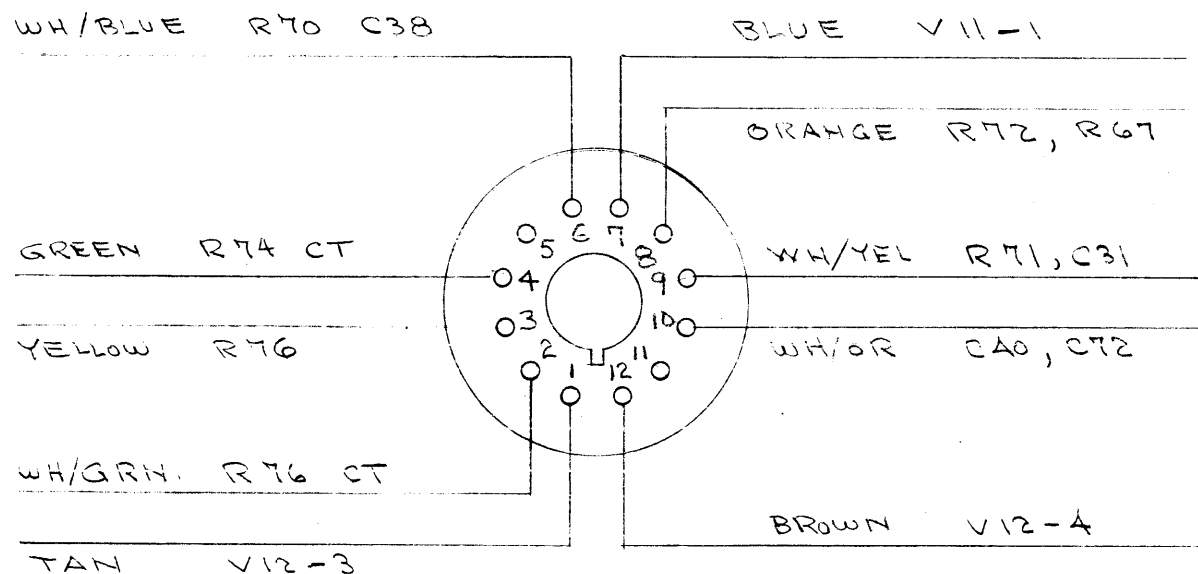
TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± AN ULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

LSP			7-17-53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-151



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MAMARONECK, NEW YORK

NOTE: CHECK BLUE LEADS FOR CONTINUITY.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			V 12 MODEL CFA	
		STOCK SIZE		
		MATERIAL	WEIGHT PER PC.	
		TYPE & TEMPER	COD 81-X15	
		HEAT TREAT. SPEC.	DRAWN [Signature] ELEC. DES. APP. [Signature] MECH. DES. APP. [Signature]	
		FINISH & SPEC. NO.	CHECKED [Signature] FINAL APPROVAL [Signature]	
			CK-151	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
		REDRAWN					
		TOLERANCES		SCALE:			
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE	USED ON		

NOTE TO PURCHASER REVIEWING THIS DRAWING

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

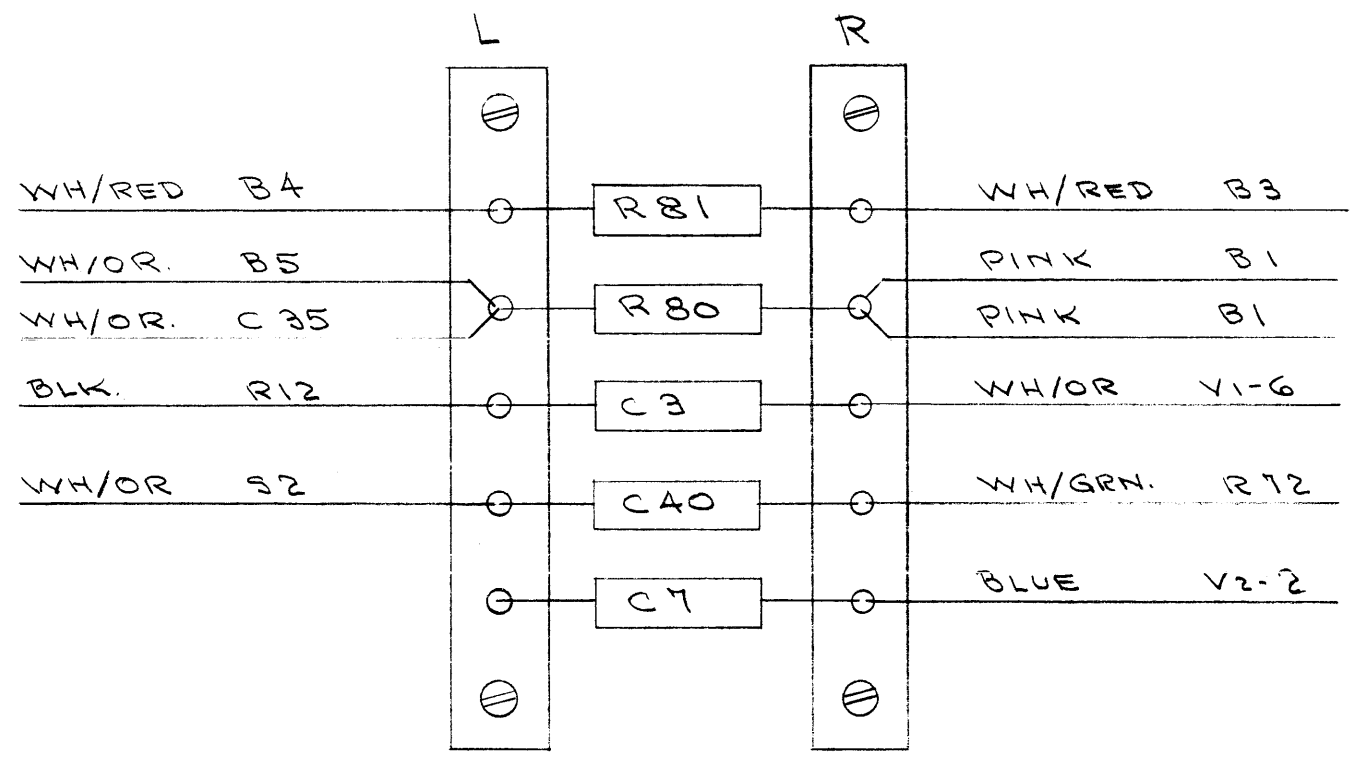
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

