



# PHOTOFACT<sup>®</sup> with CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index

## NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license. (Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODELS TRC-30, TRC-30A (21-143)  
(navaho)

## ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:	GC ELECTRONICS
T301 thru T306.....	5000 or 8290
L912, L913, L914.....	9302
ALL other tunable coils and transformers.....	9440

REALISTIC MODELS TRC-30/A

## RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil. Adjustments made with 120-volt AC input to power supply. Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to base of Q302, low side to ground.	455kHz, 1000Hz @ 30% modulation, output 25uV	Any	T303, T304, T305, T306	Set Delta Tune to center Set Squelch fully counter-clockwise. Adjust for maximum.
High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 5uV	13	L101, L102, T301, T302	Adjust for maximum.

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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## RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.  
 These adjustments made with 120-volt AC input to power supply.  
 Adjust volume control to obtain a suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
AGC High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 0.25 0.25uV.	13	VR1	Set Volume fully clockwise. Adjust for 2V across speaker voice coil.
SQUELCH RANGE High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz modulation, output 1000uV.	13	VR2	Set squelch control fully clockwise. Adjust so the squelch just breaks.
"S" METER High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 100uV.	13	VR4 VR6	Adjust for zero on panel meter. Adjust for "S" 9 on panel meter.

## TRANSMITTER

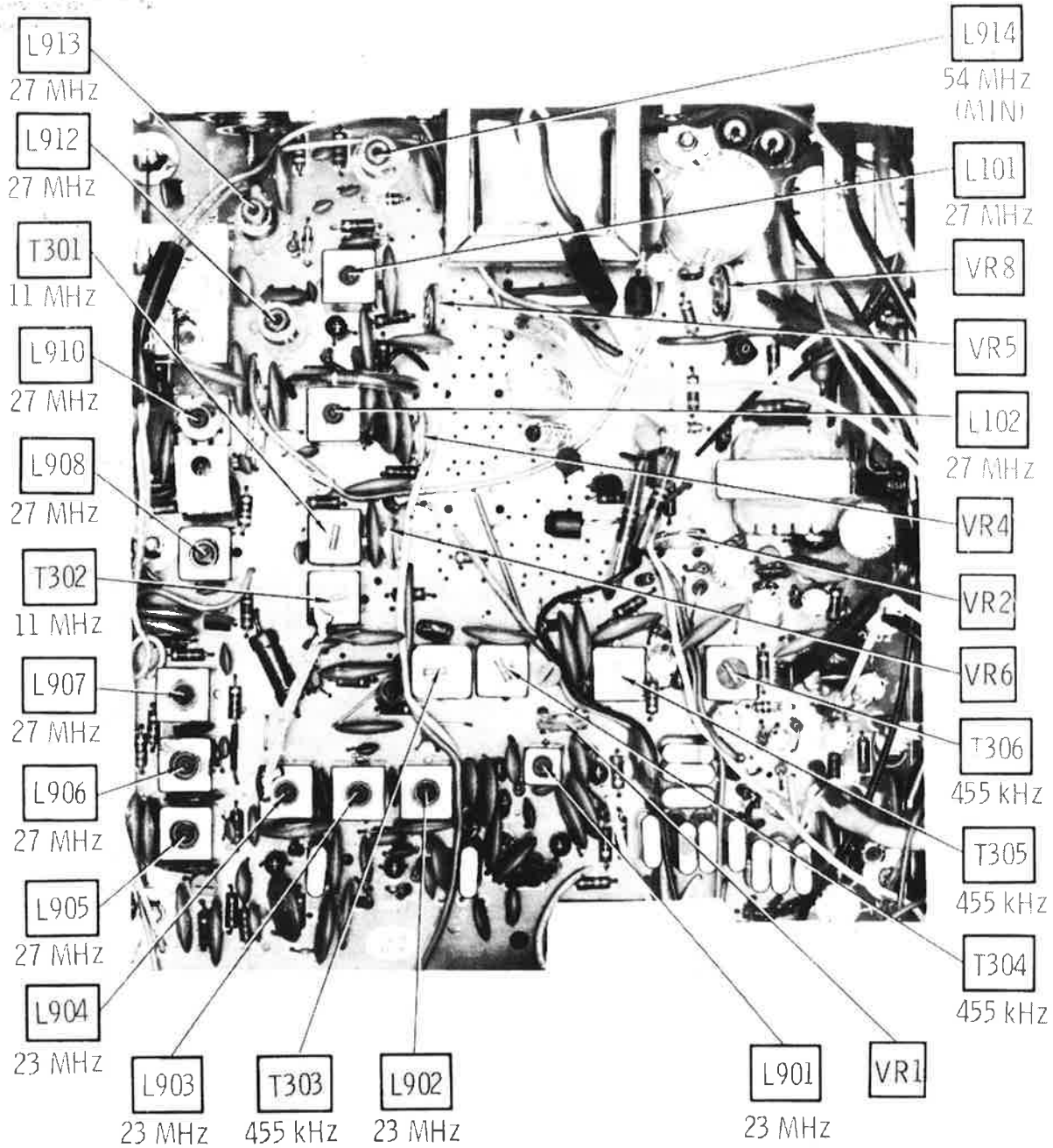
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.  
 Adjustments made with 120-volt AC input to power supply.

INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	L901, L902, L903, L904, L905, L906, L907, L908, L910	Channel selector to CH 13. Key transmitter. Adjust for maximum.
TVI TRAP TV (Ch 2)	L914	Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Connect 0-1000DC milliammeter between collector of Q909 and cathode of D702.	L912, L913	Adjust for 5 watts.

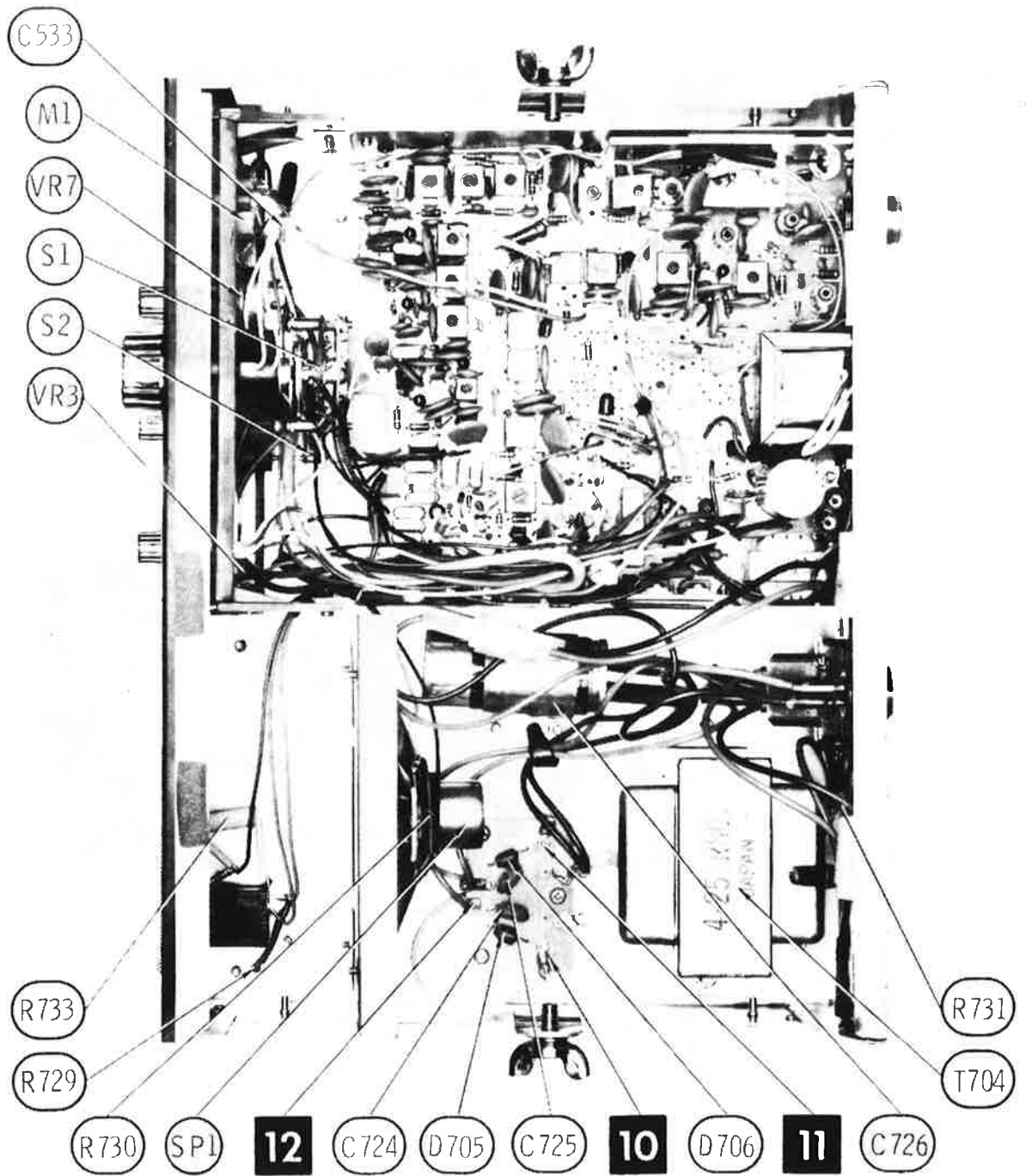
## TRANSMITTER ADJUSTMENTS

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.  
 Adjustments made with 120-volt AC input to power supply.

