

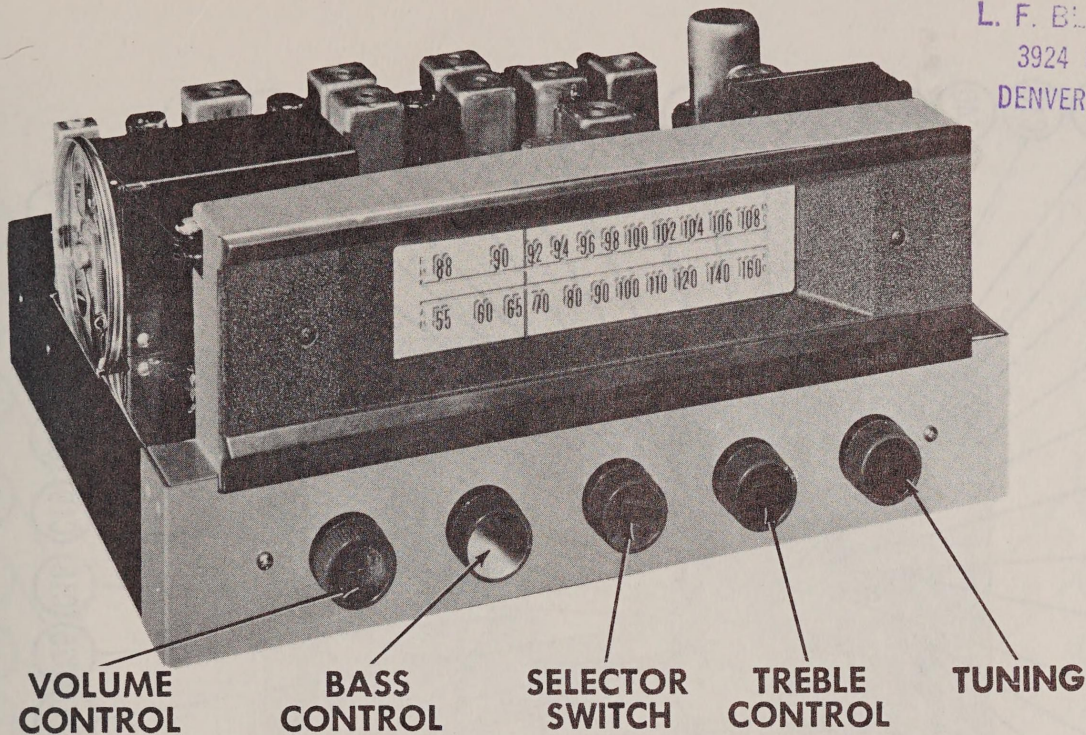
PHOTOFACT* Folder



CRAFTSMEN
MODEL C1000

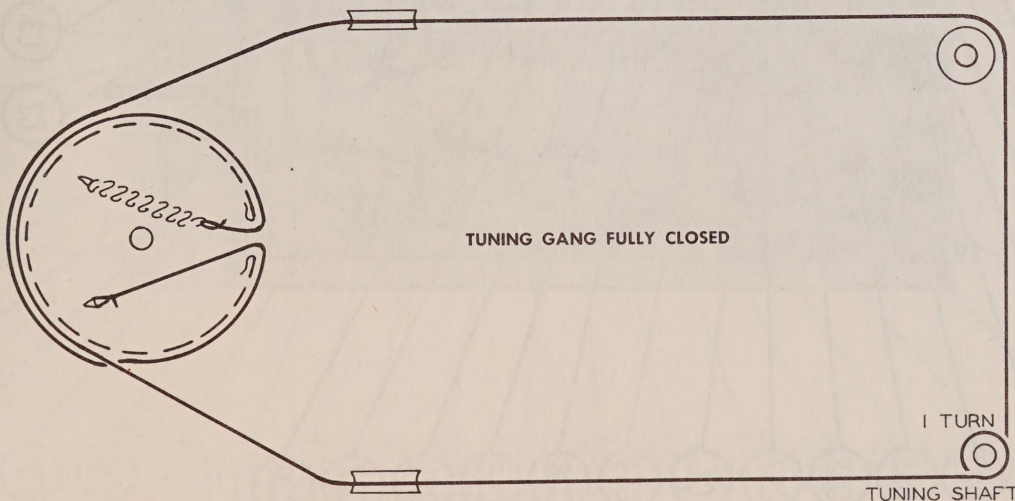
PROPERTY OF
L. F. BLANKINSHIP
3924 MEADE ST.
DENVER, COLORADO

CRAFTSMEN
MODEL C1000



CRAFTSMEN
MODEL C1000

TRADE NAME	Craftsmen Model C1000		
MANUFACTURER	The Radio Craftsmen, Inc., 4401 N. Ravenswood Ave., Chicago 40, Ill.		
TYPE SET	AC Operated AM-FM Superheterodyne Tuner For Custom Installation		
TUBES	Sixteen		
POWER SUPPLY	110-120 Volts AC- 50/60 Cycles	RATING	.67 Amp. @ 117 Volts AC
TUNING RANGE - BROADCAST	550KC-1700KC	FREQ. MOD.	88MC-108MC



DIAL CORD STRINGING

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed."

