



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODELS 2B200FM (72 Universal)
 2B201FM (72 Volkswagen)
 2B300MX (72 Universal)
 2B301MX (72 Volkswagen)
 3B200FM (73 Universal)
 3B201FM (73 Volkswagen)
 3B300MX (73 Universal)
 3B301MX (73 Volkswagen)

ALIGNMENT INSTRUCTIONS

Check for specified source voltage.

Use only enough generator output to provide a usable indication.

Suggested Alignment Tools:

GC ELECTRONICS

C103, C106, C117, C201, C202a, C202c,
 L8, L9, T1, T2a, T2b, T3a, T3b 9440

PUSH-BUTTON ADJUSTMENT

1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

BENDIX 1972-73 CUSTOM SERIES

SELECTOR IN AM

	GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	High side thru .1mfd to point A , low side to ground.	262.5KC 400 cycle modulation	High freq. end stop.	Output meter across voice coil.	T3b, T3a T3b, T3a	Adjust for maximum.
2.	Thru dummy antenna (Fig.1) to antenna input.	1610KC	"	"	C202c, C202a, C201	"

With radio installed in car and antenna extended 36", tune in a weak station near 1400KC and adjust C201 for maximum output. Antenna adjustment C201 is located on left rear corner above antenna input.

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

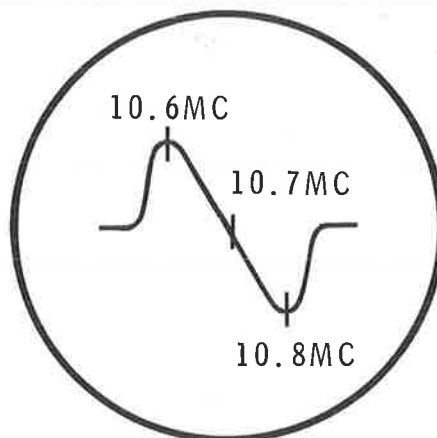
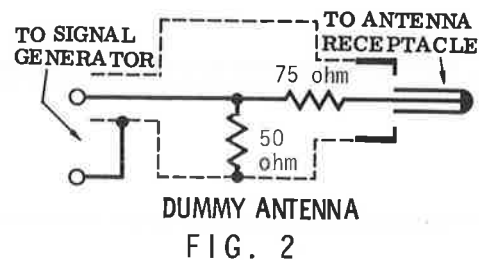
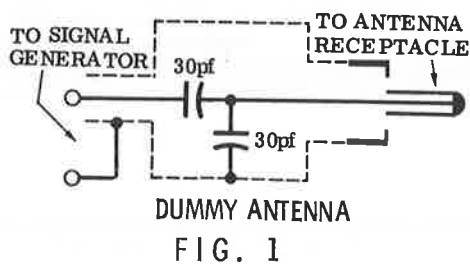
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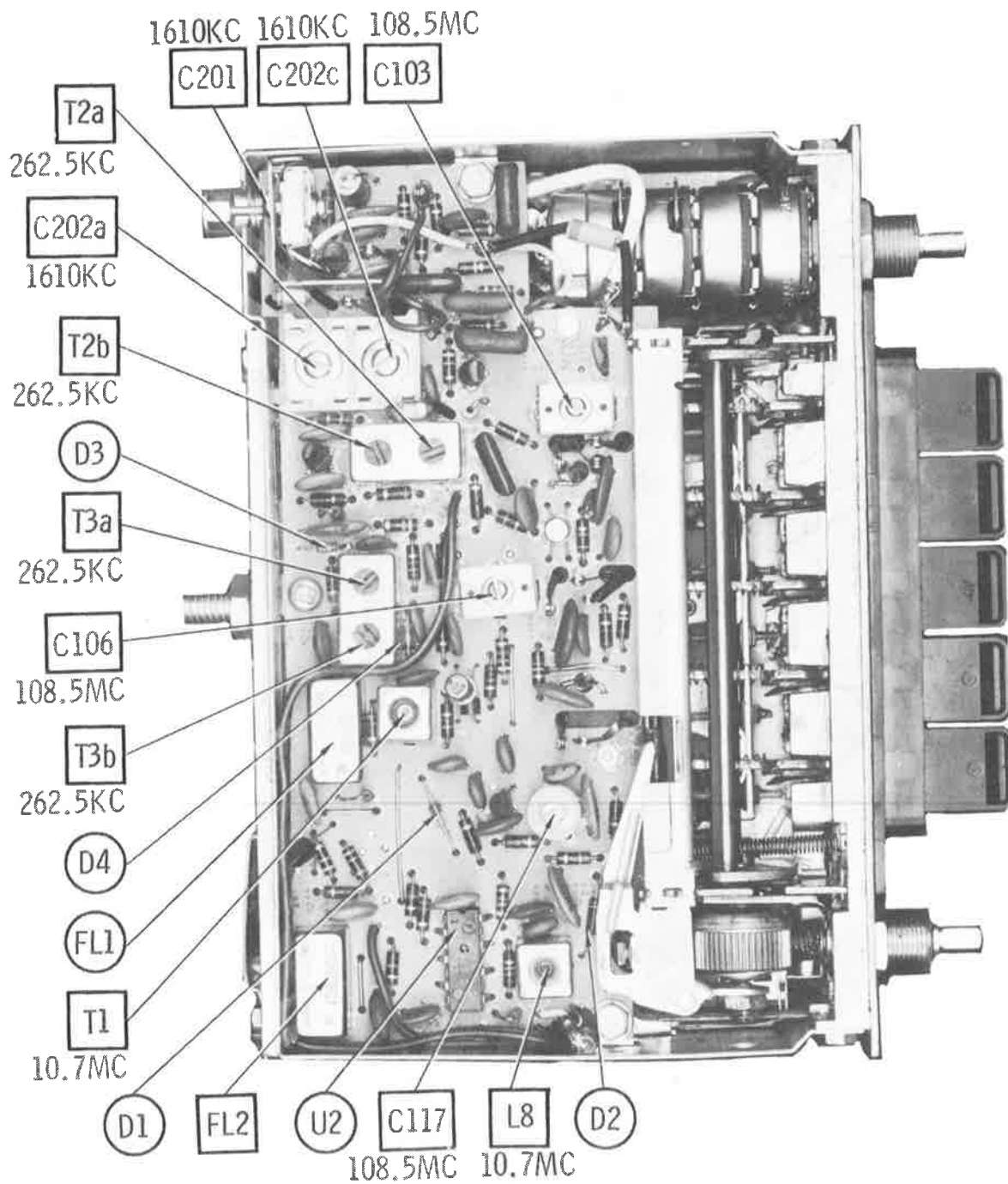
ALIGNMENT INSTRUCTIONS (Continued)