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MAMARONECK, NEW YORK

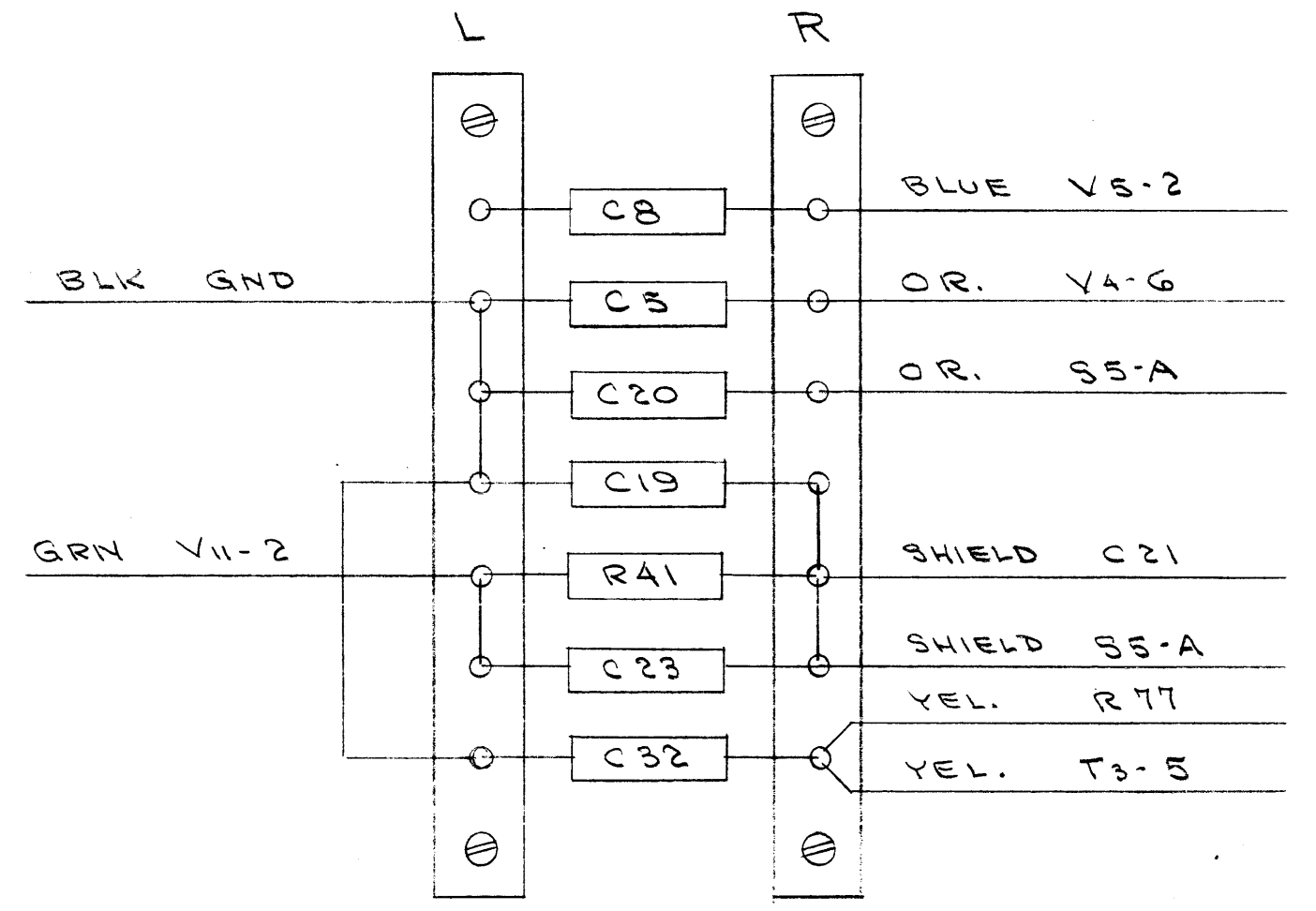
CK-152

TB-5



No.	FROM	TO	COLOR	LENGTH	STRIP
A1	R-C3	V1-6	WH/OR	4 1/2	1/2
A2	R-C7	V2-2	BLUE	5	1/2

TB 6



No	FROM	TO	COLOR	LENGTH	STRIP
A3	RC-8	V5-2	BLUE	5 3/4	1/2
A4	RC-5	V4-6	WH/OR		1/2

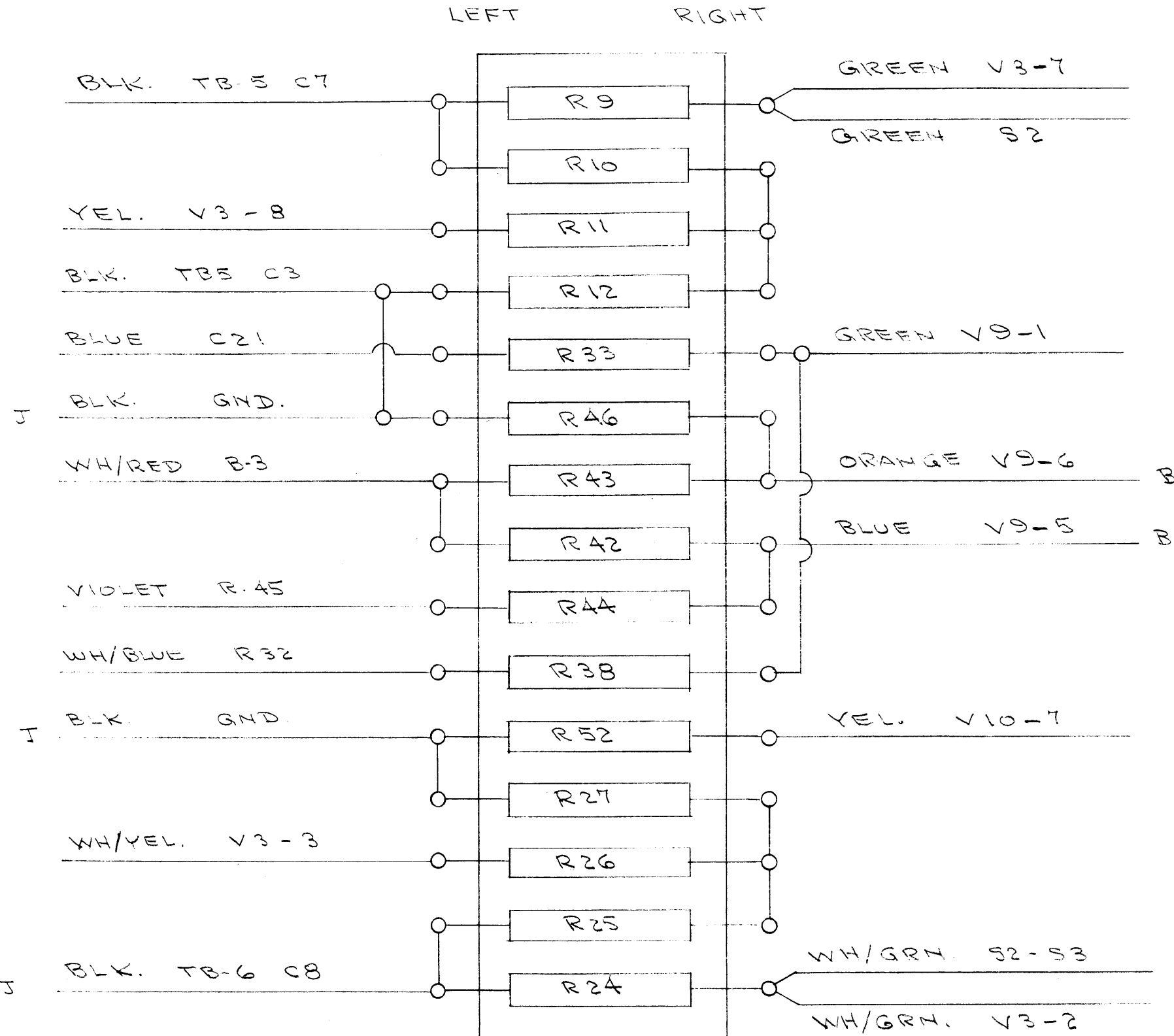
#	#	REDDRAWN - NO CHANGE	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	CFA			11-30-54

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			WIRING DIAGRAM TB-5 & 6	
			CFA	
			CDD 11/30/54	
			DRAWN	ELEC. DES. APP.
			CHECKED	FINAL APPROVAL
				CK-152

CR-153



No.	FROM	TO	COLOR	LENGTH	STRIP
26	R-R-33	V9-1	GREEN	2 3/4	1/2
27	R-R-46	V9-6	ORANGE		"
28	R-R-44	V9-5	BLUE		"
29	R-R-52	V10-7	YELLOW	3 1/2	"
30	L-R-46	V9 GND	BLACK	3 3/4	"
31	L-R-52	V9 "	"	3 3/4	"
46	L-R-27	L-C-5	"	4 1/4	"

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 MAMARONECK, NEW YORK

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
		REDRAWN	8-22-58			FAO	

TOLERANCES: DEC. DIM. ±, FRAC. DIM. ±, ANGULAR DIM. ±

SCALE: MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

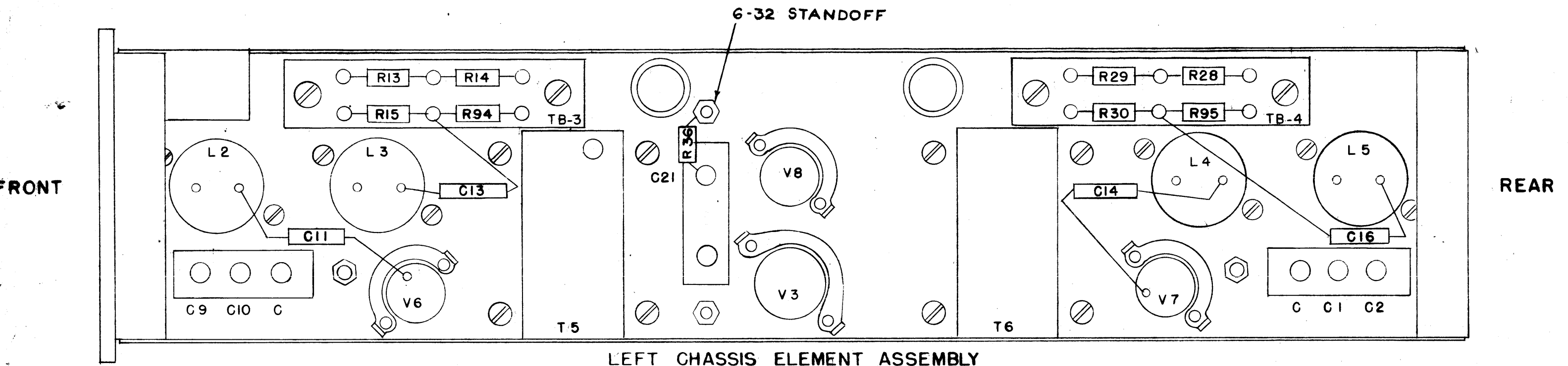
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	CFA			8/22/58

USED ON

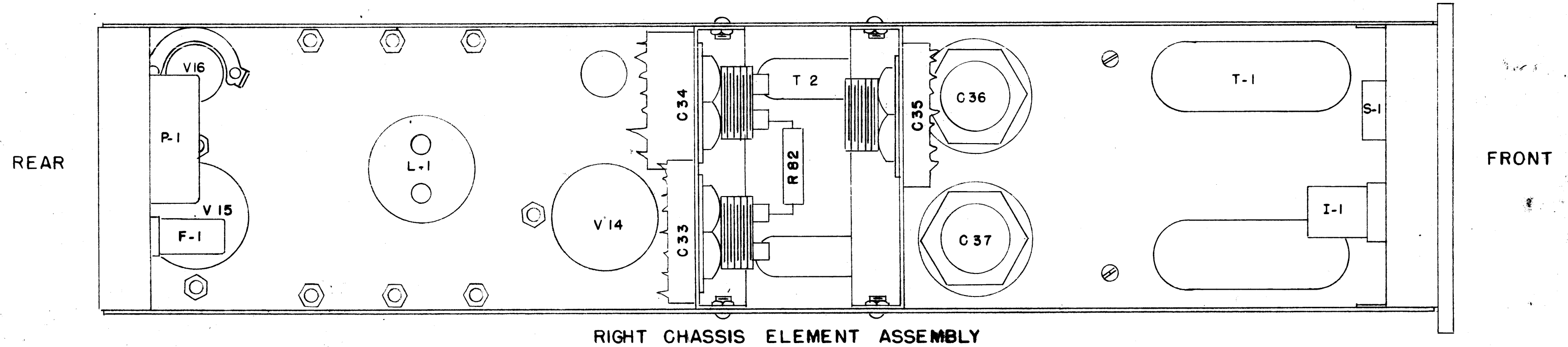
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE			
WIRING DIAGRAM TB-7			
MATERIAL			
CFA			
TYPE & TEMPER		HEAT TREAT. SPEC.	
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.