"Reproduction or use, without express permission, of editorial or pictorial con-

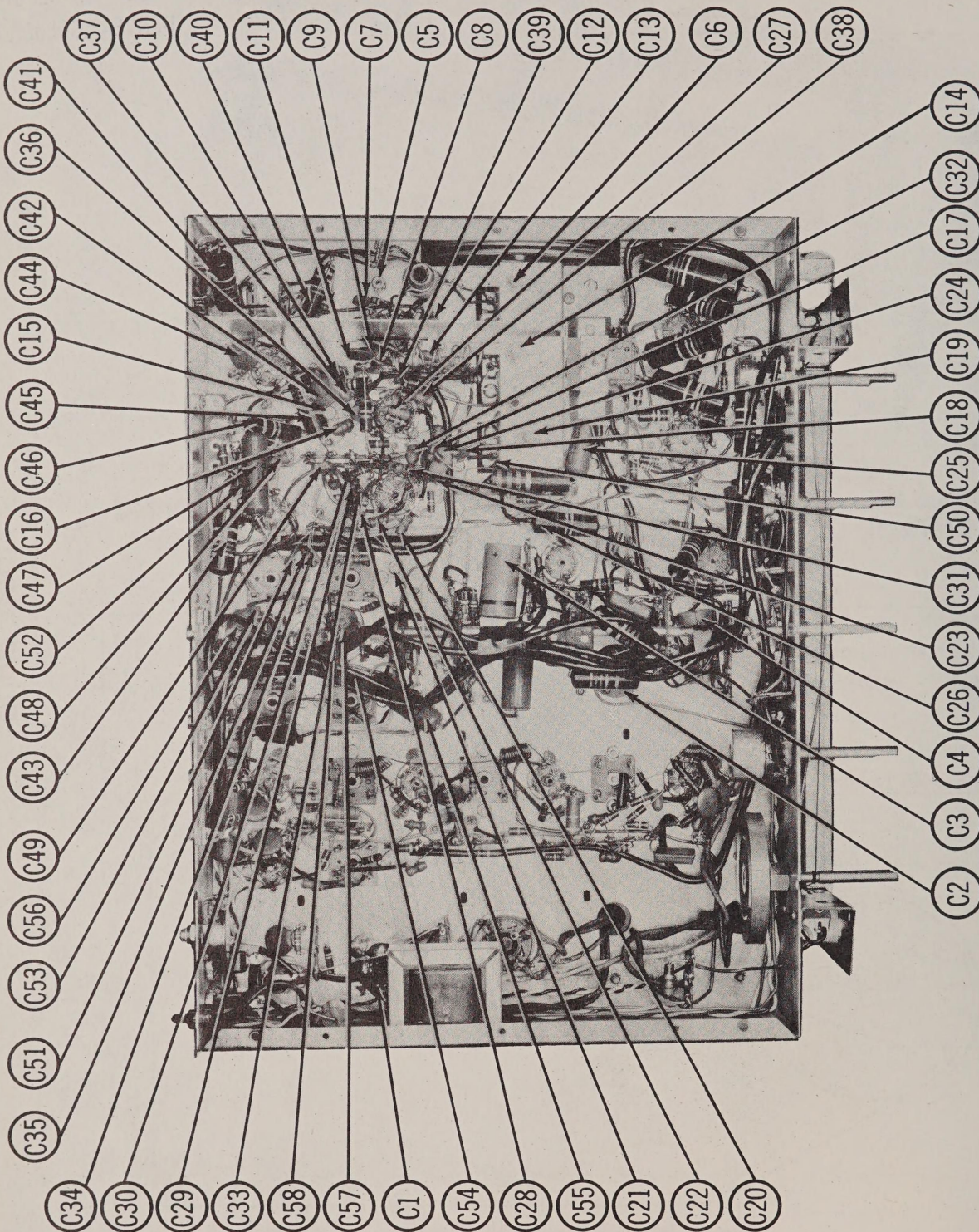
tent, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1955 by Howard W. Sams & Co., Inc., Indianapolis 5, Indiana, U. S. of America. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc." Printed in U. S. of America

