

PHOTOFACT[®] with

CIRCUITRACE[™]

For Supplier Address See PHOTOFACT Index

CLEANING

LUBRICATING

HEAD DEMAGNETIZING

Refer to "General Servicing Information" on page 4.

This unit is a two-track monaural recorder having a speed of 1 7/8 ips, containing an AM/FM radio. Automatic recording level is provided.

Jacks are provided for mic input, high-level input, external speaker, and external power.

A power source of 120 volts AC, 60Hz, 6 volts DC, or four 1 1/2-volt "D" cells is required.



SANYO MODEL M2430

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

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6TM610

GENERAL SERVICING INFORMATION

The following information applies to all recorders in this volume, and should be followed before any adjustments are made or trouble diagnosis is attempted. Any exceptions or additions will be found in the detailed servicing procedures for each recorder.

POWER SOURCES

Many recorders require full supply voltage for proper operation. Be sure the supply voltage is maintained at the rated value *under load* while making adjustments.

CLEANING

All head faces should be cleaned with head cleaner to remove dust and accumulated oxide. (An applicator may be fashioned from absorbent cotton.) Do not use a screwdriver or any metallic object near the head faces.

CAUTION: *Avoid getting head cleaner on any plastic surface.*

Clean the capstan, pressure roller, pressure pads and all tape guides with alcohol using a soft lint-free cloth. Also use alcohol to remove oil and grease from drive belts, idler wheels, brake drums and shoes, and all other driving surfaces.

LUBRICATING

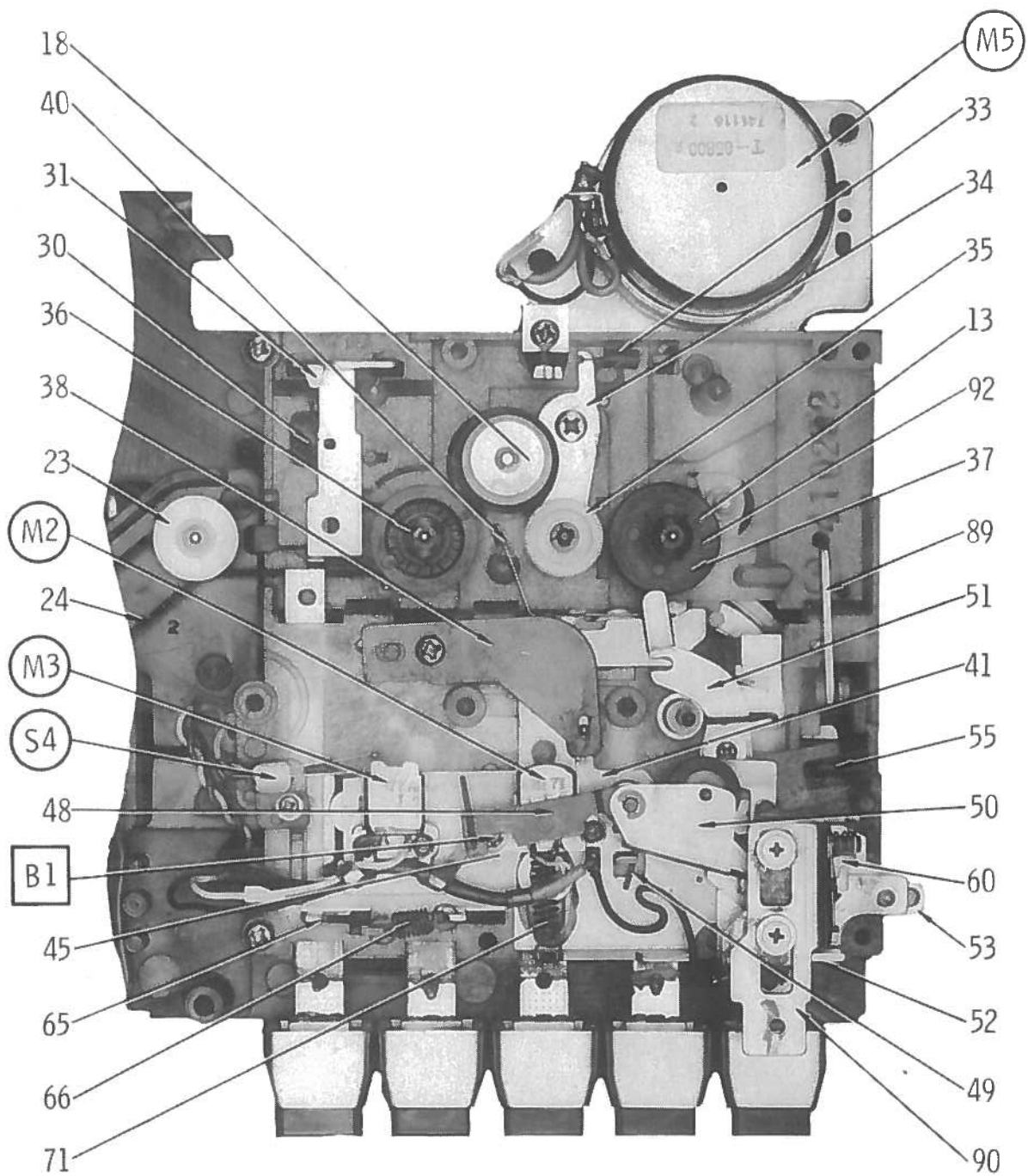
Clean all surfaces before lubricating. Apply a few drops of #20 machine oil to all bearings and rotating bushings. Apply a thin film of light nonhardening grease to all sliding surfaces and detent rollers. Always wipe excess oil or grease from parts that have been lubricated.

CAUTION: *Oil and grease must be kept off all driving surfaces as well as any parts which may transfer oil or grease to them.*

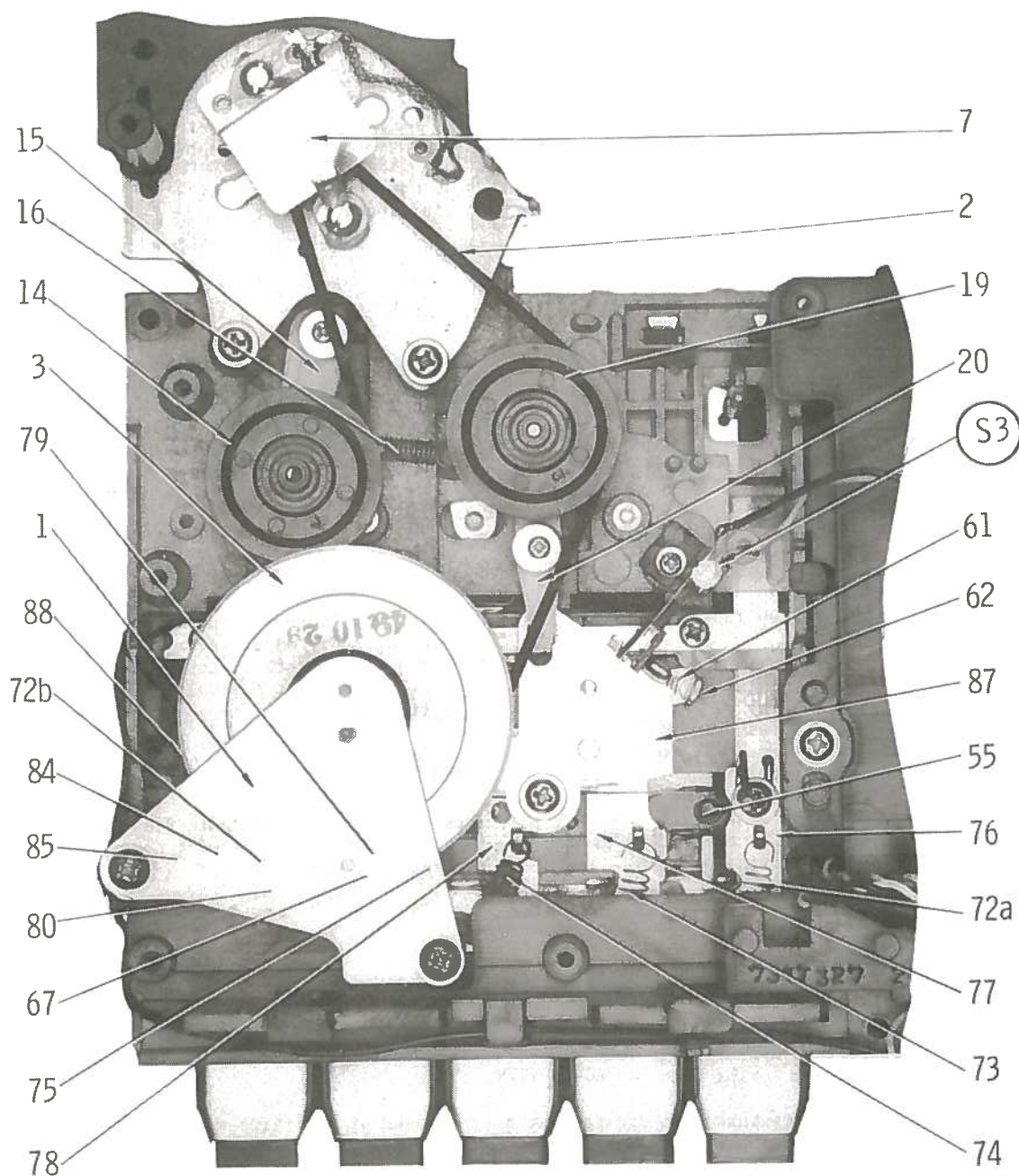
DEMAGNETIZING

Record-Play heads require demagnetizing at regular intervals to maintain high-frequency response, dynamic range, and low distortion. (Follow instructions included with the demagnetizing unit.) After demagnetizing the heads, keep all screwdrivers and other metallic objects away from the head faces. Tape guides may also require occasional demagnetizing.

IMPORTANT: *Be sure to demagnetize the heads after making resistance measurements in the head circuits.*



TAPE DECK BOTTOM VIEW



TAPE DECK TOP VIEW

SEQUENCE OF OPERATION

PLAY

Pressing the Play button moves Slide (78), locked by Slide (65) and Spring (66), to slide Plate (41), allowing Spring (16) to pivot Lever (15). Lever (15), pulled by Spring (16), presses shaft of Pulley (14) against Reel (37).

The motor -- through Pulley (7), Belt (2), and Pulley (14) -- drives Reel (37).

Slide (78) also moves Plate (41) to move the heads forward and to permit Spring (49) to press Roller (50) against the capstan.

RECORD

The Record sequence is the same as Play. However, a tab on the cassette pivots Lever (31) to release Slide (76). Pressing the Record button moves Slide (76), locked by Slide (65) and Spring (66), to actuate Switch (S1).

FAST FORWARD

Pressing the Fast Forward button moves Slide (79), locked by Slide (65) and Spring (66), to pivot Lever (87), moving Assembly (20). The Idler of Assembly (20) presses Pulley (35), pressing Pulley (35) against Reel (35).