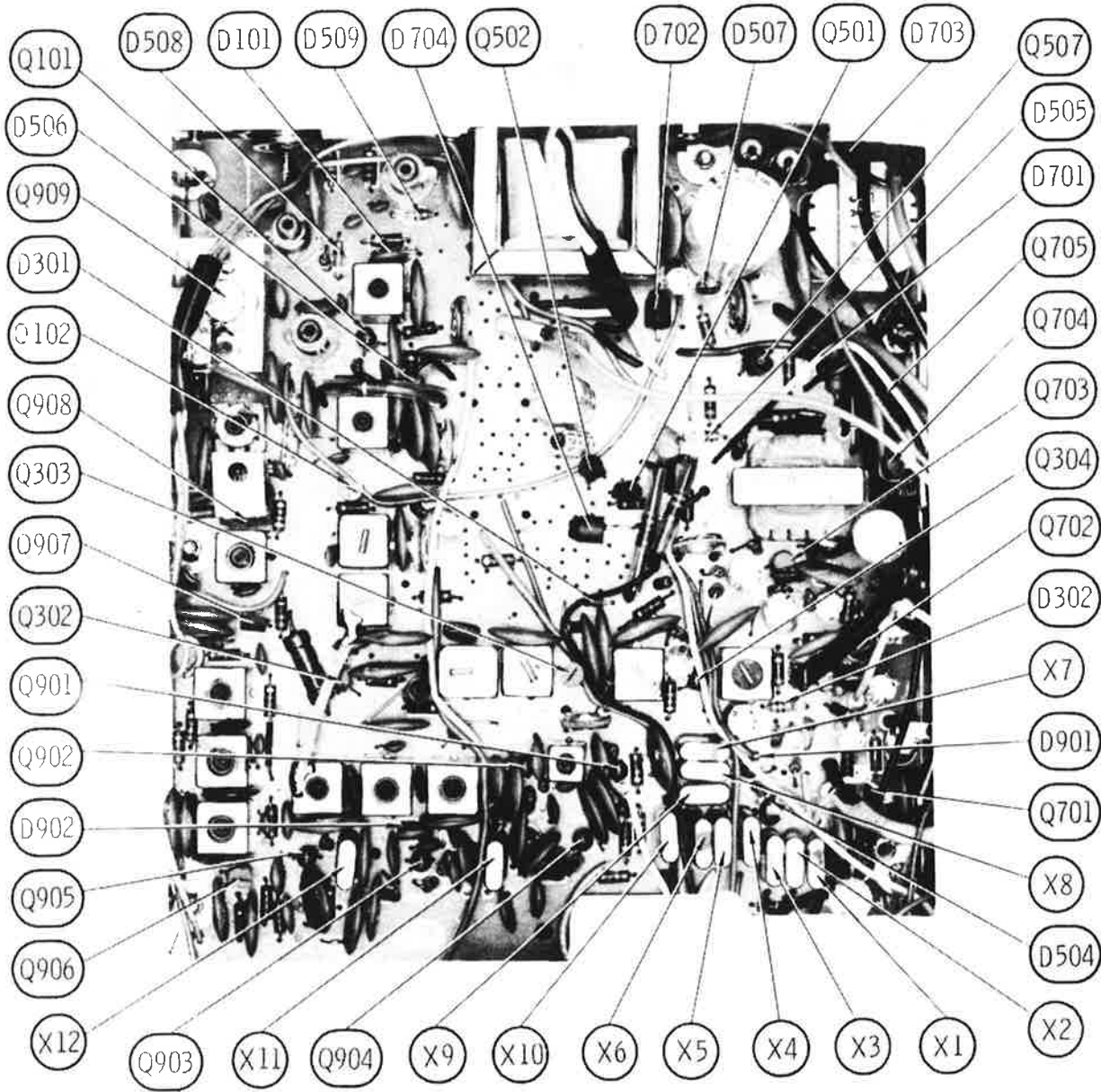
INDICATOR	ADJUST	REMARKS
AMC Modulation Meter connected to Antenna Jack.	VR8	Inject a 1000Hz 15mV audio signal to mic input. Key transmitter. Adjust for 100% modulation maximum.
RF PANEL METER RF Wattmeter	VR5	Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.