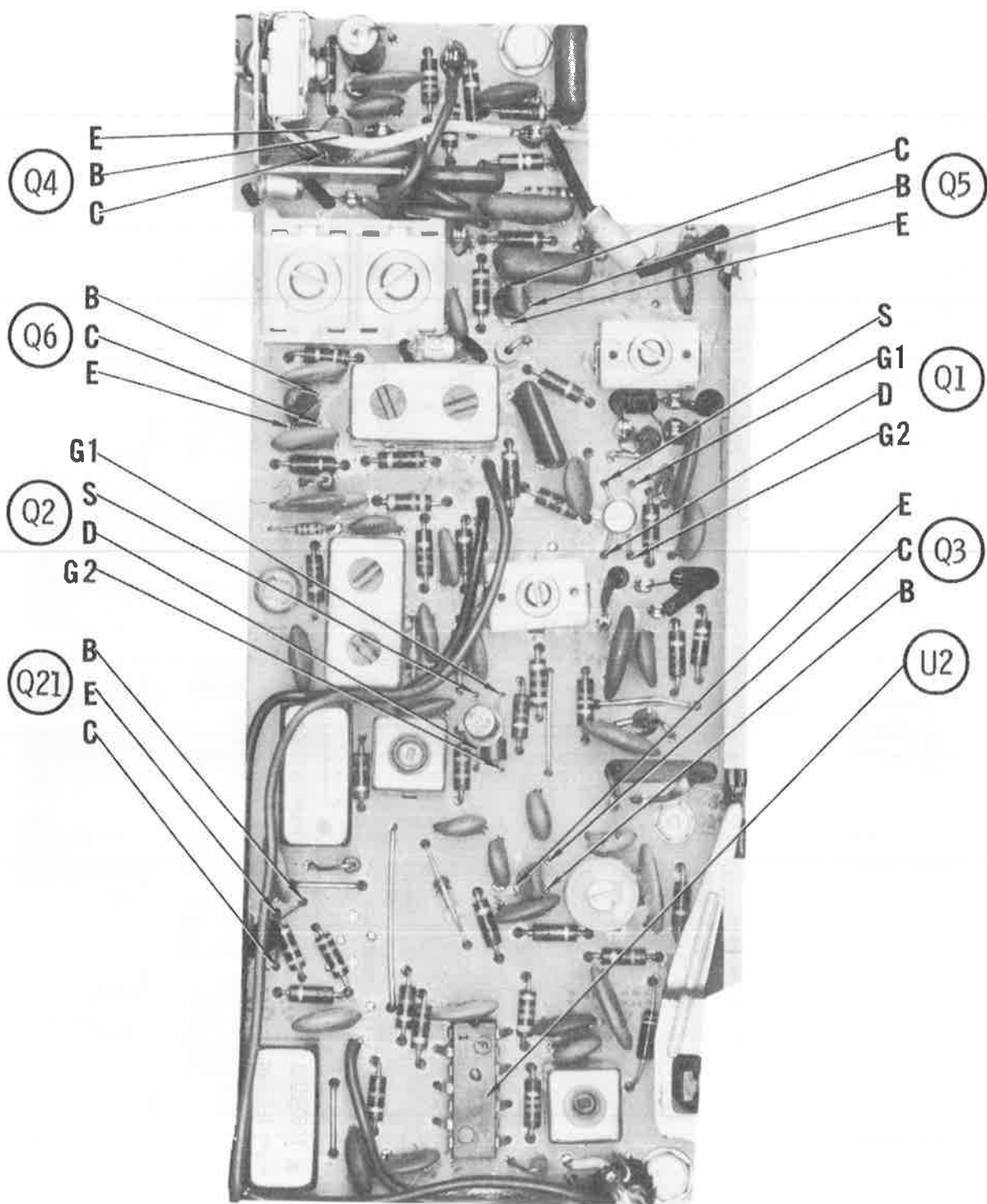
SELECTOR IN FM Dummy Ant (Fig. 2) to Ant Input

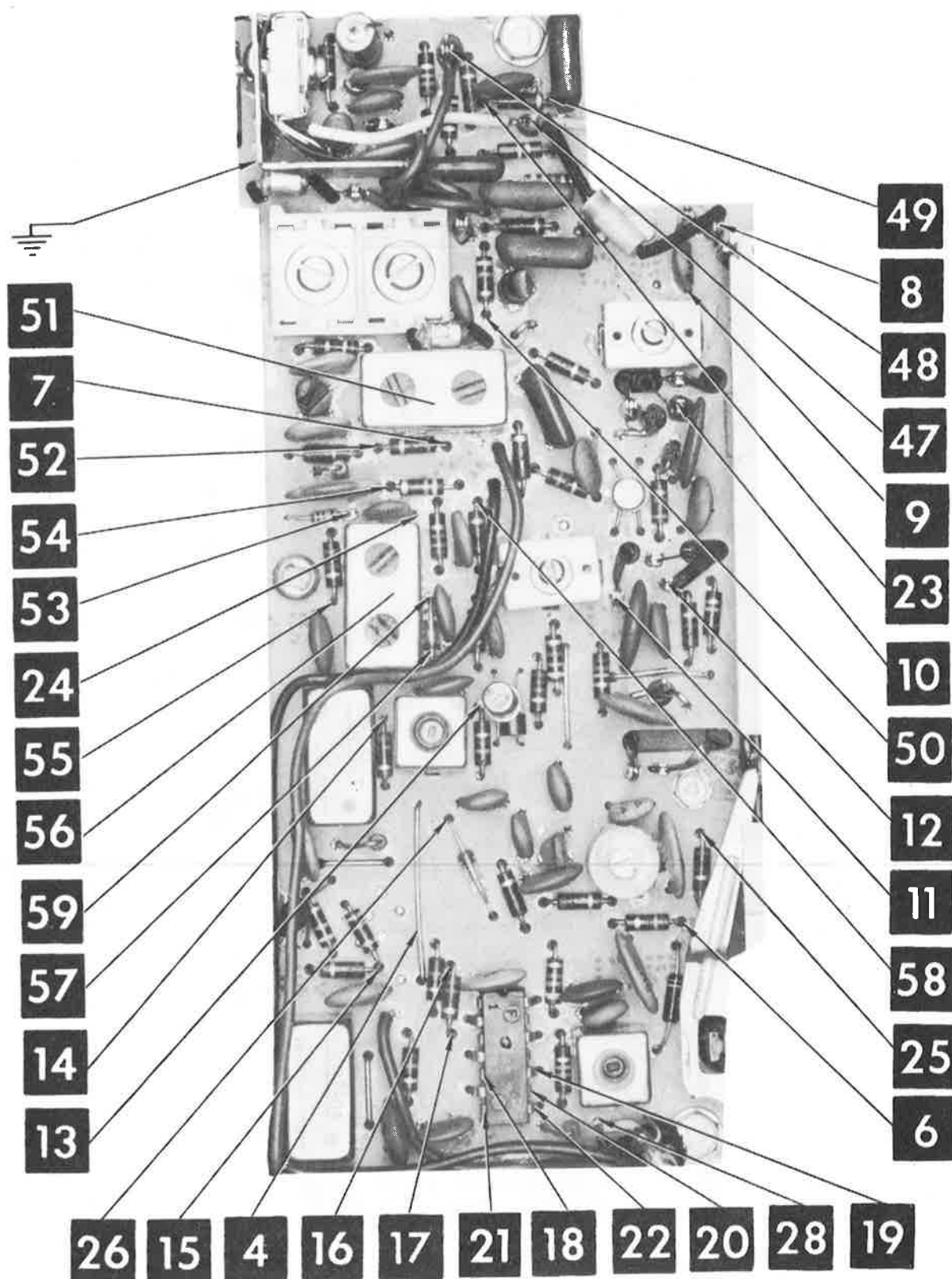
	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
3.	108.5MC (22.5KC Mod.)	108.5MC	Output Meter across voice coil.	C117, C106, C103	Adjust for maximum.
4.	108.5MC (250KC Mod.)	"	Vert. amp of scope to point Φ , low side to ground.	L8	Adjust for linear scope presentation between peaks. REFER TO FIG. 3
5.	108.5MC (75KC Mod.)	"	"	T1	Adjust for maximum audio sine wave. Repeat step 3 if necessary.