The motor -- through Pulley (7), Belt (2), Pulley (19), Assembly (20), and Pulley (35) -- drives Reel (37).

REWIND

Pressing the Rewind button moves Slide (77), locked by Slide (65) and Spring (66), to pivot Lever (87), moving Assembly (20). The Idler of Assembly (20) presses Reel (36).

The motor -- through Pulley (7), Belt (2), Pulley (19), and Assembly (20) -- drives Reel (36).

STOP

Pressing the Stop button moves Slide (80) to pivot Plate (40), pressing pad against Reel (36). Slide (80) also moves Plate (65) to release any depressed buttons, permitting appropriate springs to reverse sequence of previously selected function.

Springs (61), (71), and (74) reverse the Play sequence; and in addition, Springs (31) and (72a) reverse the Record sequence. Springs (33), (75), (79), and (84) reverse the Fast Forward sequence. Springs (73) and (84) reverse the Rewind sequence.

AUTO-STOP

At the end of the tape, when Reel (36) stops rotating, increased tape tension pivots Assembly (48) to move Lever (55). The motor -- through Pulley (7) and Belt (2) -- drives Flywheel (3). A tab on Flywheel (3) slides Lever (55) to move Slide (65), initiating the Stop sequence.

PAUSE (FROM PLAY OR RECORD)

Pressing the Pause button, locked by Cam (59) and Spring (60), moves Lever (53) to pivot Roller (50) from the capstan. Lever (53) also slides Lever (51) to pivot Assembly (15), moving Pulley (14) from Reel (37).

EJECT

Pressing the Stop button in Stop moves slide (76) to slide Plate (84), causing Lever (89) to lift the cassette compartment.

ADJUSTMENTS

IMPORTANT: Before making any adjustments, refer to "General Servicing Information" on page 4.

1. All voltage measurements referred to in this chart are made at a tape speed of 1 7/8ips with an AC-DC VTVM.
2. All torque measurements are made at a tape speed of 1 7/8ips with a spring scale applied to a point 1 inch from spindle center.
3. All pressure measurements are made by using a spring scale to determine that point at which pressure is just removed.

ADJUST	REMARKS
Play Take-up Torque	Nominal value 1/2 oz. No adjustment provided.
Fast Forward Torque	Nominal value 1 oz. No adjustment provided.
Rewind Torque	Nominal value 1 oz. No adjustment provided.

ADJUSTMENTS (Continued)

ADJUST	REMARKS
Pressure Roller Pressure	Nominal value 18 oz. No adjustment provided.
Record/Play Head Azimuth	Connect AC VTVM across speaker, play an azimuth-test tape and adjust B1 for maximum output.
Bias Oscillator	Nominal frequency 28kHz. No adjustment provided.
Erase Current	Nominal value 10mA (5V DC). No adjustment provided.
Record Bias	Nominal value 11.0V (.47mA). No adjustment provided.

TROUBLE CHART

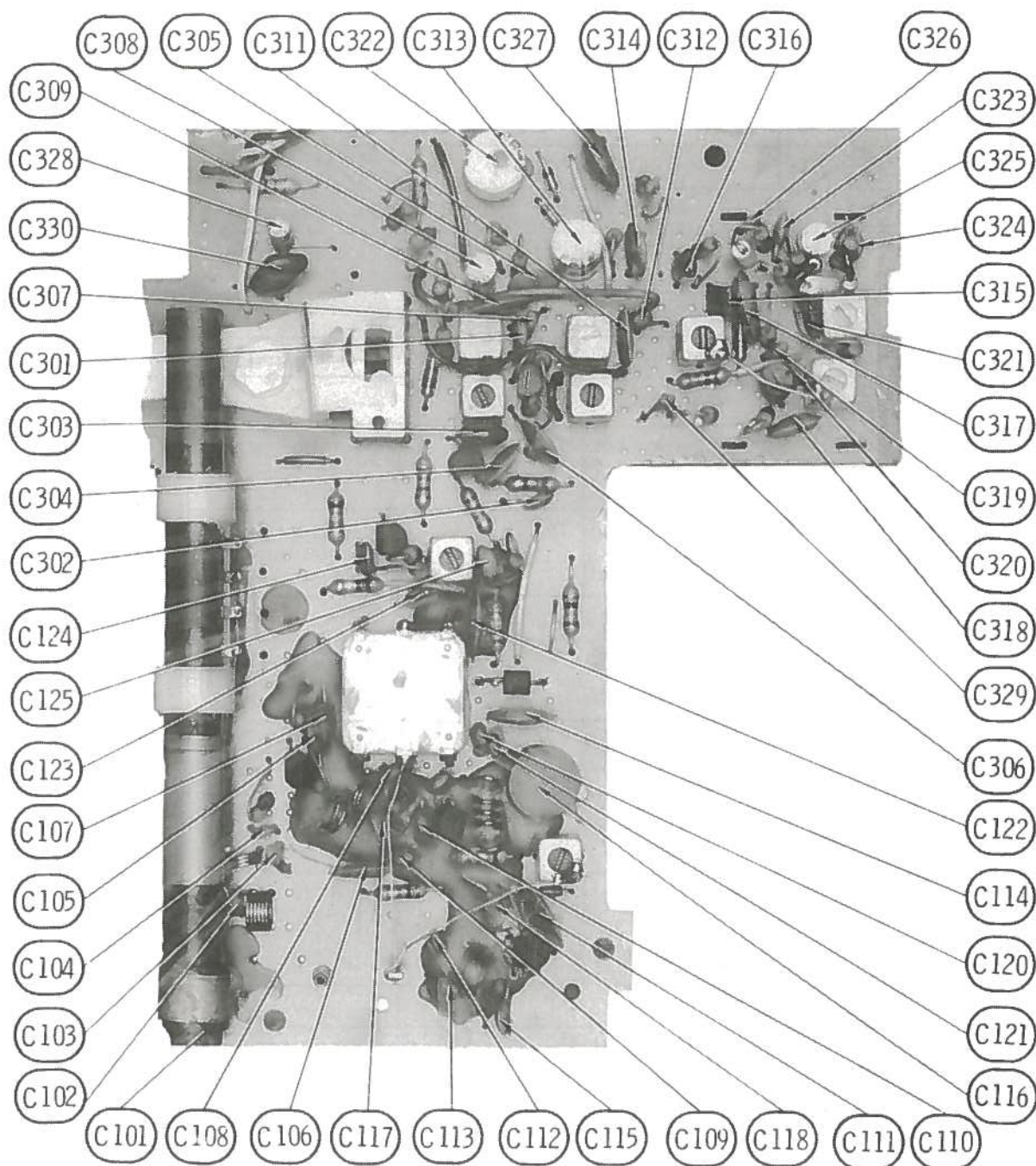
IMPORTANT: Before consulting this chart, refer to "General Servicing Information" on page 4.

SYMPTOM	REMARKS
Take-up erratic or inoperative in play or record.	Pulley (14) dirty, worn, or binding. Assembly (37) dirty, worn, or binding. Spring (16) weak or out of place. Felt (92) dirty or worn. Spring (13) weak. Assembly (15) dirty, worn, or binding.
Take-up erratic or inoperative in fast forward.	Assembly (87) weak or binding. Assembly (37) dirty, worn, or binding. Pulley (35) dirty or binding. Pulley (19) dirty or binding. Assembly (20) dirty, worn, or binding. Lever (34) binding.
Rewind erratic or inoperative.	Assembly (36) dirty or binding. Pulley (19) dirty or binding. Assembly (87) weak or binding. Assembly (20) dirty, worn, or binding.
Capstan does not rotate.	Belt (2) dirty, worn, or broken. Flywheel (3) binding. Pulley (7) dirty or loose. Motor defective or not supplied with power.
Tape rides up and down between capstan and pressure roller.	Capstan bent. Assembly (50) bent or worn. Excessive take-up torque.
Wow or flutter.	Assembly (50) bent or worn. Belt (2) dirty or worn. Flywheel (3) binding. Cassette defective. Motor defective. Excessive take-up torque. Spring (49) weak.

MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	141-0-524T-05599	Flywheel Bracket	49	141-2-852T-09400	Pressure Roller Spring
2*	141-2-564T-12100 *	Drive Belt *	50*	141-0-545T-00700 *	Pressure Roller Assembly *
3	141-0-521T-02700	Flywheel	51	141-2-741T-61500	Pause Lever
7	141-2-661T-66103	Motor Pulley	52	141-2-737T-03000	Pause Slide Bracket
	141-2-661T-66102	Motor Pulley	53	141-0-741T-12500	Pause Lever Assembly
13	141-2-851T-66301	Take-up Clutch Spring	55	141-2-741T-47304	Auto-Stop Lever
14	141-2-661T-17202	Take-up Pulley	52	141-2-671T-04300	Pause Lock Cam
15	141-0-741T-12800	Take-up Lever Assembly	60	141-2-852T-26100	Pause Lock Spring
16	141-2-851T-56400	Take-up Return Spring	61	141-2-851T-56100	Lock Prevent Slide Spring
18	141-2-851T-63002	Fast Wind Clutch Spring	62	141-2-731T-20800	Lock Prevent Slide
19	141-2-661T-17201	Drive Pulley	65	141-0-731T-00604	Lock Slide Assembly
	141-2-661T-17202	Drive Pulley	66	141-2-851T-63900	Lock Slide Return Spring
20	141-0-741T-12900	Fast Wind Lever Assembly	67	141-2-851T-66400	Auto-Stop Lever Spring
22*	141-2-564T-08700 *	Counter Belt *	71	141-2-851T-63100	Play-Slide Spring
23	141-2-661T-16601	Counter Relay Pulley	72	141-2-851T-63900	Stop/Rec Slide Spring (2 used)
24*	141-2-564T-12200 *	Relay Pulley Belt *	73	141-2-851T-56100	Rewind Slide Spring
26	141-2-811T-03900	Counter	74	141-2-851T-63100	Play Slide Spring
30	141-2-851T-45400	Prevent Lever Spring	75	141-2-851T-58700	Fast Forward Slide Spring
31	141-2-741T-61000	Record Prevent Lever	76	141-2-731T-23001	Record Slide
33	141-2-851T-68000	Fast Forward Lever Spring	77	141-2-731T-20401	Rewind Slide
34	141-0-741T-05700	Fast Forward Relay Lever	78	141-0-731T-00501	Play Slide
35	141-2-661T-17400	Fast Forward Relay Pulley	79	141-2-731T-20601	Fast Forward Slide
36	141-0-531T-01700	Supply Reel Assembly	80	141-2-731T-20303	Stop Slide
37	141-0-531T-01600	Take-up Reel Assembly	84	141-2-741T-47401	Eject Lever
38	141-2-853T-28801	Head Plate Spring Plate	85	141-2-851T-61100	Eject Lever Spring
40	141-2-741T-47701	Brake Lever	87	141-0-741T-12700	Rewind/Fast Forward
41	141-0-731T-06200	Head Slide Plate Assembly	88	141-2-851T-56100	Cassette-up Lever Spring
45	141-2-851T-49700	Azimuth Spring	89	141-2-741T-47800	Cassette-up Lever
48	141-0-721T-027991	Auto Stop Lever Assembly	90	141-0-731T-07900	Pause Slide Assembly
			92		Take-up Clutch Felt

- * Drive Belt - E-V/GAME Replacement Number 1410-62.
WALSCO Replacement Number 1410-62.
- * Counter Belt - E-V/GAME Replacement Number 1425-06.
WALSCO Replacement Number 1425-06.
- * Relay Pulley Belt - E-V/GAME Replacement Number 1425-08.
WALSCO Replacement Number 1425-08.
- * Pressure Roller - E-V/GAME Replacement Number 1407-94.
WALSCO Replacement Number 1499-70.