MAIN BOARD



CHASSIS - TOP



MAIN BOARD



MAIN BOARD

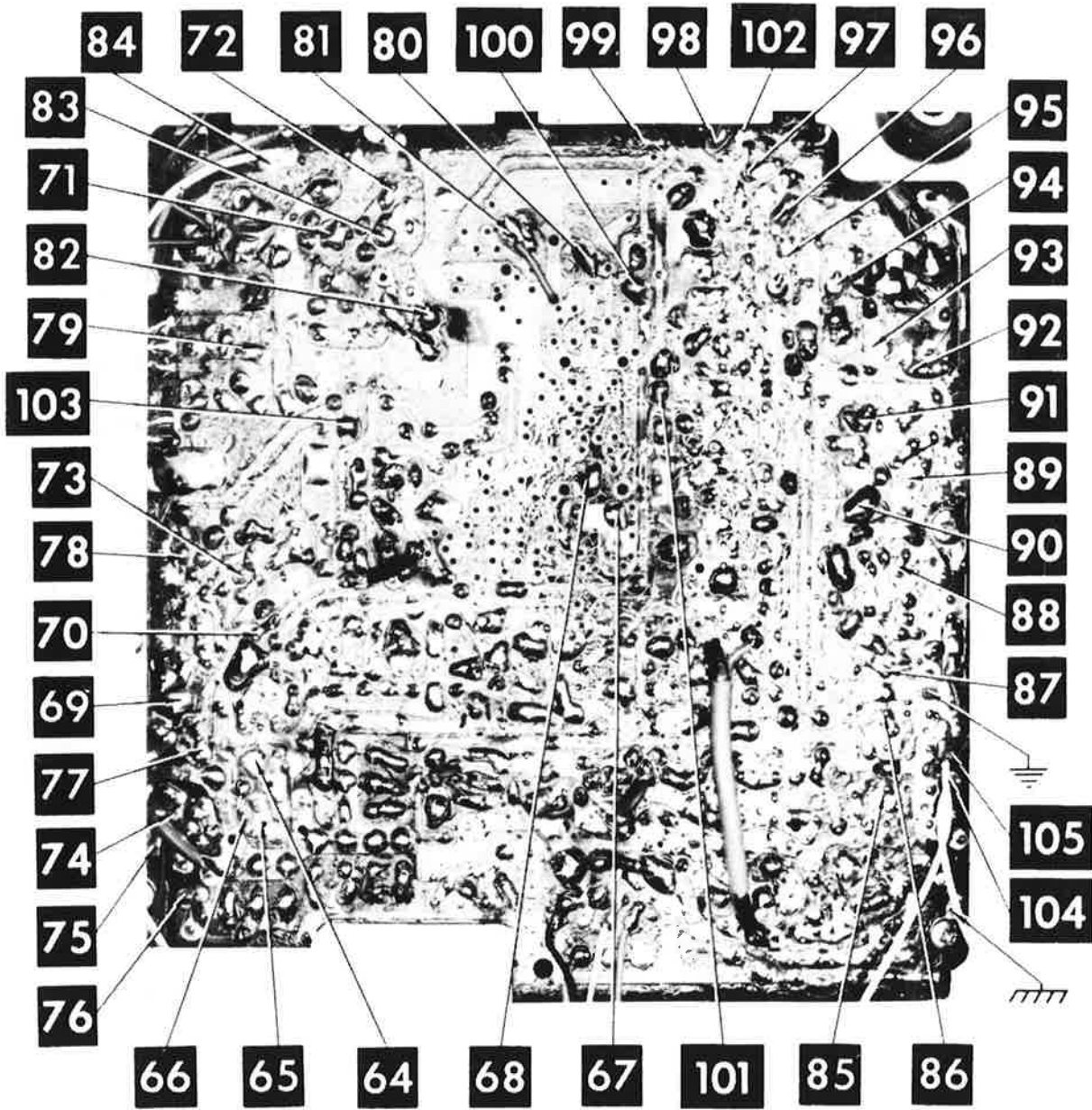


REALISTIC MODELS TRC-30/A

MAIN BOARD

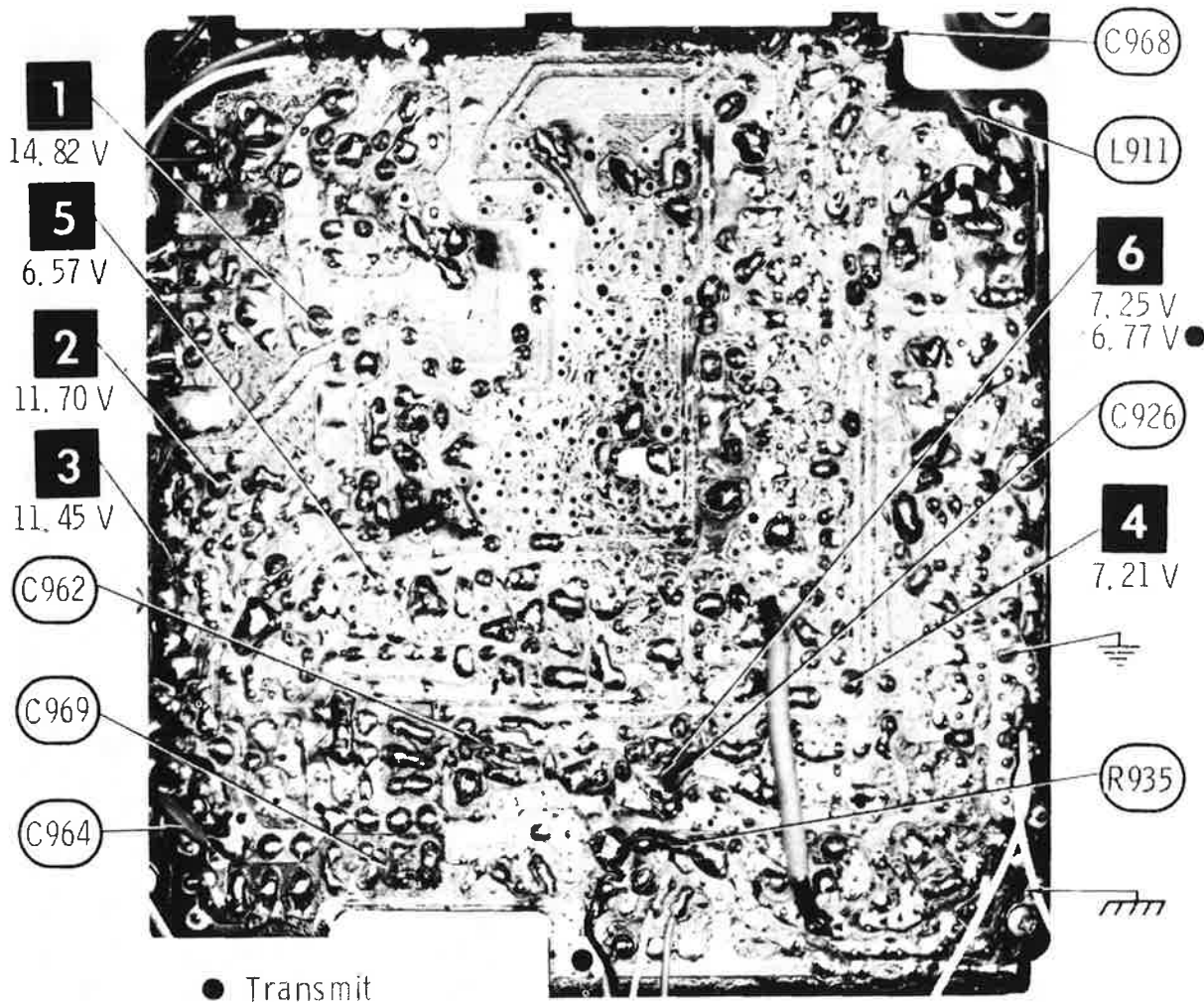


MAIN BOARD

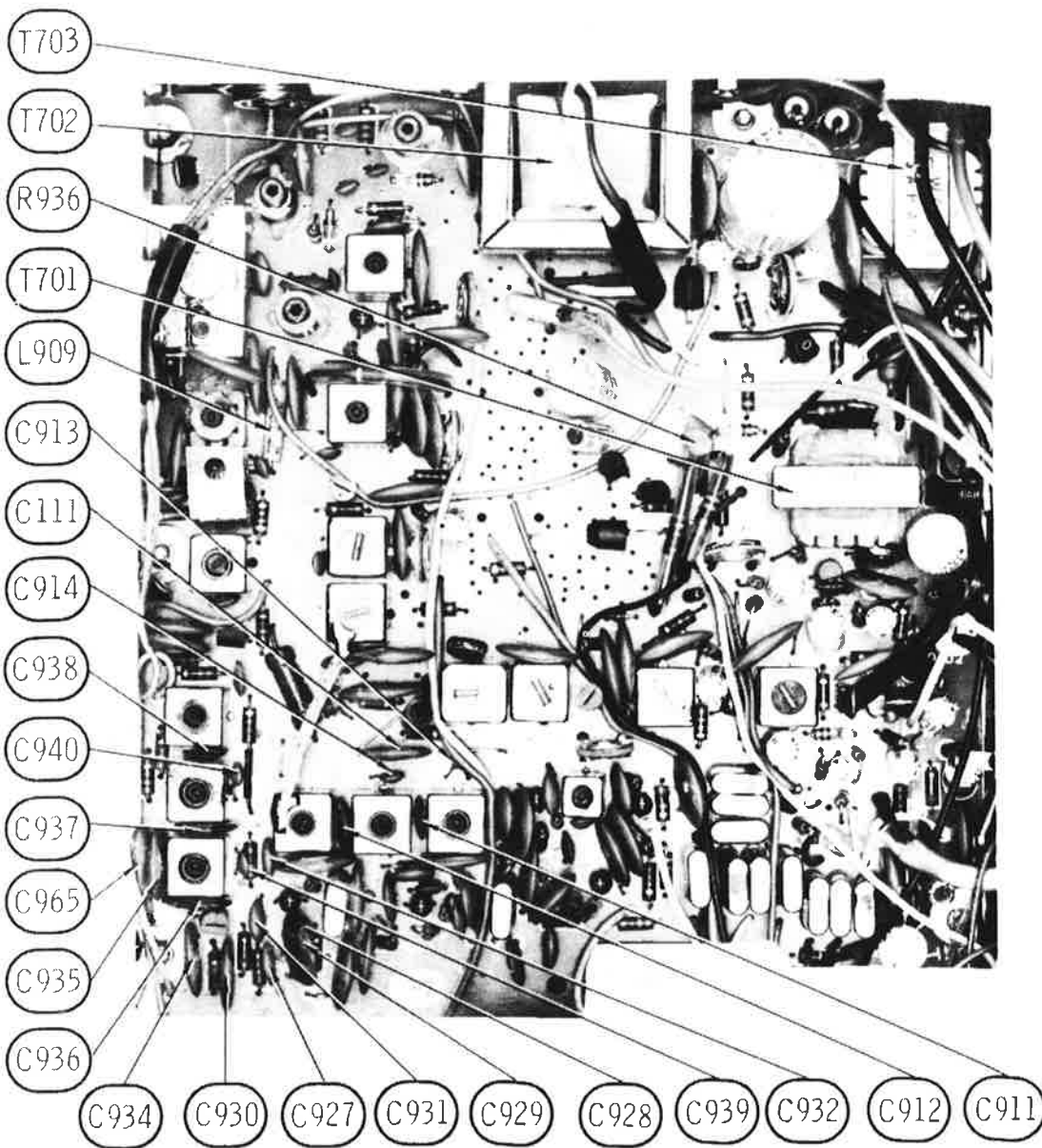


REALISTIC MODELS TRC-30/A

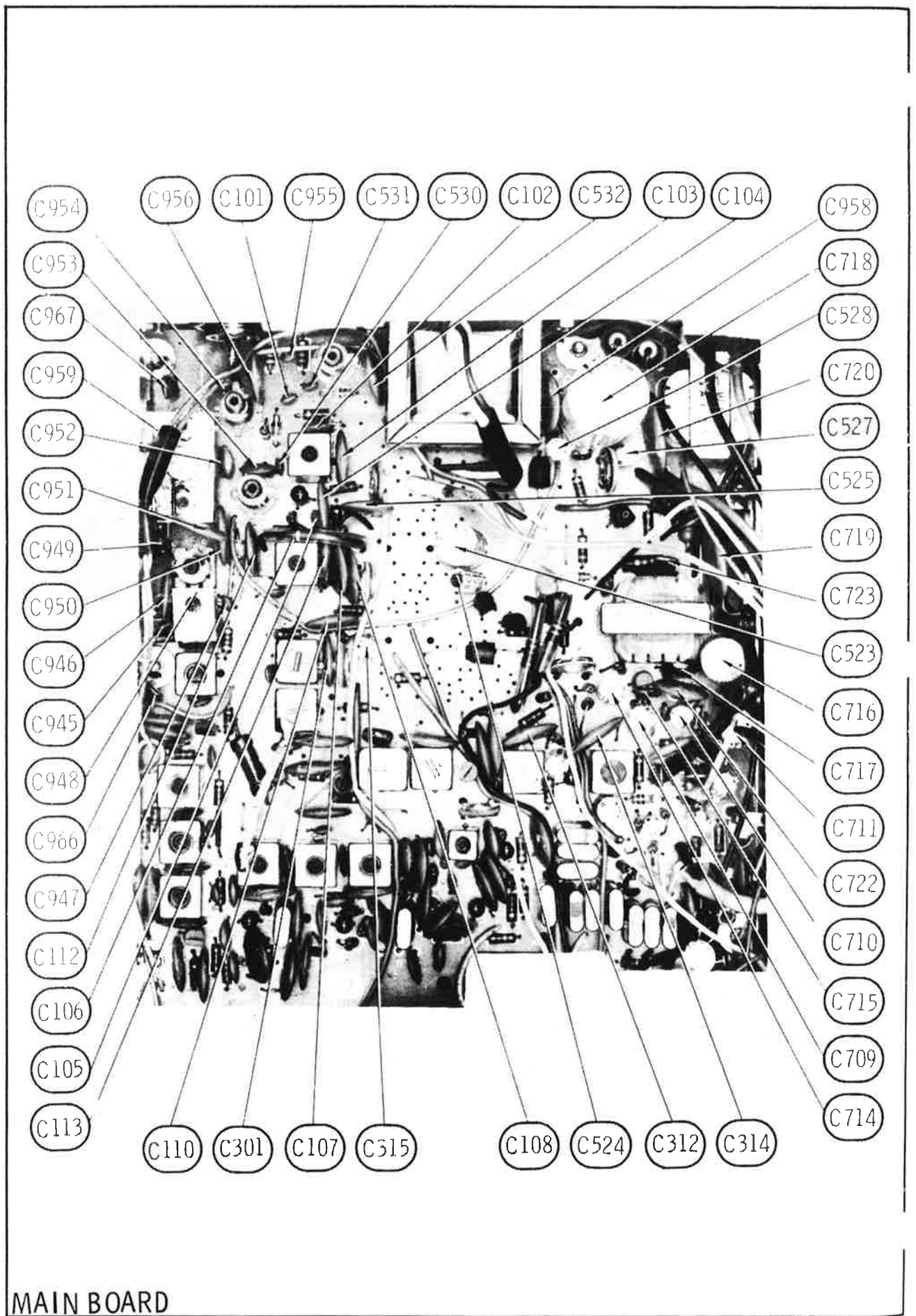