DATE

8-55

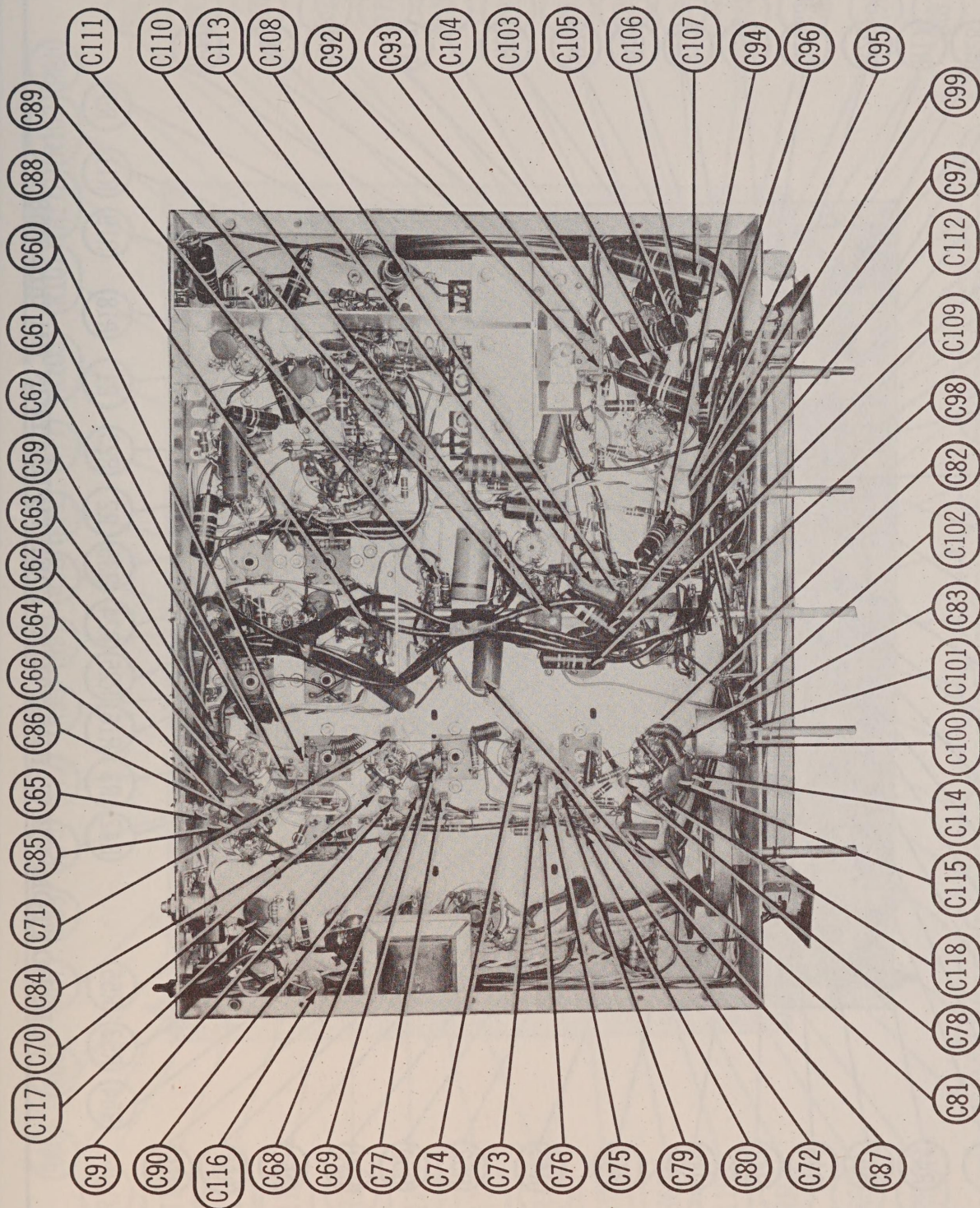
SET 286

FOLDER 4



CH. BOTTOM VIEW-CAPACITOR IDENTIFICATION (C1 thru C58)

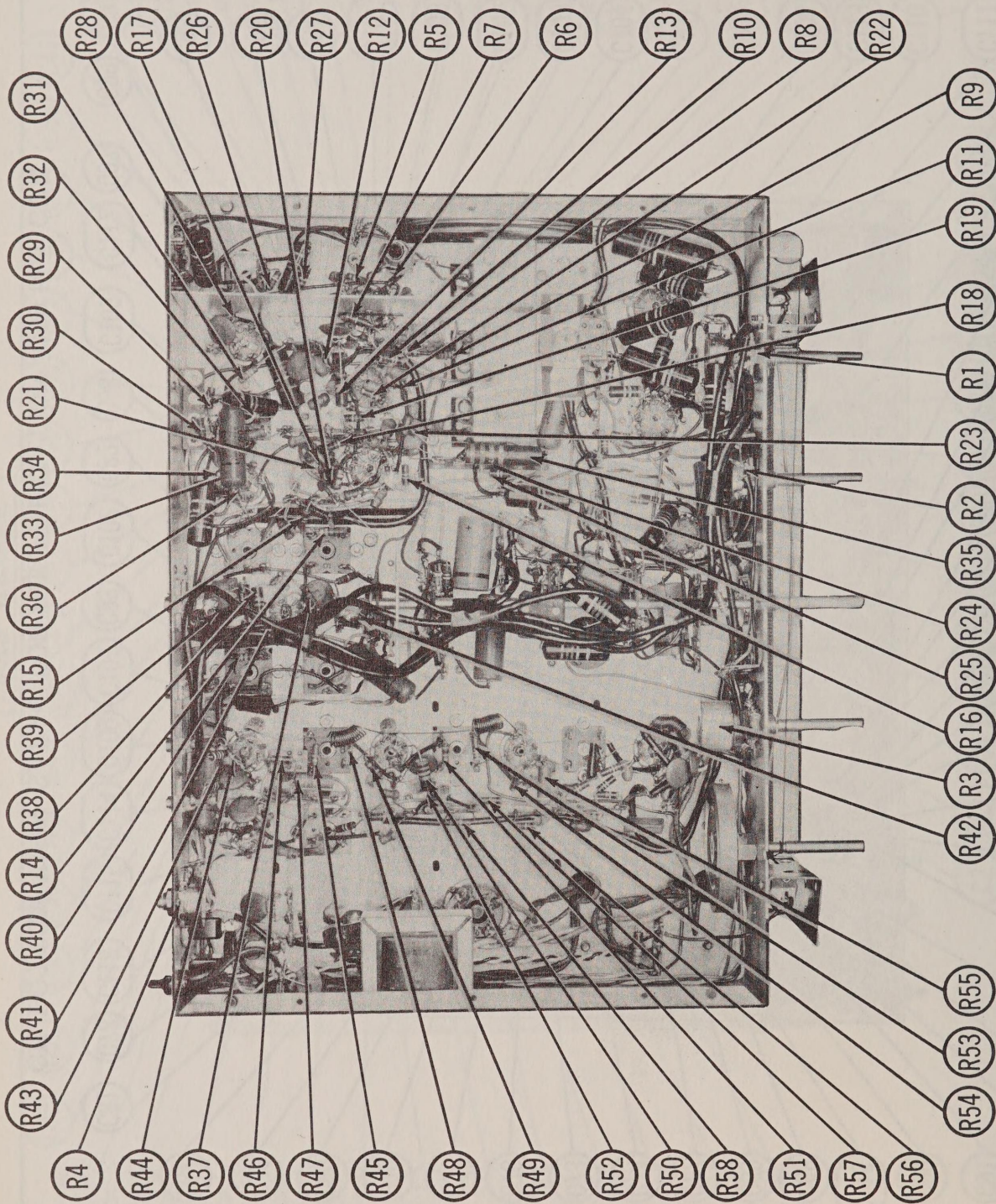
PROPERTY OF
L. F. BLANKENSHIP
3924 MEADE ST.
DENVER, COLORADO



CH. BOTTOM VIEW-CAPACITOR IDENTIFICATION (C59 thru C118)

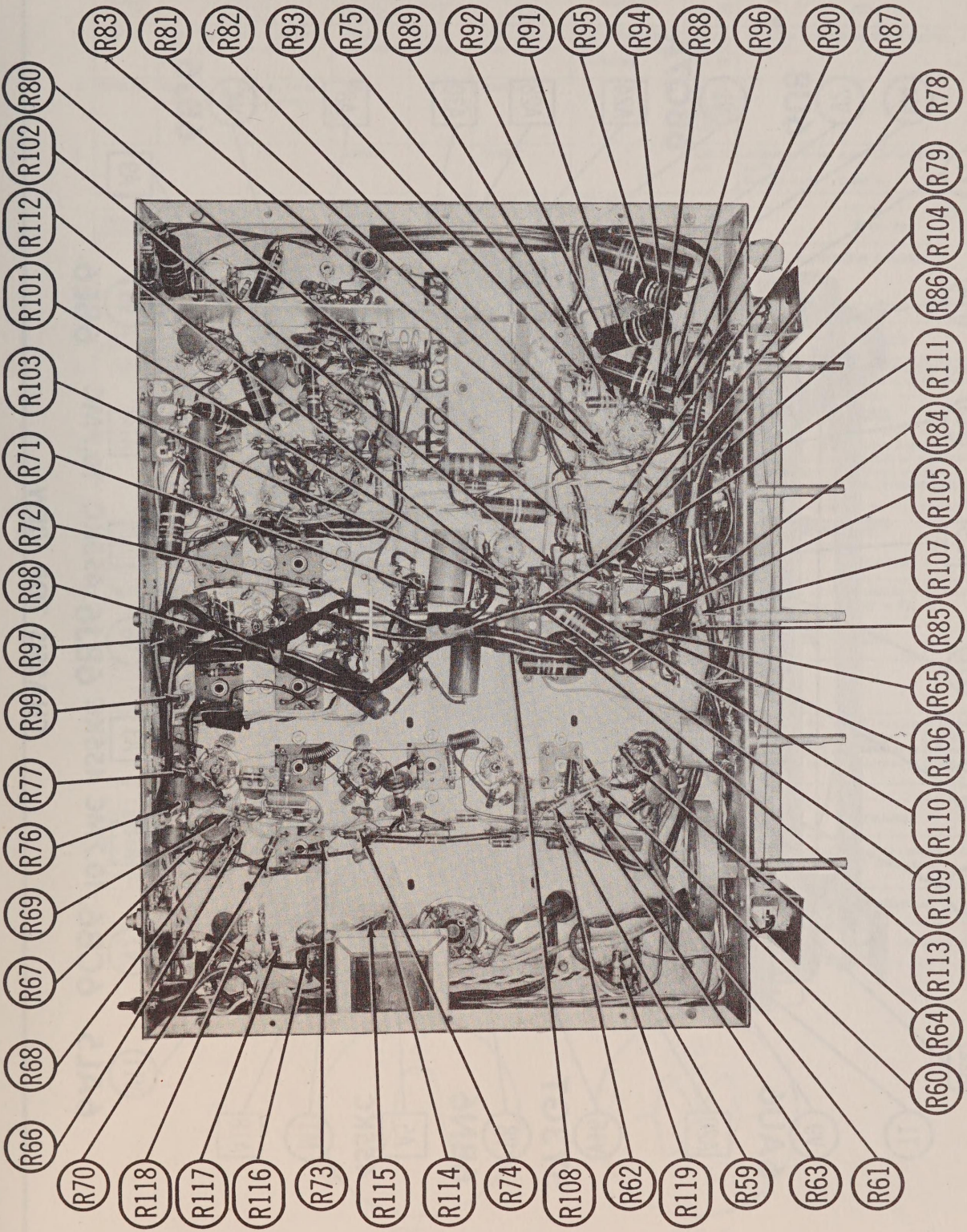
CRAFTSMEN
MODEL C1000

PROPERTY OF
U. S. AIR FORCE
3300 MEADE ST.
DENVER, COLORADO



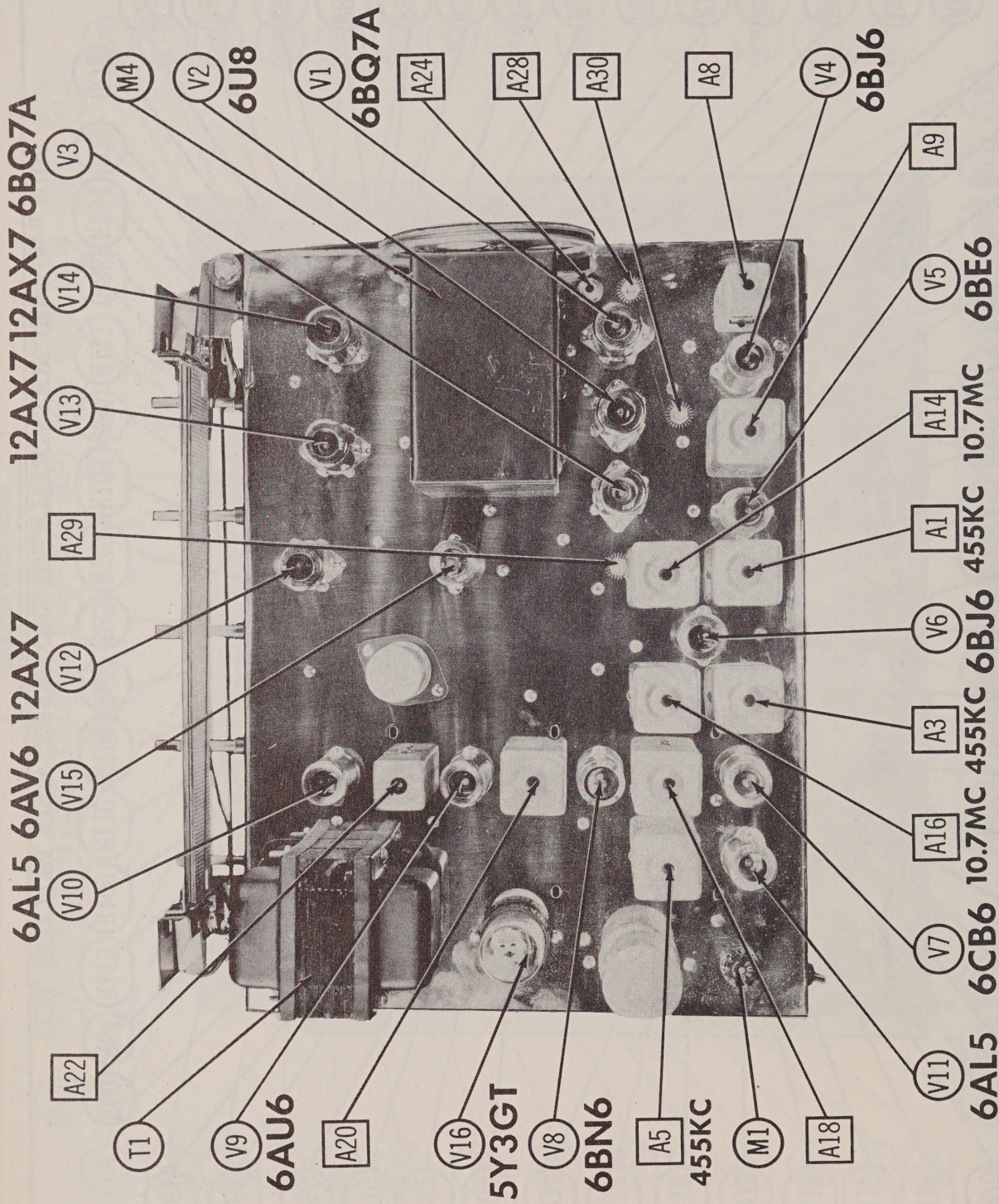
CH. BOTTOM VIEW-RESISTORS IDENTIFICATION (R1 thru R58)

PROPERLY
L. F. BLANKENSHIP
3924 MEADE ST.
DENVER, COLORADO

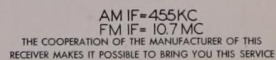


CH. BOTTOM VIEW-RESISTORS IDENTIFICATION (R59 thru R119)

CRAFTSMEN
MODEL C1000



CHASSIS TOP VIEW



ALL MEASUREMENTS TAKEN IN FM-AFC POSITION UNLESS DESIGNATED OTHERWISE
 ‡ 5.3 VAC MEASURED ACROSS FILAMENT.
 * MEASURED IN AM (BYPASS TUNING) POSITION.
 † MEASURED FROM PIN 8 OF V18.
 NC - NO CONNECTION.

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.
Use an insulated alignment screwdriver for adjusting.
Loop should be maintained in same relative position to chassis as when receiver is in cabinet.
Use isolation transformer, if available. If not, connect a .1MFD capacitor in series with low side of signal generator and chassis.
To set pointer, turn tuning capacitor fully closed and set pointer to last reference mark at low frequency end of dial.

AM ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1. .1MFD	High side to pin 1 (grid) of 6BE6 (V5). Low side to chassis.	455KC (400% Mod)	AM (Sharp)	Point of non-interference	DC probe to point A . Common to chassis.	A1, A2, A3, A4, A5, A6	Adjust in order given for maximum deflection.
2. 200MMF	High side to AM ant. terminal. Low side to chassis.	600KC	"	600KC	"	A7, A1, A8, A9, A10, A11, A12	"
3. "	"	1400KC	"	1400KC	"	A10, A11, A12	Adjust in order given for maximum deflection. Repeat steps 1, 2 and 3.

WHISTLE FILTER ADJUSTMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
4. "	High side to AM antenna terminal. Low side to ground.	1400KC (10KC AM Mod)	AM (Broad)	1400KC	DC probe to point B . Common to chassis.	A13	Adjust for MINIMUM deflection.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
5. .1MFD	High side to pin 2 (grid) of 6U8 (V2). Low side to chassis.	10.7MC (Unmod)	FM (AFC off)	Point of non-interference	DC probe to point D . Common to chassis.	A14, A15, A16, A17, A18, A19, A20, A21, A22	Adjust A15 and A23 for maximum deflection, then adjust A14 thru A23 in order given for maximum deflection.
6. "	"	"	"	"	"	A23	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. Repeat steps 5 and 6. Proceed with step 8.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
5. .1MFD	High side to pin 2 (grid) of 6U8 (V2). Low side to chassis.	10.7MC (450KC Swp)	FM (AFC off)	Point of non-interference	Vert. Amp. to point B . Low side to chassis.	A14, A15, A16, A17, A18, A19, A20, A21	Adjust for curve of maximum amplitude and symmetry similar to Fig. 1.
6. "	"	"	"	"	Vert. Amp. to point E . Low side to chassis.	A22	"
7. "	"	"	"	"	Vert. Amp. to point F . Low side to chassis.	A23	Adjust so that 10.7MC occurs at center of crossover lines similar to Fig. 2. SLIGHTLY retouch A22 for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
8. Two 120 Ω Carbon Resistors	Across FM antenna terminals with 120 Ω in each lead.	88MC	FM (AFC off)	88	DC probe to point E . Common to chassis.	A24, L4, L6	Adjust A24 and expand or compress L4 and L6 for maximum deflection.
9. "	"	106MC	"	106MC	"	A25, A26, A27	Adjust for maximum deflection.
10. "	"	"	"	"	"	A28, A29, A30	If necessary adjust A28, A29 and A30 for proper tracking.

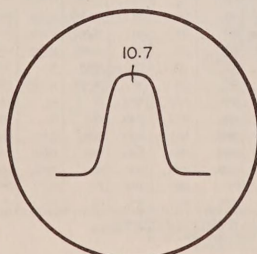


FIG. 1

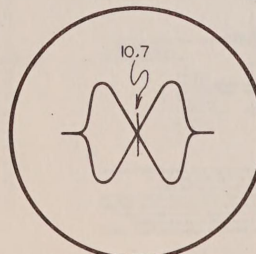
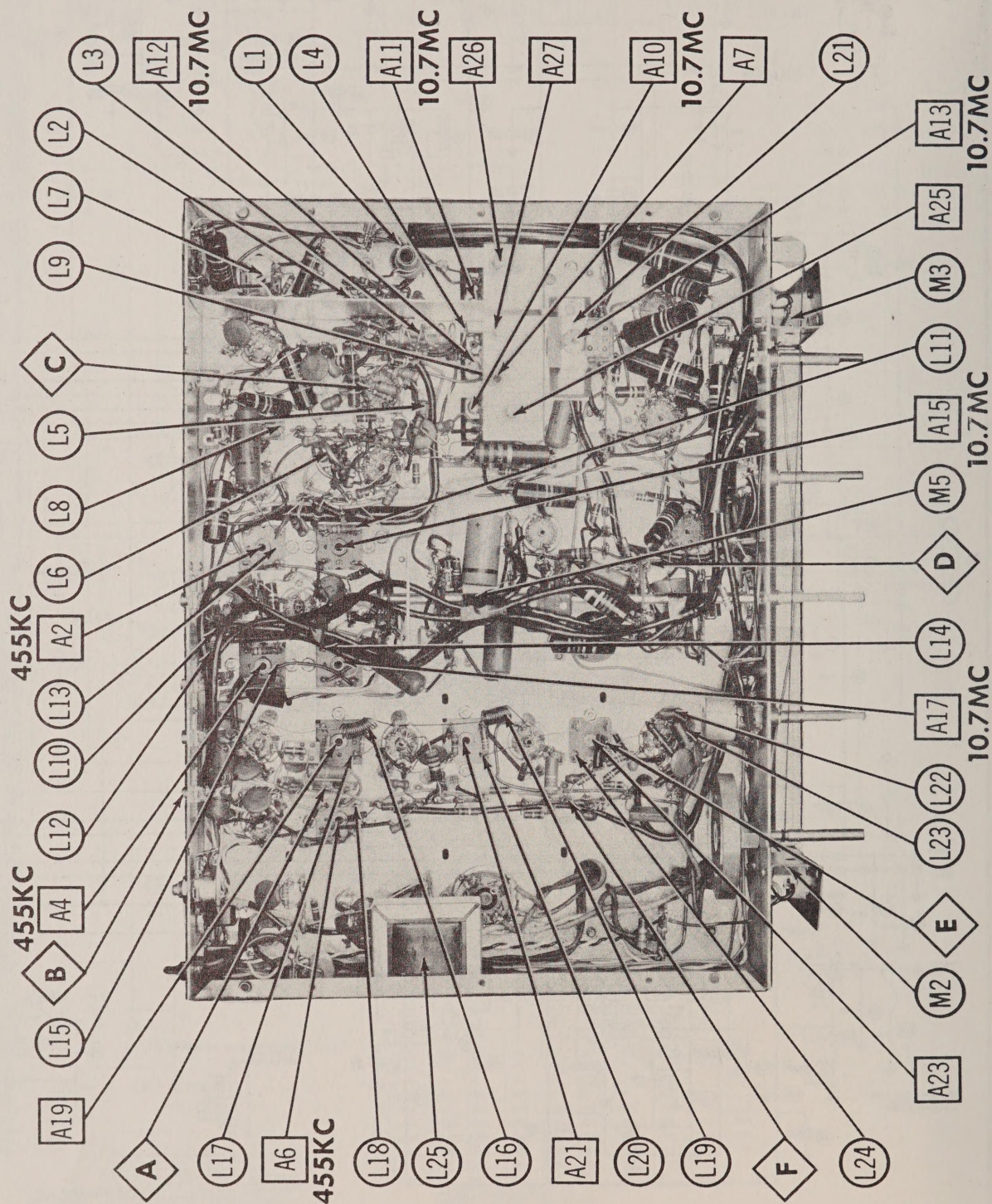


FIG. 2



CH. BOTTOM VIEW - INDUCTOR AND ALIGNMENT IDENTIFICATION

PARTS LIST AND DESCRIPTIONS TUBES (SYLVANIA, GENERAL ELECTRIC, WESTINGHOUSE)

ITEM No.	USE	REPLACEMENT DATA		RETM BASE TYPE	NOTES
		CRAFTSMEN PART No.	STANDARD REPLACEMENT		
V1	FM RF Amp.	6BQ7A	6BQ7A	9AJ	6BK7A used as alternate
V2	FM Mixer-AFC	6B18	6B18	9AE	
V3	FM Osc.-AFC	6BQ7A	6BQ7A	9AJ	6BK7A used as alternate
V4	AM RF Amp.	6B16	6B16	7CM	
V5	AM Converter	6B16	6B16	7CH	
V6	1st AM-FM IF Amp.	6B16	6B16	7CM	
V7	2nd AM-FM IF Amp.	6B16	6B16	7CM	
V8	1st FM Limiter	6B16	6B16	7CM	
V9	2nd FM Limiter	6B16	6B16	7CM	
V10	Discriminator	6B16	6B16	7BK	
V11	AM Det.-AFC	6A15	6A15	8BT	
V12	Cathode Follower-Phono Pre-Amp.	12AX7	12AX7	8BT	
V13	Cathode Follower-1st AF Amp.	12AX7	12AX7	9A	
V14	Cathode Follower-2nd AF Amp.	12AX7	12AX7	9A	
V15	Phono Pre-Amp.	6AV6	6AV6	7BT	
V16	Rectifier	5Y3GT	5Y3GT	5T	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA			SANGAMO PART No.
		CRAFTSMEN PART No.	CENTRALAB PART No.	MALLORY PART No.	
C1A	40	45S102		FP419.5	Q-010 [MT-4520]
C1B	40				
C1C	40				
C1D	40				
C1E	40				
C1F	40				
C1G	40				
C1H	40				
C1I	40				
C1J	40				
C1K	40				
C1L	40				
C1M	40				
C1N	40				
C1O	40				
C1P	40				
C1Q	40				
C1R	40				
C1S	40				
C1T	40				
C1U	40				
C1V	40				
C1W	40				
C1X	40				
C1Y	40				
C1Z	40				
C2A	40				
C2B	40				
C2C	40				
C2D	40				
C2E	40				
C2F	40				
C2G	40				
C2H	40				
C2I	40				
C2J	40				
C2K	40				
C2L	40				
C2M	40				
C2N	40				
C2O	40				
C2P	40				
C2Q	40				
C2R	40				
C2S	40				
C2T	40				
C2U	40				
C2V	40				
C2W	40				
C2X	40				
C2Y	40				
C2Z	40				
C3A	40				
C3B	40				
C3C	40				
C3D	40				
C3E	40				
C3F	40				
C3G	40				
C3H	40				
C3I	40				
C3J	40				
C3K	40				
C3L	40				
C3M	40				
C3N	40				
C3O	40				
C3P	40				
C3Q	40				
C3R	40				
C3S	40				
C3T	40				
C3U	40				
C3V	40				
C3W	40				
C3X	40				
C3Y	40				
C3Z	40				
C4A	40				
C4B	40				
C4C	40				
C4D	40				
C4E	40				
C4F	40				
C4G	40				
C4H	40				
C4I	40				
C4J	40				
C4K	40				
C4L	40				
C4M	40				
C4N	40				
C4O	40				
C4P	40				
C4Q	40				
C4R	40				
C4S	40				
C4T	40				
C4U	40				
C4V	40				
C4W	40				
C4X	40				
C4Y	40				
C4Z	40				

SET 286

FOLDER 4

PARTS LIST AND DESCRIPTIONS (Continued) CAPACITORS (cont)

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA			SANGAMO PART No.
		CRAFTSMEN PART No.	CENTRALAB PART No.	MALLORY PART No.	
C45	.047	46X473K4	D6-470	GPIK-470	KR-1447
C46	.01	46X473K4	D6-100	GPIK-100	KR-1510
C47	.047	46X473K4	DD-103	DD-103	
C48	10	47CC208L100M	DD-103	DD-103	
C49	10	47X068	DD-103	DD-103	
C50	10000	47X068	DD-103	DD-103	
C51	10000	47X068	DD-103	DD-103	
C52	250	47X200D25LJ	D6-222	81L-0022	CR-1255
C53	250	47X200D25LJ	D6-222	81L-0022	CR-1222
C54	250	47X200D25LJ	D6-222	81L-0022	CR-1250
C55	.047	46X473K4	DD-502	81L-005	CR-1250
C56	5000	45X068	DD-502	81L-005	CR-1250
C57	5000	45X068	DD-502	81L-005	CR-1250
C58	2200	47CD10X222Y	D6-222	81L-0022	CR-1255
C59	250	47X200D25LJ	D6-222	81L-0022	CR-1351
C60	510	47X200A51J	DD-103	DD-103	
C61	10000	45X068	DD-103	DD-103	
C62	10000	45X068	DD-103	DD-103	
C63	150	47CC208L15M	D6-151	GP2K-151	KR-1315
C64	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C65	.047	46X473K4	D6-222	81L-0022	CR-1222
C66	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C67	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C68	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C69	10000	47X068	DD-103	DD-103	
C70	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C71	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C72	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C73	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C74	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C75	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C76	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C77	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C78	100	47CD10X222Y	D6-222	81L-0022	CR-1222
C79	22	47CC208L101M	D6-101	NP0K-101	KR-1310
C80	22	47CC208L101M	TCZ-22	NP0K-220	KR-1422
C81	430	47X200D43J	TCZ-22	NP0K-220	KR-1422
C82	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C83	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C84	150	47CC208L15M	DD-151	GP2K-151	KR-1315
C85	10000	45X068	DD-103	DD-103	
C86	10000	45X068	DD-103	DD-103	
C87	.1	46X104K4	DD-103	DD-103	
C88	10000	45X068	DD-103	DD-103	
C89	.047	46X473K4	DD-470	GPIK-470	KR-1447
C90	47	47CC208L47M	TCZ-110	NP0-333-111	KR-1311
C91	47	47CC208L47M	TCZ-25	NP0L-250	KR-1425
C92	110	46X223K4	D6-222	81L-0022	CR-1256
C93	25	46X223K4	D6-222	81L-0022	CR-1256
C94	.022	46X223K4	D6-222	81L-0022	CR-1256
C95	.22	46X223K4	D6-222	81L-0022	CR-1256
C96	.022	46X223K4	D6-222	81L-0022	CR-1256
C97	.1	46X104K4	D6-222	81L-0022	CR-1256
C98	.0056	46X562K4	D6-222	81L-0022	CR-1256
C99	.0056	46X562K4	D6-222	81L-0022	CR-1256
C100	330	46X563K4	D6-222	81L-0022	CR-1256
C101	330	47X15A33J	D6-222	81L-0022	CR-1256
C102	.0033	46X332K4	D6-222	81L-0022	CR-1256
C103	.0033	46X332K4	D6-222	81L-0022	CR-1256
C104	.1	46X104K4	D6-222	81L-0022	CR-1256
C105	.1	46X104K4	D6-222	81L-0022	CR-1256
C106	.022	46X223K4	D6-222	81L-0022	CR-1256
C107	.22	46X223K4	D6-222	81L-0022	CR-1256
C108	.0033	46X332K4	D6-222	81L-0022	CR-1256
C109	.047	46X473K4	D6-222	81L-0022	CR-1256
C110	2400	47X35A242J	TCZ-100	NP0-337-101	CR-1256
C111	100	47X15D101J	DD-103	DD-103	
C112	.022	46X223K4	DD-103	DD-103	
C113	15000	45X068	DD-103	DD-103	
C114	10000	45X068	DD-103	DD-103	
C115	10000	45X068	DD-103	DD-103	
C116	.01	46X103K5	DD-103	DD-103	
C117	10000	45X068	DD-103	DD-103	
C118	2200	47CD10X222Y	D6-222	81L-0022	CR-1222
C119	2200	47CD10X222Y	D6-222	81L-0022	CR-1222

Note 1. Not used in some versions.

Note 2. Some versions use a 180MMF capacitor in this application.

PROPERTY OF
L. F. BLANKENSHIP
3924 MEADE ST.
DENVER, COLORADO

Note 1
Note 2

PARTS LIST AND DESCRIPTIONS (Continued)

ITEM No.	RATING		REPLACEMENT DATA		ITEM No.	NOTES	RATING		REPLACEMENT DATA		ITEM No.	NOTES
	OHMS	WATT	CRAFTSMEN PART No.	IRC			OHMS	WATT	CRAFTSMEN PART No.	IRC		
R12	15K0	5%	23B155J	BTS-15K 5%	R17	100K0		23B104K	BTS-100K			
R13	10K0		23B103K	BTS-10K	R18	33K0		23B333K	BTS-33K			
R14	4700K		23B472K	BTS-4700	R19	2.20		24B2R2K				
R15	15000		23B152K	BTS-1500	R20	2Meg 5%		23B205J	BTS-2Meg 5%			Note 2
R16	10000		24F102K	1 3/4A-1000								

Note 1. Some versions use a 22000 resistor in this application.
Note 2. Not used in some versions.
Note 3. When G. E. or Pickering pickup is used this resistor is connected from pin 1 of V15 to common.

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA					
	PRI.	SEC. 1	SEC. 2	SEC. 3	CRAFTSMEN PART No.	Hollidorn PART No.	Merit PART No.	Stencor PART No.	Theoderson PART No.	Triod PART No.
T1	117VAC @ .67A	475VCT @ .2A	5VAC @ .2A	6.3VAC @ .2A	52S029					
				6.3VAC @ 2.7A						

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA				NOTES
		PRI.	SEC.	CRAFTSMEN PART No.	MESSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	FM Ant. Coil	00 CT	00	51A008				.2 Microhenry
L2	Neut. Coil	02		53A019				4.7 Microhenries, IRC part #CL-1
L3	RF Choke	2.8Ω		53A047	19-1004		4529	
L4	FM RF Coil	02		51A009	19-1001		4604	1.5 Microhenries, IRC part #CLA
L5	Trap Coil	1.2Ω		53A044				
L6	FM Osc. Coil	00 CT		51A010	14-1410			
L7	AM Ant. Coil	02	5Ω	51A005				
L8	AM RF Coil	100Ω	5.5Ω	51A006		71-05C		
L9	AM Osc. Coil	.8Ω	4.2Ω	51A007	14-1077	BC-387		.75 Microhenry
L10	1st. Choke	02		53A051	19-1000	TV-189	4602	
L11	FM IF	.4Ω	.4Ω	53A028	FM-251	FM-251	1451	
L12	FIL. Choke	02		53A051	19-1000	TV-189	4602	.75 Microhenry
L13	2nd. AM IF	02	11Ω	50X207				Tertiary winding - .4Ω
L14	2nd. AM IF	.4Ω	.4Ω	50X208		FM-251	1451	
L15	2nd. AM IF	12Ω	12Ω	50X207	19-1000	TV-189	4602	Tertiary winding - .4Ω
L16	FIL. Choke	02		50X208		FM-251	1451	.75 Microhenry
L17	3rd. AM IF	.4Ω	02	50X208		FM-251	1451	*Tapped @ 7.2Ω
L18	3rd. AM IF	7Ω	11Ω *	53A051	19-1000	TV-189	4602	.75 Microhenry
L19	FIL. Choke	02		50X209		FM-251	1451	
L20	FM Limiter	.4Ω	.4Ω	53A051	19-1000	TV-189	4602	1.4 Microhenries
L21	10K Filter	400Ω		50X209		FM-251	1451	.75 Microhenry
L22	FIL. Choke	00		41B001	19-1000	TV-189	4602	.75 Microhenry
L23	FIL. Choke	00		53A051	19-1000	TV-189	4602	
L24	Discriminator	.3Ω	.3Ω CT	50X030		FM-250	1452	

Drill new mounting holes.

RATINGS			REPLACEMENT DATA					
ITEM No.	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0.0001 H)	CRAFTSMEN PART No.	Halldorson PART No.	Slancer PART No.	Thordarson PART No.	Triod PART No.
L25	1.060A	200Ω	4.4 HY	52S016	C5040	C-1709	20C59	C-8X

① Drill one new mounting hole.

RATINGS			REPLACEMENT DATA					
ITEM No.	TYPE	RATING	CRAFTSMEN PART No.		UTTEL FUSE PART No.		BUSS FUSE PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3 AG S/B	1A 125V	39X019	39X004	313001	342003	MDL 1	HKP

MISCELLANEOUS		NOTES
ITEM No.	PART NAME	CRAFTSMEN PART No.
M2	Dial Light	39X006
M3	Dial Light	39X006
M4	Tuning Cap.	17B008
M5	Switch	62S015
	Knob	15B001
	Knob	15B001
	Knob	15B004
	Knob	15B023
	Knob	41B003

#44
#44
6 Gang - AM Sections (13-320MMF, 13-320MMF, 20-195MMF)
Selector & Phono Compensation (Rotary - wator type)
Selector & Phono Compensation
Phono Compensation
Phono Compensation
Volume, Bass, on-off-treble