Drawn: FAO, Checked: WJ, Final Approval: WJ

Part No: CK-153



LEFT CHASSIS ELEMENT ASSEMBLY



RIGHT CHASSIS ELEMENT ASSEMBLY

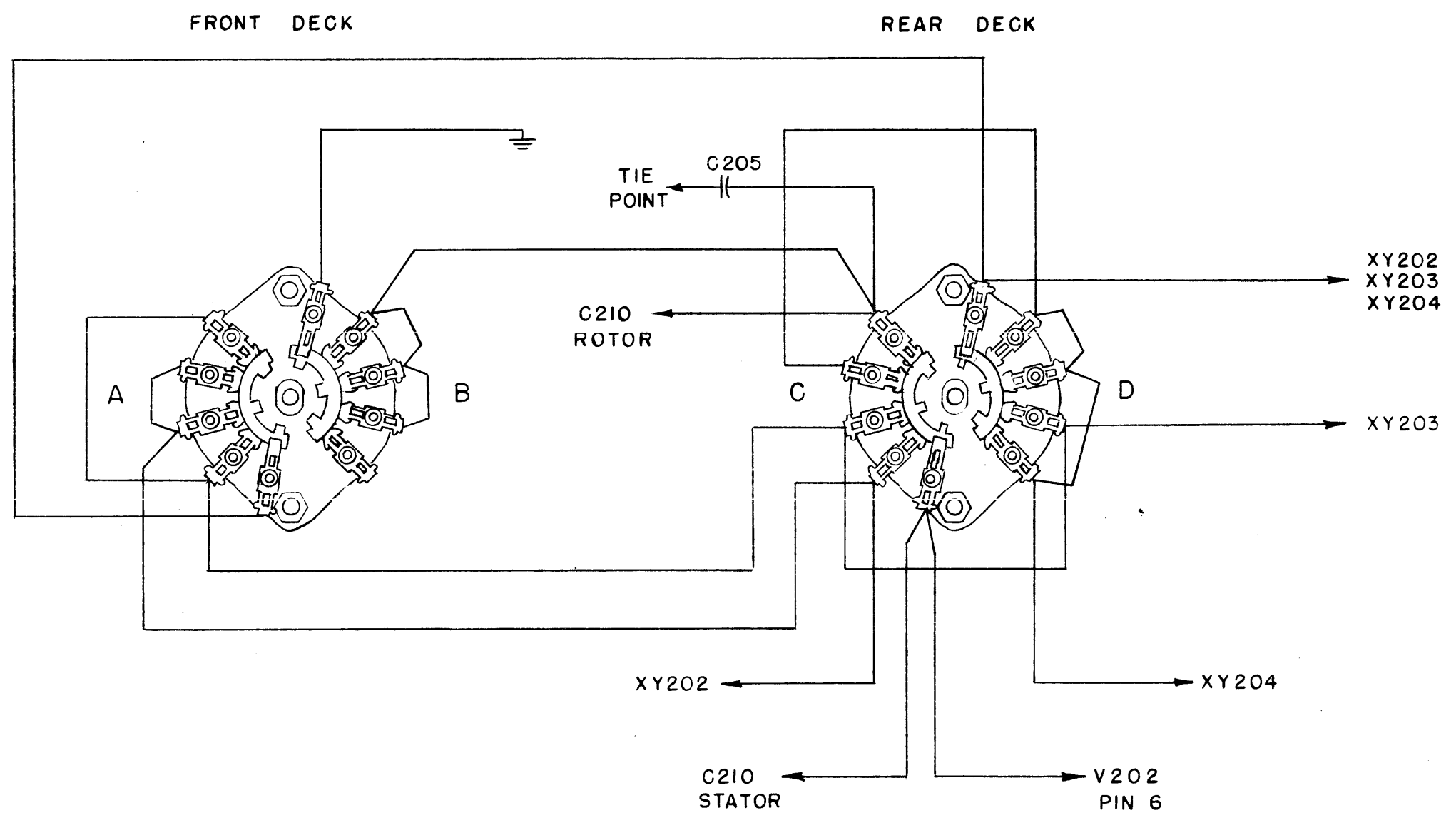
SUPERCEDES BMS 060A

COMONENT LAYOUT LEFT & RIGHT VIEWS MODEL CFA	
THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK	
DATE 12-13-51	CHKD. <i>[Signature]</i>
DRAWN <i>[Signature]</i>	APPD. <i>[Signature]</i>
SHEET OF	NO <i>[Signature]</i>

MOVED R-36	9-17-52	<i>[Signature]</i>
CHANGED TO	DATE	APPR'D.

Replacing BMS039-12-13-51

REAR VIEW



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MAMARONECK, NEW YORK

SUPERCEDES
BEW 005

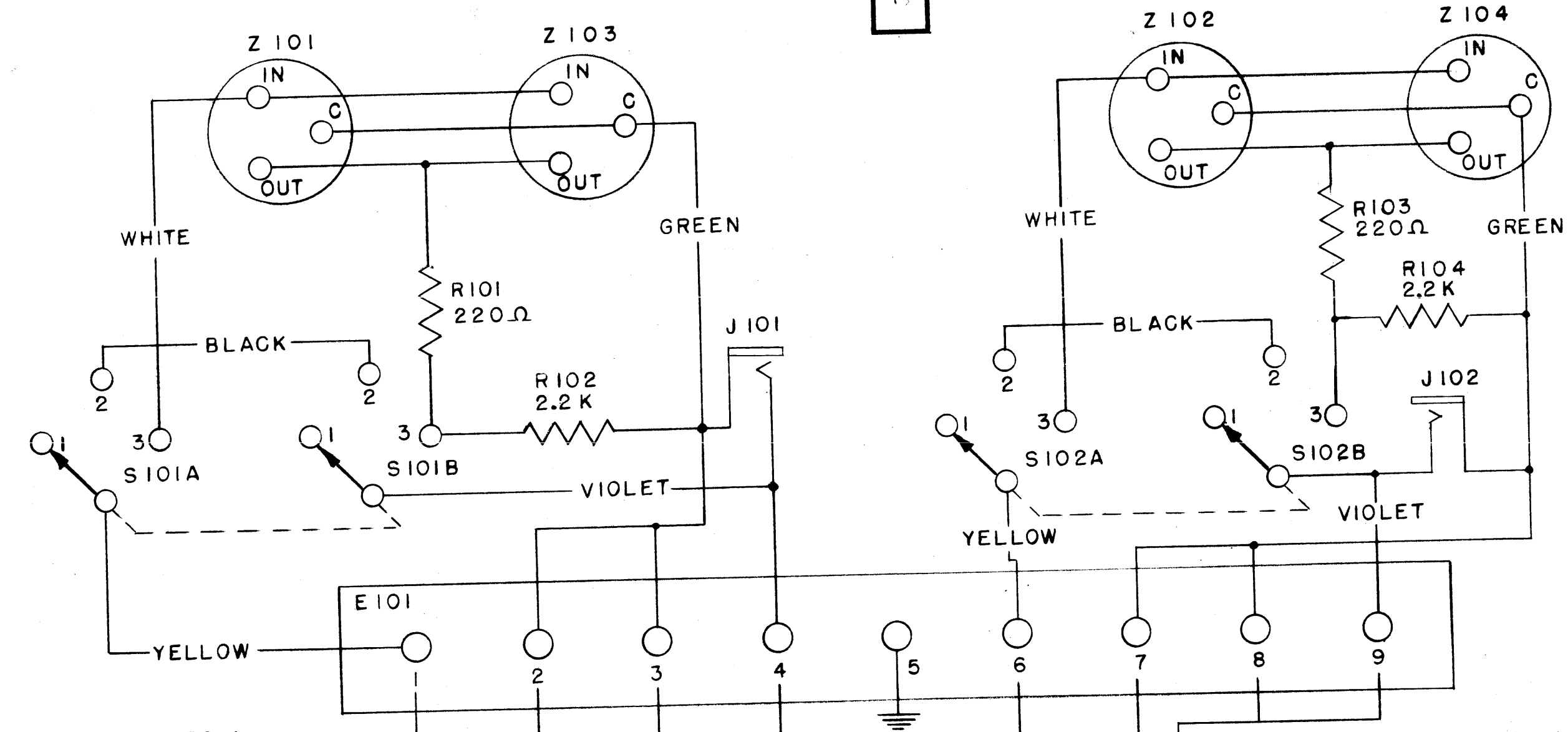
S 201	
MODEL VOX	
THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK	
DATE 4-4-52	CHKD. A. J. J.
DRAWN <i>J.H.C.</i>	APPD. A. J. J.
SHEET OF	NO CK-160

IF IT IS FOUN DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CKKI 65

SWITCH POSITIONS
 1 PANEL OUT
 2 FILTER OUT
 3 FILTER IN



AUDIO OUT REC. 1 ←
 CFA IN CHANNEL 1 ←
 AUDIO OUT REC. 2 ←
 CFA IN CHANNEL 2 ←

THIS DIAGRAM FOR SERIAL NO'S 5 AND UP

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		STOCK SIZE		
			WIRING DIAGRAM	
		MATERIAL		
			CDD	A.J.J.
		TYPE & TEMPER	DRAWN	ELEC. APP.
			M.H.S.	
		HEAT TREAT. SPEC.	CHECKED	FINAL APPROV.
		FINISH & SPEC. NO.		

B	ADD 'SFP-3 IN' MODEL	1-25-67	CC	RME	<i>[Signature]</i>	<i>[Signature]</i>	
A	J101 CONTACT FROM Z103 REWIRED AS J102 FROM Z104	3-8-63	8476	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE:				
ALL OTHERS DEC. DIM. ± FRAC. DIM. ± AN ULAR DIM. ±			DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				

SFP-3	121	A449-2	1/25/67
SFP-2		A449	4-16-53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE

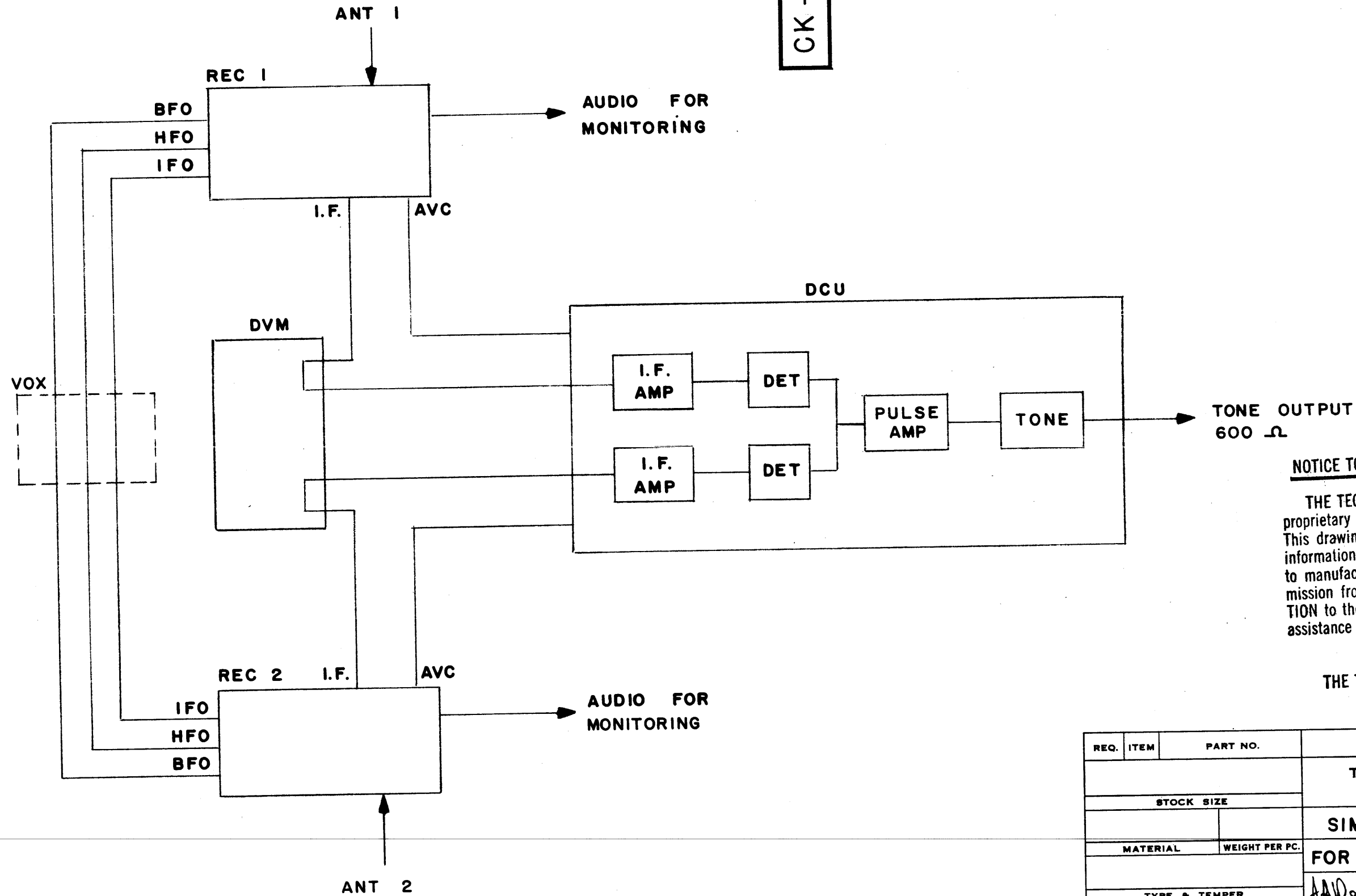
USED ON

CKKI 65 B

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-170



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Property of:

THE TECHNICAL MATERIEL CORPORATION,
MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK. NEW YORK	
			SIMPLIFIED BLOCK DIAGRAM	
			FOR CW — MCW OPERATION	
			<i>JAW</i>	<i>ARB</i>
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
			CHECKED	FINAL APPROVAL
				CK-170

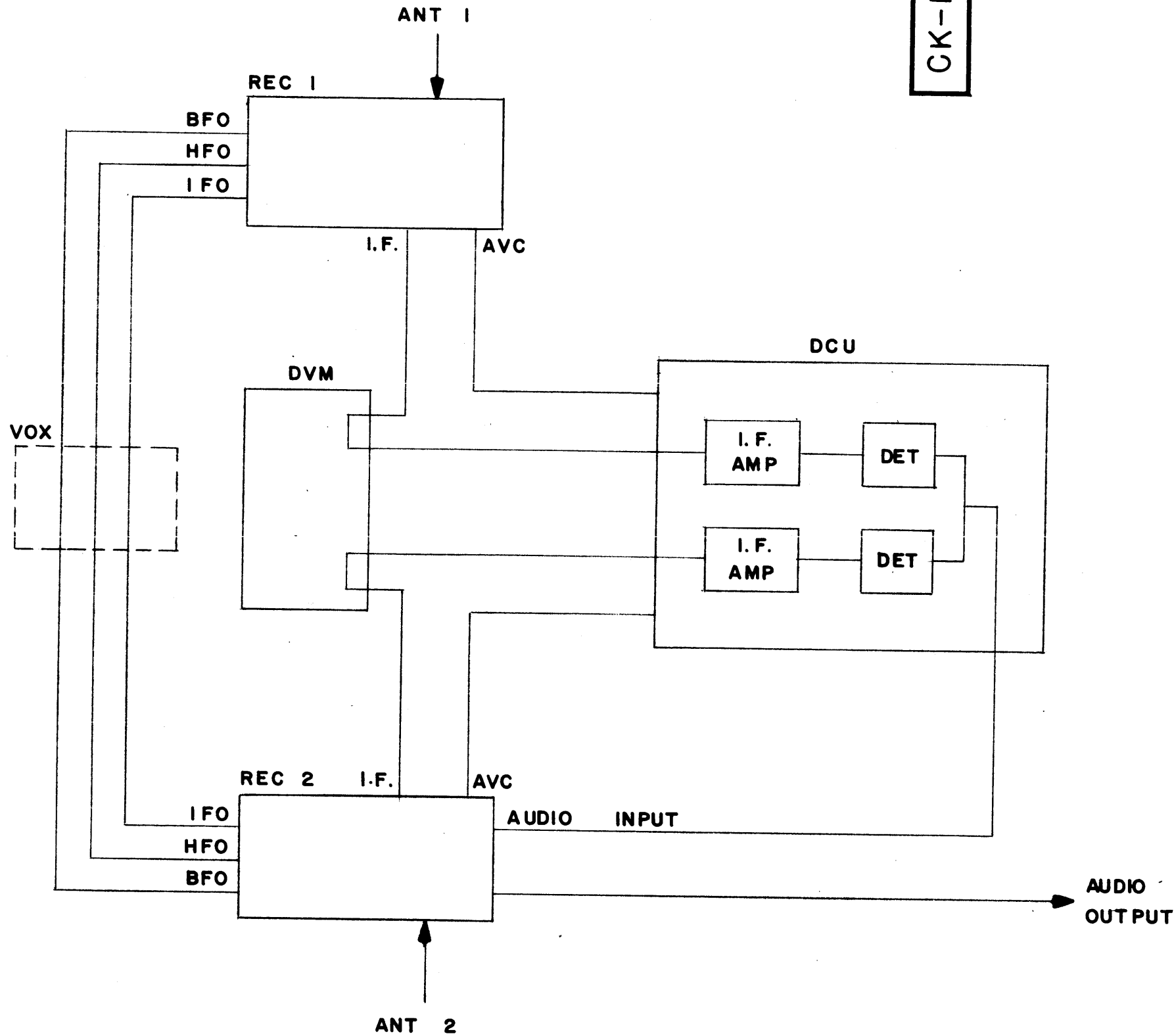
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
		TOLERANCES	SCALE:				
ALL OTHERS		DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				

MODEL	PROJECT NO.	ASSY. NO.	DATE
DDR-2D			6-8-53
USED ON			

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-171



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MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			SIMPLIFIED BLOCK DIAGRAM	
			FOR RADIO TELEPHONE & BROADCAST	
			<i>JAD</i>	<i>ARB</i>
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
			CHECKED	FINAL APPROVAL
				CK-171

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
ALL OTHERS				SCALE:			
DEC. DIM. ±				DRILL, PUNCH, COMMERCIAL STOCK			
FRAC. DIM. ±				SIZES AND MANUFACTURERS			
ANGULAR DIM. ±				TOLERANCES ARE NOT INCLUDED.			

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
DDR-2D			6-8-53

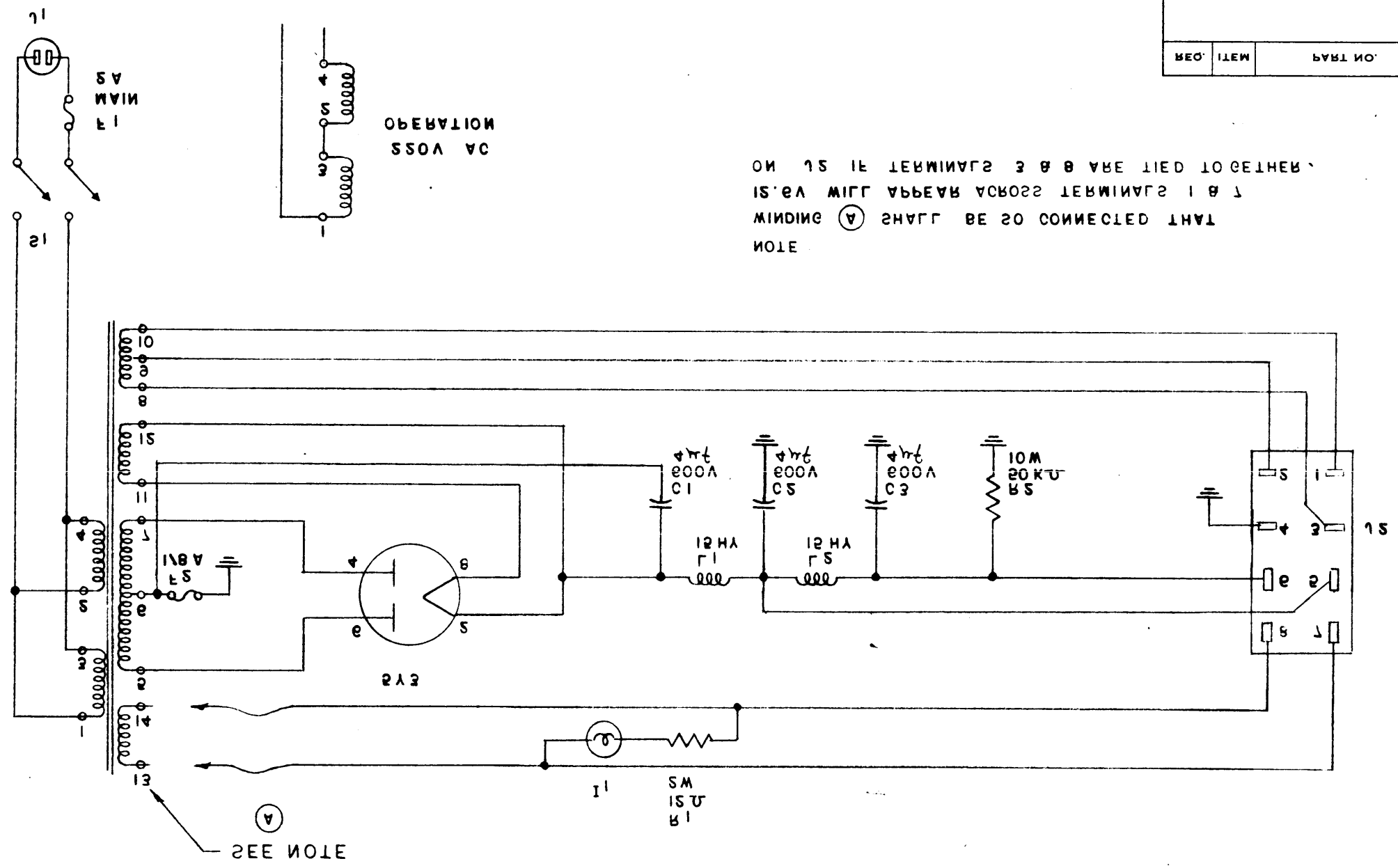
USED ON

OTHERS ALL	ANGULAR DIM: ±	TOLERANCES ARE NOT INCLUDED SIZES AND MANUFACTURERS DRUG, BRUSH, COMMERCIAL STOCK
	FRAC. DIM: ±	
	DEC. DIM: ±	

USED ON			
MODEL	PROJECT NO.	ASSY. NO.	DATE
K26-5	110	A-830	2-15-27

FINISH & SPEC. NO.		K26-1		CK-154		C	
CHECKED		H.I.I.		K.S.		H.I.I.	
DRAWN		H.I.I.		E.G.C. DES. V.P.P.		MECH. DES. V.P.P.	
TYPE & TEMPER		A-12-23		H.I.I.			
MATERIAL		WEIGHT PER PC.		REMOTE SYSTEM POWER SUPPLY			
BLOCK SIZE		SCHEMATIC DIAGRAM					
		MANHATTAN NEW YORK					
		THE TECHNICAL MATERIAL CORP.					
REC.	ITEM	PART NO.		DESCRIPTION		SYMBOL	

TOLERANCES		SCALE: $\frac{1}{16}$				
ISSUE	ITEM	CHANGED FROM	DATE	BY	CHECKED	ENG. V.P.P.
A	1	23 DELETED	10/23	1	C.D.P.	H.I.I.
	5	2, 5 + 2, 3 CHANGED				
B	1	HOLE ADDED	2/15/27	1	H.I.I.	H.I.I.
C	1	C1 GROUND RELOCATED	2/15/27	3	H.I.I.	H.I.I.