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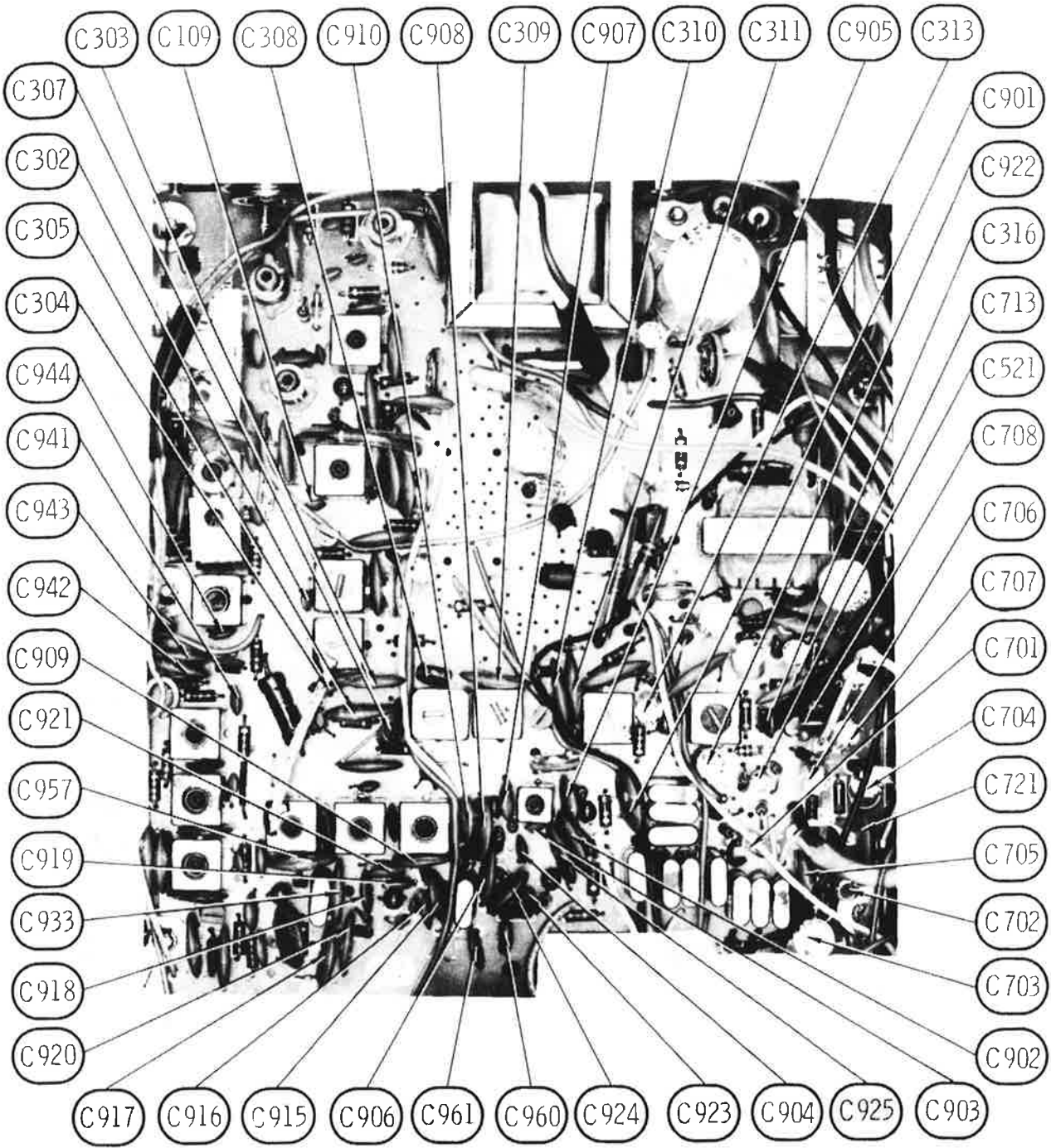
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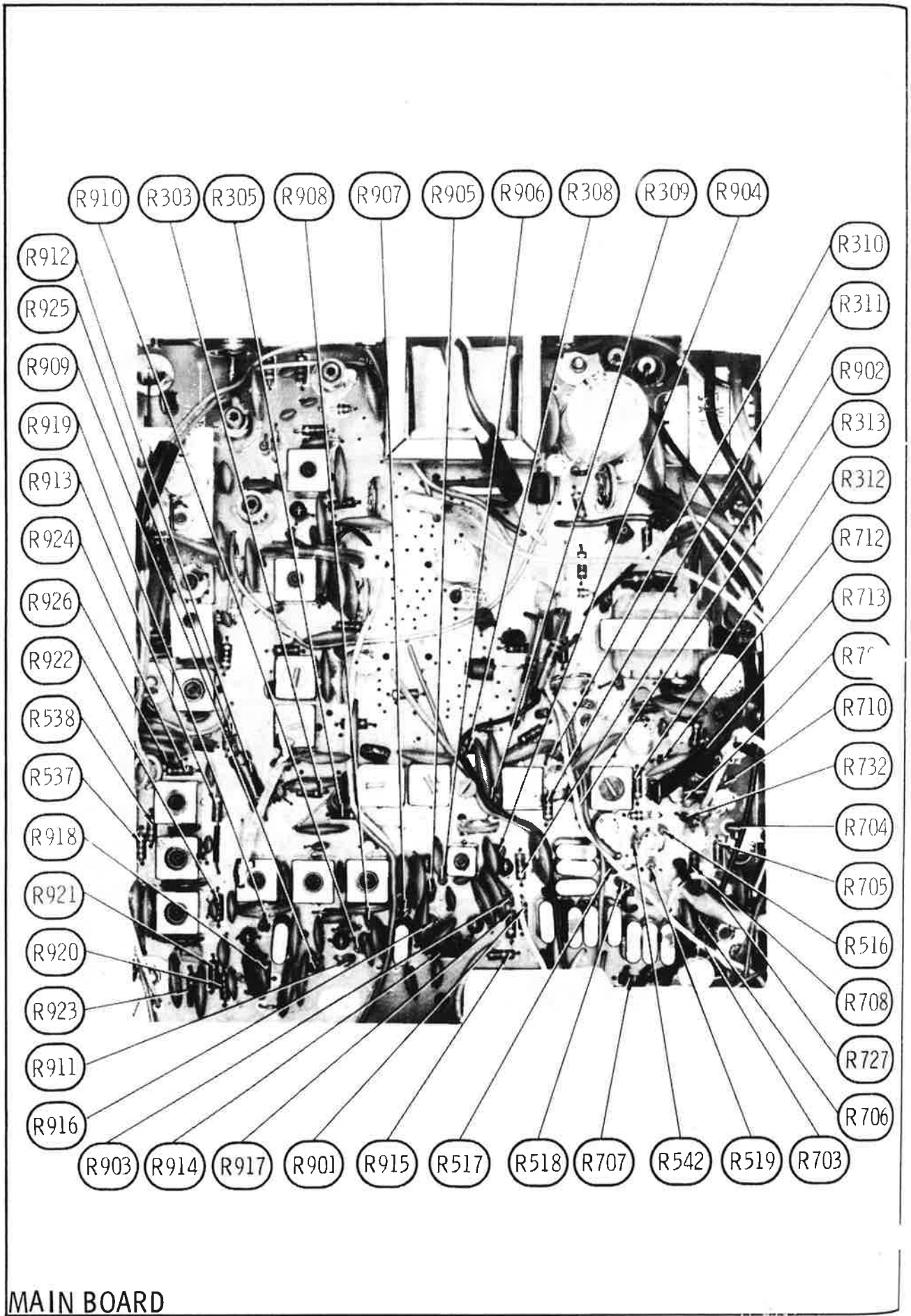
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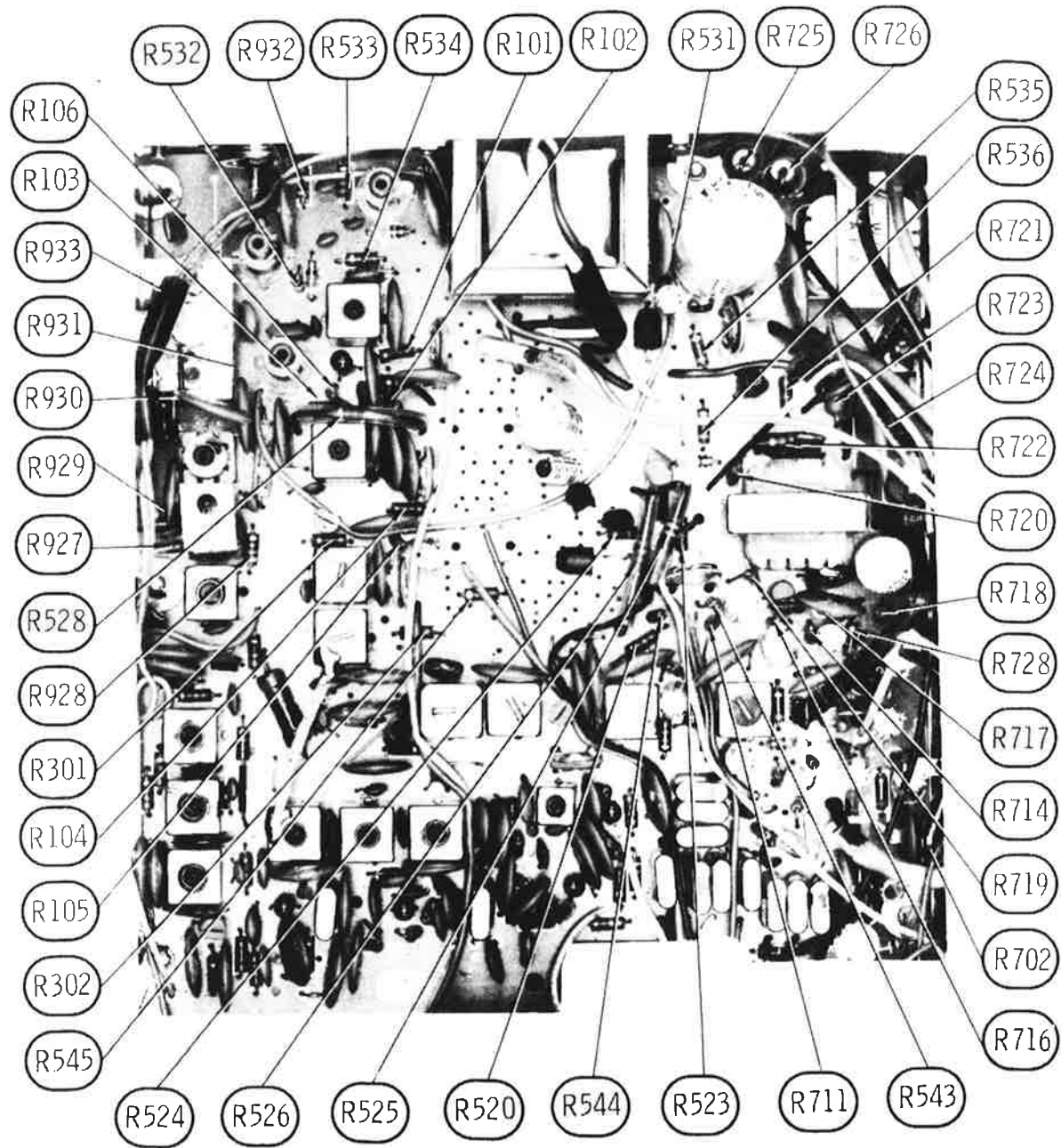
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MAIN BOARD