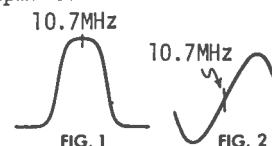


RADIO BOARD TOP VIEW

ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120VAC. Allow a 15-minute warm-up period. Use only enough generator output to obtain a suitable indication.

Suggested Alignment Tools: GC ELECTRONICS:
ALL8290, 8868, 9087



AM ALIGNMENT—SELECTOR IN AM POSITION

Connect generator across loop fashioned of several turns of wire. Set volume at maximum.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
455kHz 400-hertz Modulation	Tuning gang fully open	Output meter across voice coil	T8, T7, T6	Adjust for maximum. Repeat until no further improvement is noted.
600kHz	Tune to signal	"	L9, L8	Adjust for maximum. (Adjust L8 by sliding bobbin along ferrite core.)
1640kHz	"	"	CT4	Adjust for maximum.
1400kHz	"	"	CT3	Adjust for maximum. Repeat AM alignment until no further improvement is noted.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to point B, low side to ground.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to point C, common to ground.	T4, T3, T2, T1	Adjust for maximum.
"	"	DC probe of VTVM to point D, common to ground.	T5	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

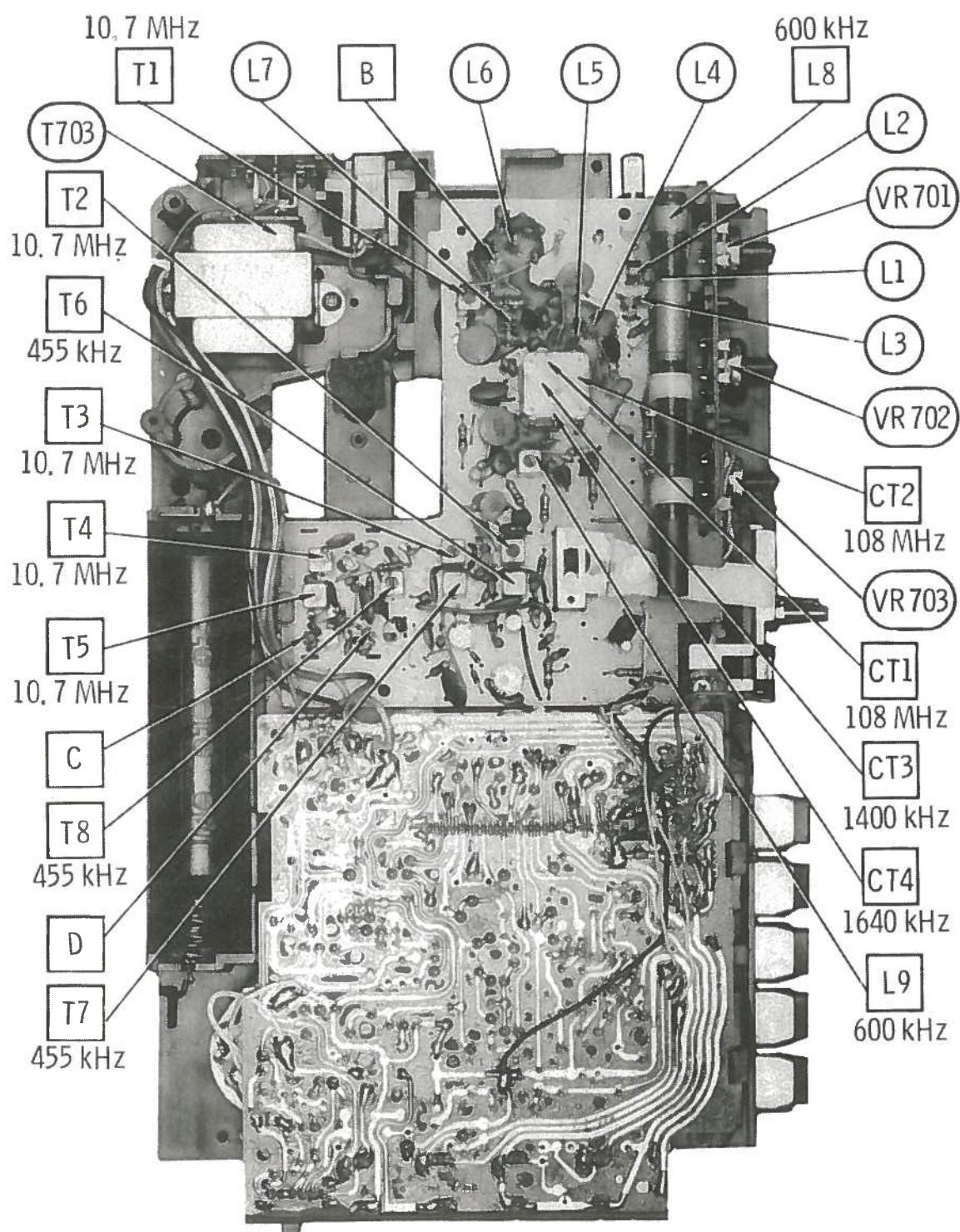
High side of generator thru .001uF to point B, low side to ground.
Use only enough marker signal for indication. Use 60-hertz frequency modulated signal with 450kHz sweep. Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to point C, low side to ground.	T4, T3 T2, T1	Disconnect stabilizing capacitor C 325. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Reconnect C 325.
"	"	Vert input of scope to point D, low side to ground.	T5	Adjust T5 to place marker at center of S curve similar to Fig. 2. Readjust T4 for maximum amplitude and straightness of line.

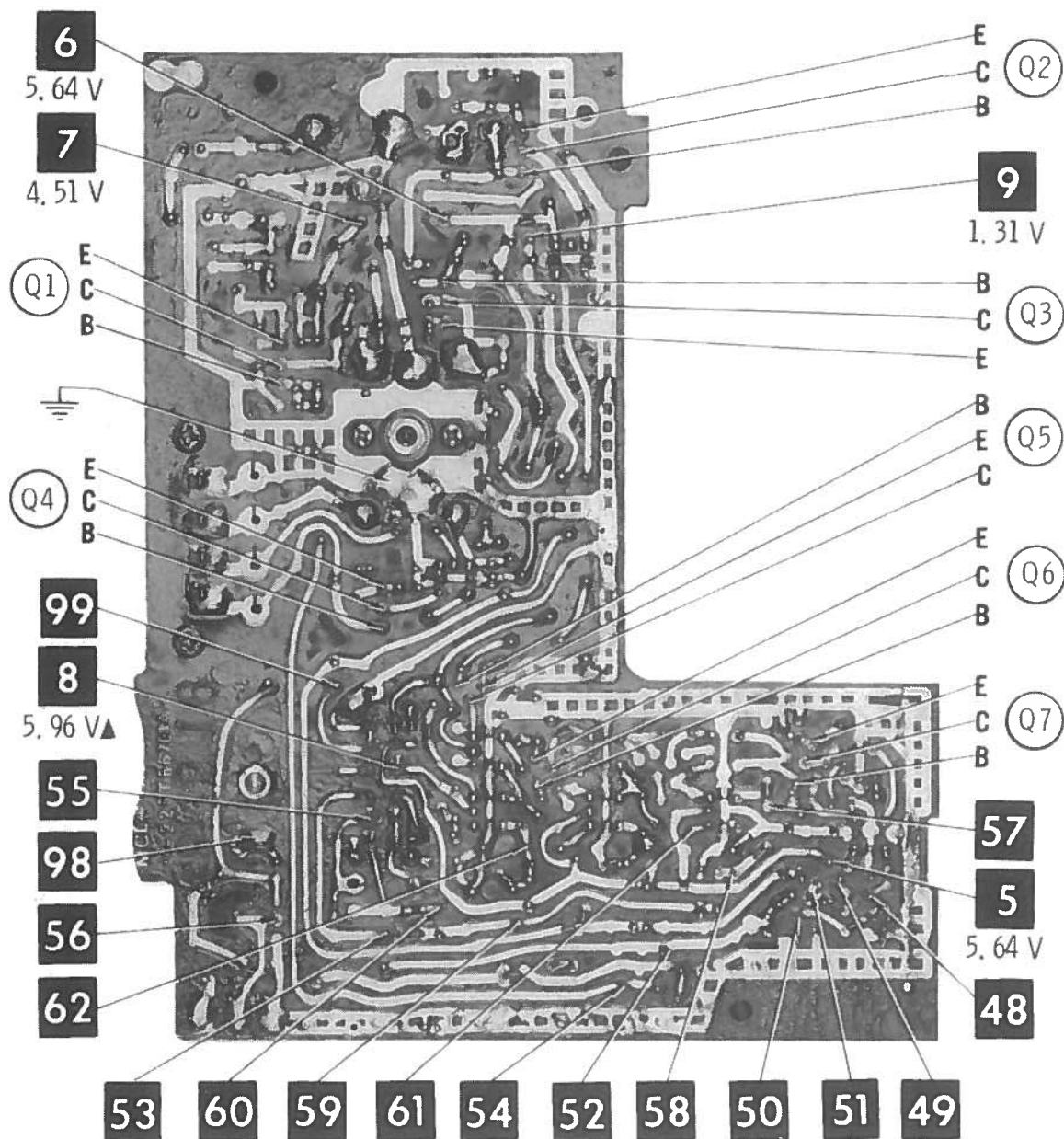
FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