NOTE: ON 15 IF TERMINALS 3 & 8 ARE TIED TOGETHER, 1 & 2 WILL APPEAR ACROSS TERMINALS 1 & 2 WINDING (A) SHALL BE SO CONNECTED THAT

OPERATION
CA 110V

OPERATION
CA 110V

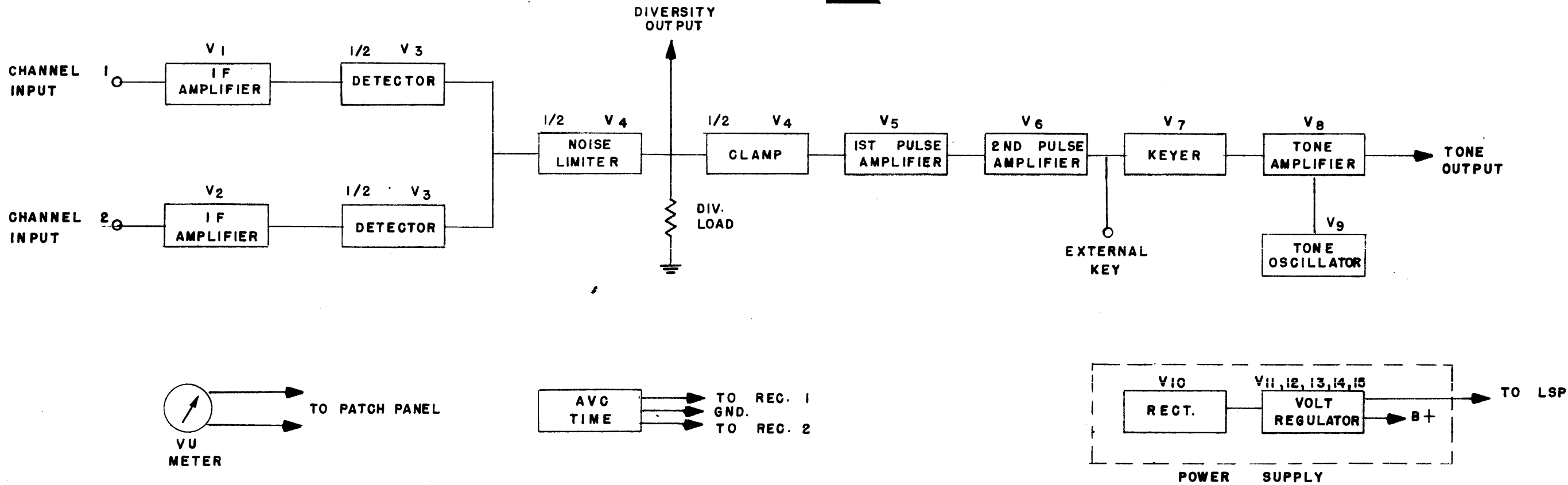
REMOVE ALL BURRS AND SHARP EDGES
MINOR AND DELAYED WILL BE CAUSE FOR REJECTION
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED
THE PURCHASER PROMPTLY
ON OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE

CK-154
C

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-176



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REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			BLOCK DIAGRAM	
STOCK SIZE				
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER				
HEAT TREAT. SPEC.				
FINISH & SPEC. NO.				
DRAWN			ELEC. DES. APP.	MECH. DES. APP.
CHECKED			FINAL APPROVAL	
			CK-176	

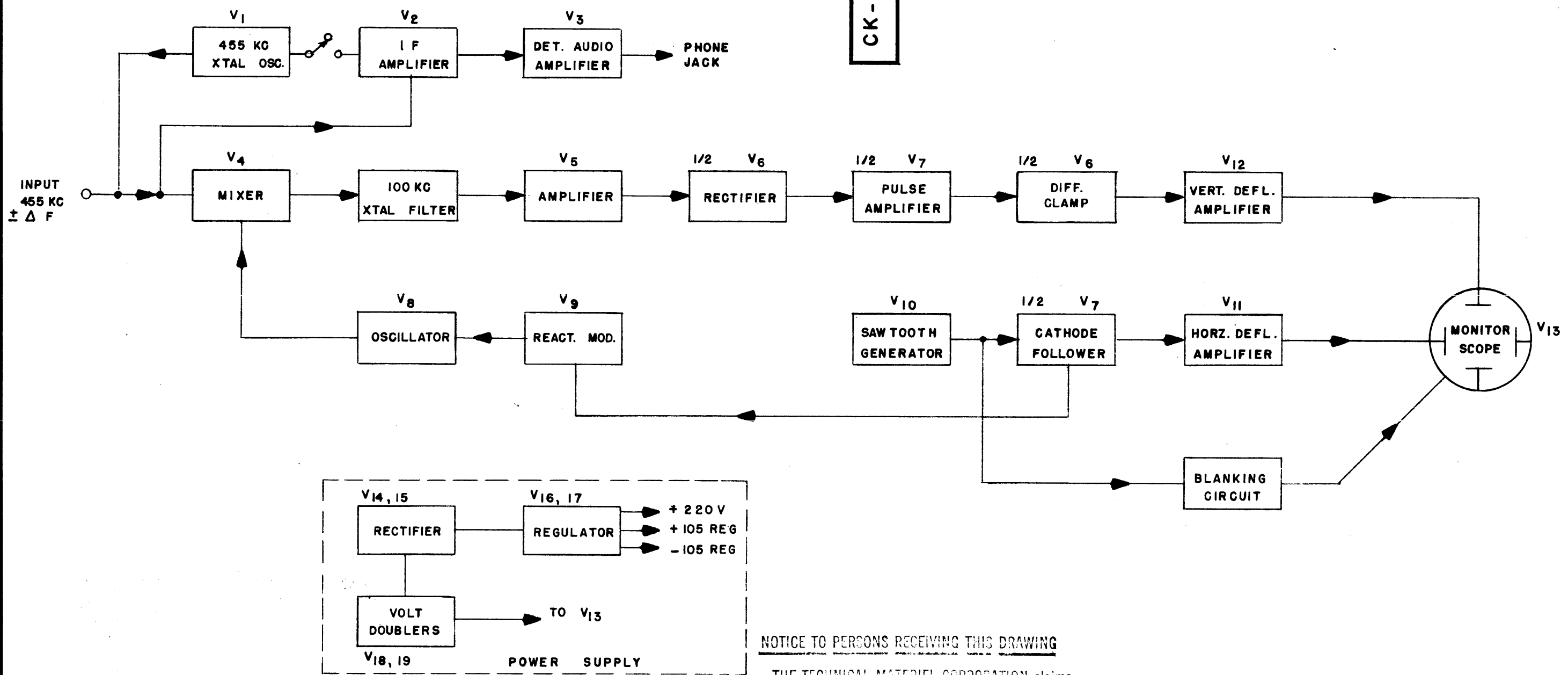
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
ALL OTHERS		DEC. DIM. ±	SCALE:		DRILL, PUNCH, COMMERCIAL STOCK		
		FRAC. DIM. ±			SIZES AND MANUFACTURERS		
		ANGULAR DIM. ±			TOLERANCES ARE NOT INCLUDED.		

DCU			6-16-53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-177



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REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			FUNCTIONAL BLOCK DIAGRAM	
STOCK SIZE				
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER				
HEAT TREAT. SPEC.				
FINISH & SPEC. NO.				
			DRAWN <i>JAD</i> 6-17-53 DRD 6-17-53 CHECKED FINAL APPROVAL <i>[Signature]</i>	
				CK-177

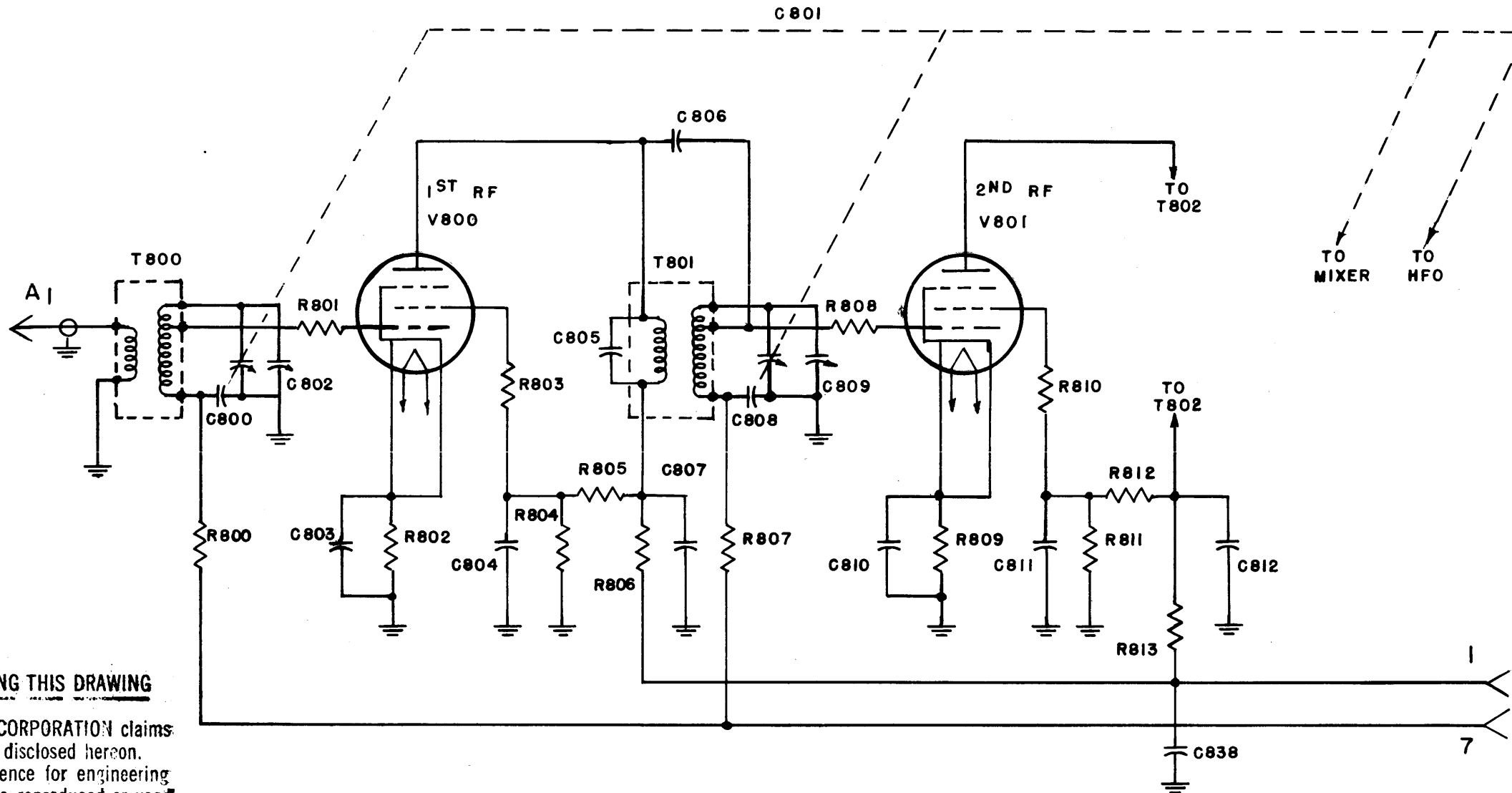
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
ALL OTHERS		DEC. DIM. ±	SCALE:				
		FRAC. DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK				
		ANGULAR DIM. ±	SIZES AND MANUFACTURERS				
			TOLERANCES ARE NOT INCLUDED.				

