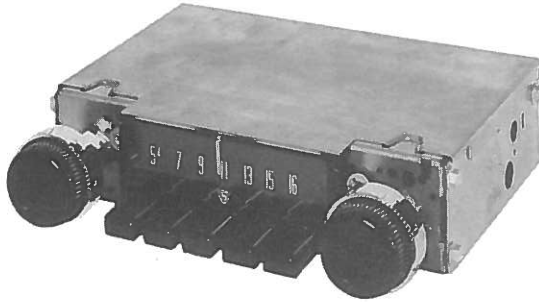


PHOTOFACT[®] with

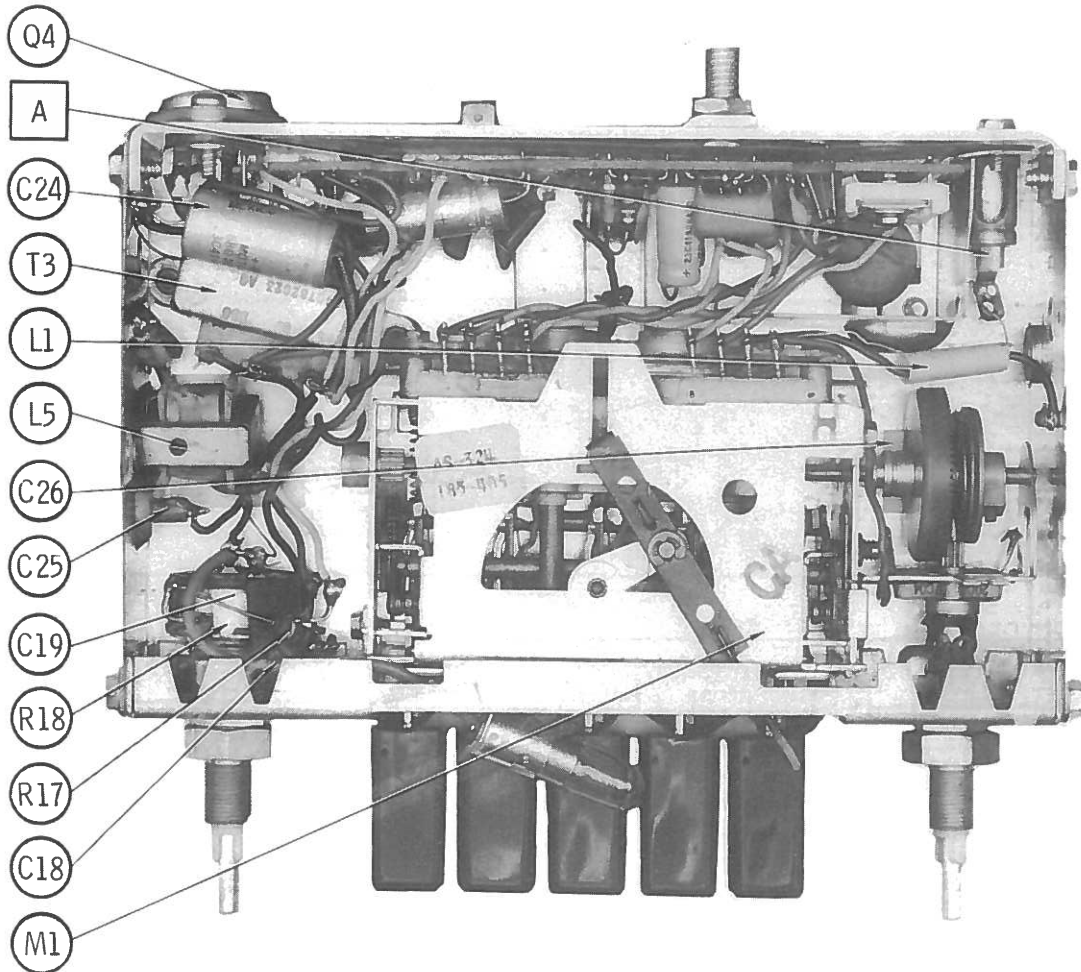
CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE: Manufacturer Part Numbers Shown Are MOTOROLA



MODELS 1MM1418, 2MM1418,
5MM1418 (19842A91)
(74 Mazda)



MAZDA 1974 SERIES

CHASSIS - TOP

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

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Printed in U. S. of America

6AG874

ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
Use only enough generator output
to provide a usable indication.