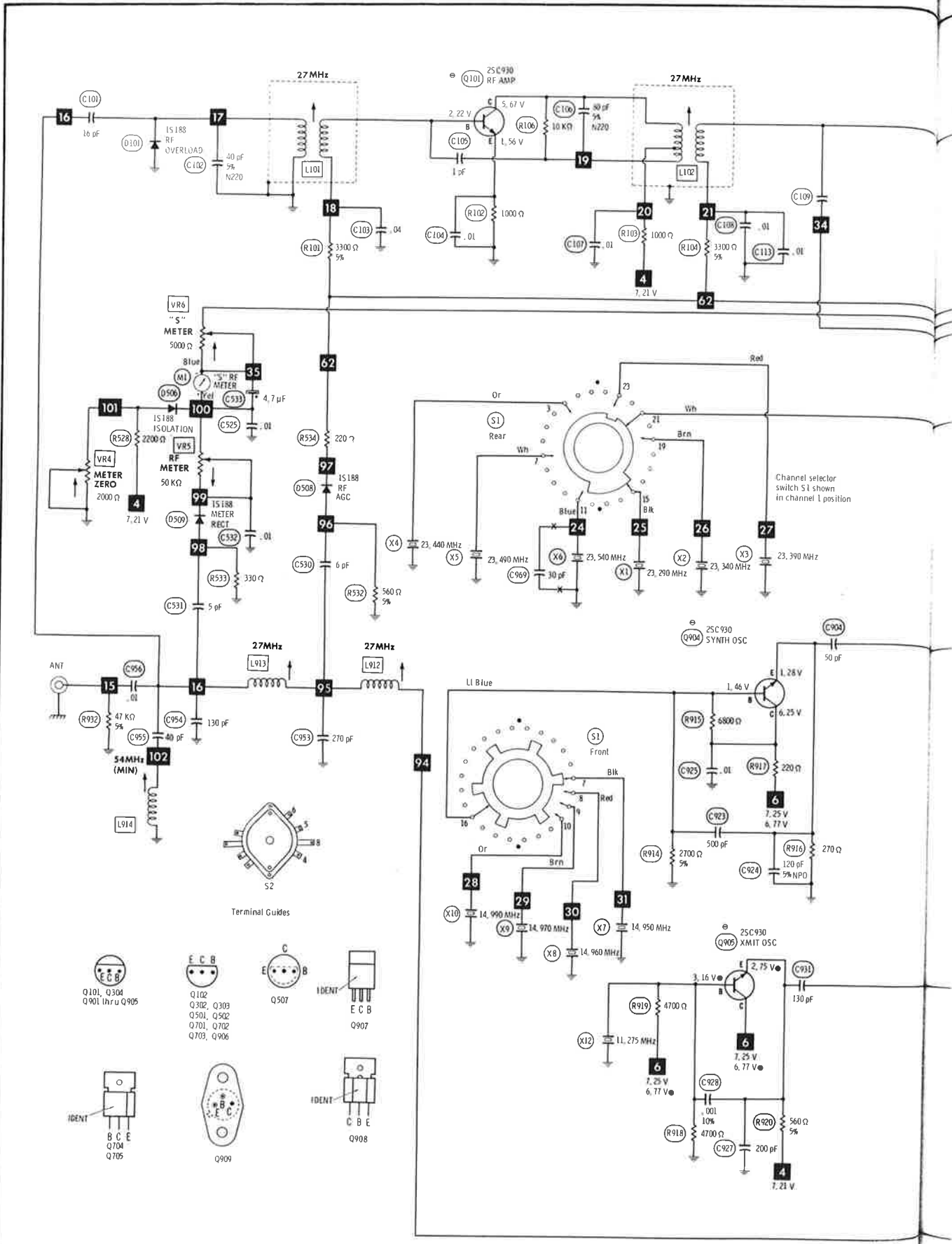
MAIN BOARD



REALISTIC MODELS TRC-30/A

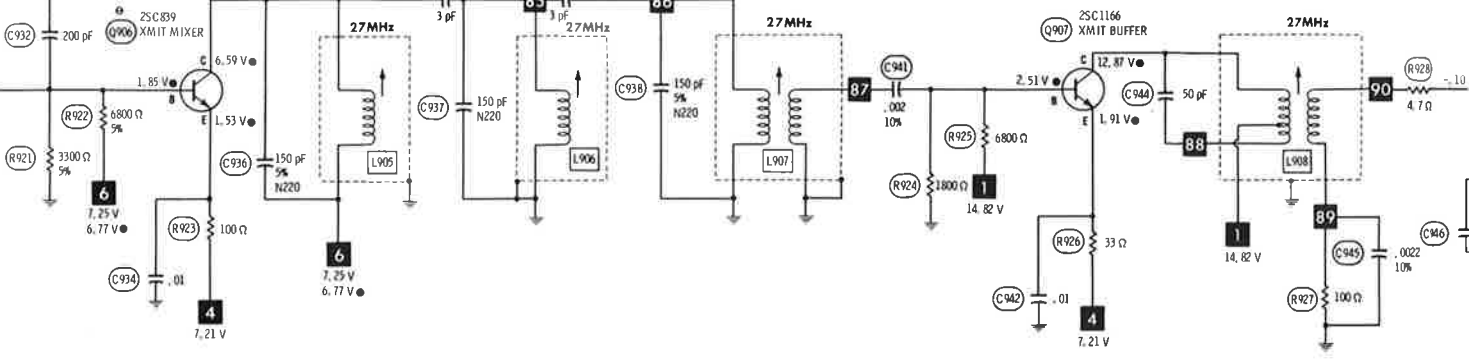
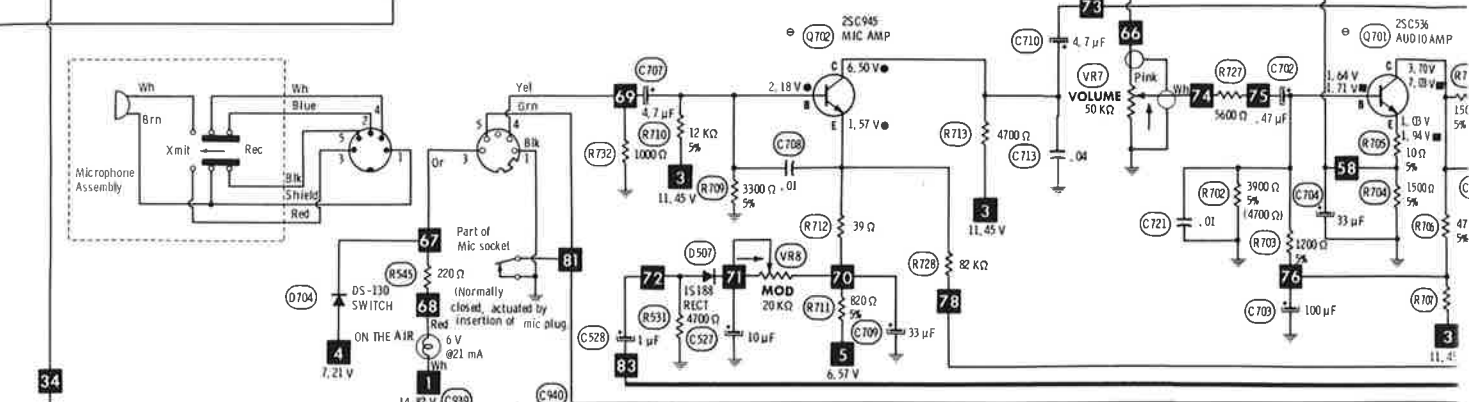
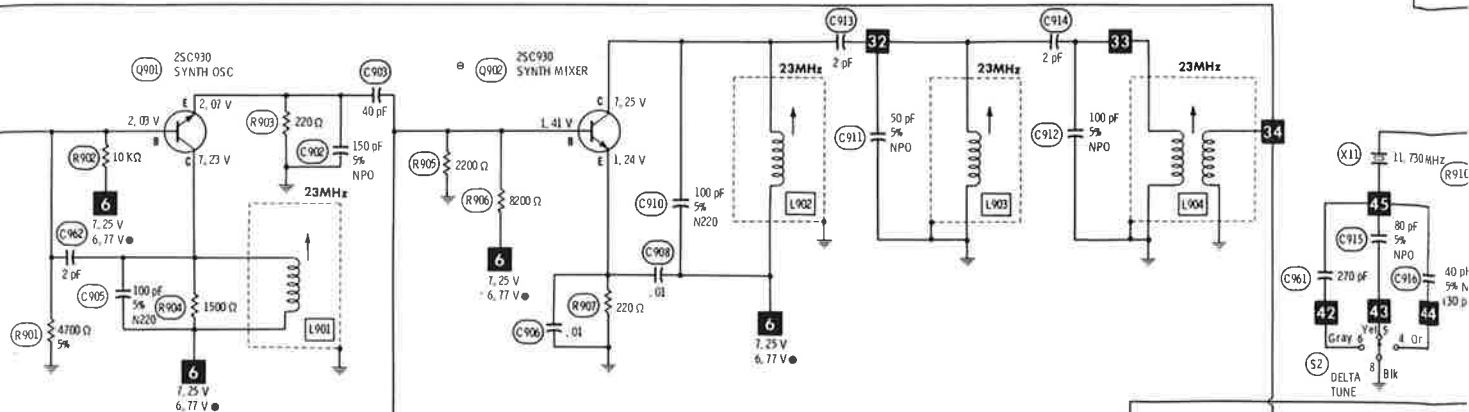
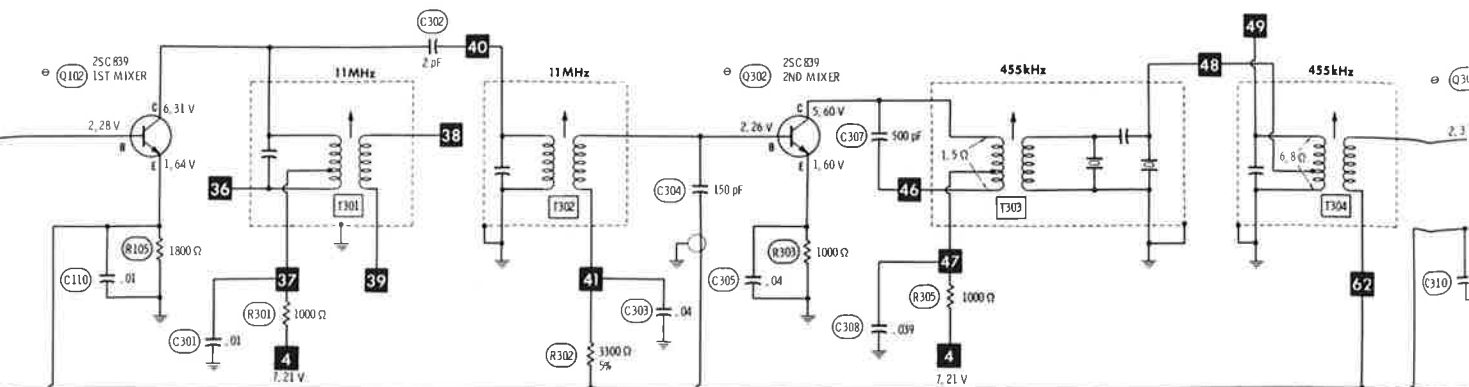
MAIN BOARD





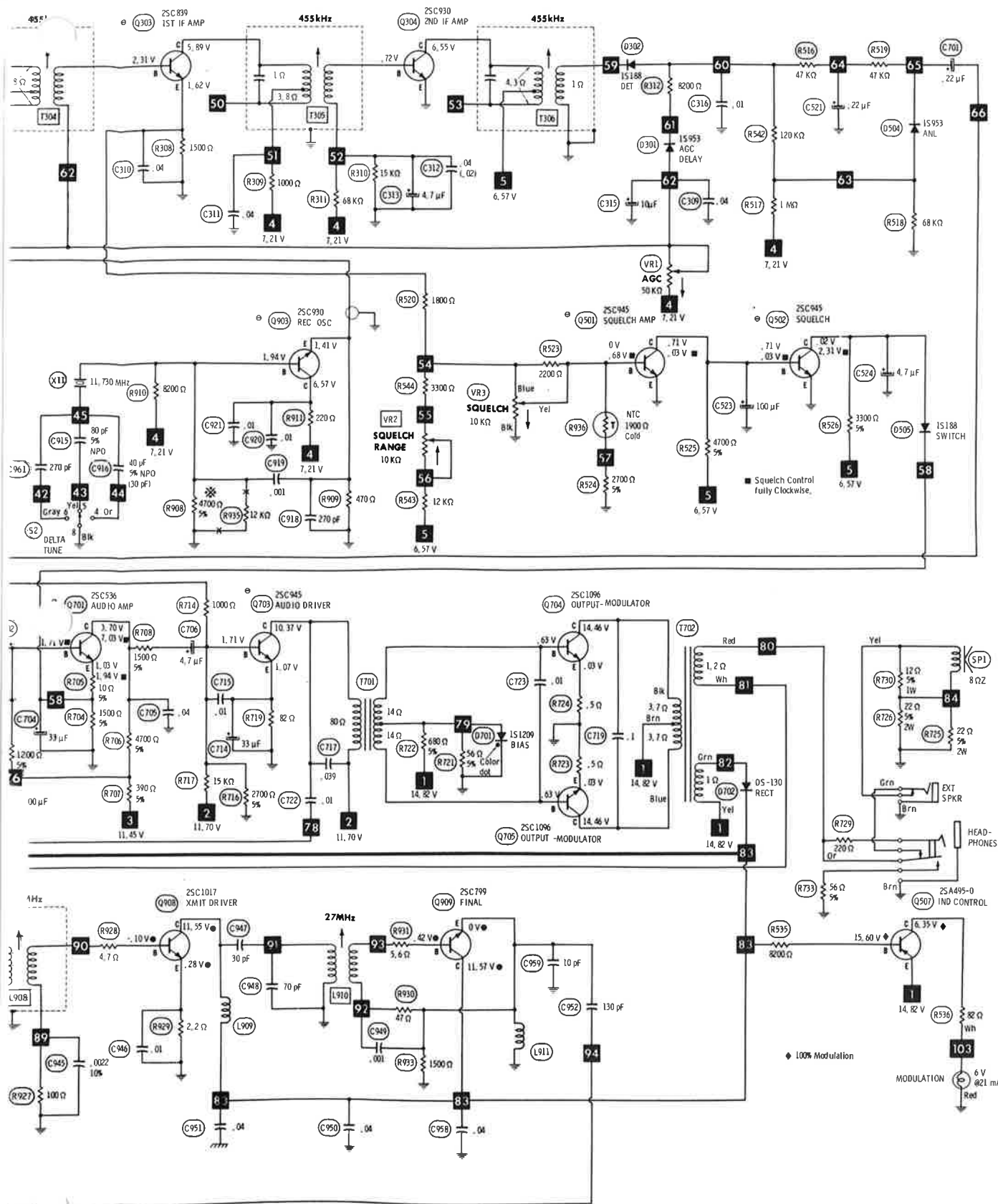