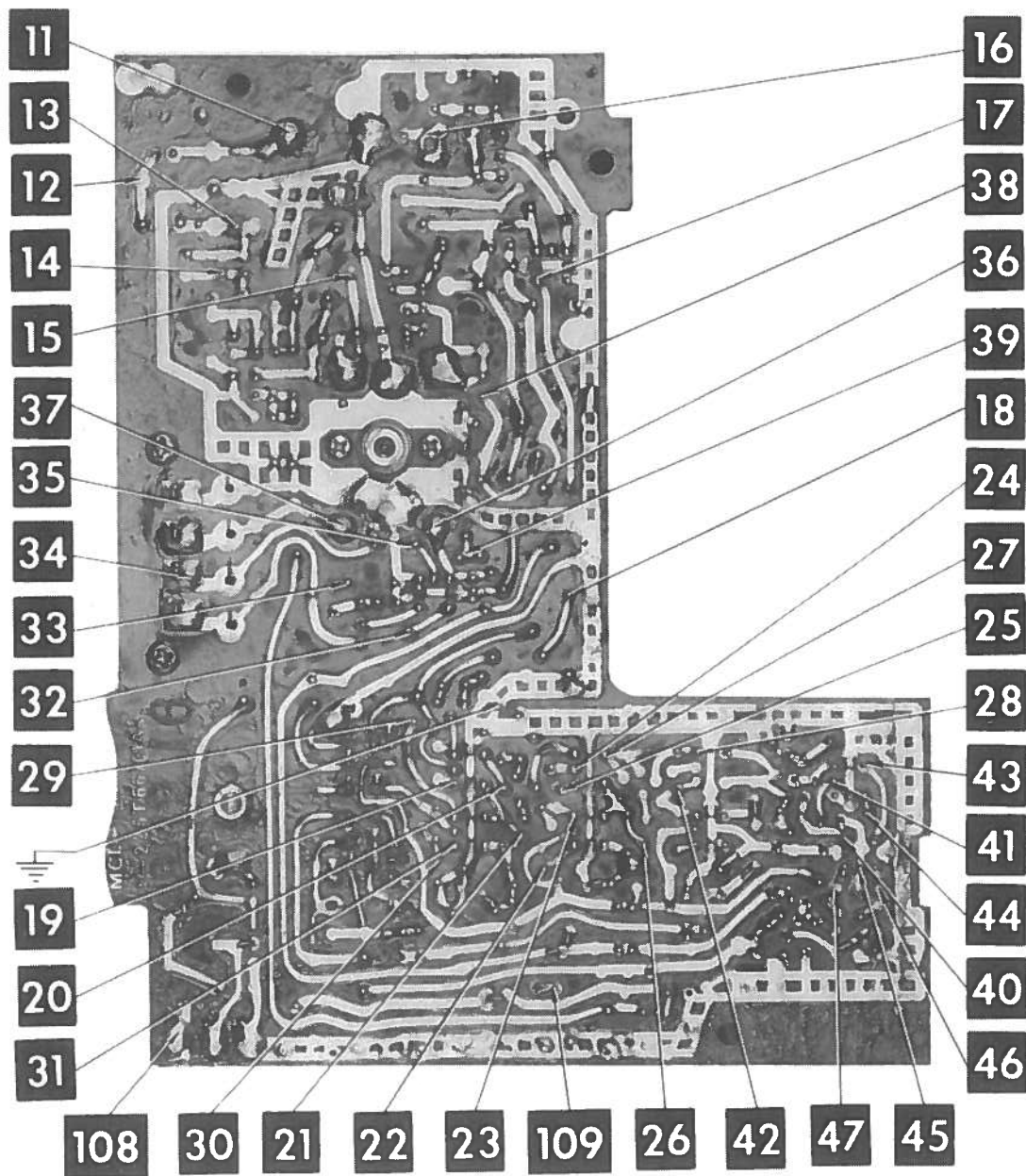
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108.5MHz Unmodulated	Tune to signal	DC probe of VTVM to point C, common to ground.	CT2, CT1	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.