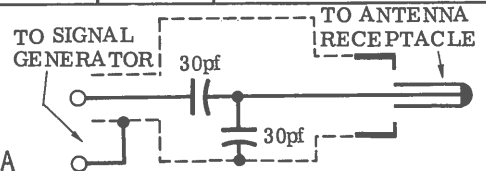
Suggested Alignment Tools: GC ELECTRONICS
T1, T29296, 9297, 9300
C1, C6A, B8290, 8868, 9087

PUSH-BUTTON ADJUSTMENT

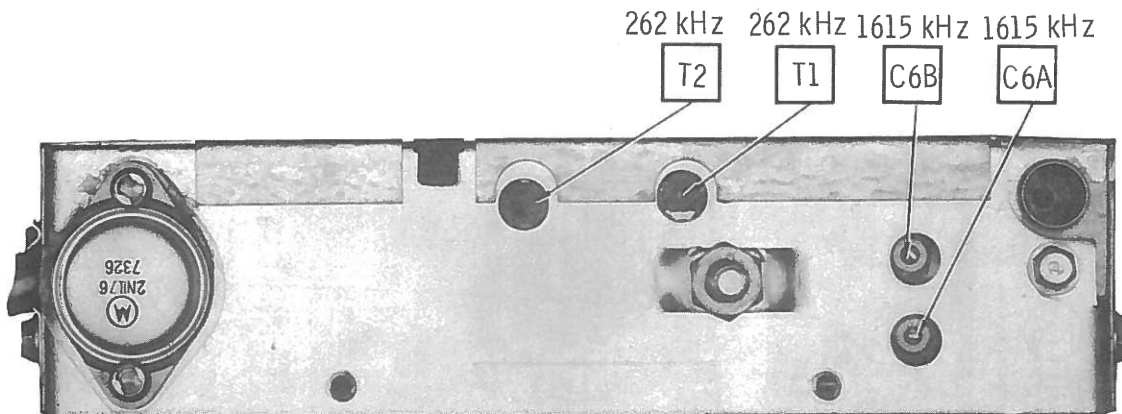
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to point A low side to ground.	400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T2, T1	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C6B, C6A C1	"
Tuner alignment is not necessary unless associated components have been disturbed. If necessary, back tuning cores L2, L3, L4 out of coils but not out of forms. Repeat step 2.					
Thru dummy antenna to antenna input.	1000kHz	Tune to signal	Output meter across voice coil.	L4, L3, L2	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended to desired height, tune in a weak station near 1400kHz and adjust C1 for maximum output. Antenna adjustment C1 is located behind tuning & dummy knobs.