A PHOTOFAC STANDARD NOTATION SCHEMATIC  
 WITH CIRCUITRACE  
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2018  
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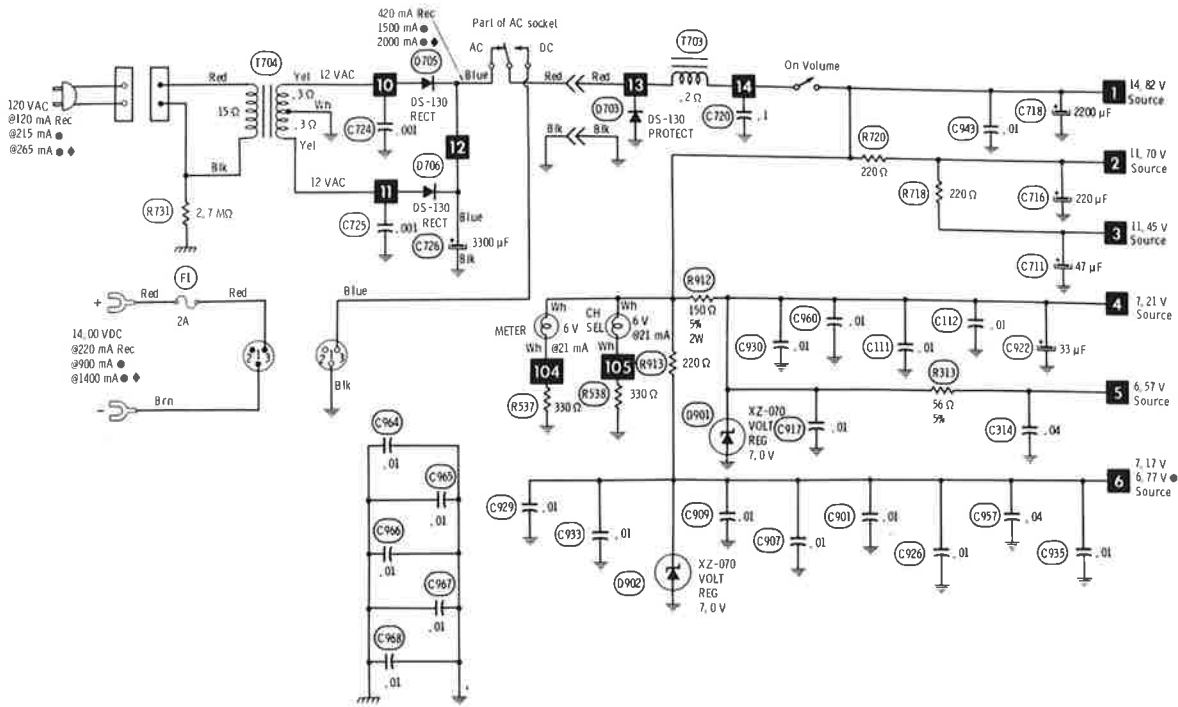
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120 VAC  
 @120 mA Rec  
 @215 mA  
 @265 mA