DVM			6-17-53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK - 183



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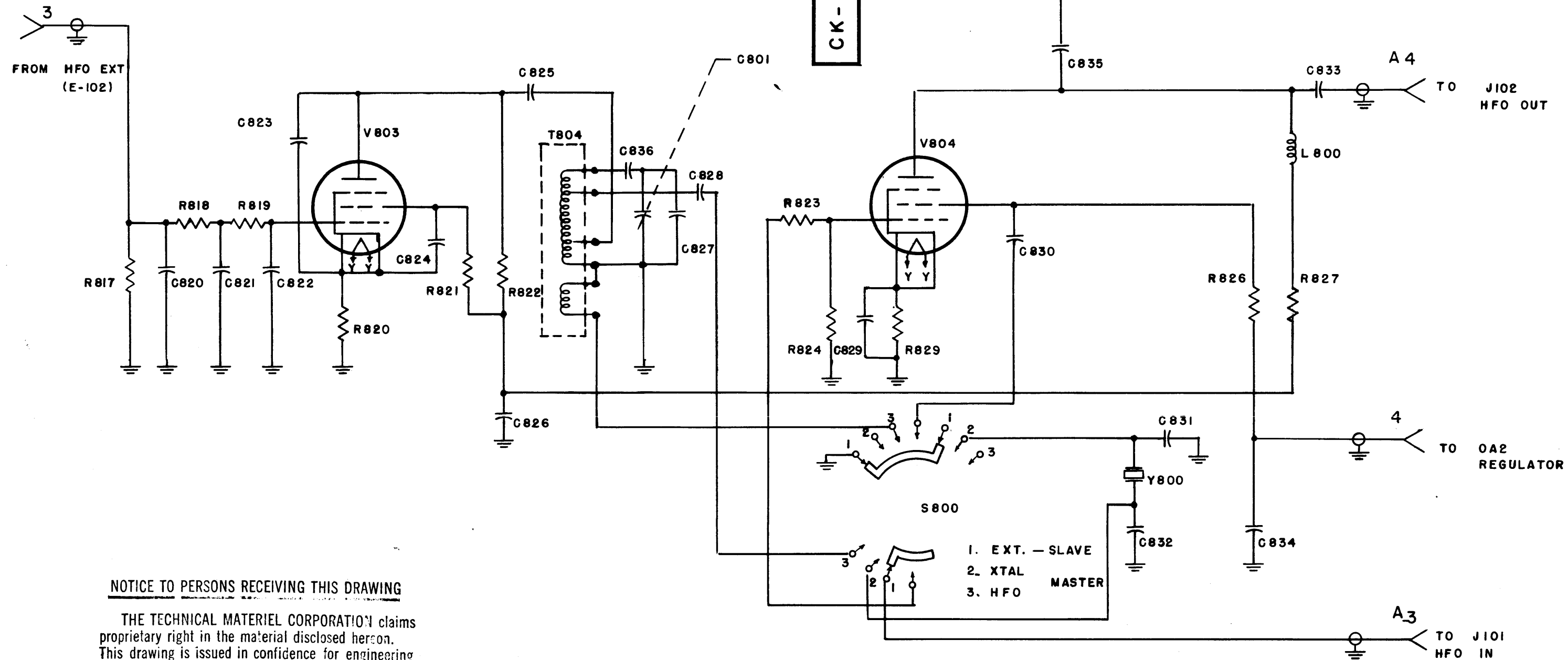
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			RF AMPLIFIER CIRCUIT	
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER			JAD 7/15/53	
HEAT TREAT. SPEC.			DRD 10-16-53 DRD 10-16-53	
FINISH & SPEC. NO.			ELEC. DES. APP. MECH. DES. APP.	
			CHECKED FINAL APPROVAL	
			CK-183	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
ALL OTHERS		DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±		SCALE:			
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				FFR			
MODEL		PROJECT NO.		ASS'Y. NO.		DATE	
USED ON							

FFR	7-15-53
MODEL	DATE

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES



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ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE:				
ALL OTHERS	DEC. DIM. ±	FRAC. DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				
		ANGULAR DIM. ±					

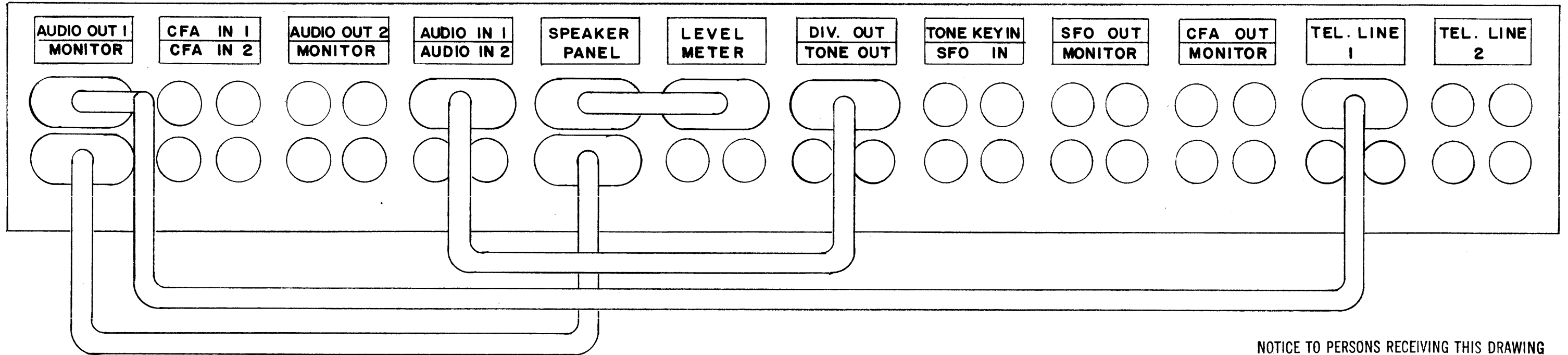
FFR	PROJECT NO.	ASS'Y. NO.	7-16-53
MODEL	DATE	USED ON	

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			HFO & REACTANCE	
MATERIAL			MODULATOR CIRCUIT	
WEIGHT PER PC.				
TYPE & TEMPER				
			DRAWN <i>JAD</i>	
			ELEC. DES. APP. <i>DRD 10-16-53</i>	
			MECH. DES. APP. <i>DRD 10-16-53</i>	
HEAT TREAT. SPEC.			CHECKED	
			FINAL APPROVAL	
FINISH & SPEC. NO.			CK-184	

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK - 186



DIVERSITY CONNECTION FOR PHONE OPERATION

THE AUDIO AMPLIFIER OF RECEIVER 1 IS USED HERE TO INCREASE THE AUDIO POWER IN THE RECEIVED DIVERSITY SIGNAL AND TO PROVIDE A LOW IMPEDANCE OUTPUT FOR COUPLING TO THE TELEPHONE LINE. THE SPEAKER PANEL AND LEVEL METER ARE BOTH MONITORING THE AUDIO INTO THE TELEPHONE LINE.

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Property of:-

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MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			PHONE PATCH CONNECTION	
STOCK SIZE				
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER				
			DRAWN <i>ARB</i>	
			ELEC. DES. APP. <i>ARB</i>	MECH. DES. APP. <i>ARB</i>
HEAT TREAT. SPEC.			CHECKED	FINAL APPROVAL
FINISH & SPEC. NO.				CK-186

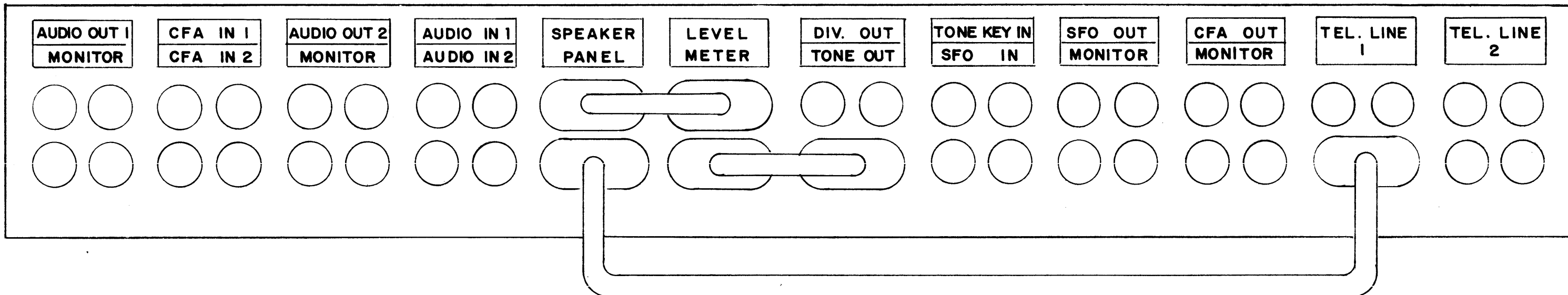
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:					
ALL OTHERS		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

LPP-1			7-20-53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-187



DIVERSITY CONNECTION FOR CW/MCW OPERATION

SINCE THE SYSTEM HAS BEEN NORMALIZED FOR THIS MODE OF OPERATION ONLY THE PATCHING TO THE TELEPHONE IS NECESSARY. THE SPEAKER PANEL AND LEVEL METER ARE SIMULTANEOUSLY USED FOR MONITORING THE TONE OUTPUT.

NOTICE TO PERSONS RECEIVING THIS DRAWING

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Property of:

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MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			CW/MCW PATCH CONNECTION	
STOCK SIZE				
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER				
HEAT TREAT. SPEC.				
FINISH & SPEC. NO.				

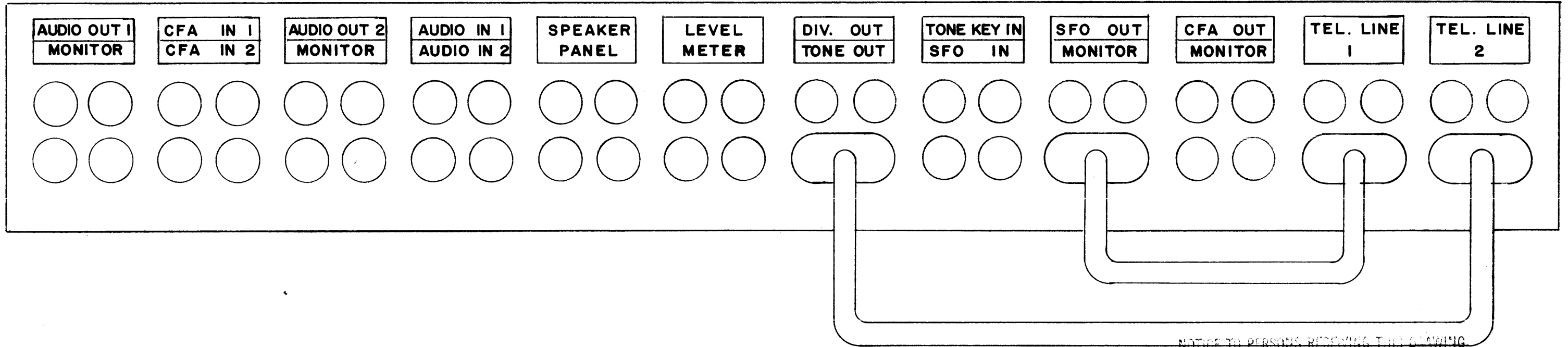
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:					
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

LPP-1	PROJECT NO.	ASS'Y. NO.	7-20-53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-188



DIVERSITY CONNECTION FOR F.S. OPERATION

THE SYSTEM IS NORMALIZED THROUGH FOR THIS TYPE OF OPERATION, ONLY THE PATCHING FROM THE SFO OUT TO TELEPHONE LINE 1 IS REQUIRED. A TONE SIGNAL MAY BE OBTAINED BY PATCHING TONE OUT TO TELEPHONE LINE 2 FOR DISTANT TRANSMISSION; SEE BLOCK DIAGRAM FOR MORE COMPLETE FUNCTIONAL EXPLANATION. (FIG. NO.)

FOR OPERATION WITHOUT SFO

PATCH "CFA OUT" TO "TELEPHONE LINE" AND "CFA MONITOR" TO "TONE KEY IN"

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Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE				
MATERIAL		WEIGHT PER PC.	F.S. PATCH CONNECTION	
TYPE & TEMPER			DATE 7-20-53	ARB
			DRAWN	ELEC. DES. APP.
			ARB	MECH. DES. APP.
HEAT TREAT. SPEC.			CHECKED	FINAL APPROVAL
			CK-188	
FINISH & SPEC. NO.				

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:					
ALL OTHERS		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

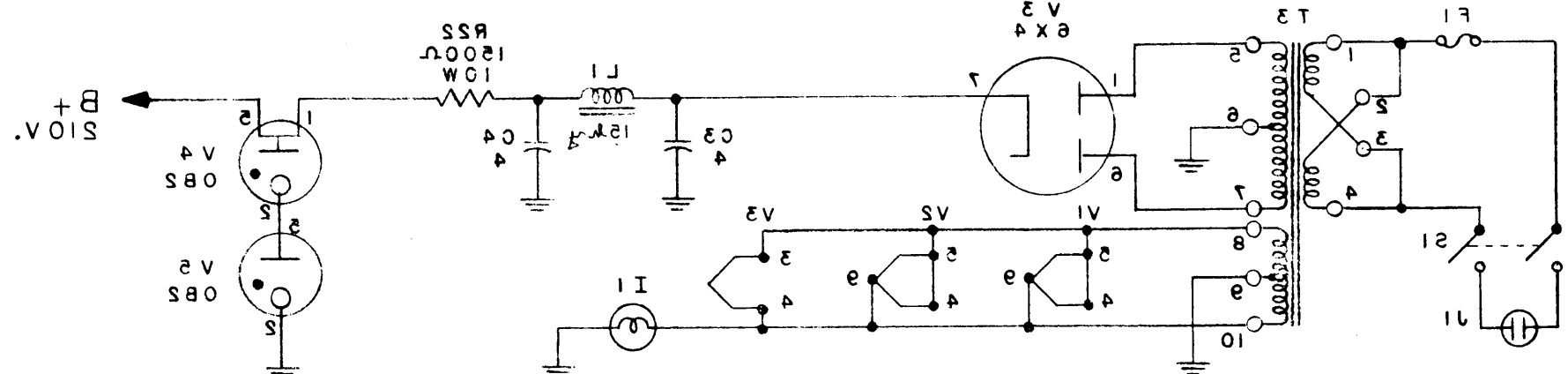
LPP-1	PROJECT NO.	ASS'Y. NO.	DATE
MODEL			7-20-53
USED ON			

OTHERS	ANGULAR DIM. ±	DEC. DIM. ±	FRACTIONAL DIM. ±	TOLERANCES ARE NOT INCLUDED.
DRILL PUNCH, COMMERCIAL STOCK				SCALE: 1" = 1"

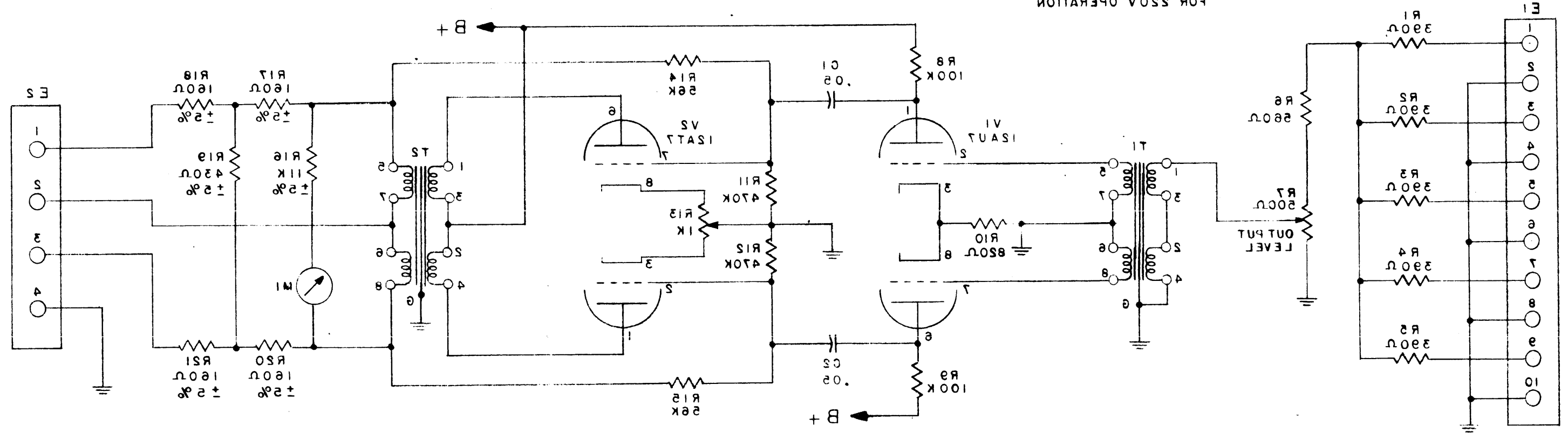
ISSUE ITEM	CHANGED FROM	DATE	CN. NO.	DRAWER	CHECKER	ENG. APPR.
A	R23 ADDED	8-17-54	1	CDD	NS	
B	R7 CHANGED	10/22/54	5	NS	NS	
C	R23 DELETED	11/15/54	3	NS	NS	

MODEL	R2M-S	PROJECT NO.	170	ASSY. NO.	A-242	DATE	9-17-54
USED ON							

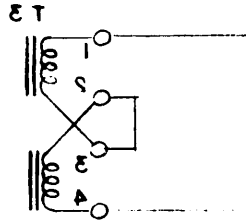
FINISH & SPEC. NO.	1	HEAT TREAT. SPEC.		CHECKER	NS	FINAL APPROVAL	CK-194
TYPE & TEMPER.		C.D.D.	NS	DRAWN	NS		
MATERIAL		WEIGHT PER PC.		SCHEMATIC DIAGRAM			
STOCK SIZE		MAMARONECK, NEW YORK					
REQ. ITEM		THE TECHNICAL MATERIEL CORP.					
DESCRIPTION		R2M-S					
SYMBOL							



ALL CAPACITORS ARE IN µf
 ALL RESISTORS ARE 1/2 W. ±10%
 UNLESS OTHERWISE SPECIFIED



FOR 250V OPERATION



REMOVE ALL BURRS AND SHARP EDGES
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION.
 IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

CK-194

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

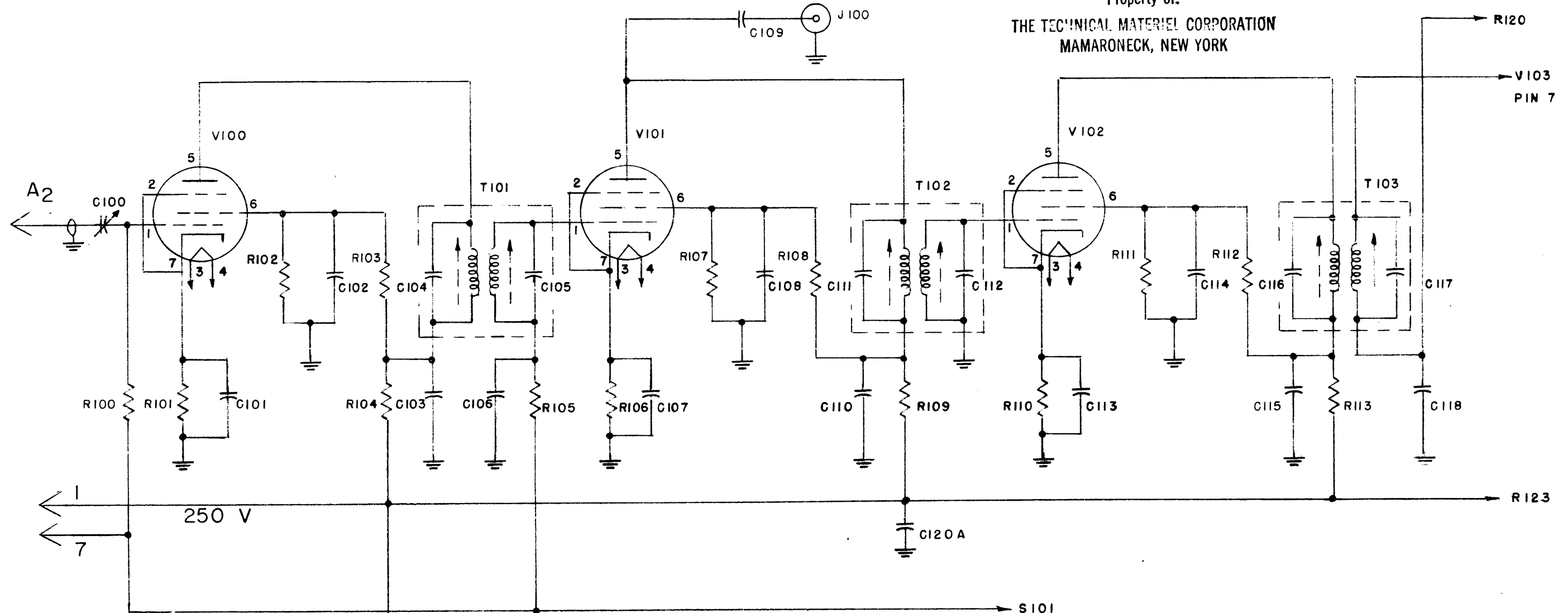
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

CK-197

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22

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			IF AMPLIFIER CIRCUIT	
			FIG 4-5	
			<i>f.a.d.</i>	
			DRAWN	
			ELEC. DES. APP.	
			MECH. DES. APP.	
			DRD 10-16-53	
			DRD 10-16-53	
			CHECKED	
			FINAL APPROVAL	
			CK-197	
			FINISH & SPEC. NO.	

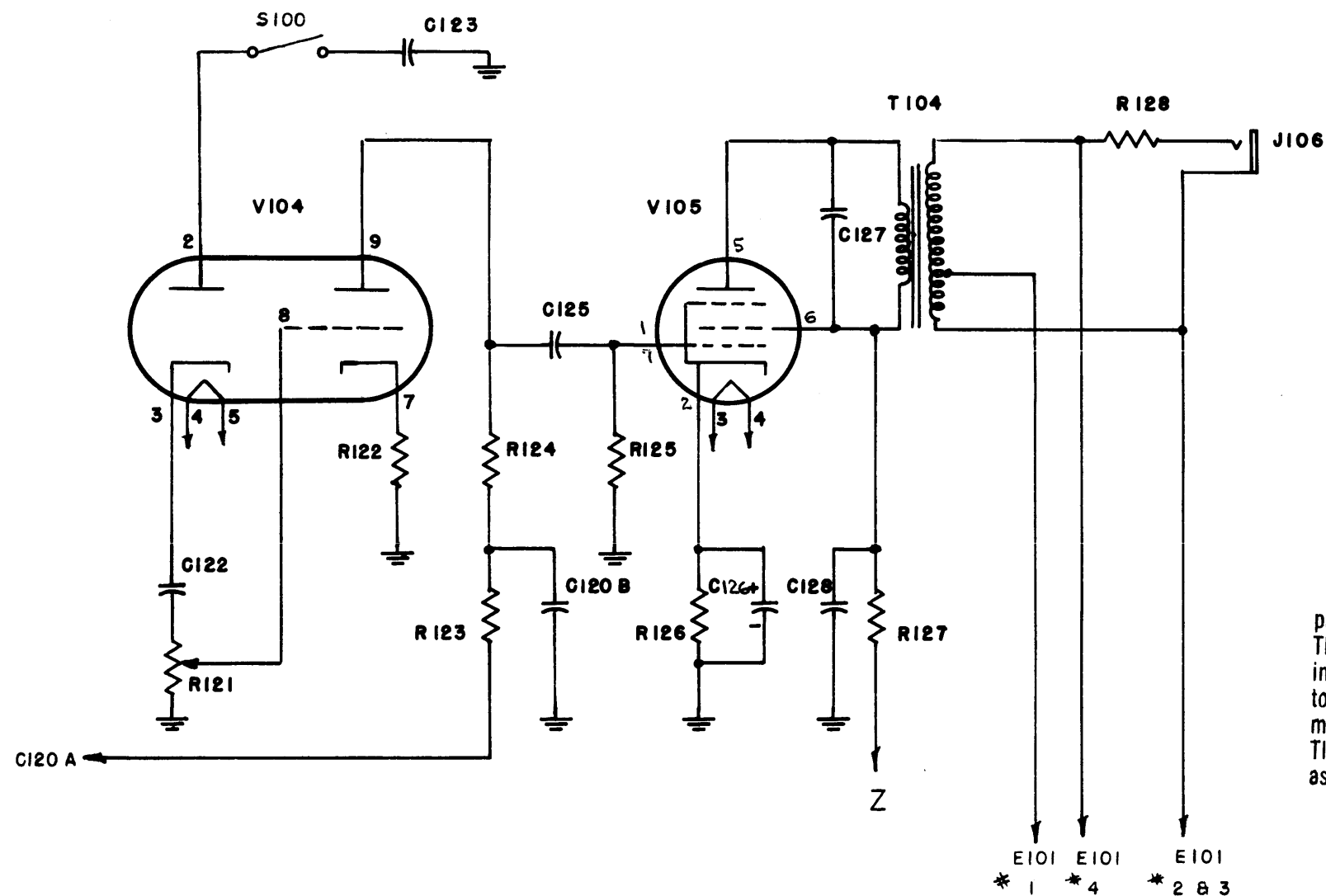
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
				SCALE:			
ALL OTHERS		DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.			

FFR		PROJECT NO.		ASSY. NO.		10-16-53	
MODEL		PROJECT NO.		ASSY. NO.		DATE	
USED ON							

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CK-198



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MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			LIMITER - AUDIO CIRCUIT	
MATERIAL			FIG 4-7	
WEIGHT PER PC.				
TYPE & TEMPER			<i>JADe</i>	
			DRAWN	
			ELEC. DES. APP.	
			MECH. DES. APP.	
HEAT TREAT. SPEC.			DRD 10-16-53 DRD 10-16-53	
			CHECKED	
			FINAL APPROVAL	
FINISH & SPEC. NO.			CK-198	

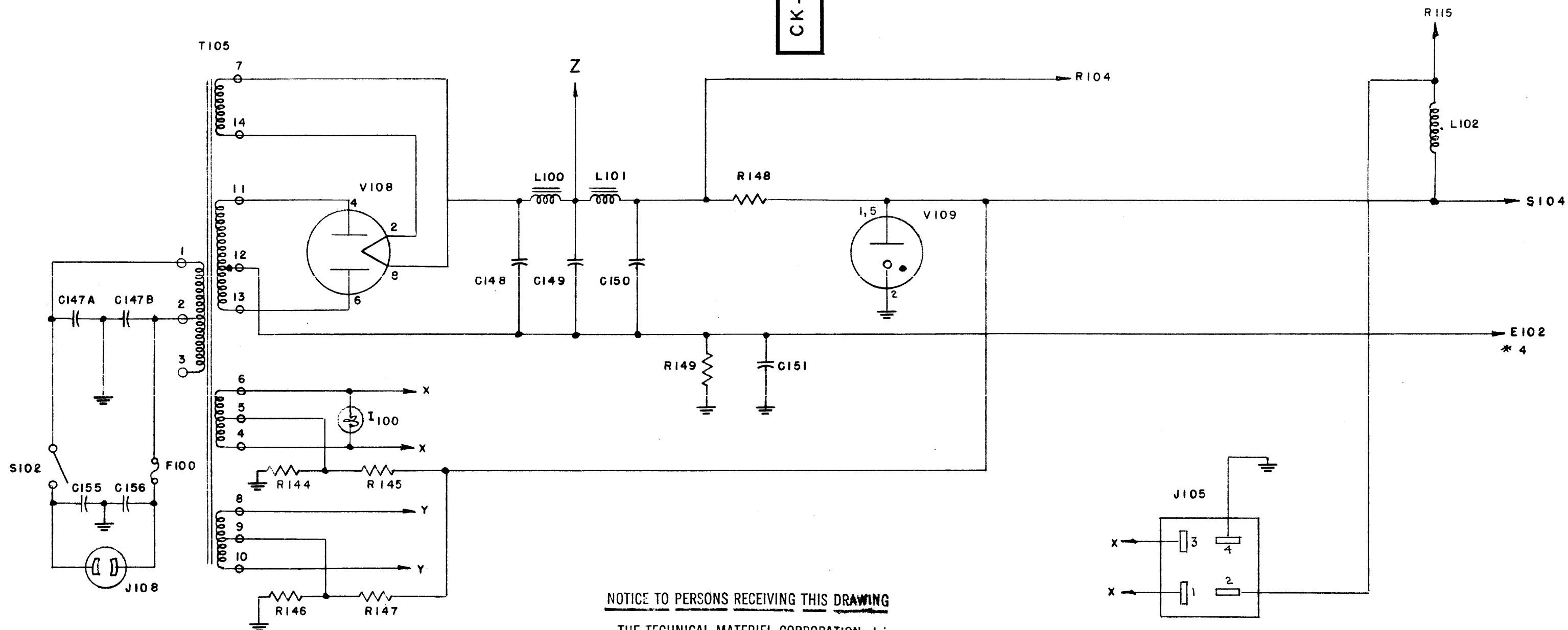
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:					
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

FFR			10-16-53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

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CK-200



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REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			POWER SUPPLY CIRCUIT	
			FIG 4-9	
			<i>Handwritten initials</i>	
			DRAWN	
			ELEC. DES. APP.	
			MECH. DES. APP.	
			HEAT TREAT. SPEC.	
			CHECKED	
			FINAL APPROVAL	
			CK-200	
			FINISH & SPEC. NO.	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES							
		SCALE:					
ALL OTHERS		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

FFR			10-16-53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			