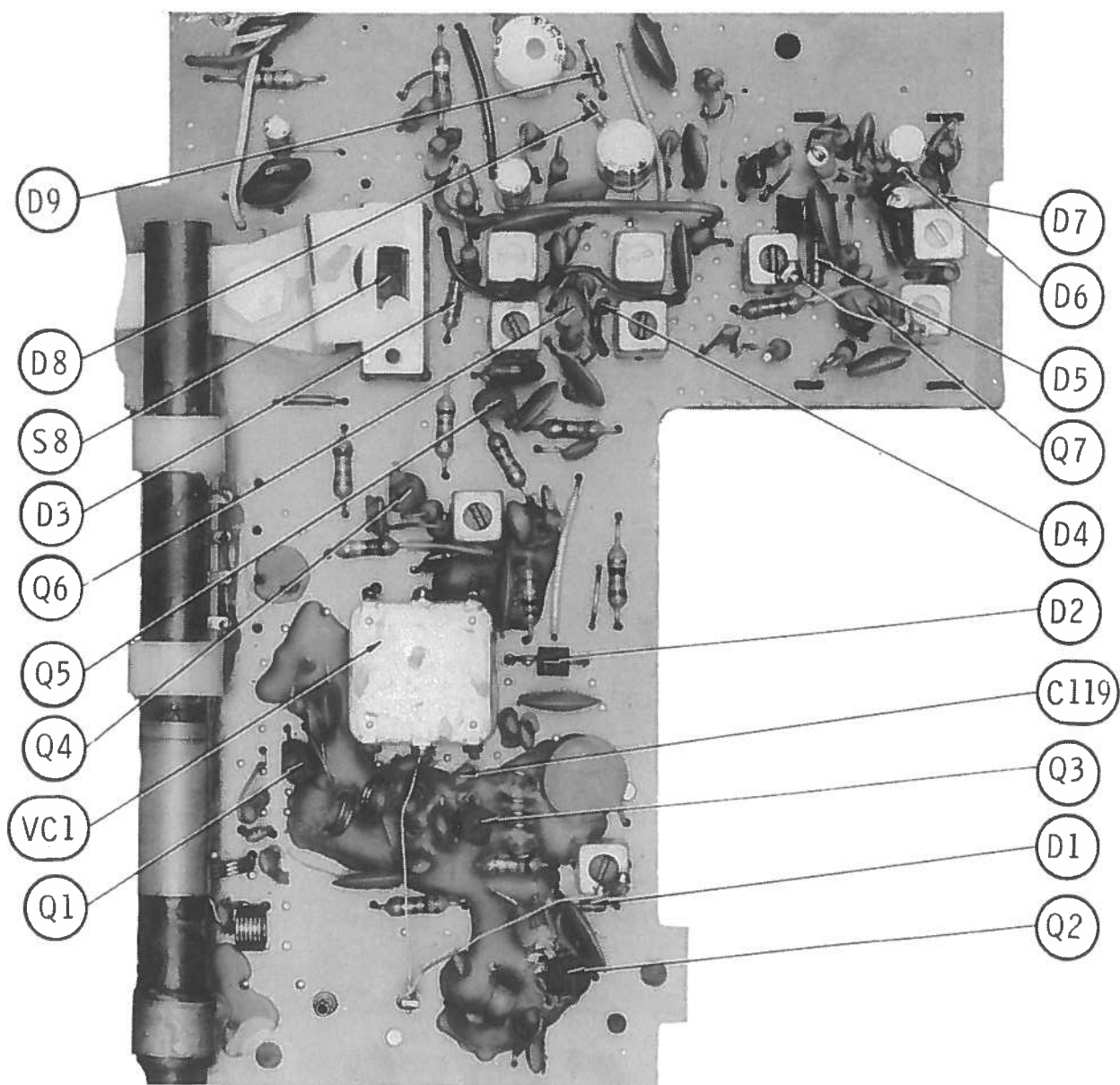
RADIO BOARD ALIGNMENT



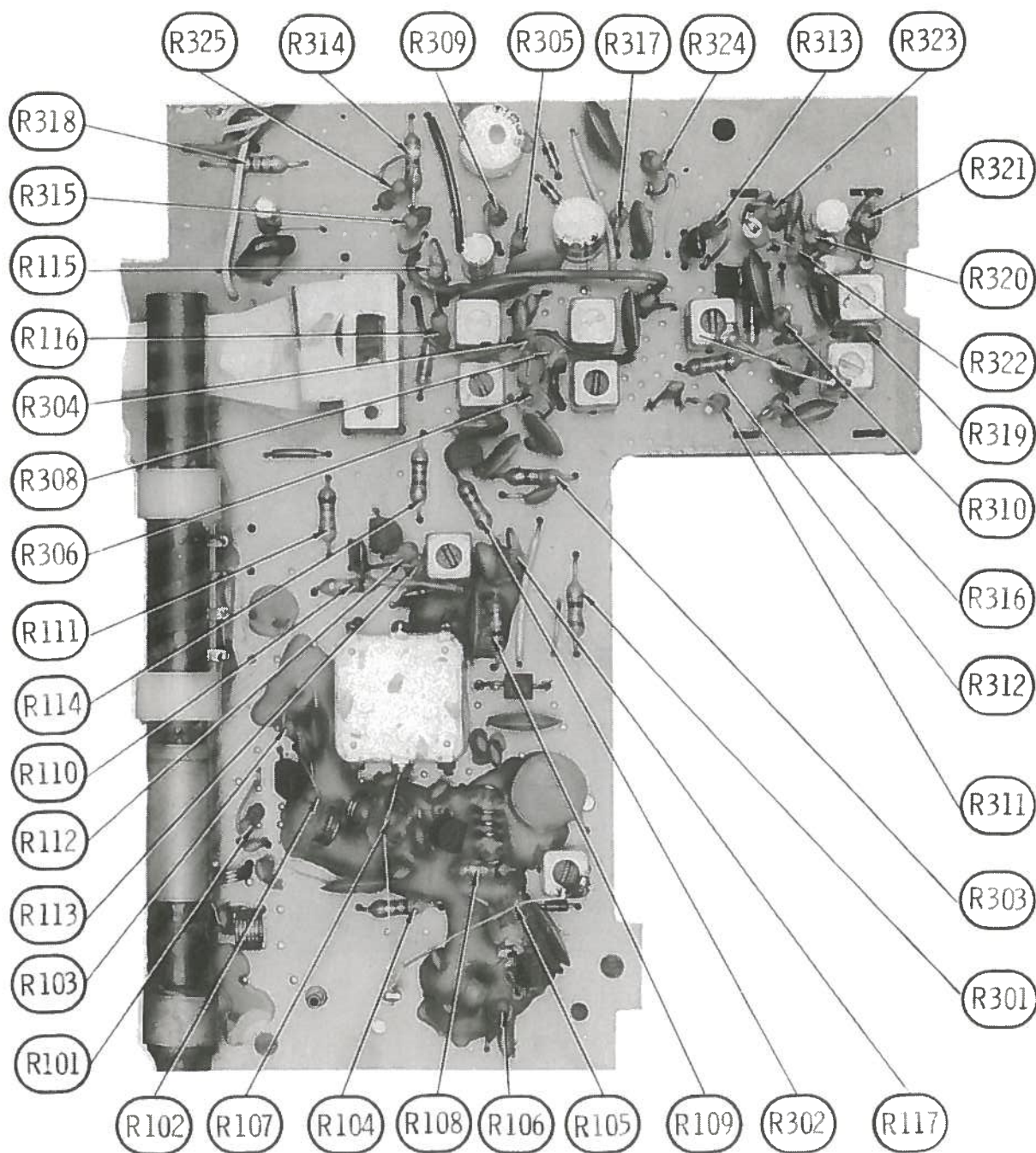
RADIO BOARD BOTTOM VIEW



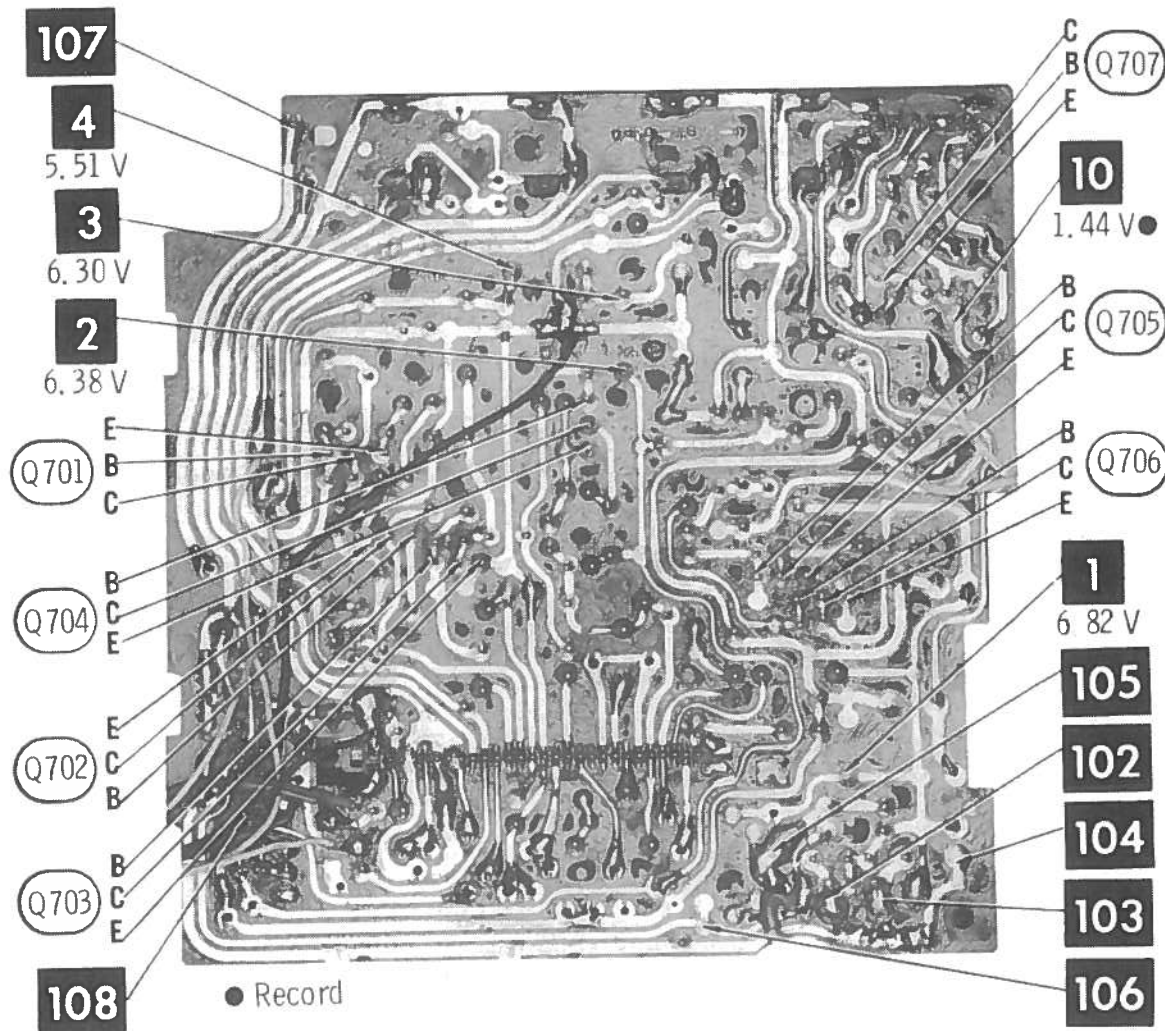
RADIO BOARD BOTTOM VIEW



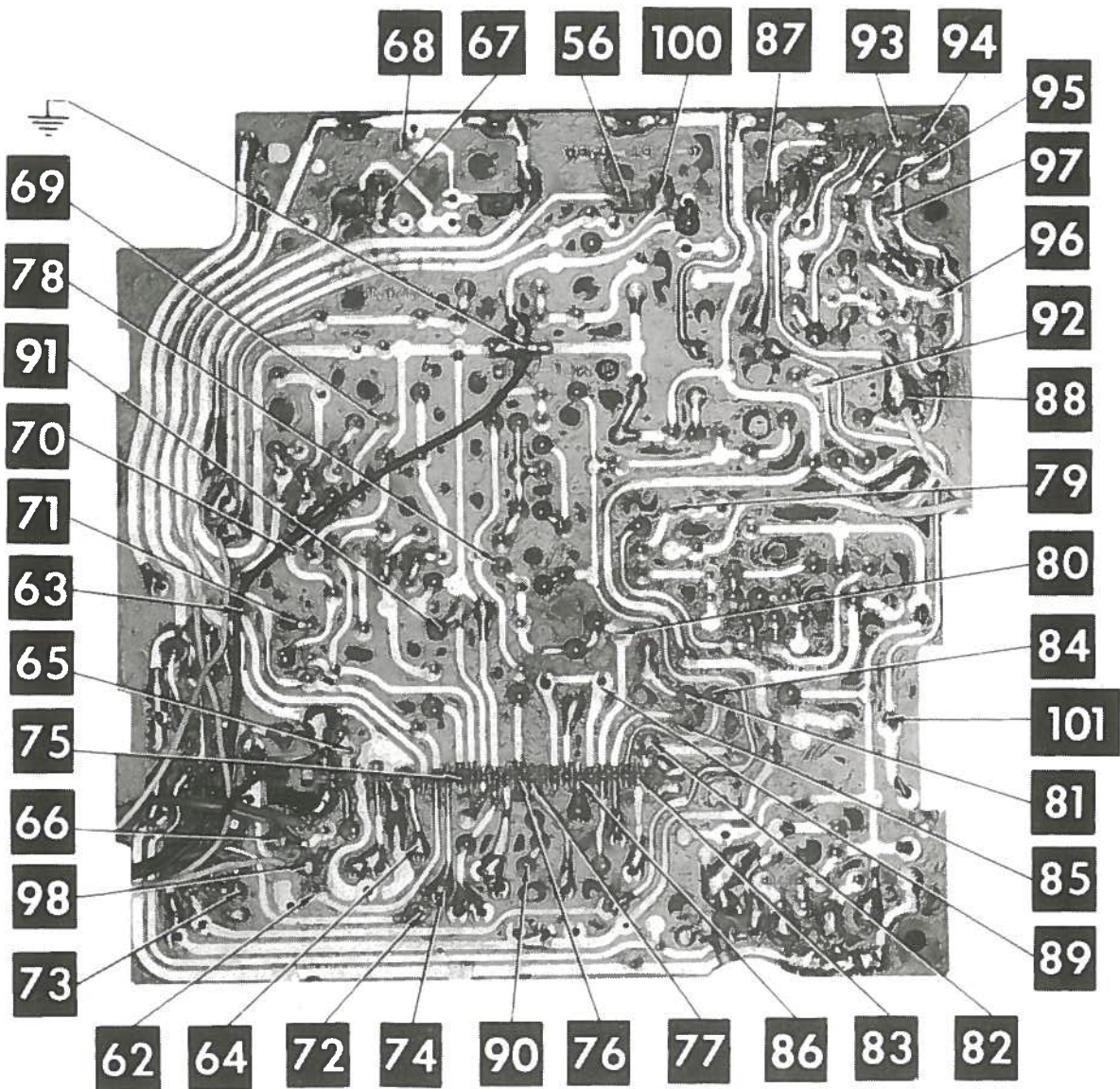
RADIO BOARD TOP VIEW



RADIO BOARD TOP VIEW

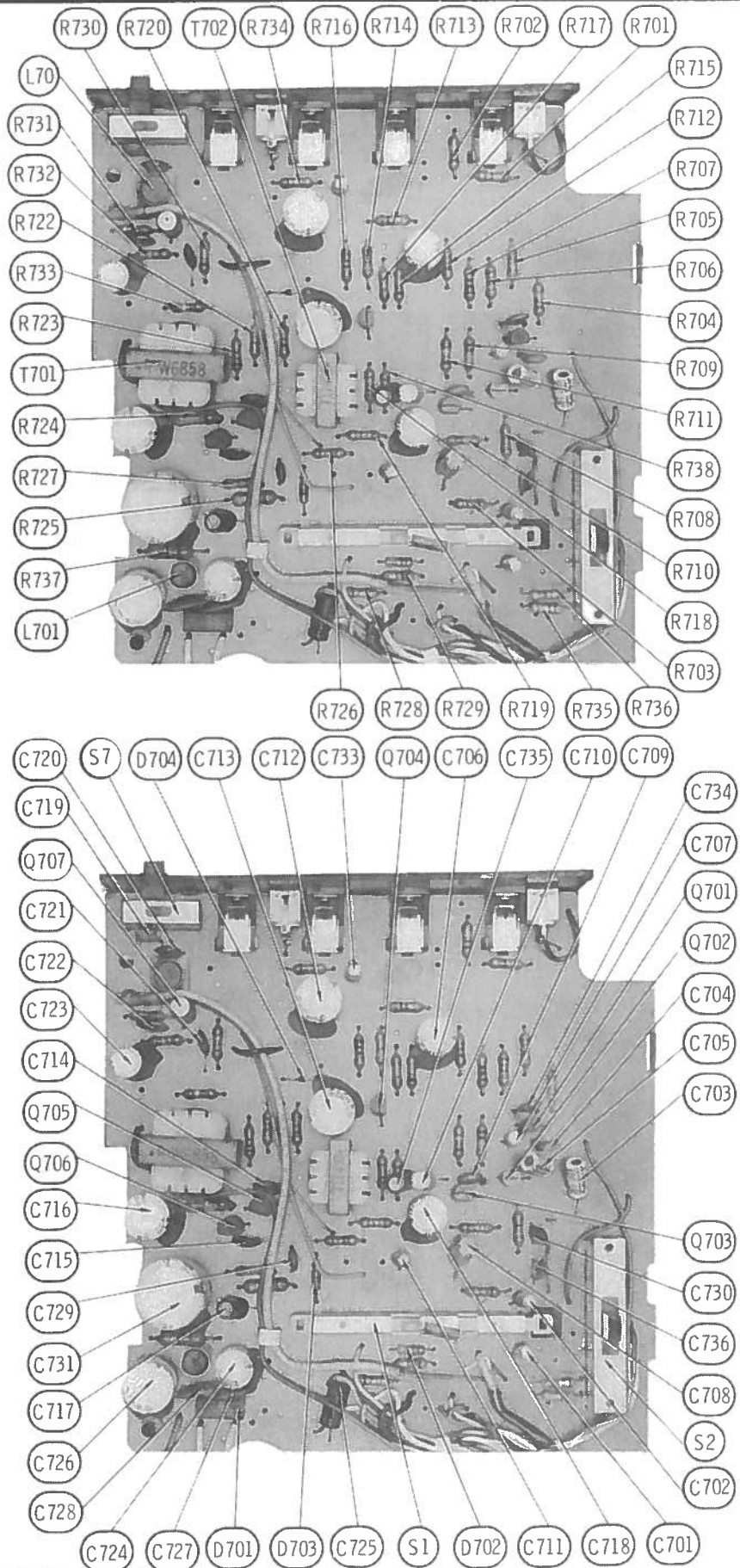


TAPE BOARD BOTTOM VIEW



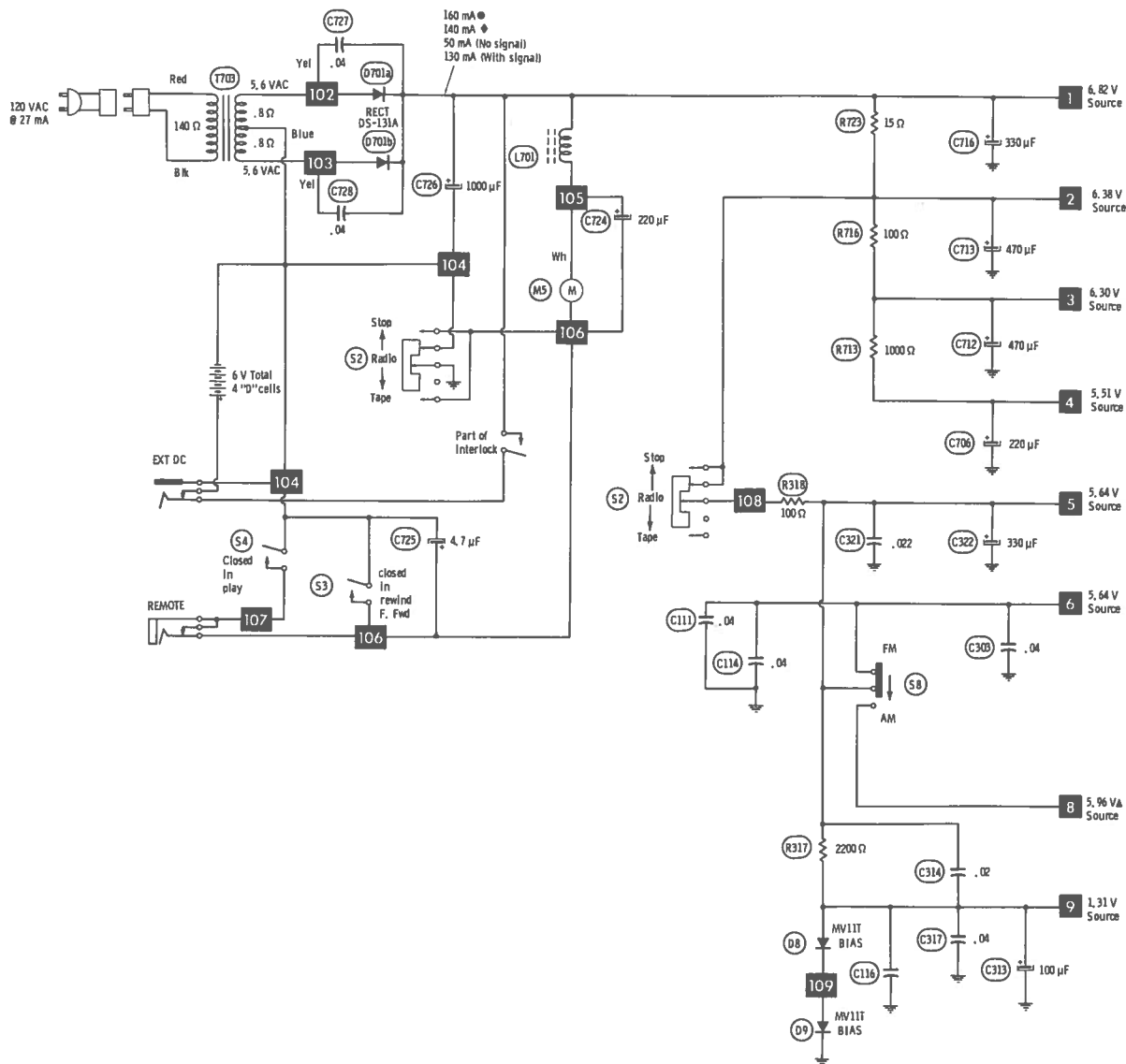
SANYO MODEL M2430

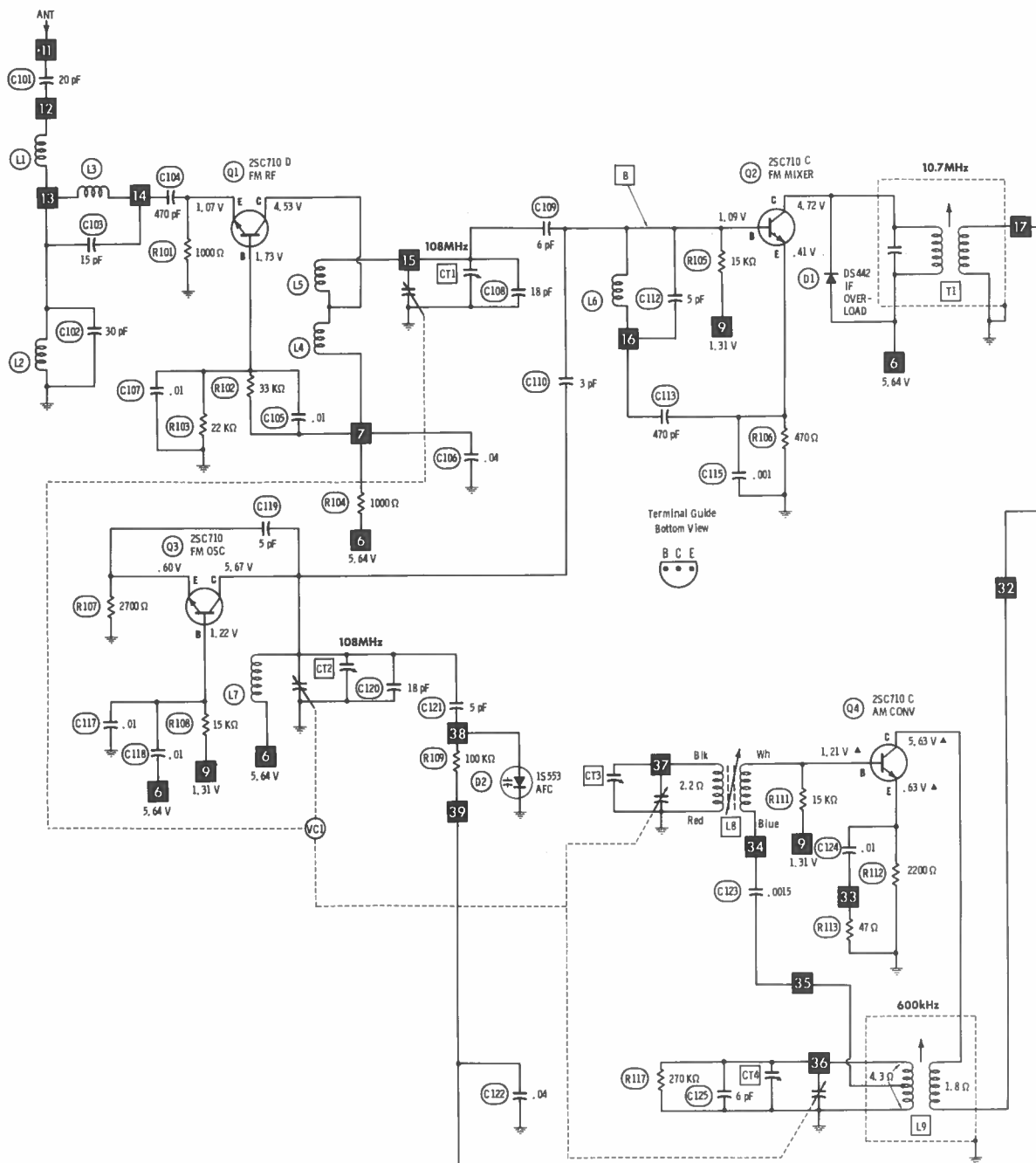
TAPE BOARD BOTTOM VIEW



TAPE BOARD TOP VIEW

NOTE: DEMAGNETIZE HEADS AFTER SERVICING





—X— Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

⊕ Ground

/// Chassis

Measurements with switching as shown unless noted:

◆ Tape play ▲ AM

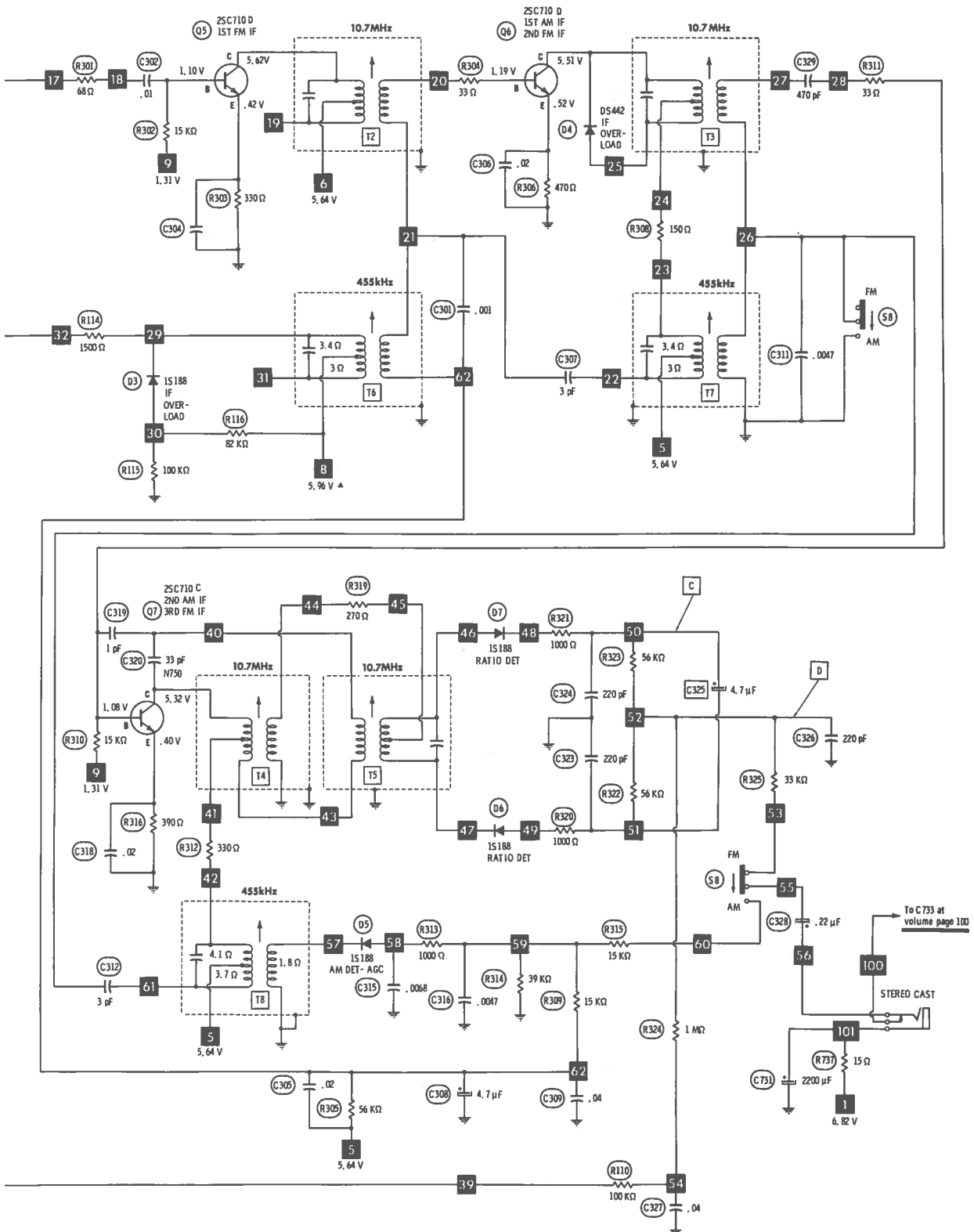
● Record

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.

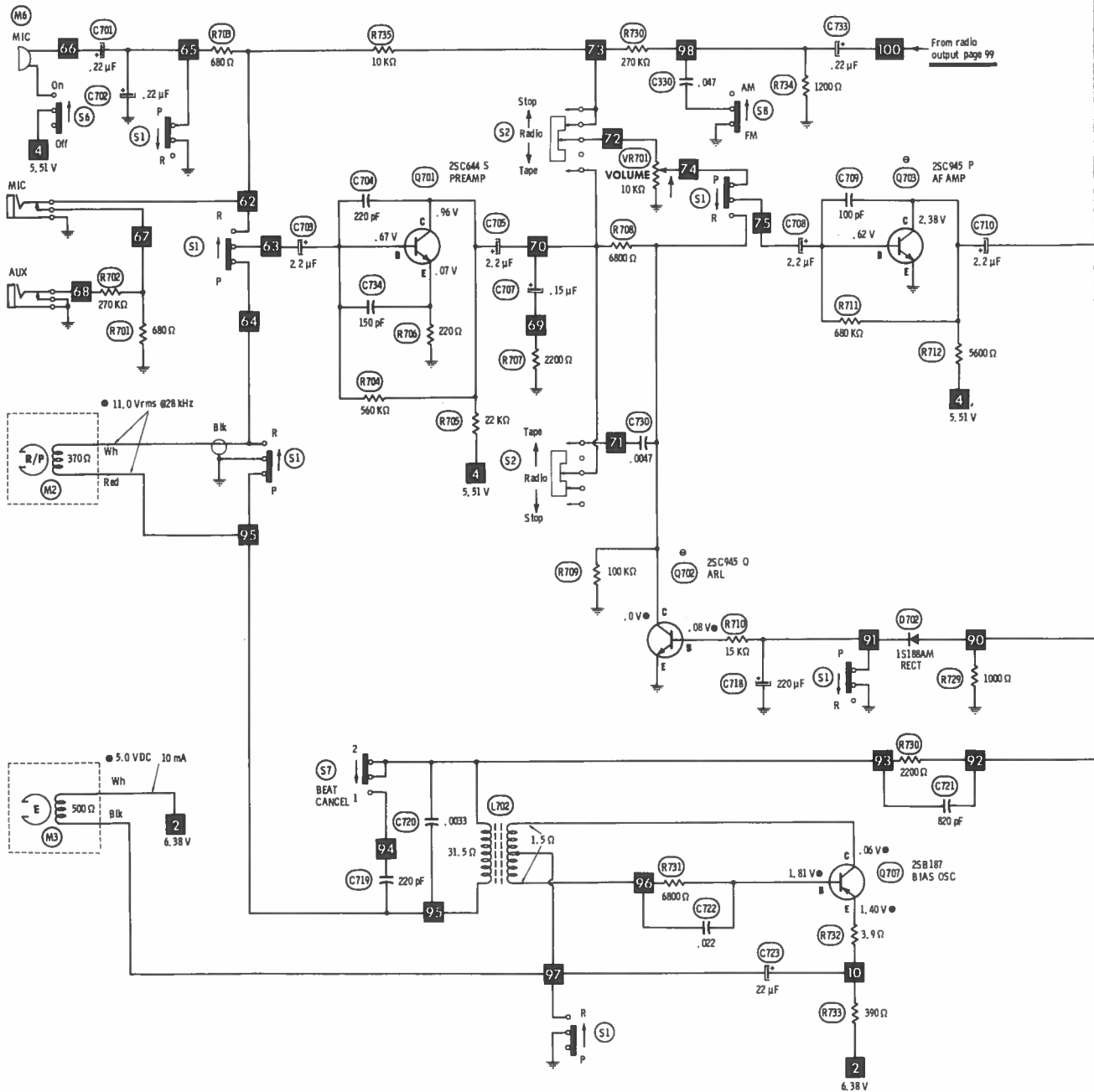
A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE

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NOTE: DEMAGNETIZE HEADS AFTER SERVICING



Terminal Guides
Bottom View



- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊕ See parts list
- ⊥ Ground
- ⏏ Chassis

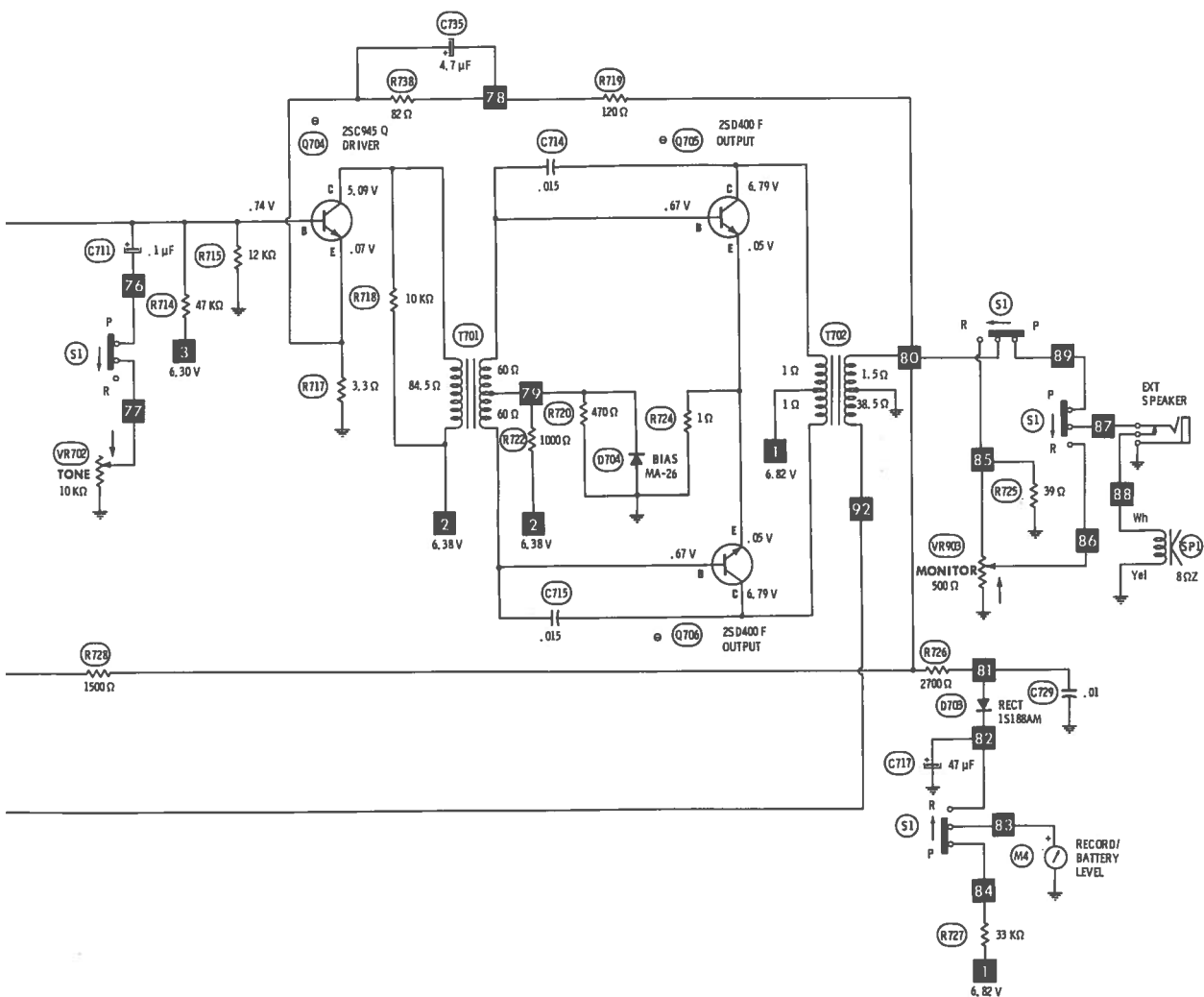
A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH **CIRCUITACE**

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Measurements with switching as shown unless noted:

- ◆ Tape play ▲ AM
- Record

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.



PARTS LIST AND DESCRIPTION

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

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Low-loss Shielded Lead (Interconnecting)	Use BELDEN No. 8401 or 8421
Tape Head Cable	Use BELDEN No. 8430 (Two-Conductor-Unshielded) 8429 (Two-Conductor-Shielded) 8419 (Three-Conductor-Shielded)

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.
D1	DS442		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	1S553		GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
D3	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D4	DS442		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D5	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D6	1S188		1N60(7)	1N60(7)	PTC206M(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-200(7)	ECG110(6)
D7	1S188									
D8	MV11T		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D9	MV11T		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D701	DS-131A		GE-504A(2)	804(2)	PTC201(2)	HEPR0052(2)	RE 49(2)	SK3030(2)	RT-213(2)	ECG116(2)
D702	1S188AM		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D703	1S188AM		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D704	MA-26									
Q1	25C710D		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3122	RT-105	ECG123A
Q2	25C710C		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3122	RT-105	ECG123A
Q3	25C710C		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3122	RT-105	ECG123A
Q4	25C710C		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3122	RT-105	ECG123A
Q5	25C710D		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3122	RT-105	ECG123A
Q6	25C710D		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3122	RT-105	ECG123A
Q7	25C710C		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3122	RT-105	ECG123A
Q701	25C644S		GE-62	TR-21	PTC139	HEPS0015	RE 64	SK3124	RT-105	ECG199
Q702	25C945Q		GE-20	TR-21	PTC139	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	25C828(1)		GE-20	TR-24	PTC139	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q703	25C945P		GE-20	TR-21	PTC139	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	25C828(1)		GE-20	TR-24	PTC139	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q704	25C945Q		GE-20	TR-21	PTC139	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	25C828(1)		GE-20	TR-24	PTC139	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q705	25D400F		GE-63	TR-87	PTC178	HEPS3020	RE 17	SK3137	RT-114	ECG192
	25C1383		GE-45	TR-65	PTC143	HEPS5014	RE 59	SK3512	RT-114	
	(1)									
Q706	25D400F		GE-63	TR-87	PTC178	HEPS3020	RE 17	SK3137	RT-114	ECG192
	25C1383		GE-45	TR-65	PTC143	HEPS5014	RE 59	SK3512	RT-114	
	(1)									
Q707	25B187		GE-53	(1R)25B187	PTC135	HEPG0005	RE 20	SK3004	RT-123	ECG102A

(1) Used in some versions. (6) Matched pair. (7) Two required - select matched pair.

ELECTROLYTIC 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.
C308	4.7 16V		RME-A-J-005	EP30-5	PC5-50	VTT47A50	EV-1319
C313	100 6.3V		RME-E-E-100	EP6-100	PC100-10	MTV100CB6	EV-1030
C322	330 6.3V		RME-G-D-250	EP15-250	WBR350-150	VTT330G10	EV-1145
C325	4.7 16V		RME-A-J-005	EP30-5	PC5-50	VTT47A50	EV-1319
C328	.22 10V					TDC224M050EL	SD50-R229
C701	.22 10V					TDC224M050EL	SD50-R229
C702	.22 10V					TDC224M050EL	SD50-R229
C703	2.2 25V		RME-A-J-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C705	2.2 25V		RME-A-J-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C706	220 6.3V		RME-G-D-250	EP15-250	PC250-10	VTT220F10	EV-1140
C707	.15 10V					TDC154M050EL	SD50-R159
C708	2.2 25V		RME-A-J-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C710	2.2 25V		RME-A-J-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C711	.1 16V					TDC104M050EL	SD50-R109
C712	470 6.3V		RME-K-D-500	EP15-500	PC500-16	VTT470J16	EV-1150
C713	470 10V		RME-K-D-500	EP15-500	PC500-16	VTT470J16	EV-1150
C716	330 10V		RME-G-D-250	EP15-250	WBR350-150	VTT330G10	EV-1145
C717	47 25V		RME-F-H-050	EP30-50	PC50-25	VTT47E25	EV-1326
C718	220 6.3V		RME-G-D-250	EP15-250	PC250-10	VTT220F10	EV-1140
C723	22 25V		RME-D-G-025	EP30-25	PC25-25	TC26C	EV-1324
C724	220 10V		RME-G-D-250	EP15-250	PC250-10	VTT220F10	EV-1140
C725	4.7 25V		RME-A-J-005	EP30-5	PC5-50	VTT47A50	EV-1319
C726	1000 10V		RME-M-D-1000	EP15-1000	PC1000-16	TC1210D	EV-1160
C731	2200 12.5V		ME-G2000	EA15-2000	WBR2000-16	TC1520C	TVA-1175.3
C733	.22 10V					TDC224M050EL	SD50-R229
C735	4.7 25V		RME-A-J-005	EP30-5	PC5-50	VTT47A50	EV-1319

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	20			DTZ-20	NP020	CN0420	10TCC-Q20
C102	30			DTZ-33	NP033	CN0433	10TCC-Q33
C103	15			DTZ-15	NP015	CN0415	10TCC-Q15
C104	470		CCD-471	DD-471	GP470	GP347	10TS-T47
C105	.01		CCD-103	DC-103	GP10000	MAG5011	25SS-S10
C106	.04		CCD-403			GP140	5GA-S40

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.
C107	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C108	18		CCTO-180			CN0418	10TCC-Q18
C109	6			DTZ-6R8	NP06P8		10TCC-V68
C110	3		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C111	.04		CCD-403			GP140	5GA-S40
C112	5		CCTO-050				10TCC-V50
C113	470		CCD-471	DD-471	GP470	GP347	10TS-T47
C114	.04		CCD-403			GP140	5GA-S40
C115	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C116	.04		CCD-403			GP140	5GA-S40
C117	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C118	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C119	5		CCTO-050				10TCC-V50
C120	18		CCTO-180			CN0418	10TCC-Q18
C121	5		CCTO-050				10TCC-V50
C122	.04		CCD-403			GP140	5GA-S40
C123	.015 50V		1MDF-1-153	CPJ-153	DPMS4S15	EWFA1A115	1PB-S15
C124	.01 50V		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C125	6			DTZ-6R8	NP06P8		10TCC-V68
C301	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C302	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C303	.04 50V		1DP-1-403		DPMS6S4	PVC114	4PS-S40
C304	.02		CCD-203	DC-203		MAG5012	2SS-S20
C305	.02		CCD-203	DC-203		MAG5012	2SS-S20
C306	.02		CCD-303	DC-303		GP130	TG-S30
C307	3		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C309	.04		CCD-403			GP140	5GA-S40
C311	.0047		CCD-472	DD-472	GP4700	GP247	2SS-D47
C312	3		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C314	.02		CCD-203	DC-203		MAG5012	2SS-S20
C315	.0068 50V		1MDF-1-682	CPJ-682	DPMS6D68	EWFA1A268	1PB-D68
C316	.0047 50V		1MDF-1-472	CPJ-472	DPMS6D47	EWFA1A247	1PB-D47
C317	.04		CCD-403			GP140	5GA-S40
C318	.02		CCD-403			GP140	5GA-S40
C319	1					CN0510	10TCC-V10
C320	33 N750		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C321	.022 50V		1MDF-1-223	CPJ-223	DPMS2S22	EWFA1A122	1PB-S22
C323	220			DTZ-220			10TCC-T22
C324	220			DTZ-220			10TCC-T22
C326	220			DTZ-220			10TCC-T22
C327	.04		CCD-403			GP140	5GA-S40
C329	470		CCD-471	DD-471	GP470	GP347	10TS-T47
C330	.047 50V		1MDF-2-473		DPMS2S47	EWFA1A147	1PB-S47
C704	220			DTZ-220			10TCC-T22
C709	100			DTZ-100	NP0100	CN0310	10TCC-T10
C714	.015 50V		1MDF-1-153	CPJ-153	DPMS4S15	EWFA1A115	1PB-S15
C715	.015 50V		1MDF-1-153	CPJ-153	DPMS4S15	EWFA1A115	1PB-S15
C719	220			DTZ-220			10TCC-T22
C720	.022 50V		1MDF-1-223	CPJ-223	DPMS2S22	EWFA1A122	1PB-S22
C721	820 50V		DM19-821J	CPR-820J	CD19FD821J03	SX382	424ME8200J501
C722	.022 50V		1MDF-1-223	CPJ-223	DPMS2S22	EWFA1A122	1PB-S22
C727	.04		CCD-403			GP140	5GA-S40
C728	.04		CCD-403			GP140	5GA-S40
C729	.01 50V		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C730	.0047 50V		1MDF-1-472	CPJ-472	DPMS6D47	EWFA1A247	1PB-D47
C734	150			DTZ-150		CN0315	10TCC-T15
C736	.0022 50V		1MDF-1-222	CPJ-222	WMC08D22	M192P2229R8	192P2229R8
CT1	Trimmer						
CT2	Trimmer						
CT3	Trimmer						
CT4	Trimmer						

SANYO MODEL M2430

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	TRW PART No.
VR701	Volume	10K	4-222T-37900			
VR702	Tone	10K	4-222T-37900			
VR703	Monitor	500	4-222T-39600			

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	FM Antenna	4-265R-11600			
L2	RF Choke	4-265R-00500			
L3	RF Choke	4-265R-01200			
L4	RF Choke	4-265R-13600			
L5	RF Choke	4-265R-13600			
L6	RF Choke	4-265R-12700			
L7	FM Oscillator	4-265R-12400			
L8	Loopstick	4-257T-08811			
L9	AM Oscillator	4-258T-07240			
L701	RF Choke (100uH)	4-253R-10100			
L702	Bias Oscillator				
T1	FM Input IF	4-256T-05140			
T2	FM Interstage IF	4-256T-04640			
T3	FM Interstage IF	4-256T-04640			
T4	Ratio Detector (Pri)	4-256T-04540			
T5	Ratio Detector _Sec)	4-256T-04040			
T6	AM Input IF	4-256T-04140			
T7	AM Interstage IF	4-256T-04140			
T8	AM Detector	4-256T-03740			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	.71	1CT		4-254T-11400			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T702	17.7CT	8	4-254T-03400 R-W6858 (1)			(1) Number on unit.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T703	120V AC @ .027A AC	11.3V AC @ .160A DC	4-251T-41400 TPK-042A (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
	3 3/4" PM, 8 Ohms	4-151T-13100		

TAPE HEADS

ITEM No.	MEASURED			MFGR. PART No.	NORTRONICS PART No.	DESCRIPTION
	INDUCTANCE	BIAS/ERASE VOLTS (RMS)	BIAS FREQ.			
M1	290mH	11.0V rms @ .42mA	28kHz	4-242T-08171		Cassette 2-Track Mono Record/Play
M2	260mH	5V DC @ 10mA		4-242T-07700		Cassette 2-Track Mono Erase

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M4	Meter	4-511T-05800	Battery/Record Level
M5	Motor	4-527T-05800	Tape Transport (2100 rpm @ 6.8V DC)
M6	Microphone	4-153T-07900	Built-in
S1	Switch		Record/Play
S2	Switch	4-231T-46100	Tape/Radio/Stop
S3	Switch	4-231T-25400	Fast Forward/Rewind
S4	Switch	4-311T-35002	Power (On/Off)
S6	Switch	4-231R-15399	Mic (On/Off)
S7	Switch		Beat Cancel
S8	Switch	4-231T-45800	AM/FM
	Antenna	4-244T-01100	Telescopic

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

ITEM	PART No.	ITEM	PART No.
Cabinet Assembly	141-0-111T-08602	Push-button Assembly, Pause	141-0-161T-22591
Cabinet Back	141-0-126T-02605	Push-button Assembly	141-2-161T-21800
Cassette Lid Assembly	141-0-124T-03200	Knob; Volume, Tone, Monitor	141-0-161T-22591
Battery Lid Assembly	141-0-128T-02500	Knob, Tuning	141-2-163T-21901

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
AC Power Cord	4-243T-74500	