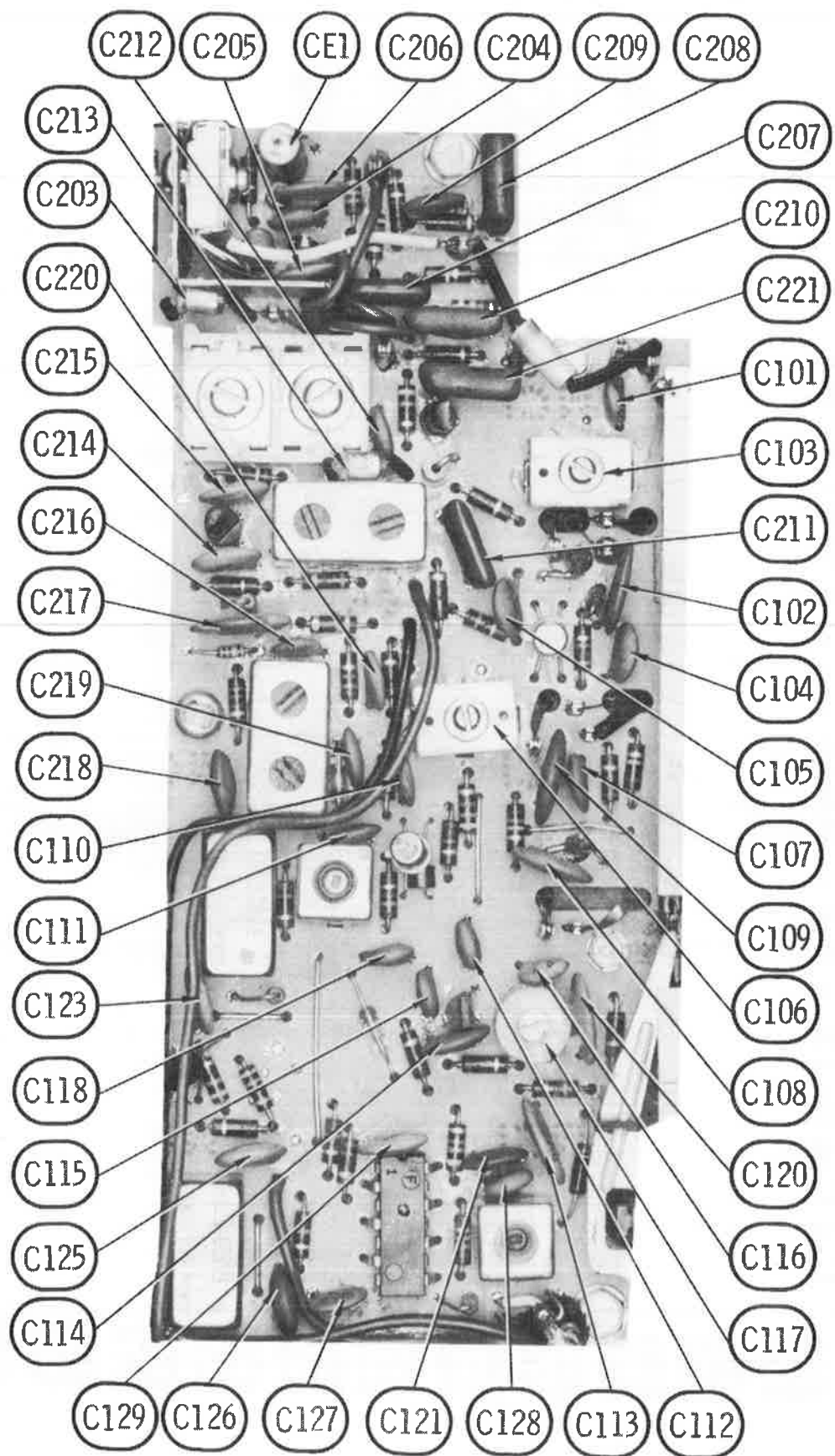
A frequency counter connected thru a 47K resistor to junction of L9, C302 and pin 15 of U3 should read 76KC \pm 50 CPS while adjusting L9 for Multiplex alignment.

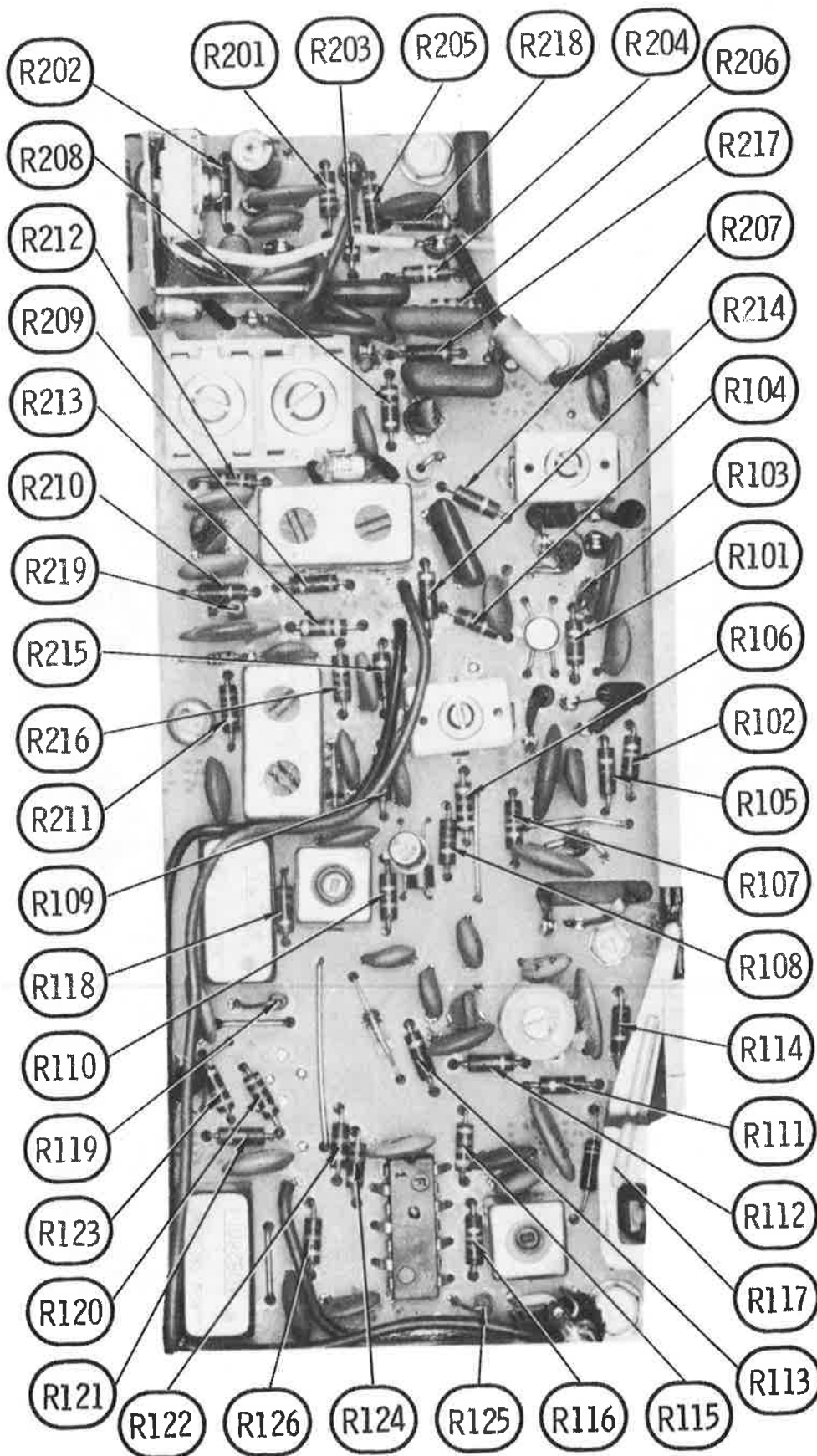


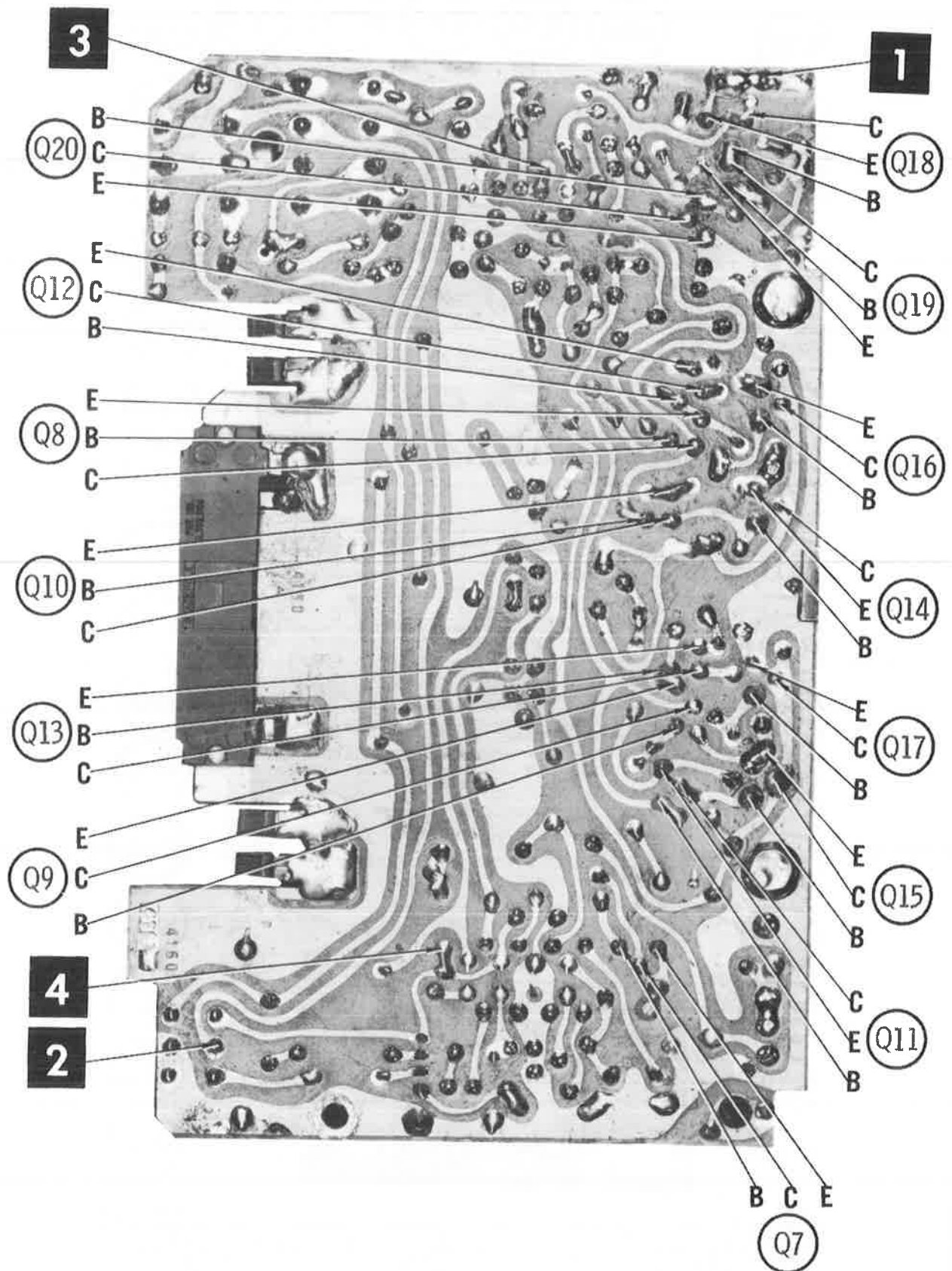




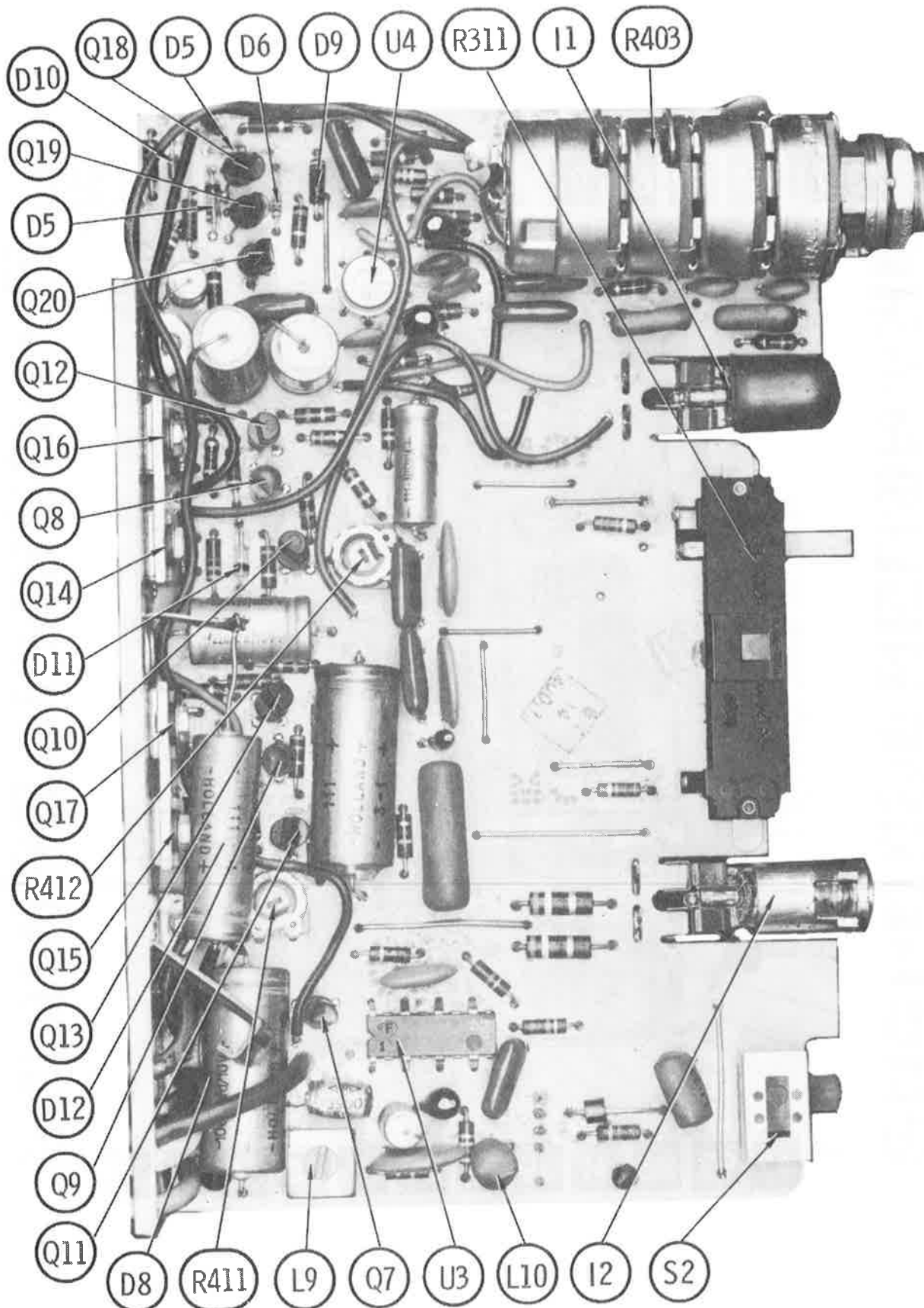




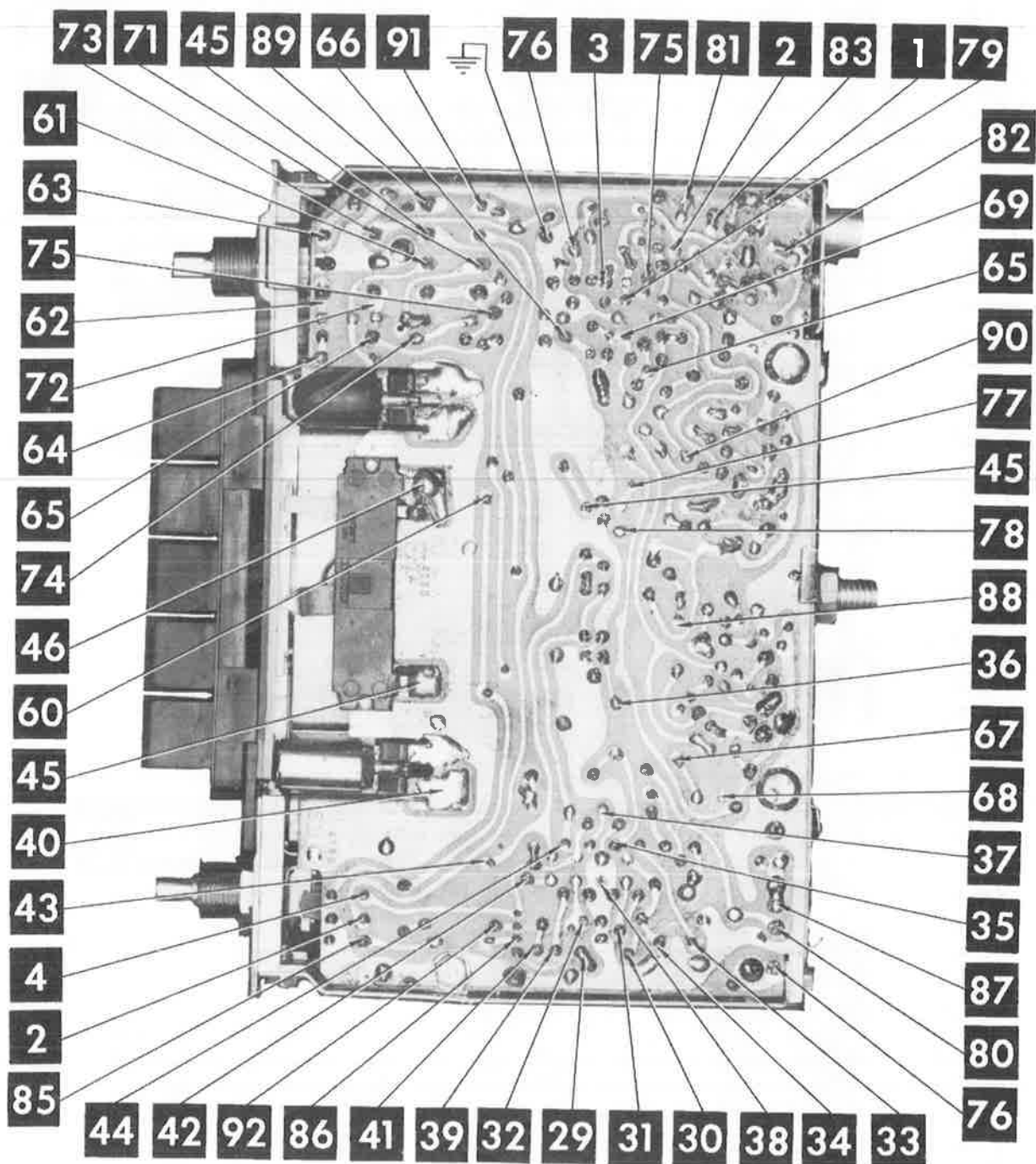




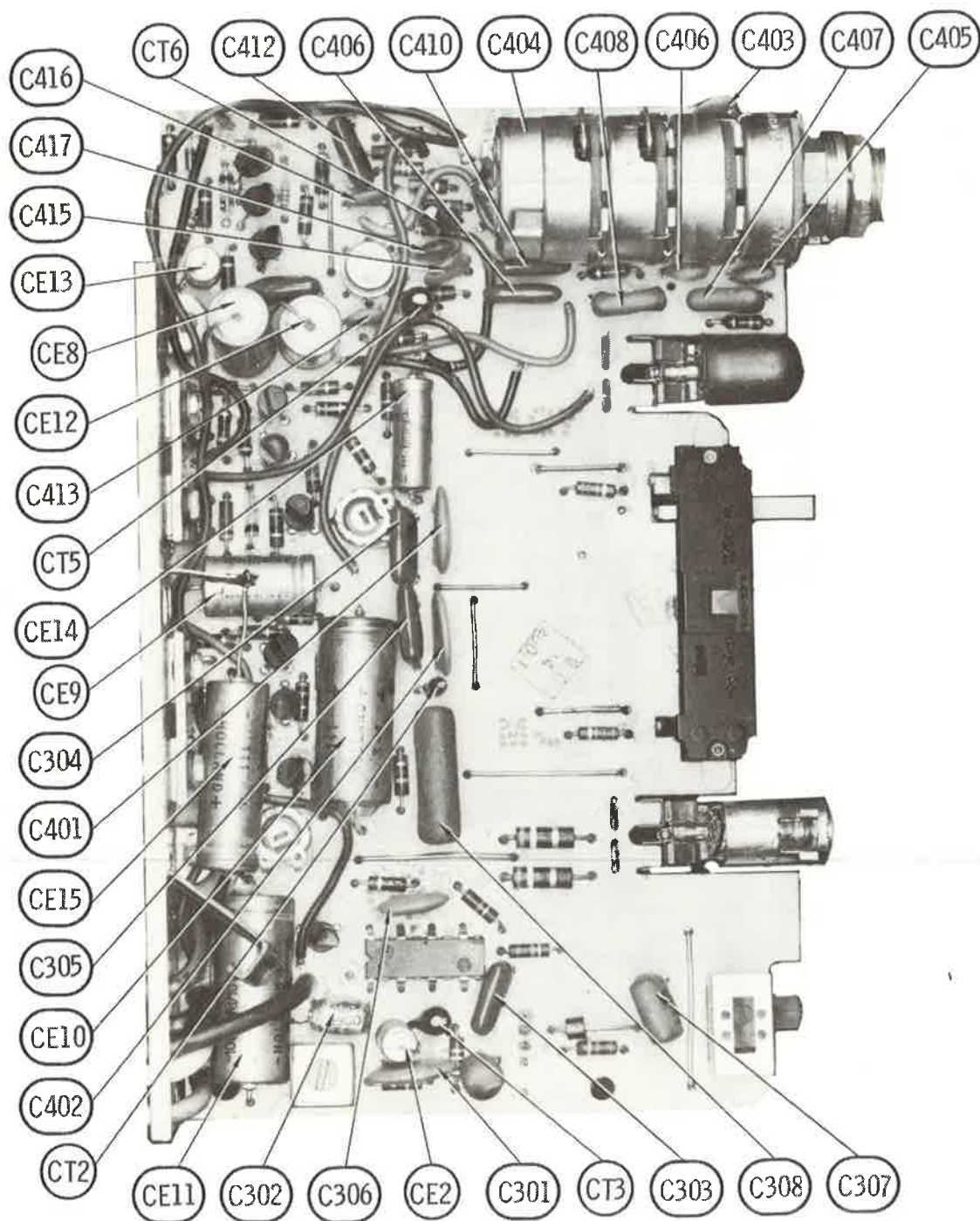
A Howard W. Sams **CIRCUITRACE®** Photo

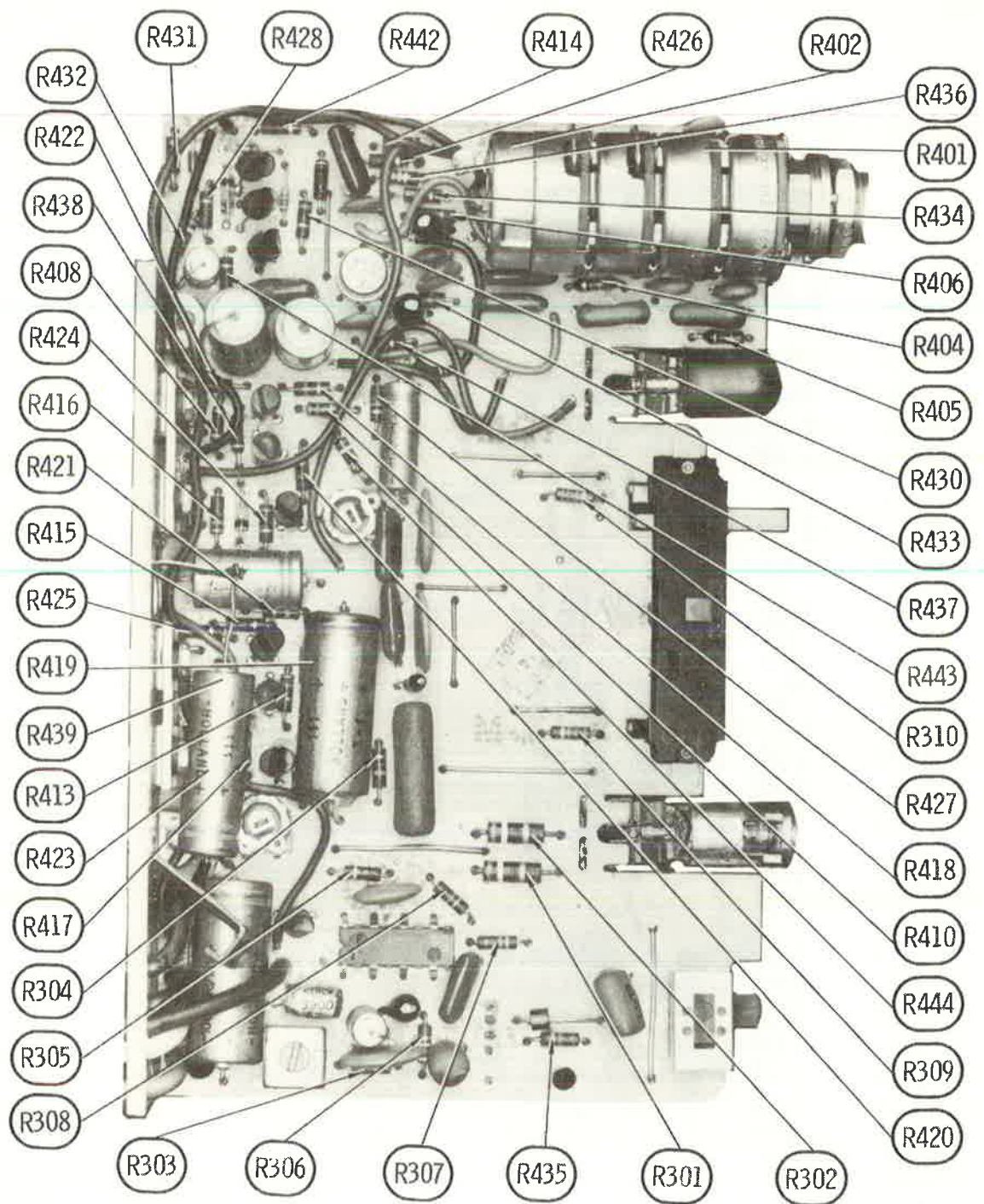


76KC



A Howard W. Sams **CIRCUITRACE®** Photo





PARTS LIST AND DESCRIPTION

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Shielded Hook-up Wire	Use BELDEN No. 8885
Rear Seat Speaker Extension Cable	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

SEMICONDUCTORS

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	MOTOROLA PART No.
D1	2092055-0003	GE-90	D201				ECG 5071	
D2	2092055-0018		Z1106				ECG 177	
D3	2092055-0714	GE-300	D200	PTC214	SK3100	RT218	ECG 109	
D4	2092055-0001	1N34AS	1N34A	PTC207	SK3087		ECG 177	
D5	2092055-0714	GE-300	D200	PTC214	SK3100	RT218	ECG 177	
D6	2092055-0714	GE-300	D200	PTC214	SK3100	RT218	ECG 109	
D7	2092055-0001	1N34AS	1N34A	PTC207	SK3087		ECG 116 or	
D8	2057062-0702	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	RT213 or RT214	ECG 117	
D9	2092055-0027	GE-X11	Z1108				ECG 5072	
D10	2092055-0714	GE-300	D200	PTC214	SK3100	RT218	ECG 177	
D11	2092055-0001	1N34AS	1N34A	PTC207	SK3087		ECG 109	
D12	2092055-0001	1N34AS	1N34A	PTC207	SK3087		ECG 109	
Q1	4084114-0001				SK3050	RT180		HEPF2004
Q2	4084114-0002				SK3050	RT180		HEPF2004
Q3	2092417-0019	GE-17	TR-21	PTC115	SK3018	RT107	ECG 108	HEP53
Q4	2093308-0704	GE-20	TR-21	PTC123	SK3018	RT100	ECG 108	HEP54
Q5	2093308-0705	GE-20	TR-21	PTC123	SK3018	RT100	ECG 108	HEP54
Q6	2093308-0706	GE-20	TR-21	PTC123	SK3018	RT100	ECG 108	HEP54
Q7	2057013-0701	GE-21	TR-30	PTC103	SK3025	RT115	ECG 129	HEP242
Q8	2092609-0024	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP53
Q9	2092609-0024	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP53
Q10	2092609-0023	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP53
Q11	2092609-0023	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP53
Q12	2057013-0007	GE-21	TR-30	PTC103	SK3025	RT115	ECG 129	HEP242
Q13	2057013-0007	GE-21	TR-30	PTC103	SK3025	RT115	ECG 129	HEP242
Q14	4082873-0001 (1)	GE-29	IRTR-56	PTC111	SK3083	RT155	ECG 153	HEP246
Q15	4082873-0001 (1)	GE-29	IRTR-56	PTC111	SK3083	RT155	ECG 153	HEP246
Q16	4080866-0012 (1)	GE-28	IRTR-55	PTC110	SK3054	RT154	ECG 152	HEP245
Q17	4080866-0012 (1)	GE-28	IRTR-55	PTC110	SK3054	RT154	ECG 152	HEP245
Q18	2057013-0007	GE-21	TR-30	PTC103	SK3025	RT115	ECG 129	HEP242
Q19	2092609-0025	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP53
Q20	2092609-0025	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP53
Q21	2092418-0022	GE-17	TR-21	PTC115	SK3018	RT107	ECG 161	HEP55
U1	4082802-0002 (2)							
U2	4082665-0003							
U3	4082799-0002				SK3078			
U4	4084117-0002							

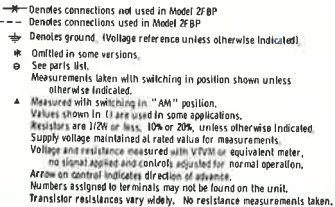
- (1) When replacing, apply silicone grease to both sides of insulator. Tighten mounting screws securely.
(2) Used in place of Q21 in some versions.

BENDIX 1972-73 CUSTOM SERIES

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
			MFR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
CE1	47	10V	2090480-0027	RME-D-D-050	EP15-50	WBR50-25	MT1-16	MTV50CB15	TVA-1129.94
CE2	10	16V	2090480-0031	ME-1-E-010	EA15-10	WBR10-25	MT1-5	MTA10D35	TVA-1145
CE8	220	16V	2090480-0035	ME-6-E-200	EA15-250	WBR250-16	MT1-23	MTA200F25	TVA-1160.6
CE9	220	16V	2090480-0028	ME-6-E-200	EA15-250	WBR250-16	MT1-23	MTA200F25	TVA-1160.6
CE10	1000	10V	2090480-0029	ME-D1000	EA15-1000	WBR1000-16	QTI-32	TC1210A	TVA-1128
CE11	1000	10V	2090480-0029	ME-D1000	EA15-1000	WBR1000-16	QTI-32	TC1210A	TVA-1128
CE12	220	16V	2090480-0035	ME-6-E-200	EA15-250	WBR250-16	MT1-23	MTA200F25	TVA-1160.6
CE13	20	16V	2090480-0718	ME-2-E-020	EP15-25	WBR25-25	MT1-11	MTV20CB50	TVA-1147
CE14	100	10V	2090480-0036	ME-4-D-100	EA15-100	WBR100-16	MT1-19	MTA100E10	TVA-1130
CE15	330	16V	2090480-0034	ME-8-E-250	EA15-250	WBR300-35	QTI-30A	MTA300G50	TVA-1161.2
CT2	2.2	20V	4082445-0009	RME-A-G-002	EP30-2	WBR2-50	MT1-1	MTV2CB50	SD25-2R29
CT3	4.7	20V	4082445-0004	RME-A-G-005	EP30-5	WBR5-50	MT1-3	MTV5CB50	SD35-4R79
CT5	15	20V	4082445-0006	ME-4-J-015	EA50-15	WBR25-50	MT1-11	MTV15CB50	SD20-159
CT6	15	20V	4082445-0006	ME-4-J-015	EA50-15	WBR25-50	MT1-11	MTV15CB50	SD20-159

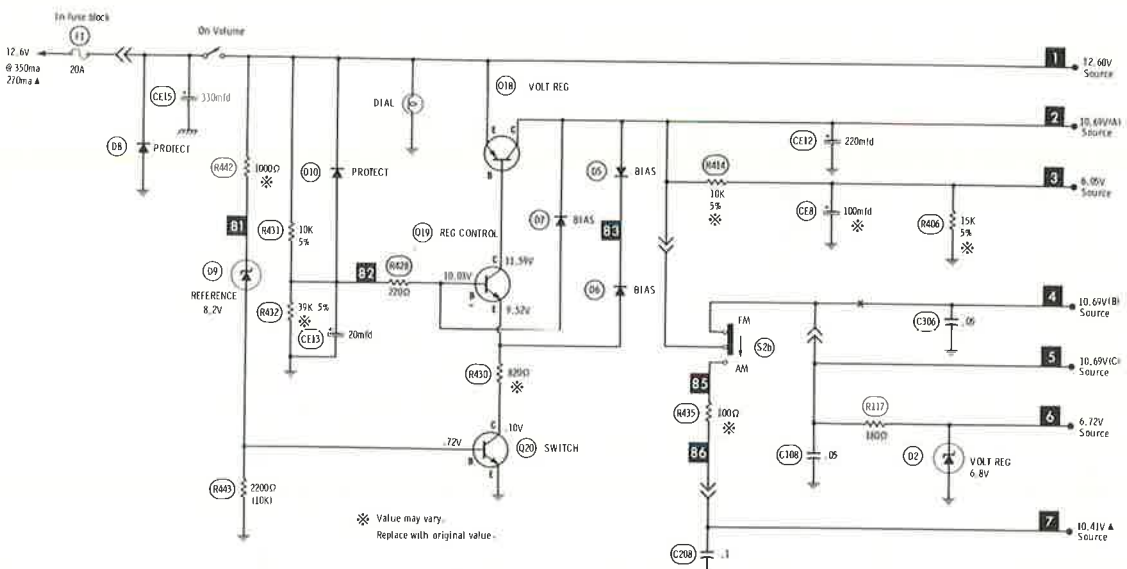
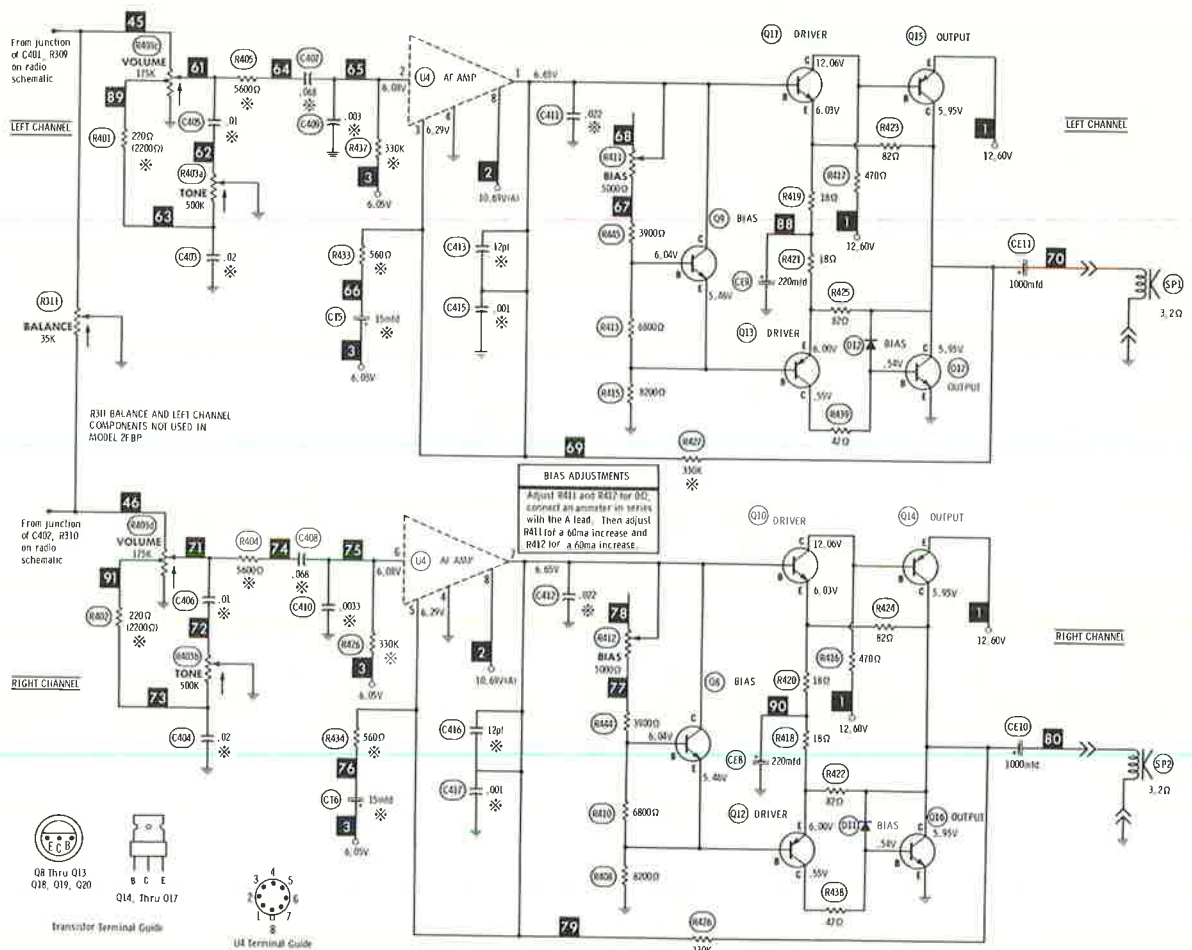
(CONTINUED ON PAGE 51)



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49





* Value may vary.
Replace with original value.

- ⊕ Denotes ground. (Voltage reference unless otherwise indicated).
- - Indicates connection used in some versions.
- ⋈ Indicates connections not used in some versions.
- Measurements taken with switching in position shown unless otherwise indicated.
- ▲ Measured with switching in "AM" position.
- Values shown in (A) are used in some applications.
- Resistors are 1/2W or less, 5% or 10%, unless otherwise indicated.
- Supply voltage maintained at rated value for measurements.
- Voltage and resistance measured with VTVM or equivalent meter.
- No signal applied and controls adjusted for normal operation.
- Arrow on control indicates direction of advance.
- Numbers assigned to terminals may not be found on the unit.
- Transistor resistances vary widely. No resistance measurements taken.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
with **CIRCUITACE**
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BENDIX 1972-73 CUSTOM SERIES

PARTS LIST AND DESCRIPTION (CONTINUED)

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS* for the most up-to-date replacement.

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	2.7 NPO		CCD-222	DD-222	GP2200	GP222	10TCC-V30
C102	.0022						10TS-D22
C103	4-25	#2093115-0009	CCD-102	DM-102	GP1000	SM210	2SS-D10
C104	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C105	.001						
C106	4-25	#2093115-0009	CCD-102	DM-102	GP1000	SM210	2SS-D10
C107	.001		CCD-503	CK-503	MGP05	TA150	TG-S50
C108	.05		DD-222	DD-222	GP2200	GP222	10TS-D22
C109	.0022		CCD-102	DM-102	GP1000	SM210	2SS-D10
C110	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C111	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C112	1.5 NPO		CCD-222	DTZ-1R5	NPO1P5	CNO515	10TCC-V15
C113	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C114	47 NPO		CCTO-470	DTZ-47	NPO47	CNO447	10TCC-Q47
C115	2.7 NPO						10TCC-V30
C116	6.2 N750				N6P8	CN7568	10TCU-V68
C117	3-10	#2094703-0701					
C118	2.7 NPO						10TCC-V30
C120	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C121	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C122	.1			CK-104		TA010	TG-P10
C123	.1			CK-104		TA010	TG-P10
C124	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C125	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C126	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C127	100		CCTO-101	DTZ-100	NPO100	CNO310	10TCC-T10
C128	6.8 NPO			DTZ-6R8	NPO6P8	CNO568	10TCC-V68
C129	.1			CK-104		TA010	TG-P10
C201	25-125	#2093114-0016					
C202a	10-100	#2092422-0022					
C202b	180						
C202c	10-100						
C203	300		DM-15-301J	CPR-300J	CD15F301J500	SX330	MS-33
C204	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C205	33 NPO		CCTO-330	DTZ-33	NPO33	CNO433	10TCC-Q33
C206	.005		CCD-502	CK-502	MGP005	TA250	TG-D50
C207	.01 50V		1DP-1-103	CPR-10000J	DPMS6S1	PVC211	225P10391WD3
C208	.1 50V		1DP-1-103	CPR-10000J	DPMS6S1	PVC211	225P10391WD3
C209	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C210	.0068 50V		1DP-1-682	CPR-6800J	DPMS6D68	PVC6268	6PS-D68
C211	.01 50V		1DP-1-103	CPR-10000J	DPMS6S1	PVC211	225P10391WD3
C212	39 N750		CCTN-390			CN7439	10TCU-Q39
C213	360		DM-15-361J	CPR-360J	CD15F361J500	SX336	MS-336
C214	.1			CK-104		TA010	TG-P10
C215	.1			CK-104		TA010	TG-P10
C216	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C217	.2			UK10-204		MAG12022	HY-370
C218	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C219	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C220	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C221	.1						
C301	.2			UK10-204		MAG12022	HY-370
C302	.0039		DM-19-392J	CPR-3900J	CD15F392J500	SX239	MS-239
C303	.02 50V		1DP-1-203		DPMS2S2	PVC212	2PS-S20
C304	.022 50V		1DP-1-223		DPMS6S22	PVC1122	225P22391WD3
C305	.022 50V		1DP-1-223		DPMS6S22	PVC1122	225P22391WD3
C306	.05						
C307	.1			CK-104		TA010	TG-P10
C308	.47 50V		2DP-5-474		DPMS2P47	PVC2047	2PS-P47
C401	.2			UK10-204		MAG12022	HY-370
C402	.2			UK10-204		MAG12022	HY-370
C403	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C404	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C405	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C406	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C407	.068 50V		4DP-3-683		DPMS6S68	PVC6168	4PS-S68
C408	.068 50V		4DP-3-683		DPMS6S68	PVC6168	4PS-S68
C409	.003 50V		6DP-1-332		DMF6D33	PVC6233	6PS-D33
C410	.003 50V		6DP-1-332		DMF6D33	PVC6233	6PS-D33
C411	.022 50V		1DP-1-223		DPMS6S22	PVC1122	225P22391WD3
C412	.022 50V		1DP-1-223		DPMS6S22	PVC1122	225P22391WD3
C413	12 N220		*		*		10TCR-Q12
C415	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C416	12 N220		*		*		10TCR-Q12
C417	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10

BENDIX 1972-73 CUSTOM SERIES

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
Bendix Part Number

PARTS LIST AND DESCRIPTION (CONTINUED)

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS[®] for the most up-to-date replacement.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS—IRC PART No.	MALLORY PART No.
R403a	Tone, Left	500K	4084157-0001 (1)				
b	Tone, Right	500K					
c	Volume, Left	175K					
d	Volume (Right)/Switch	Tap @ 75K 175K Tap @ 75K 35K	4084154-0001 (1)	TSV-5K(3) or T-5000 (3) TSV-5K(3) or T-5000 (3)		X201R502B(3) X201R502B(3)	MTC53L1 (3) MTC53L1 (3)
R311	Balance						
R411	Bias, Left	5000	4082435-0008				
R412	Bias, Right	5000	4082435-0008				

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	FM Antenna	(1)	19-1002	74F226AP	TA812
L2	FM RF	(1)			
L3	FM Oscillator	(1)			
L4	RF Choke (2uh)	2092210-0012			
L5	AM Antenna	(1)			
L6	AM RF	(1)			
L7	AM Oscillator	(1)			
L8	Quadrature	4082666-0001			
L9	76KC Oscillator	4084105-0001			
L10	19KC Trap (3.6mh)	4084115-0004			
T1	FM IF	4084106-0001			
T2	AM Input IF	4084104-0001			
T3	AM Output IF	4084104-0002			

(1) Part of M1

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
	PM, 3.2 ohms PM, 3.2 ohms			Obtain from Auto Dealer.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	AGA 5 Amp	2091811-0009	2094348-0546	AGA5	HAF	301005	150145

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FL1	Ceramic Filter	4082801-0001	10.7MC
FL2	Ceramic Filter	4082801-0001	10.7MC
M1	Tuner	4084158-0001	Complete
S2	Coil Assembly	2057171-0011	
	Switch, Selector	4084144-0001	

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

ITEM	PART No.	ITEM	PART No.
Stereo Indicator Lens	4082982-0001	Knob, Tuning or Volume	4080232-0502
Dial Glass	4084134-0001	Knob, Tone or Selector	4080233-0001
Pushbutton	2091292-0002	Trim Bezel	4084209-0001
Dial Pointer	4080313-0016		