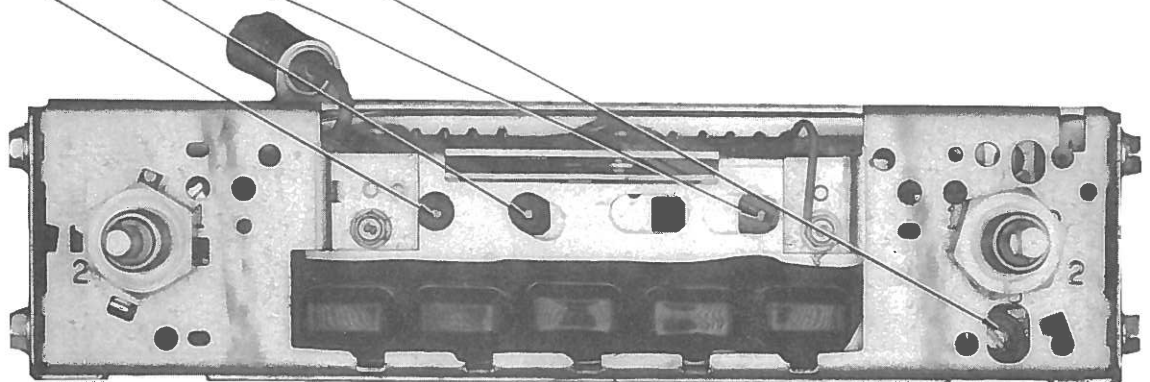


DUMMY ANTENNA

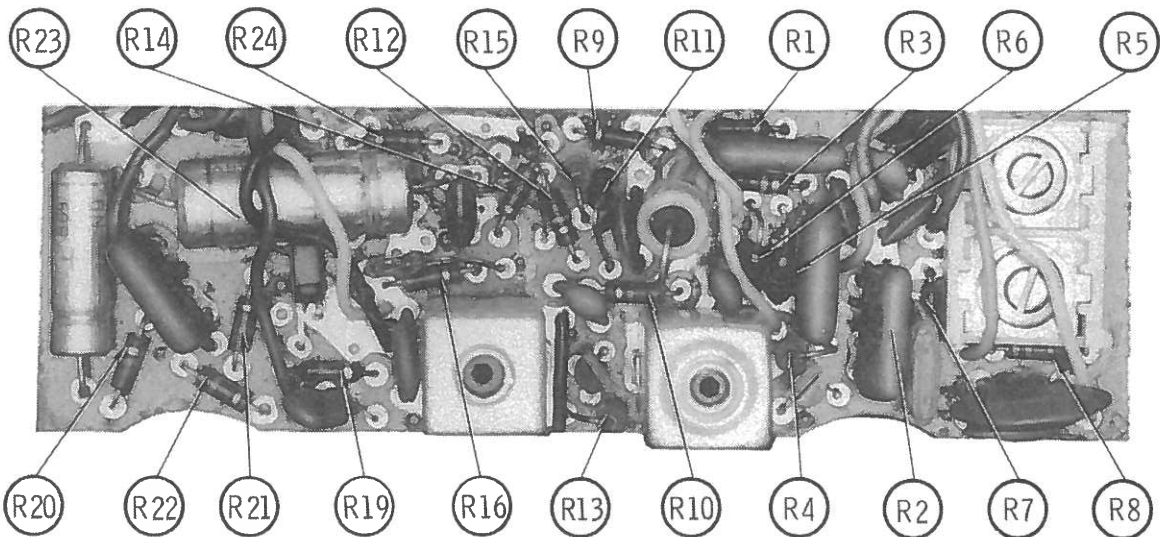