- Circuitry not used
- - - Circuitry used in
- See parts list
- ⊗ Nominal value
- ⊕ Ground
- Chassis
- ▽ Common tie point
- Measurements with s
- Squelch fully clo.
- Transmit
- Supply voltage main
- Voltages measured
- Controls adjusted for
- Arrow at control ind
- Terminal identificatic
- Resistors are 1/2 W
- Value in ( ) used in s





—\*— Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

\* Nominal value

⊕ Ground

⏏ Chassis

▽ Common tie point

Measurements with switching as shown unless noted:

■ Squelch fully clockwise

● Transmit

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Arrow at control indicates direction of advance.

Terminal identification may not be found on unit.

Resistors are 1/2W or less, 5% unless noted.

Value in ( ) used in some versions.

Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X7	7	X2, X9	13	X4, X7	19	X5, X9
2	X1, X8	8	X2, X10	14	X4, X8	20	X5, X10
3	X1, X9	9	X3, X7	15	X4, X9	21	X6, X7
4	X1, X10	10	X3, X8	16	X4, X10	22	X6, X8
5	X2, X7	11	X3, X9	17	X5, X7		
6	X2, X8	12	X3, X10	18	X5, X8	23	X6, X10

REALISTIC MODELS TRC-30/A



# PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

## SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D101	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D301	1S953		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D302	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D504	1S953		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D505	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D506	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D507	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D508	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D509	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D701	1S1209		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D702	DS130		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D703	DS130		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D704	DS130		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D705	DS130		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D706	DS130		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D901	XZ070		GEZD-6.8	Z1206	ZB6.8	HEPZ0409	RE 110	SK3058	RT-238	ECG5071
D902	7V Zener XZ070		GEZD-6.8	Z1206	ZB6.8	HEPZ0409	RE 110	SK3058	RT-238	ECG5071
Q101	2SC930		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q102	2SC839(1)		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q102	2SC839		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q302	2SC930(1)		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q302	2SC839		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q303	2SC930(1)		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q303	2SC839		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q304	2SC930(1)		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q304	2SC839		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q501	2SC945		GE-18	(IR)2SC945	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q501	2SC372(1)		GE-20	(IR)2SC372	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q502	2SC945		GE-18	(IR)2SC945	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q502	2SC372(1)		GE-20	(IR)2SC372	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q507	2SA495-0		GE-21	TR-30	PTC103	HEPS0013	RE 26	SK3114	RT-106	ECG159
Q701	2SC536		GE-62	(IR)2SC536	PTC121	HEPS0016	RE 64	SK3124	RT-107A	ECG199
Q701	2SC372(1)		GE-20	(IR)2SC372	PTC121	HEPS0015	RE 13	SK3018	RT-108	ECG229
Q701	2SC945(1)		GE-18	(IR)2SC945	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q702	2SC945		GE-18	(IR)2SC945	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q702	2SC372(1)		GE-20	(IR)2SC372	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q703	2SC945		GE-18	(IR)2SC945	PTC121	HEPS0015	RE 13	SK3018	RT-108	ECG229
Q703	2SC372(1)		GE-20	(IR)2SC372	PTC121	HEPS0015	RE 13	SK3018	RT-108	ECG229
Q704	2SC1096		GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186
Q705	2SC1096 (2)		GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186
Q901	2SC930		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q902	2SC930		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q902	2SC839(1)		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q903	2SC930		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q903	2SC839(1)		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q904	2SC930		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q904	2SC839(1)		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q905	2SC930		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q905	2SC839(1)		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q906	2SC839		GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-108	ECG229
Q906	2SC930(1)		GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q907	2SC1166		GE-18	TR-63	PTC143	HEPS5026	RE 23	SK3024	RT-110	ECG298
Q908	2SC1017(3)		GE-215					SK3024	RT-110	ECG298
Q909	2SC799(4)				PTC158			SK3049	RT-186	ECG237

(1) Alternate.

(2) Rating 10 watts @ 2 amps.

(3) Rating 4 watts @ 1 amp.

(4) Rating 10 watts @ 3 amps.

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C313	4.7 6.3V		RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C315	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C521	.22 10V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	TVA-1150
C523	100 16V		CTA-1450		WBR50-450	TC79B	TVA-1713
C524	4.7 16V		RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C527	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C528	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C533	4.7 6.3V		RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C701	.22 10V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	TVA-1150
C702	.47 10V		RME-A-J-001	EP30-1	PC1-50	VTR47B63	EV-1310
C703	100 6.3V		RME-E-E-100	EP6-100	PC100-10	MTV100CB6	EV-1030
C704	33 10V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C706	4.7 6.3V		RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C707	4.7 6.3V		RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C709	33 10V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C710	4.7 6.3V		RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C711	47 6.3V		RME-C-B-050	EP6-50	PC50-10	VTT47A6	EV-1026
C714	33 6.3V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C716	220 16V		RME-J-E-250	EP15-250	PC250-25	VTT220G16	EV-1240
C718	2200 16V		ME-G2000	EA15-2000	DD0003A	TC1520C	TVA-1175.3
C726	3300 25V				DD0003A	TC50300	TVA-1214
C922	33 10V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

2. The second part of the document outlines the various methods used to collect and analyze data. It includes a detailed description of the sampling process, which was designed to be representative of the entire population. The data was then analyzed using statistical techniques to identify trends and patterns.

3. The third part of the document presents the results of the study. It shows that there is a significant correlation between the variables being studied. This finding is supported by the statistical analysis and is consistent with previous research in the field.

4. The final part of the document discusses the implications of the study and provides recommendations for future research. It suggests that further investigation is needed to explore the underlying causes of the observed trends and to develop more effective strategies for addressing the issues at hand.