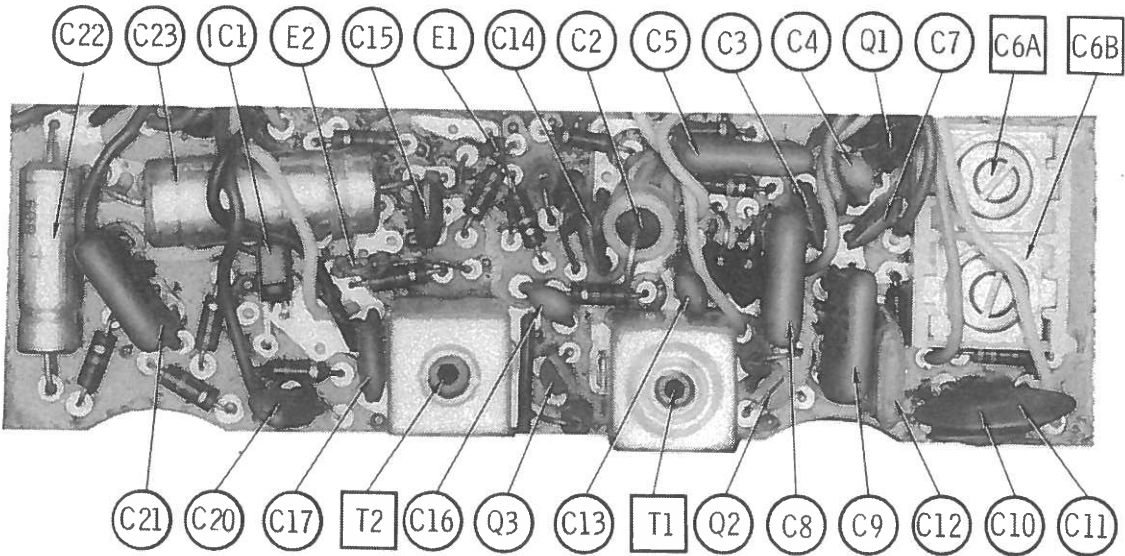
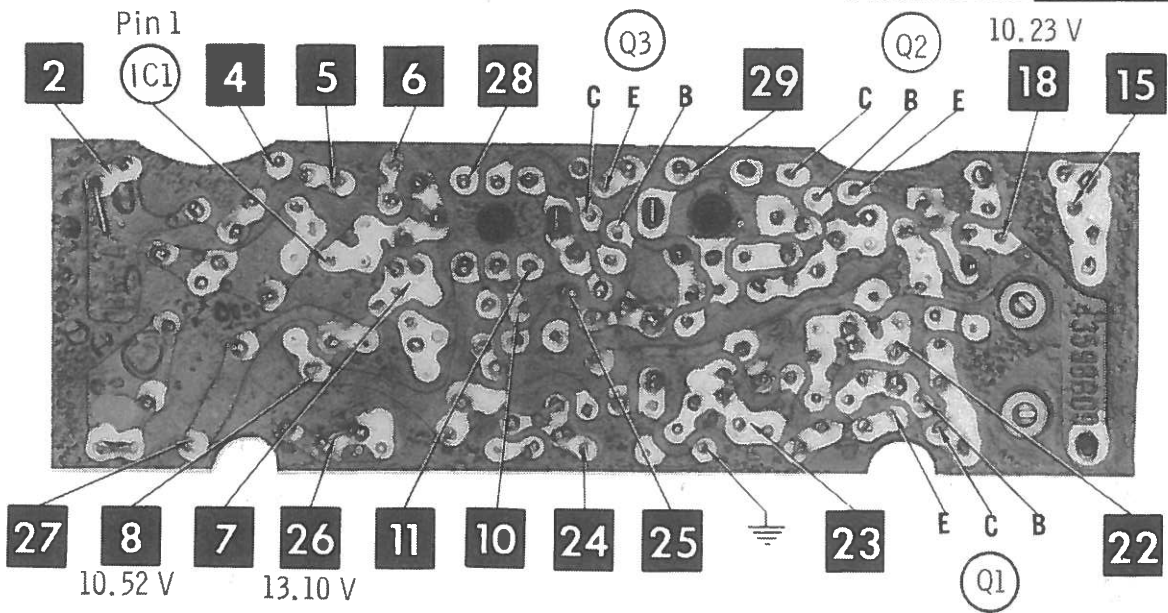


CHASSIS - REAR

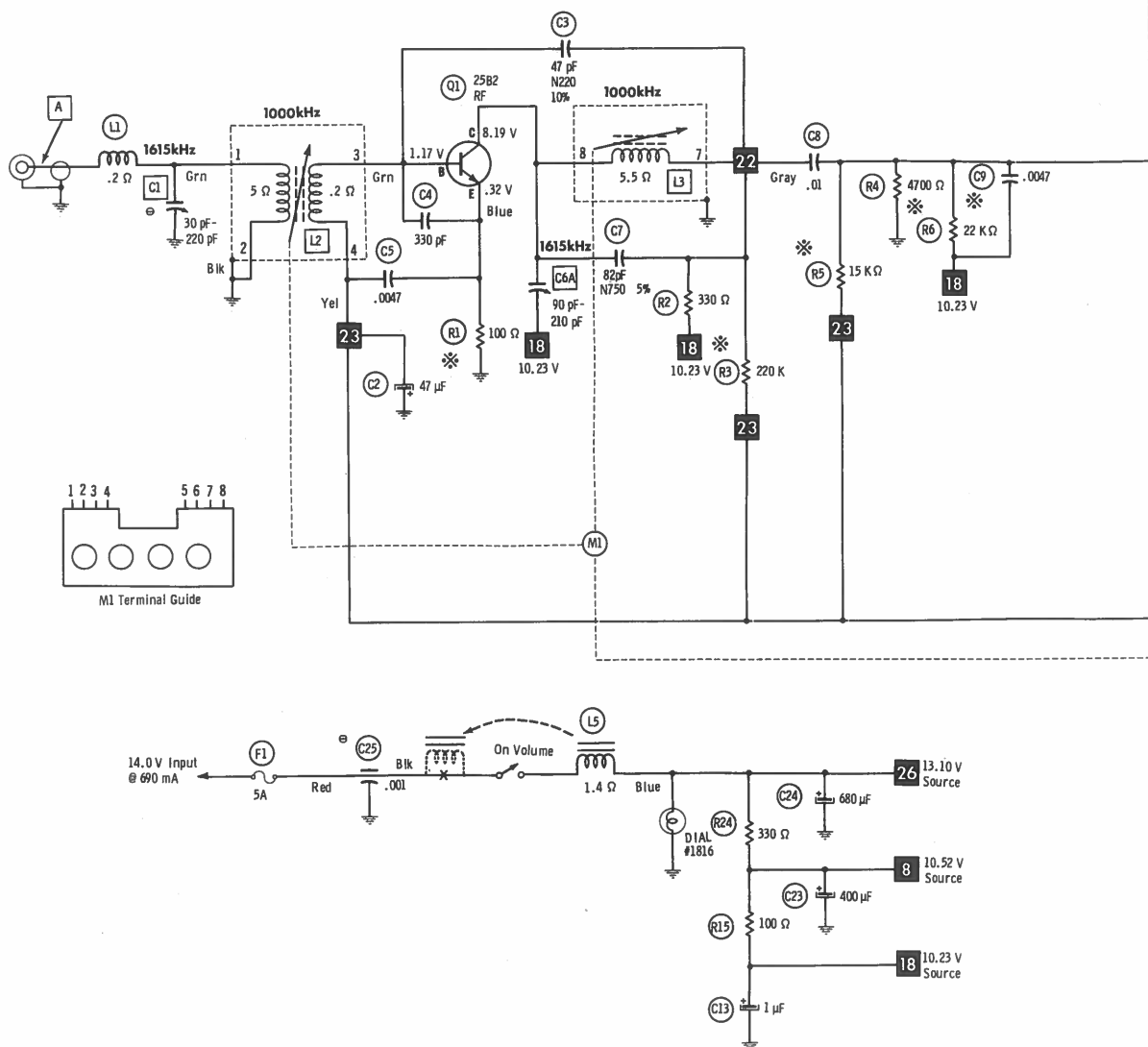
1000 kHz 1000 kHz 1000 kHz 1615 kHz



CHASSIS - FRONT



MAIN BOARD



- X— Circuitry not used in some versions
- Circuitry used in some versions
- ⊖ See parts list
- * Nominal value
- ⊥ Ground
- Chassis
- ▽ Common tie point

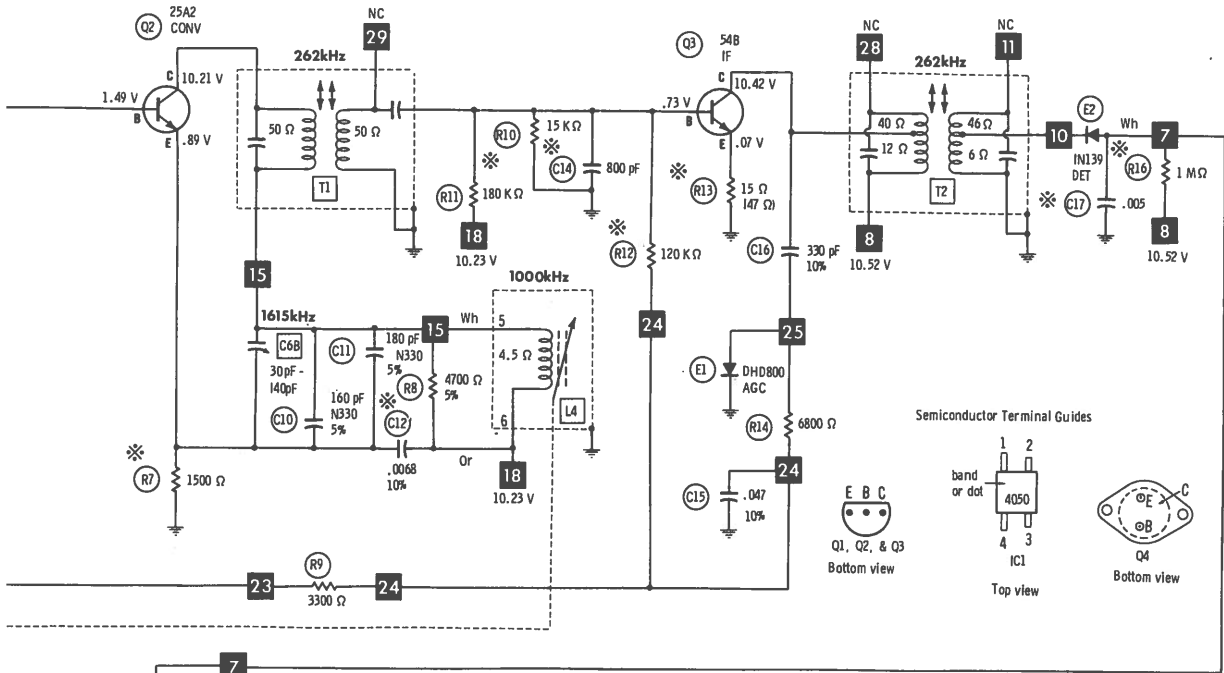
Measurements with switching as shown unless noted:

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, 10% unless noted.
 Value in () used in some versions.

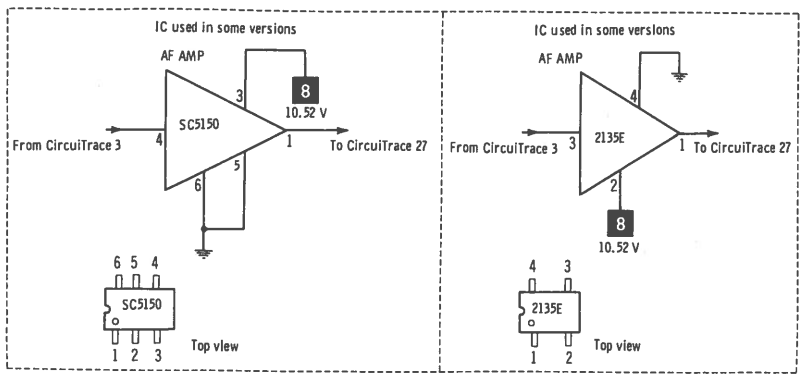
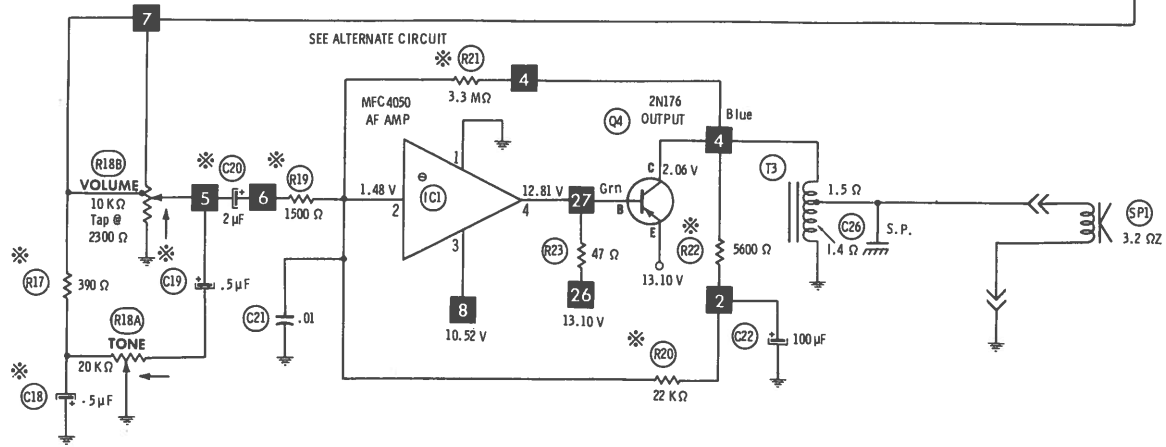
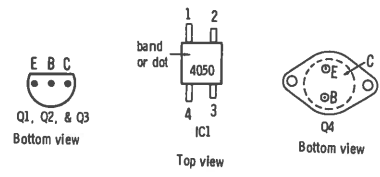
A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE

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Semiconductor Terminal Guides



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.)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets

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.
E1	DHD800	48-134816	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
E2	1N139	48-137495	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
IC1	MFC4050	51-10534A03								ECG755
	SFC4050	51-43684B02 (1)				HEPC6064P				ECG755
	SC5150P	51-43684B01 (1)				HEPC6088P				ECG735
	2135E	51-10534A04 (1)				HEPC6013				ECG735
		51-10534A01 (1)								ECG755
Q1	25B2	48-134805	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107	ECG229
Q2	25A2	48-134804	GE-20	TR-21	PTC136	HEPS0025	RE 13	SK3018	RT-107	ECG123A
Q3	54B	48-134810	GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q4	2N176	48-134747	GE-16	TR-01	PTC105	HEPG6018	RE 7		RT-124	ECG104

(1) Used in some versions.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C2	47 10V	23-42674B23		PC50-16	VTT47D16	EV-1226
C13	1 15V	23-43280A17	EP15-50		TDC105M035EL	SD35-19
C18	.5 6V	23-43280A23			TDC474M050EL	SD35-R479
C19	.5 6V	23-43280A23			TDC474M050EL	SD35-R479
C20	2 10V	23-43280A01			TDC225M020EL	SD25-2R29
C22	100 10V	23-42674B09	EA15-100	WBR100-16	MTA100E10	TVA-1130
C23	400 16V	23-42674B10	EA15-500	WBR500-16	TC1505C	TVA-1162
C24	680 16V	23-41928A43	EA15-500	WBR500-16	TT15X600	TVA-1162.2

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	30-220	20-40647C04			*	10TCR-Q47
C3	47 N220 10%					10TS-T33
C4	330 10%		DD-331	GP330	GP333	10TS-D47
C5	.0047 10%					
C6A	90-210	20-42280B06				
B	30-140					
C7	70 N750 5%		DTN-75			10TCU-Q75
C8	.01		DC-103	GP10000	MAG5011	2SS-S10
C9	.0047 10%					10TS-D47
C10	160 N330 5%				*	10TCS-T15
C11	180 N330 5%				*	10TCS-T18
C12	.0068 10%		CPJ-682	DPMS6D68	EWFA1A268	1PB-D68
C14	800 10% 500V		DD-821	GP820	GP382	10TS-T82
C15	.047 10%			DPMS2S47	EWFA1A147	1PB-S47
C16	330 10%		DD-331	GP330	GP333	10TS-T33
C17	.005					10TS-D50
C21	.01		DC-103	GP10000	MAG5011	2SS-S10
C25	.001 500V	21-560232				
C26		64-561876				

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

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	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R18a b	Tone Volume/Power Switch	20K 10K Tap @ 2300	18-42302B16				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Ant Choke (1.5uH)	24-40788A04		4604	(1) Part of M1 (Tuner)
L2	Antenna	(1)			
L3	RF	(1)			
L4	Oscillator	(1)			
T1	IF (262kHz)	24-40310B13	24D40310B13		
T2	IF (262kHz)	24-40310B14	24D40310B14		

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.	
L5	680mA	1.4	6.8mH	25-43869B20	TR-152	TY17XT	

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.		MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	30 Tap @ 4		25-40782C23		TR-170	

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.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	5" PM, 3.2 Ohms	50-40356F01		

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	5 A	65-122345	9-42176A13 (1)	AGA5	HAF	301005	150145	

(1) Includes fuse

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Tuner Tuning Coil Assembly Printed Circuit Board	77-41900C64 1-41800C67 84-43598B09	AS-324

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

ITEM	PART No.	ITEM	PART No.
Scale, Dial (Escutcheon)	61-43402C11	Knob, Volume/Tuning	36-43401B01
Pointer, Dial (Assembly)	52-40281C13	Knob, Tone	36-43219B02
Push-buttons, Tuning (5 used)	38-42185B01		