100	100
200	200
300	300
400	400
500	500
600	600
700	700
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1100	1100
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7200	7200
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7400	7400
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7900	7900
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8100	8100
8200	8200
8300	8300
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8600	8600
8700	8700
8800	8800
8900	8900
9000	9000
9100	9100
9200	9200
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9400	9400
9500	9500
9600	9600
9700	9700
9800	9800
9900	9900
10000	10000

# PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

## CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	16		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
C102	40 5% N220		* CCD-403			*	10TCR-Q39
C103	.04		CCD-103	DC-103	GP10000	GP140	5GA-S40
C104	.01					MAG5011	2SS-S10
C105	1					CN0510	10TCC-V10
C106	80 5% N220		*			*	10TCR-Q82
C107	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C108	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C109	30		CCT0-300				10TCC-Q30
C110	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C111	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C112	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C113	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C301	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C302	2		CCT0-2R2	DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C303	.04		CCD-403			GP140	5GA-S40
C304	150		CCD-151	DD-151		CN0315	10TCC-T15
C305	.04		CCD-403			GP140	5GA-S40
C307	500		DM15-501J		CD15FD501J03		
C308	.039		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C309	.04		CCD-403			GP140	5GA-S40
C310	.04		CCD-403			GP140	5GA-S40
C311	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C312	.04			DC-104	MGP1	MAG5001	TG-P10
C314	.04			DC-104	MGP1	MAG5001	TG-P10
C316	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C525	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C530	6			DTZ-6R8	NPO6P8		10TCC-V68
C531	5		CCT0-050				10TCC-V50
C532	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C705	.04		CCD-403			GP140	5GA-S40
C708	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C713	.04		CCD-403			GP140	5GA-S40
C715	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C717	.039		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C719	.1			DC-104	MGP1	MAG5001	TG-P10
C720	.1			DC-104	MGP1	MAG5001	TG-P10
C721	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C722	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C723	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C724	.001 150VAC						
C725	.001 150VAC						
C901	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C902	150 5% NPO			DTZ-150		CN0315	10TCC-T15
C903	40		CCT0-390			CN0439	10TCC-Q39
C904	50		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C905	100 5% N220		*			*	10TCR-T10
C906	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C907	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C908	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C909	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C910	100 5% N220		*			*	10TCR-T10
C911	50 5% NPO			DTZ-50	NP050	CN0450	10TCC-Q50
C912	100 5% NPO			DTZ-100	NP0100	CN0310	10TCC-T10
C913	2		CCT0-2R2	DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C914	2		CCT0-2R2	DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C915	80 5% NPO			DTZ-82	NP082	CN0482	10TCC-Q82
C916	40 5% NPO		CCT0-390			CN0439	10TCC-Q39
C917	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C918	270			DTZ-270			10TCC-T27
C919	.001		CCD-102	DD-102		GP210	10TS-D10
C920	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C921	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C923	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C924	120 5% NPO			DTZ-120		CN0312	10TCC-T12
C925	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C926	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C927	200		CCD-201	DD-201	GP200	GP320	10TS-T20
C928	.001 10%		CCD-202			GP220	10TS-D20
C929	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C930	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C931	130		CCT0-121	DTZ-120		CN0312	10TCC-T12
C932	200		CCD-201	DD-201	GP200	GP320	10TS-T20
C933	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C934	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C935	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C936	150 5% N220		*			*	10TCR-T15
C937	150 5% N220		*			*	10TCR-T15
C938	50 5% N220		*			*	
C939	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C960	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C941	.002 10%		CCD-202			GP220	10TS-D20
C942	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10

REALISTIC MODELS TRC-30/A



## PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

### CAPACITORS(cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C943	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C944	50		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C945	.002 10%		CCD-102	DD-102		GP210	10TS-D10
C946	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C947	30					CN0427	10TCC-Q27
C948	70		CCD-680	DD-680	GP468	GP468	10TS-Q68
C949	.001		1MDF-1-102	CPJ-102	DPMS6D1	EFW1A210	1PB-D10
C950	.04		CCD-403			GP140	5GA-S40
C951	.04		CCD-403			GP140	5GA-S40
C952	130		CCTO-121	DTZ-120		CN0312	10TCC-T12
C953	270		CCD-271	DD-271	GP270	GP327	10TS-T27
C954	130		CCTO-121	DTZ-120		CN0312	10TCC-T12
C955	40		CCTO-390			CN0439	10TCC-Q39
C956	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C957	.04		CCD-403			GP140	5GA-S40
C958	.04		CCD-403			GP140	5GA-S40
C959	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C960	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C961	270		CCD-271	DD-271	GP270	GP327	10TS-T27
C962	2		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C964	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C965	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C966	.01		1MDF-1-103	CPJ-103	DPMS4S1	EFW1A110	1PB-S10
C967	.01		1MDF-1-103	CPJ-103	DPMS4S1	EFW1A110	1PB-S10
C968	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C969	30		CCTO-300				10TCC-Q30

\* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

### CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	AGC	50K	P-6203	TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR2	Squelch Range	10K	P-6202	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
VR3	Squelch	10K	P-0742				
VR4	Meter Zero	2000	P-6200	TSV-25K (2) or T-2500 (2)	C-252 (2)	MTC23L1 (2)	X201R252B (2)
VR5	AF Meter	50K	P-6203	TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR6	"S" Meter	5000	P-6201	TSV-5K (2) or T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
VR7	Volume/Switch	50K					
VR8	Modulation	20K		T-20K (2) or TSV-25K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)

(2) Cut off one of the end terminals and bend to fit PC board.

### RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
R936	1900 Cold NTC		SDT-500				

### COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L101	RF Input (27MHz)	CA-2991	4-257R326		
L102	RF Output (27MHz)	CA-4498	4-259R828		
L901	Synth. Osc (23MHz)	CA-4509	4-258R813A		
L902	Synth. Mixer Out (23MHz)	CA-4499	4-259R825		
L903	Harmonic Sup (23MHz)	CA-4500	4-259R826		
L904	Harmonic Sup (23MHz)	CA-4501	4-259R827		
L905	Harmonic Sup (27MHz)	CA-4502	4-259R801		
L906	Harmonic Sup (27MHz)	CA-4502	4-259R801		
L907	Xmit Mixer (27MHz)	CA-4503	4-259R802		
L908	Xmit Buffer (27MHz)	CA-4504	4-259R10904A		
L909	RF Choke	CB-2206	4-253R701		
L910	Xmit Driver (27MHz)	CA-4508	4-259R823		
L911	RF Choke	CB-2207	4-255R103		

TRANSFORMER		PART NO.		DATE	
1	2	3	4	5	6
7	8	9	10	11	12

TRANSFORMER		PART NO.		DATE	
1	2	3	4	5	6
7	8	9	10	11	12

## PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

### COILS (RF-IF)(cont)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L912	Final, Amp (27MHz)	CA-4505	4-259R805		
L913	Pi Filter (27MHz)	CA-4506	4-259R806		
L914	TVI Trap (54MHz)	CA-4507	4-259R807		
T301	11MHz IF	CA-7438	4-256R717		
T302	11MHz IF	CA-7439	4-256R714		
T303	2nd Mixer Output (455kHz)	C-0540	4-256R197		
T304	Input IF (455kHz)	CA-7352	4-256R198		
T305	Interstage IF (455kHz)	CA-7350	4-256R703		
T306	Output IF (455kHz)	CA-7351	4-256R711		

### FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T703	1400mA	.2	2.7mH	CB-2208 R-W6384 (1)			(1) Number on unit

### TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	

### TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	

### TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	

REALISTIC MODELS TRC-30/A

## PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

### SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" X 5" PM, 8 ohm	S-4517	35A0528	

### FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	2 Amp. Fast Acting	HF-0087		AGC2	HDJ	312002	150145	26-2253

### CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X1	23.290	4-225R809	MA20W23.290	1,2,3,4	X7	14.950	4-225R805	MB90W14.950	1,5,9,13,17,21
X2	23.340	4-225R810	MA20W23.340	5,6,7,8	X8	14.960	4-225R806	MB90W14.960	2,6,10,14,18,22
X3	23.390	4-225R811	MA20W23.390	9,10,11,12	X9	14.970	4-225R807	MB90W14.970	3,7,11,15,19
X4	23.440	4-225R812	MA20W23.440	13,14,15,16	X10	14.990	4-225R808	MB90W14.990	4,8,12,16,20,23
X5	23.490	4-225R813	MA20W23.490	17,18,19,20	X11	11.730	4-225R803	MC90W11.730	Receive
X6	23.540	4-225R814	MA20W23.540	21,22,23	X12	11.275	4-225R804	MC90W11.275	Transmit

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Meter	M0252	Tuning Channel Selector Delta Tune AC Main Rectifier
S1	Switch	S-1138	
S2	Switch	S-1154	
	Socket	J-6279	
	Printed Circuit Board		
	Printed Circuit Board		

### CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Top Lid	Z-2109	Microphone Hanger	M-3072
Compartment Lid	Z-2110	Knob, Volume/Squelch/Delta	K-1686
Escutcheon	Z-2114	Knob, Channel Selector	K-1685
Mobile Mounting Bracket	MB-0107	Channel Dial Scale	G-0180

### ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	M-0253	

### WIRING DATA

General-use Hook-up Wire	Use BELDEN No.	8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No.	17106 (Plastic) or 17126 (Rubber) -6 feet 17109 (Plastic) or 17129 (Rubber) -9 feet
Shielded Antenna Lead	Use BELDEN No.	8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No.	8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene